

3RT, 3RH, 3TB, 3TC, 3TH, 3TK Contactors for Special Applications Contactors with Extended Tolerance 0.7 ... 1.25 x U_s, for Railway Applications

3RT10 motor contactors, 5.5 ... 45 kW

DC operation - DC solenoid system

Screw terminals

For screw and snap-on mounting onto standard mounting rail

Contactors control unit

Solenoid fitted with varistor

| Rated data AC-2 and AC-3 T _u : up to 70 °C | | Auxiliary contacts ¹⁾ | | Rated control supply voltage U _s | DT | Screw terminals | PU (UNIT, SET, M) | PS* | PG | Weight per PU approx. | |
|---|---|----------------------------------|---------|---|-----|-----------------|----------------------------|-----|--------|-----------------------------|-------|
| Rated operational current I _e at | Rating of induction motors at 50 Hz | Ident. No. | Version | | | Order No. | Price per PU | | | kg | |
| 400 V | 400 V | | | | | | | | | | |
| A | kW | NO | NC | V DC | | | | | | | |
| For screw and snap-on mounting onto 35 mm standard mounting rail | | | | | | | | | | | |
| Size S0 | | | | | | | | | | | |
| 17 | 7.5 | -- | -- | -- | 24 | B | 3RT10 25-1XB40-0LA2 | 1 | 1 unit | 101 | 0.625 |
| | | -- | -- | -- | 110 | B | 3RT10 25-1XF40-0LA2 | 1 | 1 unit | 101 | 0.340 |
| 25 | 11 | -- | -- | -- | 24 | B | 3RT10 26-1XB40-0LA2 | 1 | 1 unit | 101 | 0.627 |
| | | -- | -- | -- | 110 | B | 3RT10 26-1XF40-0LA2 | 1 | 1 unit | 101 | 0.445 |
| Size S2 | | | | | | | | | | | |
| 32 | 15 | -- | -- | -- | 24 | B | 3RT10 34-1XB40-0LA2 | 1 | 1 unit | 101 | 1.432 |
| | | -- | -- | -- | 110 | B | 3RT10 34-1XF40-0LA2 | 1 | 1 unit | 101 | 1.505 |
| 40 | 18.5 | -- | -- | -- | 24 | B | 3RT10 35-1XB40-0LA2 | 1 | 1 unit | 101 | 1.491 |
| | | -- | -- | -- | 110 | B | 3RT10 35-1XF40-0LA2 | 1 | 1 unit | 101 | 1.432 |
| 50 | 22 | -- | -- | -- | 24 | B | 3RT10 36-1XB40-0LA2 | 1 | 1 unit | 101 | 1.491 |
| | | -- | -- | -- | 110 | B | 3RT10 36-1XF40-0LA2 | 1 | 1 unit | 101 | 1.432 |
| For screw and snap-on mounting onto 35 mm and 75 mm standard mounting rail | | | | | | | | | | | |
| Size S3 | | | | | | | | | | | |
| 65 | 30 | -- | -- | -- | 24 | B | 3RT10 44-1XB40-0LA2 | 1 | 1 unit | 101 | 2.864 |
| | | -- | -- | -- | 110 | B | 3RT10 44-1XF40-0LA2 | 1 | 1 unit | 101 | 2.775 |
| 80 | 37 | -- | -- | -- | 24 | B | 3RT10 45-1XB40-0LA2 | 1 | 1 unit | 101 | 2.871 |
| | | -- | -- | -- | 110 | B | 3RT10 45-1XF40-0LA2 | 1 | 1 unit | 101 | 2.720 |
| 95 | 45 | -- | -- | -- | 24 | B | 3RT10 46-1XB40-0LA2 | 1 | 1 unit | 101 | 2.913 |
| | | -- | -- | -- | 110 | B | 3RT10 46-1XF40-0LA2 | 1 | 1 unit | 101 | 2.913 |

1) Auxiliary switch blocks mountable as standard contactors.

* You can order this quantity or a multiple thereof.

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3RT, 3RH, 3TB, 3TC, 3TH, 3TK Contactors for Special Applications Contactors with Extended Tolerance 0.7 ... 1.25 x U_s, for Railway Applications

3RT10 motor contactors, 5.5 ... 45 kW

DC operation · DC solenoid system
Cage Clamp terminals
For screw and snap-on mounting onto standard mounting rail
Contactor control unit
Solenoid fitted with varistor



3RT10 ...3X.40-0LA2

| Rated data AC-2 and AC-3 T _u : up to 70 °C | | Auxiliary contacts ¹⁾ | | Rated control supply voltage U _s | DT | Cage Clamp terminals for coil connections | PU (UNIT, SET, M) | PS* | PG | Weight per PU approx. | |
|---|---|----------------------------------|---------|---|-----|--|----------------------------|-----|--------|-----------------------------|-------|
| Rated operational current I _e at 400 V | Rating of induction motors at 50 Hz 400 V | Ident. No. | Version | | | Order No. | Price per PU | | | kg | |
| A | kW | | NO NC | V DC | | | | | | | |
| For screw and snap-on mounting onto 35 mm standard mounting rail | | | | | | | | | | | |
| Size S0 | | | | | | | | | | | |
| 17 | 7.5 | -- | -- | -- | 24 | B | 3RT10 25-3XB40-0LA2 | 1 | 1 unit | 101 | 0.340 |
| | | -- | -- | -- | 110 | B | 3RT10 25-3XF40-0LA2 | 1 | 1 unit | 101 | 0.645 |
| 25 | 11 | -- | -- | -- | 24 | B | 3RT10 26-3XB40-0LA2 | 1 | 1 unit | 101 | 0.630 |
| | | -- | -- | -- | 110 | B | 3RT10 26-3XF40-0LA2 | 1 | 1 unit | 101 | 0.639 |
| Size S2 | | | | | | | | | | | |
| 32 | 15 | -- | -- | -- | 24 | C | 3RT10 34-3XB40-0LA2 | 1 | 1 unit | 101 | 1.466 |
| | | -- | -- | -- | 110 | B | 3RT10 34-3XF40-0LA2 | 1 | 1 unit | 101 | 1.500 |
| 40 | 18.5 | -- | -- | -- | 24 | C | 3RT10 35-3XB40-0LA2 | 1 | 1 unit | 101 | 1.486 |
| | | -- | -- | -- | 110 | B | 3RT10 35-3XF40-0LA2 | 1 | 1 unit | 101 | 1.515 |
| 50 | 22 | -- | -- | -- | 24 | B | 3RT10 36-3XB40-0LA2 | 1 | 1 unit | 101 | 1.489 |
| | | -- | -- | -- | 110 | B | 3RT10 36-3XF40-0LA2 | 1 | 1 unit | 101 | 1.466 |
| For screw and snap-on mounting onto 35 mm and 75 mm standard mounting rail | | | | | | | | | | | |
| Size S3 | | | | | | | | | | | |
| 65 | 30 | -- | -- | -- | 24 | B | 3RT10 44-3XB40-0LA2 | 1 | 1 unit | 101 | 2.855 |
| | | -- | -- | -- | 110 | B | 3RT10 44-3XF40-0LA2 | 1 | 1 unit | 101 | 2.787 |
| 80 | 37 | -- | -- | -- | 24 | B | 3RT10 45-3XB40-0LA2 | 1 | 1 unit | 101 | 2.720 |
| | | -- | -- | -- | 110 | B | 3RT10 45-3XF40-0LA2 | 1 | 1 unit | 101 | 2.720 |
| 95 | 45 | -- | -- | -- | 24 | B | 3RT10 46-3XB40-0LA2 | 1 | 1 unit | 101 | 2.913 |
| | | -- | -- | -- | 110 | B | 3RT10 46-3XF40-0LA2 | 1 | 1 unit | 101 | 2.913 |

1) Auxiliary switch blocks mountable as standard contactors.

3RT, 3RH, 3TB, 3TC, 3TH, 3TK Contactors for Special Applications Contactors with Extended Tolerance 0.7 ... 1.25 x U_s, for Railway Applications

3TB5 motor contactors, 55 ... 200 kW

Overview

EN 60947-4-1.

For requirements according to IEC 60077-1 and IEC 60077-2.

The contactors are finger-safe according to EN 50274. Terminal covers may have to be fitted onto the connecting bars, depending on the configuration with other devices.

Application

For operation in plants which are subject both to considerable variations in the control voltage and to high ambient temperatures, e.g. in railway applications.

Selection and ordering data

3TB50 to 3TB56 contactors

With screw terminals

For screw fixing

Solenoid fitted with varistor

| Size | Rated data AC-2 and AC-3 | | | | | Auxiliary contacts ¹⁾ | | Rated control supply voltage U _s | DT | Order No. | Price per PU | PU (UNIT, SET, M) | PS* | PG | Weight per PU approx. |
|--|---|--------------------------------|--------------|-------|-------|----------------------------------|----|---|----|----------------------|--------------|-------------------|--------|-----|-----------------------|
| | Operational current I _e at 400 V | Ratings of induction motors at | | | | NO | NC | V DC | | | | | | | kg |
| | A | 230 V | 400 V | 500 V | 690 V | | | | | | | | | | |
| | | kW | kW | kW | kW | | | | | | | | | | |
| Contactors for switching AC voltage · DC operation · DC solenoid system | | | | | | | | | | | | | | | |
| 6 | 110 | 37 | 55 | 75 | 90 | 2 | 1 | 24 | C | 3TB50 17-0LB4 | | 1 | 1 unit | 101 | 6.674 |
| | | | | | | | | 110 | C | 3TB50 17-0LF4 | | 1 | 1 unit | 101 | 6.640 |
| 8 | 170 | 55 | 90 | 110 | 132 | 2 | 1 | 24 | C | 3TB52 17-0LB4 | | 1 | 1 unit | 101 | 9.250 |
| | | | | | | | | 110 | C | 3TB52 17-0LF4 | | 1 | 1 unit | 101 | 9.222 |
| 10 | 250 | 75 | 132 | 160 | 200 | 2 | 1 | 24 | C | 3TB54 17-0LB4 | | 1 | 1 unit | 101 | 16.800 |
| | | | | | | | | 110 | C | 3TB54 17-0LF4 | | 1 | 1 unit | 101 | 8.845 |
| 12 | 400 | 115 | 200 | 255 | 355 | 2 | 1 | 110 | C | 3TB56 17-0LF4 | | 1 | 1 unit | 101 | 19.793 |

1) The number of auxiliary contacts cannot be increased.

* You can order this quantity or a multiple thereof.

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3RT, 3RH, 3TB, 3TC, 3TH, 3TK Contactors for Special Applications Contactors with Extended Tolerance 0.7 ... 1.25 x U_s, for Railway Applications

3TC contactors for switching DC voltage, 2-pole

Overview

EN 60947-4-1.

For requirements according to IEC 60077-1 and IEC 60077-2.

The contactors are finger-safe according to EN 50274 (exception: series resistor). Terminal covers may have to be fitted onto the connecting bars, depending on the configuration with other devices.

Application

For operation in plants which are subject both to considerable variations in the control voltage and to high ambient temperatures, e.g. in railway applications.

Selection and ordering data

With screw terminals

3TC44: for screw and snap-on mounting onto 35 mm standard mounting rail

3TC48 to 3TC56: for screw fixing

Solenoid fitted with varistor



3TC48

| Size | Utilization category | Rated operational current I _e at 750 V A | Rating of AC loads at | | | | Auxiliary contacts ¹⁾ | | Rated control supply voltage U _s V DC | DT | Order No. | Price per PU | PU (UNIT, SET, M) | PS* | PG | Weight per PU approx. kg |
|--|----------------------|---|-----------------------|-------|-------|-------|----------------------------------|----|--|----|----------------------|--------------|-------------------|--------|-----|--------------------------|
| | | | 220 V | 440 V | 600 V | 750 V | NO | NC | | | | | | | | |
| Contactors for switching DC voltage · DC operation · DC solenoid system | | | | | | | | | | | | | | | | |
| 2 | DC-1 | 32 | 7 | 14 | 19.2 | 24 | 2 | 1 | 24 | B | 3TC44 17-0LB4 | | 1 | 1 unit | 101 | 1.321 |
| | DC-3/DC-5 | 7.5 | 5 | 9 | 9 | 4 | | | 110 | C | 3TC44 17-0LF4 | | 1 | 1 unit | 101 | 1.310 |
| 4 | DC-1 | 75 | 16.5 | 33 | 45 | 56 | 2 | 1 | 24 | C | 3TC48 17-0LB4 | | 1 | 1 unit | 101 | 4.857 |
| | DC-3/DC-5 | 75 | 13 | 27 | 38 | 45 | | | 110 | C | 3TC48 17-0LF4 | | 1 | 1 unit | 101 | 3.710 |
| 8 | DC-1 | 170 | 48 | 97 | 132 | 165 | 2 | 1 | 24 | C | 3TC52 17-0LB4 | | 1 | 1 unit | 101 | 10.722 |
| | DC-3/DC-5 | 170 | 41 | 82 | 110 | 110 | | | 110 | C | 3TC52 17-0LF4 | | 1 | 1 unit | 101 | 10.830 |
| 12 | DC-1 | 400 | 88 | 176 | 240 | 300 | 2 | 1 | 24 | C | 3TC56 17-0LB4 | | 1 | 1 unit | 101 | 24.150 |
| | DC-3/DC-5 | 400 | 70 | 140 | 200 | 250 | | | 110 | C | 3TC56 17-0LF4 | | 1 | 1 unit | 101 | 18.190 |

1) The number of auxiliary contacts cannot be increased.

* You can order this quantity or a multiple thereof.

3RT, 3RH, 3TB, 3TC, 3TH, 3TK Contactors for Special Applications 3TC Contactors for Switching DC Voltage

1- and 2-pole, 32 ... 400 A

Overview

3TC4 and 3TC5

EN 60947-4-1 (VDE 0660 Part 102)

The contactors are finger-safe according to EN 50274.

Terminal covers may have to be fitted onto the connecting bars, depending on the configuration with other devices.

The DC motor ratings given in the tables are applicable to the DC-3 and DC-5 utilization categories with two-pole switching of the load or with the two conducting paths of the contactor connected in series.

One contactor conducting path can switch full power up to 220 V. The ratings for higher voltages are available on request.

3TC7

EN 60947-4-1 (VDE 0660 Part 102).

The contactors are suitable for use in any climate. They are suitable for switching and controlling DC motors as well as all other DC loads. The electromagnetic excitation is designed for a particularly wide coil operating range.

It is between 0.7 or 0.8 to $1.2 \times U_s$.

3TC74 contactors can be used at up to 750V/400A and 50 Hz in AC-1 operation.

Application

The contactors are suitable for switching and controlling DC motors as well as all other DC circuits.

A version with an especially large operating range is available for use in electrically driven vehicles and in switchgear with significant fluctuations in the operating voltage (see page 3/74).

3RT, 3RH, 3TB, 3TC, 3TH, 3TK Contactors for Special Applications 3TC Contactors for Switching DC Voltage

1- and 2-pole, 32 ... 400 A

Selection and ordering data



| Size | Rated data DC-3 and DC-5 ¹⁾ | Auxiliary contacts ²⁾ | Rated control supply voltage U_s | DT | Order No. | Price per PU | PU (UNIT, SET, M) | PS* | PG | Weight per PU approx. |
|------|---|----------------------------------|------------------------------------|----|-----------|--------------|-------------------|-----|----|-----------------------|
| | Operational current I_e ³⁾ | Version | | | | | | | | kg |
| A | 110 V 220 V 440 V 600 V 750 V kW kW kW kW kW | NO NC V | | | | | | | | |

3TC44 to 3TC56 2-pole contactors - Operating voltage up to 440 V

DC operation

Screw and snap-on mounting onto 35 mm standard mounting rail

| | | | | | | | | | | | | | | |
|---|----|-----|---|---|---|---|---|---|---------------------------|---|-------------|----------------------------|-------------------|-------------------------|
| 2 | 32 | 2.5 | 5 | 9 | 9 | 4 | 2 | 2 | 24 DC 110 DC 220 DC | ▶ 3TC44 17-0AB4 ▶ 3TC44 17-0AF4 ▶ 3TC44 17-0AM4 | 1 1 1 | 1 unit 1 unit 1 unit | 101 101 101 | 1.050 1.046 1.050 |
|---|----|-----|---|---|---|---|---|---|---------------------------|---|-------------|----------------------------|-------------------|-------------------------|

Screw mounting

| | | | | | | | | | | | | | | |
|----|-------------------|-----|----|-----|-----|-----|---|---|---------------------------|---|-------------|----------------------------|-------------------|----------------------------|
| 4 | 75 | 6.5 | 13 | 27 | 38 | 45 | 2 | 2 | 24 DC 110 DC 220 DC | ▶ 3TC48 17-0AB4 ▶ 3TC48 17-0AF4 ▶ 3TC48 17-0AM4 | 1 1 1 | 1 unit 1 unit 1 unit | 101 101 101 | 4.680 4.745 4.513 |
| 8 | 220 ⁴⁾ | 20 | 41 | 82 | 110 | 110 | 2 | 2 | 24 DC 110 DC 220 DC | C 3TC52 17-0AB4 C 3TC52 17-0AF4 C 3TC52 17-0AM4 | 1 1 1 | 1 unit 1 unit 1 unit | 101 101 101 | 10.589 9.826 9.878 |
| 12 | 400 | 35 | 70 | 140 | 200 | 250 | 2 | 2 | 24 DC 110 DC 220 DC | C 3TC56 17-0AB4 C 3TC56 17-0AF4 C 3TC56 17-0AM4 | 1 1 1 | 1 unit 1 unit 1 unit | 101 101 101 | 17.870 19.318 22.870 |

AC operation, 50/Hz

Screw and snap-on mounting onto 35 mm standard mounting rail

| | | | | | | | | | | | | | | |
|---|----|-----|---|---|---|---|---|---|--|------------------------------------|--------|------------------|------------|----------------|
| 2 | 32 | 2.5 | 5 | 9 | 9 | 4 | 2 | 2 | 220 / 230 AC ⁵⁾ 110 / 110 AC | ▶ 3TC44 17-0BP0 ▶ 3TC44 17-0BF0 | 1 1 | 1 unit 1 unit | 101 101 | 0.673 0.683 |
|---|----|-----|---|---|---|---|---|---|--|------------------------------------|--------|------------------|------------|----------------|

Screw mounting

| | | | | | | | | | | | | | | |
|----|-------------------|-----|----|-----|-----|-----|---|---|--------------------------------------|------------------------------------|--------|------------------|------------|------------------|
| 4 | 75 | 6.5 | 13 | 27 | 38 | 45 | 2 | 2 | 220 / 230 AC ⁵⁾ 110 AC | ▶ 3TC48 17-0BP0 ▶ 3TC48 17-0BF0 | 1 1 | 1 unit 1 unit | 101 101 | 3.447 3.487 |
| 8 | 220 ⁴⁾ | 20 | 41 | 82 | 110 | 110 | 2 | 2 | 220 / 230 AC ⁵⁾ 110 AC | A 3TC52 17-0BP0 C 3TC52 17-0BF0 | 1 1 | 1 unit 1 unit | 101 101 | 7.005 7.041 |
| 12 | 400 | 35 | 70 | 140 | 200 | 250 | 2 | 2 | 220 / 230 AC ⁵⁾ 110 AC | C 3TC56 17-0BP0 C 3TC56 17-0BF0 | 1 1 | 1 unit 1 unit | 101 101 | 14.437 14.363 |

For more rated control supply voltages U_s , see page 3/77.

- For the permissible load for utilization category DC-1, see Technical Specifications.
- The auxiliary switch complement cannot be altered on DC-operated contactors.
- The following rated operational currents are permitted for reversing duty with 3TC44 to 3TC56 contactors:

| Contactor | Rated operating voltage | |
|-----------|-------------------------|-------|
| Type | 110 V, 220 V | 440 V |
| 3TC44 | 32 A | 7 A |
| 3TC48 | 75 A | 75 A |
| 3TC52 | 170 A | 170 A |
| 3TC56 | 400 A | 400 A |
- For > 600 V: $I_e = 170$ A.
- Operating range at 220 V: 0.85 to 1.15 x U_s .

* You can order this quantity or a multiple thereof.

3RT, 3RH, 3TB, 3TC, 3TH, 3TK Contactors for Special Applications 3TC Contactors for Switching DC Voltage

1- and 2-pole, 32 ... 400 A



3TC74

3TC78

| Size | Rated data DC-3 and DC-5 ¹⁾ | Auxiliary contacts ²⁾ | Rated control supply voltage U_s | DT | Order No. | Price per PU | PU (UNIT, SET, M) | PS* | PG | Weight per PU approx. |
|------|---|-------------------------------------|--|----|-----------|-----------------|-------------------------|-----|----|-----------------------------|
| | Operational current I_e | | | | | | | | | |
| | Ratings of DC motors at | | | | | | | | | |
| | 110 V 220 V 440 V 600 V 750 V 1200 V 1500 V | | | | | | | | | |
| A | kW kW kW kW kW kW kW | NO NC | V | | | | | | | kg |

3TC74 1-pole contactors · Operating voltage up to 750 V

DC operation

| | | | | | | | | | | | | | | | | | |
|----|-----|----|----|-----|-----|-----|----|----|---|---|-----------------|---|---------------------|---|--------|-----|--------|
| 12 | 400 | 35 | 70 | 140 | 200 | 250 | -- | -- | 4 | 4 | 24 DC 110 DC | C | 3TC74 14-0EB | 1 | 1 unit | 101 | 10.728 |
| | | | | | | | | | | | | C | 3TC74 14-0EF | 1 | 1 unit | 101 | 10.660 |

AC operation, 50 Hz

| | | | | | | | | | | | | | | | | | |
|----|-----|----|----|-----|-----|-----|----|----|---|---|----------------------------|---|---------------------|---|--------|-----|--------|
| 12 | 400 | 35 | 70 | 140 | 200 | 250 | -- | -- | 4 | 4 | 230 / 220 AC ³⁾ | C | 3TC74 14-1CM | 1 | 1 unit | 101 | 10.850 |
|----|-----|----|----|-----|-----|-----|----|----|---|---|----------------------------|---|---------------------|---|--------|-----|--------|

3TC78 2-pole contactors · Operating voltage up to 1500 V

DC operation

| | | | | | | | | | | | | | | | | | |
|----|-----|----|----|-----|-----|-----|-----|-----|---|---|-----------------|---|---------------------|---|--------|-----|--------|
| 12 | 400 | 35 | 70 | 140 | 200 | 250 | 400 | 500 | 4 | 4 | 24 DC 110 DC | C | 3TC78 14-0EB | 1 | 1 unit | 101 | 22.500 |
| | | | | | | | | | | | | C | 3TC78 14-0EF | 1 | 1 unit | 101 | 15.960 |

AC operation, 50 Hz

| | | | | | | | | | | | | | | | | | |
|----|-----|----|----|-----|-----|-----|-----|-----|---|---|----------------------------|---|---------------------|---|--------|-----|--------|
| 12 | 400 | 35 | 70 | 140 | 200 | 250 | 400 | 500 | 4 | 4 | 230 / 220 AC ³⁾ | C | 3TC78 14-1CM | 1 | 1 unit | 101 | 23.824 |
|----|-----|----|----|-----|-----|-----|-----|-----|---|---|----------------------------|---|---------------------|---|--------|-----|--------|

For more rated control supply voltages U_s , see below.

For spare parts, see page 3/144.

- 1) For the permissible load for utilization category DC-1, see Technical Specifications.
- 2) The auxiliary switch complement cannot be altered on DC-operated contactors.
- 3) Upper operating range limit at 230 V: $1.14 \times U_s$.

| Contactors type | 3TC44 | 3TC48 | 3TC52/56 | 3TC74/78 |
|------------------------------------|-------|-------|----------|----------|
| Rated control supply voltage U_s | | | | |

Rated control supply voltages (the 10th and 11th position of the order number must be changed)

AC operation · Coils for 50 Hz

| | | | | |
|--------------|------------------|------------------|------------------|-----------------|
| 24 V AC | B0 | B0 | -- | -- |
| 110 V AC | F0 | F0 | F0 | -- |
| 230/220 V AC | P0 ¹⁾ | P0 ¹⁾ | P0 ¹⁾ | M ²⁾ |
| 240 V AC | U0 | U0 | -- | -- |

AC operation · Coils for 50/60 Hz

| | | | | |
|----------|----|----|----|----|
| 24 V AC | C2 | -- | -- | -- |
| 110 V AC | G2 | -- | -- | -- |
| 120 V AC | K2 | -- | -- | -- |
| 220 V AC | N2 | -- | -- | -- |
| 230 V AC | L2 | -- | -- | -- |

DC operation

| | | | | |
|----------|----|----|----|----|
| 24 V DC | B4 | B4 | B4 | B |
| 48 V DC | W4 | W4 | -- | -- |
| 60 V DC | E4 | E4 | -- | -- |
| 110 V DC | F4 | F4 | F4 | F |
| 125 V DC | G4 | G4 | -- | -- |
| 220 V DC | M4 | M4 | M4 | M |
| 230 V DC | P4 | P4 | -- | -- |

- 1) Coil operating range at 220 V or 380 V: 0.85 to $1.15 \times U_s$; lower operating range limit according to IEC 60947.
- 2) Upper operating range limit at 230 V: $1.14 \times U_s$.

* You can order this quantity or a multiple thereof.

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3RH, 3TH Contactor Relays

3RH1 contactor relays, 4- and 8-pole

Overview

The SIRIUS generation of controls is a complete, modular system family, logically designed right down to the last detail, from the basic units to the accessories.

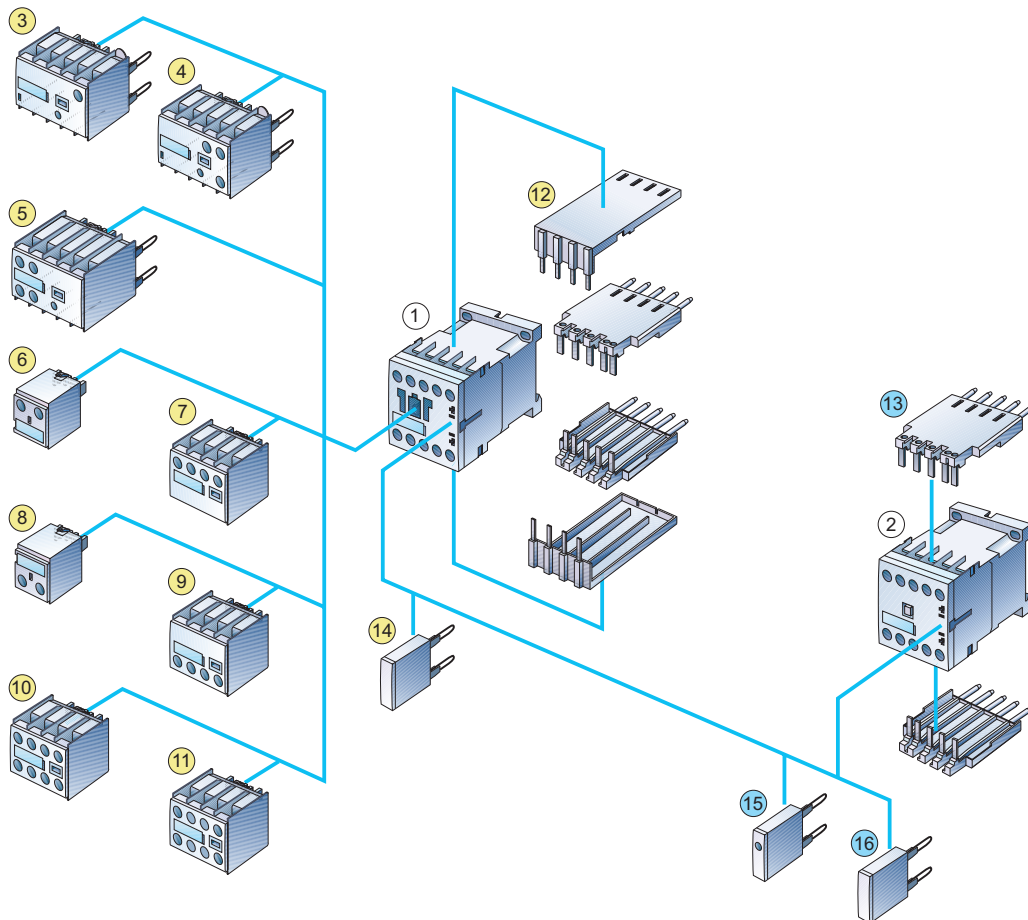
Contactor relays and coupling relays
Size S00 with accessories

AC and DC operation

IEC 60947, EN 60947 (VDE 0660)

The 3RH1 contactor relays are suitable for use in any climate. They are finger-safe according to EN 50274.

The 3RH1 contactor relays have screw or Cage Clamp terminals. Four contacts are available in the basic unit.



- ① Contactor relay, see page 3/79
- ② Coupling relay for auxiliary circuits, see page 3/88
- ③ Solid-state time-delay block, ON-delay, see page 3/118
- ④ Solid-state time delay block, OFF-delay, see page 3/118
- ⑤ Auxiliary switch block with solid-state time delay, see page 3/117
(versions: ON or OFF-delay)
- ⑥ 1-pole auxiliary switch block, cable entry from above, see page 3/110
- ⑦ 2-pole auxiliary switch block, cable entry from above, see page 3/110
- ⑧ Single-pole auxiliary switch block, cable entry from below, see page 3/110
- ⑨ 2-pole auxiliary switch block, cable entry from below, see page 3/110
- ⑩ 4-pole auxiliary switch block, see page 3/110
(terminal designations according to EN 50011 or EN 50005)
- ⑪ 2-pole auxiliary switch block, standard design or solid-state compatible version, see page 3/110
(terminal designations according to EN 50005)
- ⑫ Solder pin adapter for contactor relays with 4-pole auxiliary switch block, see page 3/123
- ⑬ Solder pin adapter for contactor relays and coupling relays, see page 3/122
- ⑭ Additional load module for increasing the permissible residual current, see page 3/121
- ⑮ Surge suppressor with LED, see page 3/120
- ⑯ Surge suppressor without LED, see page 3/120

3RH, 3TH Contactor Relays

3RH1 contactor relays, 4- and 8-pole

Selection and ordering data

AC and DC operation
Screw terminals



3RH11 ...-1...

3RH12 ...-1...

| Rated operational current I_n /AC-15/AC-14 at 230 V | Contacts | | Rated control supply voltage U_s | DT | Screw terminals | | PU (UNIT, SET, M) | PS* | PG | Weight per PU approx. |
|--|------------|---------|------------------------------------|----|-----------------|--------------|-------------------|-----|----|-----------------------|
| | Ident. No. | Version | | | Order No. | Price per PU | | | | |
| A | NO | NC | V | | | | | | | kg |

For screw and snap-on mounting onto 35 mm standard mounting rail

AC operation

AC 50/60 Hz¹⁾

• Size S00

Terminal designations according to EN 50011

| | | | | | | | | | | |
|--|------|---|-----|------|----------------|----------------|--------|--------|----------------|-------|
| 6 | 40 E | 4 | -- | 24 | ▶ | 3RH11 40-1AB00 | 1 | 1 unit | 101 | 0.204 |
| | | | | 110 | ▶ | 3RH11 40-1AF00 | 1 | 1 unit | 101 | 0.202 |
| | | | | 230 | ▶ | 3RH11 40-1AP00 | 1 | 1 unit | 101 | 0.204 |
| 31 E | 3 | 1 | 24 | ▶ | 3RH11 31-1AB00 | 1 | 1 unit | 101 | 0.204 | |
| | | | 110 | ▶ | 3RH11 31-1AF00 | 1 | 1 unit | 101 | 0.202 | |
| | | | 230 | ▶ | 3RH11 31-1AP00 | 1 | 1 unit | 101 | 0.203 | |
| 22 E | 2 | 2 | 24 | ▶ | 3RH11 22-1AB00 | 1 | 1 unit | 101 | 0.203 | |
| | | | 110 | ▶ | 3RH11 22-1AF00 | 1 | 1 unit | 101 | 0.202 | |
| | | | 230 | ▶ | 3RH11 22-1AP00 | 1 | 1 unit | 101 | 0.204 | |
| With permanently mounted auxiliary switch block | | | | | | | | | | |
| 6 | 44 E | 4 | 4 | 230 | ▶ | 3RH12 44-1AP00 | 1 | 1 unit | 101 | 0.254 |
| | | | | 62 E | 6 | 2 | 230 | ▶ | 3RH12 62-1AP00 | 1 |

DC operation - DC solenoid system

| | | | | | | | | | | |
|--|------|---|------|------|----------------|----------------|--------|----------------|----------------|--------|
| 6 | 40 E | 4 | -- | DC | | | | | | |
| | | | | 24 | ▶ | 3RH11 40-1BB40 | 1 | 1 unit | 101 | 0.264 |
| | | | | 220 | ▶ | 3RH11 40-1BM40 | 1 | 1 unit | 101 | 0.261 |
| 31 E | 3 | 1 | 24 | ▶ | 3RH11 31-1BB40 | 1 | 1 unit | 101 | 0.262 | |
| | | | 220 | ▶ | 3RH11 31-1BM40 | 1 | 1 unit | 101 | 0.259 | |
| | | | 22 E | 2 | 2 | 24 | ▶ | 3RH11 22-1BB40 | 1 | 1 unit |
| | | | | 220 | ▶ | 3RH11 22-1BM40 | 1 | 1 unit | 101 | 0.260 |
| With permanently mounted auxiliary switch block | | | | | | | | | | |
| 6 | 44 E | 4 | 4 | 24 | ▶ | 3RH12 44-1BB40 | 1 | 1 unit | 101 | 0.312 |
| | | | | 62 E | 6 | 2 | 24 | ▶ | 3RH12 62-1BB40 | 1 |

For other voltages, see page 3/81.

For accessories, see page 3/110 and 3/113.

For multi-unit packing and reusable packaging, see Appendix -> Ordering Notes.

1) Coil operating range
at 50 Hz: 0.8 to 1.1 x U_s
at 60 Hz: 0.85 to 1.1 x U_s .

* You can order this quantity or a multiple thereof.

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3/79

3RH, 3TH Contactor Relays

3RH1 contactor relays, 4- and 8-pole

AC and DC operation
Cage Clamp terminals



3RH11 ...2...



3RH12 ...2...

| Rated operational current I_e /AC-15/AC-14 at 230 V | Contacts | Rated control supply voltage U_s | DT | Cage Clamp terminals | PU (UNIT, SET, M) | PS* | PG | Weight per PU approx. |
|--|-----------------------------|------------------------------------|----|------------------------|-------------------|-----|----|-----------------------|
| A | Ident. No. Version NO NC | V | | Order No. Price per PU | | | | kg |

For screw and snap-on mounting onto 35 mm standard mounting rail

AC operation

AC 50/60 Hz¹⁾

• Size S00

Terminal designations according to EN 50011

| | | | | | | | | | | |
|------|------|---|-----|-----|----------------|----------------|--------|--------|-------|-------|
| 6 | 40 E | 4 | -- | 24 | ▶ | 3RH11 40-2AB00 | 1 | 1 unit | 101 | 0.201 |
| | | | | 110 | ▶ | 3RH11 40-2AF00 | 1 | 1 unit | 101 | 0.199 |
| | | | | 230 | ▶ | 3RH11 40-2AP00 | 1 | 1 unit | 101 | 0.200 |
| 31 E | 3 | 1 | 24 | ▶ | 3RH11 31-2AB00 | 1 | 1 unit | 101 | 0.200 | |
| | | | 110 | ▶ | 3RH11 31-2AF00 | 1 | 1 unit | 101 | 0.199 | |
| | | | 230 | ▶ | 3RH11 31-2AP00 | 1 | 1 unit | 101 | 0.199 | |
| 22 E | 2 | 2 | 24 | ▶ | 3RH11 22-2AB00 | 1 | 1 unit | 101 | 0.201 | |
| | | | 110 | ▶ | 3RH11 22-2AF00 | 1 | 1 unit | 101 | 0.200 | |
| | | | 230 | ▶ | 3RH11 22-2AP00 | 1 | 1 unit | 101 | 0.199 | |

With permanently mounted auxiliary switch block

| | | | | | | | | | | |
|---|------|---|---|-----|---|----------------|---|--------|-----|-------|
| 6 | 44 E | 4 | 4 | 230 | B | 3RH12 44-2AP00 | 1 | 1 unit | 101 | 0.253 |
| | 62 E | 6 | 2 | 230 | B | 3RH12 62-2AP00 | 1 | 1 unit | 101 | 0.254 |

DC operation · DC solenoid system

| | | | | DC | | | | | | |
|------|------|---|-----|-----|----------------|----------------|--------|--------|-------|-------|
| 6 | 40 E | 4 | -- | 24 | ▶ | 3RH11 40-2BB40 | 1 | 1 unit | 101 | 0.260 |
| | | | | 220 | B | 3RH11 40-2BM40 | 1 | 1 unit | 101 | 0.257 |
| | | | | 24 | ▶ | 3RH11 31-2BB40 | 1 | 1 unit | 101 | 0.259 |
| 31 E | 3 | 1 | 220 | B | 3RH11 31-2BM40 | 1 | 1 unit | 101 | 0.254 | |
| | | | 24 | ▶ | 3RH11 22-2BB40 | 1 | 1 unit | 101 | 0.261 | |
| 22 E | 2 | 2 | 220 | B | 3RH11 22-2BM40 | 1 | 1 unit | 101 | 0.255 | |

With permanently mounted auxiliary switch block

| | | | | | | | | | | |
|---|------|---|---|----|---|----------------|---|--------|-----|-------|
| 6 | 44 E | 4 | 4 | 24 | A | 3RH12 44-2BB40 | 1 | 1 unit | 101 | 0.311 |
| | 62 E | 6 | 2 | 24 | A | 3RH12 62-2BB40 | 1 | 1 unit | 101 | 0.314 |

For other voltages, see page 3/81.

For accessories, see page 3/110 and 3/113.

For multi-unit packing and reusable packaging, see Appendix -> Ordering Notes.

1) Coil operating range
at 50 Hz: 0.8 to 1.1 x U_s
at 60 Hz: 0.85 to 1.1 x U_s .

* You can order this quantity or a multiple thereof.

3RH, 3TH Contactor Relays

3RH14 latched contactor relays, 4-pole

Overview

AC and DC operation

IEC 60947, EN 60947 (VDE 0660)

The terminal designations comply with EN 50011.

The contactor coil and the coil of the release solenoid are both designed for continuous duty.

The number of auxiliary contacts can be extended by means of auxiliary switch blocks (up to 4 poles).

RC elements, varistors, diodes or diode assemblies can be fitted to both coils from the front for damping opening surges in the coil.

The contactor relay can also be switched on and released manually. (For minimum actuating times, see Technical Specifications).

Selection and ordering data



3RH14 22-1BB40

| Rated operational current I_n /AC-15/AC-14 at 230 V | Contacts | Rated control supply voltage U_s | DT | Order No. | Price per PU | PU (UNIT, SET, M) | PS* | PG | Weight per PU approx. |
|--|-----------------------------|---------------------------------------|----|-----------|--------------|-------------------|-----|----|-----------------------|
| | Ident. No. acc. to EN 50011 | Version | | | | | | | |
| | NO | NC | V | | | | | | kg |

With screw terminals · for screw and snap-on mounting onto 35 mm standard mounting rail

AC operation

| 6 | 40 E | 4 | -- | AC 50/60 Hz ¹⁾ | | DT | Order No. | PU | PS* | PG | Weight per PU approx. |
|---|------|---|----|---------------------------|----|----|-----------------------|----|--------|-----|-----------------------|
| | | | | U_s | DT | | | | | | |
| | | | | 24 | B | | 3RH14 40-1AB00 | 1 | 1 unit | 101 | 0.385 |
| | | | | 42 | B | | 3RH14 40-1AD00 | 1 | 1 unit | 101 | 0.380 |
| | | | | 110 | B | | 3RH14 40-1AF00 | 1 | 1 unit | 101 | 0.385 |
| | | | | 230 | A | | 3RH14 40-1AP00 | 1 | 1 unit | 101 | 0.384 |
| | 31 E | 3 | 1 | 24 | B | | 3RH14 31-1AB00 | 1 | 1 unit | 101 | 0.385 |
| | | | | 42 | B | | 3RH14 31-1AD00 | 1 | 1 unit | 101 | 0.386 |
| | | | | 110 | B | | 3RH14 31-1AF00 | 1 | 1 unit | 101 | 0.385 |
| | | | | 230 | B | | 3RH14 31-1AP00 | 1 | 1 unit | 101 | 0.386 |
| | 22 E | 2 | 2 | 24 | B | | 3RH14 22-1AB00 | 1 | 1 unit | 101 | 0.389 |
| | | | | 42 | B | | 3RH14 22-1AD00 | 1 | 1 unit | 101 | 0.388 |
| | | | | 110 | B | | 3RH14 22-1AF00 | 1 | 1 unit | 101 | 0.387 |
| | | | | 230 | ▶ | | 3RH14 22-1AP00 | 1 | 1 unit | 101 | 0.389 |

DC operation · DC solenoid system

| 6 | 40 E | 4 | -- | DC | | DT | Order No. | PU | PS* | PG | Weight per PU approx. |
|---|------|---|----|-------|----|----|-----------------------|----|--------|-----|-----------------------|
| | | | | U_s | DT | | | | | | |
| | | | | 24 | ▶ | | 3RH14 40-1BB40 | 1 | 1 unit | 101 | 0.509 |
| | | | | 110 | B | | 3RH14 40-1BF40 | 1 | 1 unit | 101 | 0.504 |
| | | | | 220 | B | | 3RH14 40-1BM40 | 1 | 1 unit | 101 | 0.502 |
| | 31 E | 3 | 1 | 24 | B | | 3RH14 31-1BB40 | 1 | 1 unit | 101 | 0.504 |
| | | | | 110 | B | | 3RH14 31-1BF40 | 1 | 1 unit | 101 | 0.510 |
| | | | | 220 | B | | 3RH14 31-1BM40 | 1 | 1 unit | 101 | 0.494 |
| | 22 E | 2 | 2 | 24 | ▶ | | 3RH14 22-1BB40 | 1 | 1 unit | 101 | 0.504 |
| | | | | 110 | B | | 3RH14 22-1BF40 | 1 | 1 unit | 101 | 0.505 |
| | | | | 220 | B | | 3RH14 22-1BM40 | 1 | 1 unit | 101 | 0.510 |

For accessories, see page 3/110 and 3/113.

1) Coil operating range
at 50 Hz: 0.8 to 1.1 x U_s
at 60 Hz: 0.85 to 1.1 x U_s .

* You can order this quantity or a multiple thereof.

3RH, 3TH Contactor Relays

3TH4 contactor relays, 8- and 10-pole

Overview

AC and DC operation

IEC 60947 and EN 60947 (VDE 0660)

The 3TH42/3TH43 contactor relays are suitable for use in any climate. They are finger-safe according to EN 50274.

Terminal designations according to EN 50011

In terms of their terminal designations, identification numbers and identification letters, the 3TH42/3TH43 contactor relays conform to the standard EN 50011 for "Specific Contactor Relays".

Selection and ordering data



3TH42 ...0...

| Contacts | Rated operational current I_e /AC-15/AC-14 at | Contacts | DT | Order No. | Price per PU | PU (UNIT, SET, M) | PS* | PG | Weight per PU approx. | | |
|----------|---|---------------|-------|---------------|-----------------------------------|-------------------------|-----|----|-----------------------------|----|----|
| Number | A | A | A | A | Ident. No. acc. to EN 50011 | Version | NO | NC | NO | NC | kg |
| | 230/ 220 V | 400/ 380 V | 500 V | 690/ 660 V | | | | | | | |

With screw terminals · for screw and snap-on mounting onto 35 mm standard mounting rail

AC operation, rated control supply voltage $U_s = AC 50 \text{ Hz } 230/220 \text{ V}^{1)}$

| | | | | | | | | | | | | | | | |
|---|----|---|---|---|---------|---|----|----|----|---|---------------|---|--------|-----|-------|
| 8 | 10 | 6 | 4 | 2 | 80 E | 8 | -- | -- | -- | B | 3TH42 80-0AP0 | 1 | 1 unit | 101 | 0.422 |
| | | | | | 71 E | 7 | 1 | -- | -- | B | 3TH42 71-0AP0 | 1 | 1 unit | 101 | 0.420 |
| | | | | | 62 E | 6 | 2 | -- | -- | B | 3TH42 62-0AP0 | 1 | 1 unit | 101 | 0.420 |
| | | | | | 53 E | 5 | 3 | -- | -- | C | 3TH42 53-0AP0 | 1 | 1 unit | 101 | 0.420 |
| | | | | | 44 E | 4 | 4 | -- | -- | B | 3TH42 44-0AP0 | 1 | 1 unit | 101 | 0.419 |
| | | | | | 44 E, U | 3 | 3 | 1 | 1 | B | 3TH42 93-0AP0 | 1 | 1 unit | 101 | 0.425 |

DC operation · DC solenoid system, rated control supply voltage $U_s = 24 \text{ V DC}$

| | | | | | | | | | | | | | | | |
|---|----|---|---|---|---------|---|----|----|----|---|---------------|---|--------|-----|-------|
| 8 | 10 | 6 | 4 | 2 | 80 E | 8 | -- | -- | -- | B | 3TH42 80-0BB4 | 1 | 1 unit | 101 | 0.664 |
| | | | | | 71 E | 7 | 1 | -- | -- | B | 3TH42 71-0BB4 | 1 | 1 unit | 101 | 0.663 |
| | | | | | 62 E | 6 | 2 | -- | -- | B | 3TH42 62-0BB4 | 1 | 1 unit | 101 | 0.673 |
| | | | | | 53 E | 5 | 3 | -- | -- | B | 3TH42 53-0BB4 | 1 | 1 unit | 101 | 0.662 |
| | | | | | 44 E | 4 | 4 | -- | -- | B | 3TH42 44-0BB4 | 1 | 1 unit | 101 | 0.660 |
| | | | | | 44 E, U | 3 | 3 | 1 | 1 | B | 3TH42 93-0BB4 | 1 | 1 unit | 101 | 0.667 |

For accessories, see page 3/139.

Spare parts

Magnetic coils:

AC operation: 3TY7 403-0A.

DC operation: 3TY4 803-0B.

(voltages on request)

Contacts:

The contacts cannot be replaced on 3TH42 contactor relays.

1) Operating range at 220 V: 0.85 to 1.1 x U_s ;
lower operating range limit according to IEC 60947.

* You can order this quantity or a multiple thereof.

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3/83

3RH, 3TH Contactor Relays

3TH4 contactor relays, 8- and 10-pole



3TH43 ...0A..

3TH43 ...0B..

| Contacts | Rated operational current I_e /AC-15/AC-14 at | Contacts | DT | Order No. | Price per PU | PU (UNIT, SET, M) | PS* | PG | Weight per PU approx. |
|----------|---|-----------------------------------|-------------|-----------|-----------------|-------------------------|-----|----|-----------------------------|
| | 230 V 400 V 500 V 690 V | Ident. No. acc. to EN 50011 | Version | | | | | | |
| Number | A A A A | | NO NC NO NC | | | | | | kg |

With screw terminals - for screw and snap-on mounting onto 35 mm standard mounting rail

AC operation, rated control supply voltage $U_s = AC 50 \text{ Hz } 230/220 \text{ V}^{1)}$

| 10 | 10 | 6 | 4 | 2 | 100 E | 10 | -- | -- | -- | ▶ | 3TH43 10-0AP0 | 1 | 1 unit | 101 | 0.465 |
|----|----|---|---|---|--------|----|----|----|----|---|---------------|---|--------|-----|-------|
| | | | | | 91 E | 9 | 1 | -- | -- | ▶ | 3TH43 91-0AP0 | 1 | 1 unit | 101 | 0.465 |
| | | | | | 82 E | 8 | 2 | -- | -- | ▶ | 3TH43 82-0AP0 | 1 | 1 unit | 101 | 0.465 |
| | | | | | 73 E | 7 | 3 | -- | -- | ▶ | 3TH43 73-0AP0 | 1 | 1 unit | 101 | 0.463 |
| | | | | | 73 E,U | 6 | 2 | 1 | 1 | ▶ | 3TH43 46-0AP0 | 1 | 1 unit | 101 | 0.466 |
| | | | | | 64 E | 6 | 4 | -- | -- | ▶ | 3TH43 64-0AP0 | 1 | 1 unit | 101 | 0.462 |
| | | | | | 55 E | 5 | 5 | -- | -- | ▶ | 3TH43 55-0AP0 | 1 | 1 unit | 101 | 0.463 |
| | | | | | 55 E,U | 4 | 4 | 1 | 1 | ▶ | 3TH43 94-0AP0 | 1 | 1 unit | 101 | 0.465 |

DC operation - DC solenoid system, rated control supply voltage $U_s = 24 \text{ V DC}$

| 10 | 10 | 6 | 4 | 2 | 100 E | 10 | -- | -- | -- | ▶ | 3TH43 10-0BB4 | 1 | 1 unit | 101 | 0.710 |
|----|----|---|---|---|--------|----|----|----|----|---|---------------|---|--------|-----|-------|
| | | | | | 91 E | 9 | 1 | -- | -- | ▶ | 3TH43 91-0BB4 | 1 | 1 unit | 101 | 0.707 |
| | | | | | 82 E | 8 | 2 | -- | -- | ▶ | 3TH43 82-0BB4 | 1 | 1 unit | 101 | 0.705 |
| | | | | | 73 E | 7 | 3 | -- | -- | ▶ | 3TH43 73-0BB4 | 1 | 1 unit | 101 | 0.697 |
| | | | | | 73 E U | 6 | 2 | 1 | 1 | ▶ | 3TH43 46-0BB4 | 1 | 1 unit | 101 | 0.706 |
| | | | | | 64 E | 6 | 4 | -- | -- | ▶ | 3TH43 64-0BB4 | 1 | 1 unit | 101 | 0.708 |
| | | | | | 55 E | 5 | 5 | -- | -- | ▶ | 3TH43 55-0BB4 | 1 | 1 unit | 101 | 0.705 |
| | | | | | 55 E U | 4 | 4 | 1 | 1 | ▶ | 3TH43 94-0BB4 | 1 | 1 unit | 101 | 0.707 |

For accessories, see page 3/139.

1) Operating range at 220 V: 0.85 to 1.1 x U_s ;
lower operating range limit according to IEC 60947.

Spare parts
Magnetic coils:
AC operation: 3TY7 403-0A,
DC operation: 3TY4 803-0B.
Contacts:
The contacts cannot be replaced on 3TH43 contactor relays.

| Contactor | Type | 3TH42/3TH43 | |
|---|---------------------------|------------------------------------|------------------------------------|
| Rated control supply voltages (the 10th and 11th position of the order number must be changed) | | | |
| AC operation | | DC operation | |
| Coils for AC 50 Hz | | Coils for AC 50 and 60 Hz | |
| Rated control supply voltage U_s | Control supply voltage at | Rated control supply voltage U_s | Rated control supply voltage U_s |
| V AC 50 Hz | V AC 60 Hz | V AC 50/60 Hz | V DC |
| Option | Option | Option | Option |
| 24 | 29 | 24 | 12 |
| 36 | 42 | 42 | 24 |
| 42 | 50 | 110 | 30 |
| 48 | 58 | 115 | 36 |
| 60 | 72 | 120 | 42 |
| 110 | 132 | 220 | 48 |
| 125/127 | 150/152 | 230 | 60 |
| 230/220 | 276 | 240 | 110 |
| 240 | 288 | 440 | 125 |
| 400/380 | 480/460 | | 220 |
| 415 | 500 | | 230 |
| 500 | 600 | | 240 |
| For Japan | | | |
| 100 | 100-110 | | |
| 200 | 200-220 | | |
| For USA and Canada | | | |
| 110 | 120 | | |
| 220 | 240 | | |

1) Operating range at 220 V or 380 V: 0.85 to 1.1 x U_s .
2) Operating range at 60 Hz: 0.85 to 1.1 x U_s .

* You can order this quantity or a multiple thereof.

3RH, 3TH Contactor Relays

3TH2 contactor relays, 4- and 8-pole

Overview

AC and DC operation

IEC 60947 (VDE 0660).

The terminal designations comply with EN 50011.

3TH2 contactor relays

The 3TH2 contactor relays are suitable for use in any climate.

The contactor relays with screw terminals are finger-safe according to EN 50274.

3TH27 latched auxiliary contactors

The contactor coil and the coil of the release solenoid are both designed for continuous duty.

RC elements, varistors, diodes or diode assemblies can be fitted to both coils from the front for damping opening surges in the coil.

The contactor relay can also be switched on and released manually.

3RH, 3TH Contactor Relays

3TH2 contactor relays, 4- and 8-pole

Selection and ordering data

| Contacts | Rated operational current I_e /AC-15/AC-14 at | Contacts | DT | Order No. | Price per PU | PU (UNIT, SET, M) | PS* | PG | Weight per PU approx. |
|----------|---|---|----|-----------|-----------------|-------------------------|-----|----|-----------------------------|
| | 230/ 400/ 500 V 690/ 220 V 380 V 660 V | Ident. No. Version acc. to EN 50011 | | | | | | | |
| Number | A A A A | NO NC | | | | | | | kg |

Contactor relays with screw terminals for screw and snap-on mounting onto 35 mm standard mounting rail



AC operation

| | | | | | | | | | | | | | |
|---|---|---|---|---|------|---|----|---|---------------|---|--------|-----|-------|
| 4 | 4 | 3 | 2 | 1 | 40 E | 4 | -- | A | 3TH20 40-0AP0 | 1 | 1 unit | 101 | 0.194 |
| | | | | | 31 E | 3 | 1 | A | 3TH20 31-0AP0 | 1 | 1 unit | 101 | 0.193 |
| | | | | | 22 E | 2 | 2 | A | 3TH20 22-0AP0 | 1 | 1 unit | 101 | 0.193 |

DC operation - DC solenoid system

| | | | | | | | | | | | | | |
|---|---|---|---|---|------|---|----|---|---------------|---|--------|-----|-------|
| 4 | 4 | 3 | 2 | 1 | 40 E | 4 | -- | A | 3TH20 40-0BB4 | 1 | 1 unit | 101 | 0.214 |
| | | | | | 31 E | 3 | 1 | A | 3TH20 31-0BB4 | 1 | 1 unit | 101 | 0.215 |
| | | | | | 22 E | 2 | 2 | A | 3TH20 22-0BB4 | 1 | 1 unit | 101 | 0.216 |

3TH20 ...0A..

Contactor relays with 6.3 mm x 0.8 mm flat connectors



AC operation

For screw and snap-on mounting onto 35 mm standard mounting rail

| | | | | | | | | | | | | | |
|---|---|---|---|----|------|---|----|---|---------------|---|--------|-----|-------|
| 4 | 4 | 3 | 2 | -- | 40 E | 4 | -- | B | 3TH20 40-3AP0 | 1 | 1 unit | 101 | 0.166 |
| | | | | | 31 E | 3 | 1 | B | 3TH20 31-3AP0 | 1 | 1 unit | 101 | 0.164 |
| | | | | | 22 E | 2 | 2 | B | 3TH20 22-3AP0 | 1 | 1 unit | 101 | 0.165 |

for screw mounting (diagonal)

| | | | | | | | | | | | | | |
|---|---|---|---|----|------|---|----|---|---------------|---|--------|-----|-------|
| 4 | 4 | 3 | 2 | -- | 40 E | 4 | -- | C | 3TH20 40-7AP0 | 1 | 1 unit | 101 | 0.161 |
| | | | | | 31 E | 3 | 1 | B | 3TH20 31-7AP0 | 1 | 1 unit | 101 | 0.162 |
| | | | | | 22 E | 2 | 2 | B | 3TH20 22-7AP0 | 1 | 1 unit | 101 | 0.162 |

3TH20 ...-3...

DC operation - DC solenoid system

For screw and snap-on mounting onto 35 mm standard mounting rail

| | | | | | | | | | | | | | |
|---|---|---|---|----|------|---|----|---|---------------|---|--------|-----|-------|
| 4 | 4 | 3 | 2 | -- | 40 E | 4 | -- | B | 3TH20 40-3BB4 | 1 | 1 unit | 101 | 0.187 |
| | | | | | 31 E | 3 | 1 | B | 3TH20 31-3BB4 | 1 | 1 unit | 101 | 0.185 |
| | | | | | 22 E | 2 | 2 | B | 3TH20 22-3BB4 | 1 | 1 unit | 101 | 0.185 |

for screw mounting (diagonal)

| | | | | | | | | | | | | | |
|---|---|---|---|----|------|---|----|---|---------------|---|--------|-----|-------|
| 4 | 4 | 3 | 2 | -- | 40 E | 4 | -- | C | 3TH20 40-7BB4 | 1 | 1 unit | 101 | 0.183 |
| | | | | | 31 E | 3 | 1 | B | 3TH20 31-7BB4 | 1 | 1 unit | 101 | 0.183 |
| | | | | | 22 E | 2 | 2 | B | 3TH20 31-7BB4 | 1 | 1 unit | 101 | 0.183 |

3TH20 ...-7...

Contactor relays with solder pin connectors for printed circuit boards



AC operation

For screw mounting (diagonal)

| | | | | | | | | | | | | | |
|---|---|---|---|----|------|---|----|---|---------------|---|--------|-----|-------|
| 4 | 4 | 3 | 2 | -- | 40 E | 4 | -- | C | 3TH20 40-6AP0 | 1 | 1 unit | 101 | 0.162 |
| | | | | | 31 E | 3 | 1 | B | 3TH20 31-6AP0 | 1 | 1 unit | 101 | 0.162 |
| | | | | | 22 E | 2 | 2 | C | 3TH20 22-6AP0 | 1 | 1 unit | 101 | 0.162 |

DC operation - DC solenoid system

For screw mounting (diagonal)

| | | | | | | | | | | | | | |
|---|---|---|---|----|------|---|----|---|---------------|---|--------|-----|-------|
| 4 | 4 | 3 | 2 | -- | 40 E | 4 | -- | C | 3TH20 40-6BB4 | 1 | 1 unit | 101 | 0.184 |
| | | | | | 31 E | 3 | 1 | B | 3TH20 31-6BB4 | 1 | 1 unit | 101 | 0.185 |
| | | | | | 22 E | 2 | 2 | B | 3TH20 22-6BB4 | 1 | 1 unit | 101 | 0.187 |

3TH20...-6...

Contactor relays with permanently mounted auxiliary switch blocks with screw terminals, width 45 mm for screw and snap-on mounting onto 35 mm standard mounting rail



AC operation

| | | | | | | | | | | | | | |
|---|---|---|---|----|------|---|---|---|---------------|---|--------|-----|-------|
| 8 | 4 | 3 | 2 | -- | 80 E | 8 | 0 | C | 3TH22 80-0AP0 | 1 | 1 unit | 101 | 0.234 |
| | | | | | 71 E | 7 | 1 | C | 3TH22 71-0AP0 | 1 | 1 unit | 101 | 0.233 |
| | | | | | 62 E | 6 | 2 | C | 3TH22 62-0AP0 | 1 | 1 unit | 101 | 0.235 |
| | | | | | 53 E | 5 | 3 | C | 3TH22 53-0AP0 | 1 | 1 unit | 101 | 0.234 |
| | | | | | 44 E | 4 | 4 | C | 3TH22 44-0AP0 | 1 | 1 unit | 101 | 0.234 |

DC operation - DC solenoid system

| | | | | | | | | | | | | | |
|---|---|---|---|----|------|---|---|---|---------------|---|--------|-----|-------|
| 8 | 4 | 3 | 2 | -- | 80 E | 8 | 0 | C | 3TH22 80-0BB4 | 1 | 1 unit | 101 | 0.255 |
| | | | | | 71 E | 7 | 1 | C | 3TH22 71-0BB4 | 1 | 1 unit | 101 | 0.256 |
| | | | | | 62 E | 6 | 2 | C | 3TH22 62-0BB4 | 1 | 1 unit | 101 | 0.258 |
| | | | | | 53 E | 5 | 3 | C | 3TH22 53-0BB4 | 1 | 1 unit | 101 | 0.255 |
| | | | | | 44 E | 4 | 4 | C | 3TH22 44-0BB4 | 1 | 1 unit | 101 | 0.257 |

3TH22...-0A..

For accessories, see page 3/140.

* You can order this quantity or a multiple thereof.

3RH, 3TH Contactor Relays

3TH2 contactor relays, 4- and 8-pole

| Contacts | Rated operational current I_e /AC-15/AC-14 at | Contacts | DT | Order No. | Price per PU | PU (UNIT, SET, M) | PS* | PG | Weight per PU approx. |
|----------|---|---|-------|-----------|-----------------|-------------------------|-----|----|-----------------------------|
| | 230/ 400/ 500 V 690/ 220 V 380 V 660 V | Ident. No. Version acc. to EN 50011 | | | | | | | |
| Number | A A A A | | NO NC | | | | | | kg |

Latched contactor relays with screw terminals -
for screw and snap-on mounting onto 35 mm standard mounting rail



AC operation

| | | | | | | | | | | | | | |
|---|---|---|---|---|------|---|----|---|---------------|---|--------|-----|-------|
| 4 | 4 | 3 | 2 | 1 | 40 E | 4 | -- | C | 3TH27 40-0AP0 | 1 | 1 unit | 101 | 0.350 |
| | | | | | 31 E | 3 | 1 | B | 3TH27 31-0AP0 | 1 | 1 unit | 101 | 0.350 |
| | | | | | 22 E | 2 | 2 | B | 3TH27 22-0AP0 | 1 | 1 unit | 101 | 0.345 |

DC operation - DC solenoid system

| | | | | | | | | | | | | | | |
|-------|---|---|---|---|---|------|---|----|---|---------------|---|--------|-----|-------|
| 3TH27 | 4 | 4 | 3 | 2 | 1 | 40 E | 4 | -- | B | 3TH27 40-0BB4 | 1 | 1 unit | 101 | 0.396 |
| | | | | | | 31 E | 3 | 1 | B | 3TH27 31-0BB4 | 1 | 1 unit | 101 | 0.401 |
| | | | | | | 22 E | 2 | 2 | B | 3TH27 22-0BB4 | 1 | 1 unit | 101 | 0.399 |

For accessories, see page 3/140.

| Contactor | Type | 3TH20 ...0... |
|--|-------|------------------|
| Rated control supply voltages (the 10th and 11th position of the order number must be changed) | | |
| AC operation | | |
| Coils for AC 50 and 60 Hz Rated control supply voltage U_s | | |
| Coils for AC 50 Hz | | |
| 50 Hz | 60 Hz | |
| V AC | V AC | |
| 24 | 29 | B0 |
| 110 | 132 | F0 |
| 230/220 | 276 | P0 ¹⁾ |
| DC operation | | |
| Rated control supply voltage U_s | | |
| V DC | | |
| 24 | | B4 |
| 110 | | F4 |
| 220 | | M4 |

| Contactor | Type | 3TH20 ...3..., 3TH20 ...6..., 3TH20 ...7..., 3TH22, 3TH27 |
|--|-------|--|
| Rated control supply voltages (the 10th and 11th position of the order number must be changed) | | |
| AC operation | | |
| Coils for AC 50 and 60 Hz Rated control supply voltage U_s | | |
| Coils for AC 50 Hz | | |
| 50 Hz | 60 Hz | |
| V AC | V AC | |
| 230/220 | 276 | P0 ¹⁾ |
| DC operation | | |
| Rated control supply voltage U_s | | |
| V DC | | |
| 24 | | B4 |

1) Operating range at 220 V or 380 V:
0.85 to 1.15 x U_s ; lower operating range limit according to IEC 60947.

Please inquire about further voltages.

* You can order this quantity or a multiple thereof.

3RH, 3TH Contactor Relays

3RH11 coupling relays for switching auxiliary circuits, 4-pole

Application

DC operation

IEC 60947 and EN 60947 (VDE 0660)

The 3RH11 coupling relays for switching auxiliary circuits are tailored to the special requirements of working with electronic controls.

The 3RH11 coupling relays cannot be extended with auxiliary switch blocks.

Selection and ordering data

DC operation

Screw terminals

Low power consumption

Extended operating range of the coils

Integrated coil circuit



3RH11 ...-1.B40

| Surge suppressors | Rated operational current I_{eN} /AC-15/AC-14 at 230 V | Auxiliary contacts | DT | Screw terminals | PU (UNIT, SET, M) | PS* | PG | Weight per PU approx. |
|-------------------|--|-----------------------------|-----------|-----------------|-------------------|-----|----|-----------------------|
| | | Ident. No. acc. to EN 50011 | Version | Order No. | Price per PU | | | kg |
| | A | | NO NC | | | | | |

For screw and snap-on mounting onto 35 mm standard mounting rail

• Size S00

Terminal designations according to EN 50011

Rated control supply voltage $U_s = 24$ V DC, coil operating range **0.7 to 1.25 x U_s**

Power consumption of the coils **2.3 W** at 24 V (no auxiliary switch blocks can be mounted)

| | | | | | | | | | | |
|--|----------|-------------|---|----|---|-----------------------|---|--------|-----|-------|
| Diode, varistor or RC element attachable | 6 | 40 E | 4 | -- | ▶ | 3RH11 40-1HB40 | 1 | 1 unit | 101 | 0.258 |
| | | 31 E | 3 | 1 | ▶ | 3RH11 31-1HB40 | 1 | 1 unit | 101 | 0.258 |
| | | 22 E | 2 | 2 | ▶ | 3RH11 22-1HB40 | 1 | 1 unit | 101 | 0.259 |
| Built-in diode | 6 | 40 E | 4 | -- | ▶ | 3RH11 40-1JB40 | 1 | 1 unit | 101 | 0.258 |
| | | 31 E | 3 | 1 | ▶ | 3RH11 31-1JB40 | 1 | 1 unit | 101 | 0.259 |
| | | 22 E | 2 | 2 | ▶ | 3RH11 22-1JB40 | 1 | 1 unit | 101 | 0.260 |
| Built-in varistor | 6 | 40 E | 4 | -- | ▶ | 3RH11 40-1KB40 | 1 | 1 unit | 101 | 0.259 |
| | | 31 E | 3 | 1 | ▶ | 3RH11 31-1KB40 | 1 | 1 unit | 101 | 0.259 |
| | | 22 E | 2 | 2 | ▶ | 3RH11 22-1KB40 | 1 | 1 unit | 101 | 0.259 |

Rated control supply voltage $U_s = 24$ V DC, coil operating range **0.85 to 1.85 x U_s**

Power consumption of the coils **1.4 W** at 24 V (no auxiliary switch blocks can be mounted)

| | | | | | | | | | | |
|--|----------|-------------|---|----|---|----------------------------|---|--------|-----|-------|
| Diode, varistor or RC element attachable | 6 | 40 E | 4 | -- | B | 3RH11 40-1MB40-0KTO | 1 | 1 unit | 101 | 0.259 |
| | | 31 E | 3 | 1 | B | 3RH11 31-1MB40-0KTO | 1 | 1 unit | 101 | 0.259 |
| | | 22 E | 2 | 2 | A | 3RH11 22-1MB40-0KTO | 1 | 1 unit | 101 | 0.262 |
| Built-in diode | 6 | 40 E | 4 | -- | B | 3RH11 40-1VB40 | 1 | 1 unit | 101 | 0.260 |
| | | 31 E | 3 | 1 | A | 3RH11 31-1VB40 | 1 | 1 unit | 101 | 0.260 |
| | | 22 E | 2 | 2 | B | 3RH11 22-1VB40 | 1 | 1 unit | 101 | 0.261 |
| Built-in varistor | 6 | 40 E | 4 | -- | B | 3RH11 40-1WB40 | 1 | 1 unit | 101 | 0.260 |
| | | 31 E | 3 | 1 | A | 3RH11 31-1WB40 | 1 | 1 unit | 101 | 0.260 |
| | | 22 E | 2 | 2 | A | 3RH11 22-1WB40 | 1 | 1 unit | 101 | 0.261 |

For accessories, see page 3/110 and 3/113.

* You can order this quantity or a multiple thereof.

3RH, 3TH Contactor Relays

3RH11 coupling relays for switching auxiliary circuits, 4-pole

DC operation
Cage Clamp terminals
Low power consumption
Extended operating range of the coils
Integrated coil circuit



3RH11 ...2.B40

| Surge suppressors | Rated operational current I_{th} / AC-15/AC-14 at 230 V | Auxiliary contacts | DT | Cage Clamp terminals | PU (UNIT, SET, M) | PS* | PG | Weight per PU approx. |
|-------------------|--|-----------------------------|------------------|------------------------|-------------------|-----|----|-----------------------|
| | A | Ident. No. acc. to EN 50011 | Version NO NC | Order No. Price per PU | | | | kg |

For screw and snap-on mounting onto 35 mm standard mounting rail

• Size S00

Terminal designations according to EN 50011

Rated control supply voltage $U_s = 24$ V DC, coil operating range **0.7 to 1.25 x U_s**

Power consumption of the coils **2.3 W** at 24 V (no auxiliary switch blocks can be mounted)

| | | | | | | | | | | |
|--|----------|-------------|---|----|---|-----------------------|---|--------|-----|-------|
| Diode, varistor or RC element attachable | 6 | 40 E | 4 | -- | B | 3RH11 40-2HB40 | 1 | 1 unit | 101 | 0.254 |
| | | 31 E | 3 | 1 | B | 3RH11 31-2HB40 | 1 | 1 unit | 101 | 0.253 |
| | | 22 E | 2 | 2 | ▶ | 3RH11 22-2HB40 | 1 | 1 unit | 101 | 0.255 |
| Built-in diode | 6 | 40 E | 4 | -- | B | 3RH11 40-2JB40 | 1 | 1 unit | 101 | 0.256 |
| | | 31 E | 3 | 1 | B | 3RH11 31-2JB40 | 1 | 1 unit | 101 | 0.256 |
| | | 22 E | 2 | 2 | ▶ | 3RH11 22-2JB40 | 1 | 1 unit | 101 | 0.255 |
| Built-in varistor | 6 | 40 E | 4 | -- | ▶ | 3RH11 40-2KB40 | 1 | 1 unit | 101 | 0.256 |
| | | 31 E | 3 | 1 | ▶ | 3RH11 31-2KB40 | 1 | 1 unit | 101 | 0.254 |
| | | 22 E | 2 | 2 | ▶ | 3RH11 22-2KB40 | 1 | 1 unit | 101 | 0.255 |

Rated control supply voltage $U_s = 24$ V DC, coil operating range **0.85 to 1.85 x U_s**

Power consumption of the coils **1.4 W** at 24 V (no auxiliary switch blocks can be mounted)

| | | | | | | | | | | |
|--|----------|-------------|---|----|---|----------------------------|---|--------|-----|-------|
| Diode, varistor or RC element attachable | 6 | 40 E | 4 | -- | B | 3RH11 40-2MB40-0KTO | 1 | 1 unit | 101 | 0.255 |
| | | 31 E | 3 | 1 | B | 3RH11 31-2MB40-0KTO | 1 | 1 unit | 101 | 0.255 |
| | | 22 E | 2 | 2 | B | 3RH11 22-2MB40-0KTO | 1 | 1 unit | 101 | 0.256 |
| Built-in diode | 6 | 40 E | 4 | -- | B | 3RH11 40-2VB40 | 1 | 1 unit | 101 | 0.256 |
| | | 31 E | 3 | 1 | B | 3RH11 31-2VB40 | 1 | 1 unit | 101 | 0.256 |
| | | 22 E | 2 | 2 | B | 3RH11 22-2VB40 | 1 | 1 unit | 101 | 0.256 |
| Built-in varistor | 6 | 40 E | 4 | -- | B | 3RH11 40-2WB40 | 1 | 1 unit | 101 | 0.255 |
| | | 31 E | 3 | 1 | B | 3RH11 31-2WB40 | 1 | 1 unit | 101 | 0.256 |
| | | 22 E | 2 | 2 | B | 3RH11 22-2WB40 | 1 | 1 unit | 101 | 0.255 |

For accessories, see page 3/110 and 3/113.

* You can order this quantity or a multiple thereof.

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3RT Coupling Relays

3RT10 coupling relays (interface), for switching motors, 3-pole, 3 ... 11 kW

Application

DC operation

IEC 60947, EN 60947 (VDE 0660)

The 3RT10 coupling relays for switching motors are tailored to the special requirements of working with electronic controls.

The 3RT10 1 coupling relays cannot be extended with auxiliary switch blocks.

Two single-pole auxiliary switch blocks can be fitted to the 3RT10 2 coupling relays.

Selection and ordering data

DC operation

Screw terminals

Low power consumption

Extended operating range of the coils

Integrated coil circuit

| Surge suppressors | Rated data AC-2 and AC-3, T_u : up to 60 °C | Auxiliary contacts | DT | Screw terminals | | PU (UNIT, SET, M) | PS* | PG | Weight per PU approx. |
|-------------------|---|---|------------|------------------|---------------------------|-------------------------|-----|----|-----------------------------|
| | Operational current I_e up to 400 V A | Rating of induction motors at 50 Hz and 400 V kW | Ident. No. | Version NO NC | Order No. Price per PU | | | | kg |

For screw and snap-on mounting onto 35 mm standard mounting rail

Size S00

Terminal designations according to EN 50012

Rated control supply voltage $U_s = 24$ V DC, coil operating range **0.7 to 1.25 x U_s**

Power consumption of the coils **2.3 W** at 24 V (no auxiliary switch blocks can be mounted)



3RT10 1.-1HB4.

| | | | | | | | | | | | |
|---|----|-----|----------|---------|---------|--------|--|--------|------------------|------------|----------------|
| Diode, varistor or RC element, attachable | 7 | 3 | 10 01 | 1 -- | -- 1 | ▶ ▶ | 3RT10 15-1HB41 3RT10 15-1HB42 | 1 1 | 1 unit 1 unit | 101 101 | 0.259 0.258 |
| Built-in diode | 7 | 3 | 10 01 | 1 -- | -- 1 | ▶ ▶ | 3RT10 15-1JB41 3RT10 15-1JB42 | 1 1 | 1 unit 1 unit | 101 101 | 0.259 0.261 |
| Built-in varistor | 7 | 3 | 10 01 | 1 -- | -- 1 | ▶ ▶ | 3RT10 15-1KB41 3RT10 15-1KB42 | 1 1 | 1 unit 1 unit | 101 101 | 0.261 0.259 |
| Diode, varistor or RC element, attachable | 9 | 4 | 10 01 | 1 -- | -- 1 | ▶ ▶ | 3RT10 16-1HB41 3RT10 16-1HB42 | 1 1 | 1 unit 1 unit | 101 101 | 0.258 0.260 |
| Built-in diode | 9 | 4 | 10 01 | 1 -- | -- 1 | ▶ ▶ | 3RT10 16-1JB41 3RT10 16-1JB42 | 1 1 | 1 unit 1 unit | 101 101 | 0.261 0.261 |
| Built-in varistor | 9 | 4 | 10 01 | 1 -- | -- 1 | ▶ ▶ | 3RT10 16-1KB41 3RT10 16-1KB42 | 1 1 | 1 unit 1 unit | 101 101 | 0.260 0.260 |
| Diode, varistor or RC element, attachable | 12 | 5.5 | 10 01 | 1 -- | -- 1 | ▶ ▶ | 3RT10 17-1HB41 3RT10 17-1HB42 | 1 1 | 1 unit 1 unit | 101 101 | 0.260 0.260 |
| Built-in diode | 12 | 5.5 | 10 01 | 1 -- | -- 1 | ▶ ▶ | 3RT10 17-1JB41 3RT10 17-1JB42 | 1 1 | 1 unit 1 unit | 101 101 | 0.258 0.258 |
| Built-in varistor | 12 | 5.5 | 10 01 | 1 -- | -- 1 | ▶ ▶ | 3RT10 17-1KB41 3RT10 17-1KB42 | 1 1 | 1 unit 1 unit | 101 101 | 0.261 0.261 |

For accessories, see page 3/119.

3RT Coupling Relays

**3RT10 coupling relays (interface),
for switching motors, 3-pole, 3 ... 11 kW**

DC operation
Cage Clamp terminals
Low power consumption
Extended operating range of the coils
Integrated coil circuit

| Surge suppressors | Rated data AC-2 and AC-3, T_U : up to 60 °C | | Auxiliary contacts | | DT | Cage Clamp terminals | | PU (UNIT, SET, M) | PS* | PG | Weight per PU approx. |
|-------------------|---|---|--------------------|---------|----|----------------------|--------------|-------------------------|-----|----|-----------------------------|
| | Operational current I_e up to 400 V A | Rating of induction motors at 50 Hz and 400 V kW | Ident. No. | Version | | Order No. | Price per PU | | | | |
| | | | NO | NC | | | | | | | kg |

For screw and snap-on mounting onto 35 mm standard mounting rail

Size S00



3RT10 1.-2JB4

Terminal designations according to EN 50012

Rated control supply voltage $U_g = 24$ V DC, coil operating range **0.7 to 1.25 x U_g**

Power consumption of the coils **2.3 W** at 24 V (no auxiliary switch blocks can be mounted)

| | | | | | | | | | | | |
|---|----|------------|----------|---------|---------|--------|--|--------|------------------|------------|----------------|
| Diode, varistor or RC element, attachable | 7 | 3 | 10 01 | -- 1 | 1 -- | ▶ ▶ | 3RT10 15-2HB41 3RT10 15-2HB42 | 1 1 | 1 unit 1 unit | 101 101 | 0.254 0.254 |
| Built-in diode | 7 | 3 | 10 01 | -- 1 | 1 -- | ▶ ▶ | 3RT10 15-2JB41 3RT10 15-2JB42 | 1 1 | 1 unit 1 unit | 101 101 | 0.255 0.255 |
| Built-in varistor | 7 | 3 | 10 01 | -- 1 | 1 -- | ▶ ▶ | 3RT10 15-2KB41 3RT10 15-2KB42 | 1 1 | 1 unit 1 unit | 101 101 | 0.257 0.256 |
| Diode, varistor or RC element, attachable | 9 | 4 | 10 01 | -- 1 | 1 -- | B B | 3RT10 16-2HB41 3RT10 16-2HB42 | 1 1 | 1 unit 1 unit | 101 101 | 0.254 0.256 |
| Built-in diode | 9 | 4 | 10 01 | -- 1 | 1 -- | ▶ ▶ | 3RT10 16-2JB41 3RT10 16-2JB42 | 1 1 | 1 unit 1 unit | 101 101 | 0.256 0.256 |
| Built-in varistor | 9 | 4 | 10 01 | -- 1 | 1 -- | ▶ ▶ | 3RT10 16-2KB41 3RT10 16-2KB42 | 1 1 | 1 unit 1 unit | 101 101 | 0.255 0.255 |
| Diode, varistor or RC element, attachable | 12 | 5.5 | 10 01 | -- 1 | 1 -- | B B | 3RT10 17-2HB41 3RT10 17-2HB42 | 1 1 | 1 unit 1 unit | 101 101 | 0.257 0.253 |
| Built-in diode | 12 | 5.5 | 10 01 | -- 1 | 1 -- | ▶ ▶ | 3RT10 17-2JB41 3RT10 17-2JB42 | 1 1 | 1 unit 1 unit | 101 101 | 0.255 0.256 |
| Built-in varistor | 12 | 5.5 | 10 01 | -- 1 | 1 -- | ▶ ▶ | 3RT10 17-2KB41 3RT10 17-2KB42 | 1 1 | 1 unit 1 unit | 101 101 | 0.256 0.256 |

For accessories, see page 3/119.

* You can order this quantity or a multiple thereof.

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3RT Coupling Relays

**3RT10 coupling relays (interface),
for switching motors, 3-pole, 3 ... 11 kW**

*DC operation
Screw terminals
Low power consumption
Extended operating range of the coils
Integrated coil circuit*

| Surge suppressors | Rated data AC-2 and AC-3, T_U : up to 60 °C | | Auxiliary contacts | | DT | Screw terminals | | PU (UNIT, SET, M) | PS* | PG | Weight per PU approx. |
|-------------------|---|---|--------------------|---------|----|-----------------|--------------|-------------------------|-----|----|-----------------------------|
| | Operational current I_e up to | Rating of induction motors at 50 Hz and | Ident. No. | Version | | Order No. | Price per PU | | | | |
| | 400 V | 400 V | | | | | | | | | kg |
| | A | kW | NO | NC | | | | | | | |

For screw and snap-on mounting onto 35 mm standard mounting rail

Size S00



3RT10 1.-1VB4.

Terminal designations according to DIN 50012

Rated control supply voltage $U_c = 24$ V DC, coil operating range **0.85 to 1.85 x U_c**

Power consumption of the coils **1.4 W** at 24 V (no auxiliary switch blocks can be mounted)

| | | | | | | | | | | | |
|---|----|------------|----------|---------|---------|--------|--|--------|------------------|------------|----------------|
| Diode, varistor or RC element, attachable | 7 | 3 | 10 01 | 1 -- | -- 1 | B B | 3RT10 15-1MB41-0KT0 3RT10 15-1MB42-0KT0 | 1 1 | 1 unit 1 unit | 101 101 | 0.260 0.260 |
| Built-in diode | 7 | 3 | 10 01 | 1 -- | -- 1 | B B | 3RT10 15-1VB41 3RT10 15-1VB42 | 1 1 | 1 unit 1 unit | 101 101 | 0.262 0.260 |
| Built-in varistor | 7 | 3 | 10 01 | 1 -- | -- 1 | A B | 3RT10 15-1WB41 3RT10 15-1WB42 | 1 1 | 1 unit 1 unit | 101 101 | 0.260 0.260 |
| Diode, varistor or RC element, attachable | 9 | 4 | 10 01 | 1 -- | -- 1 | B B | 3RT10 16-1MB41-0KT0 3RT10 16-1MB42-0KT0 | 1 1 | 1 unit 1 unit | 101 101 | 0.261 0.261 |
| Built-in diode | 9 | 4 | 10 01 | 1 -- | -- 1 | B B | 3RT10 16-1VB41 3RT10 16-1VB42 | 1 1 | 1 unit 1 unit | 101 101 | 0.261 0.260 |
| Built-in varistor | 9 | 4 | 10 01 | 1 -- | -- 1 | B B | 3RT10 16-1WB41 3RT10 16-1WB42 | 1 1 | 1 unit 1 unit | 101 101 | 0.260 0.260 |
| Diode, varistor or RC element, attachable | 12 | 5.5 | 10 01 | 1 -- | -- 1 | B B | 3RT10 17-1MB41-0KT0 3RT10 17-1MB42-0KT0 | 1 1 | 1 unit 1 unit | 101 101 | 0.262 0.260 |
| Built-in diode | 12 | 5.5 | 10 01 | 1 -- | -- 1 | B B | 3RT10 17-1VB41 3RT10 17-1VB42 | 1 1 | 1 unit 1 unit | 101 101 | 0.260 0.261 |
| Built-in varistor | 12 | 5.5 | 10 01 | 1 -- | -- 1 | B B | 3RT10 17-1WB41 3RT10 17-1WB42 | 1 1 | 1 unit 1 unit | 101 101 | 0.261 0.260 |

For accessories, see page 3/119.

* You can order this quantity or a multiple thereof.

3RT Coupling Relays

**3RT10 coupling relays (interface),
for switching motors, 3-pole, 3 ... 11 kW**

DC operation
Cage Clamp terminals
Low power consumption
Extended operating range of the coils
Integrated coil circuit

| Surge suppressors | Rated data AC-2 and AC-3, T_U : up to 60 °C | | Auxiliary contacts | | DT | Cage Clamp terminals | | PU (UNIT, SET, M) | PS* | PG | Weight per PU approx. |
|-------------------|---|---|--------------------|---------|----|----------------------|--------------|-------------------|-----|----|-----------------------|
| | Operational current I_e up to 400 V A | Rating of induction motors at 50 Hz and 400 V kW | Ident. No. | Version | | Order No. | Price per PU | | | | |
| | | | NO | NC | | | | | | | kg |

For screw and snap-on mounting onto 35 mm standard mounting rail

Size S00



3RT10 1.-2WB4.

Terminal designations according to DIN 50012

Rated control supply voltage $U_s = 24$ V DC, coil operating range **0.85 to 1.85 x U_s**

Power consumption of the coils **1.4 W** at 24 V (no auxiliary switch blocks can be mounted)

| | | | | | | | | | | | |
|---|----|------------|----------|---------|---------|--------|--|--------|------------------|------------|----------------|
| Diode, varistor or RC element, attachable | 7 | 3 | 10 01 | 1 -- | -- 1 | B B | 3RT10 15-2MB41-0KT0 3RT10 15-2MB42-0KT0 | 1 1 | 1 unit 1 unit | 101 101 | 0.255 0.257 |
| Built-in diode | 7 | 3 | 10 01 | 1 -- | -- 1 | B B | 3RT10 15-2VB41 3RT10 15-2VB42 | 1 1 | 1 unit 1 unit | 101 101 | 0.258 0.257 |
| Built-in varistor | 7 | 3 | 10 01 | 1 -- | -- 1 | B B | 3RT10 15-2WB41 3RT10 15-2WB42 | 1 1 | 1 unit 1 unit | 101 101 | 0.257 0.258 |
| Diode, varistor or RC element, attachable | 9 | 4 | 10 01 | 1 -- | -- 1 | B B | 3RT10 16-2MB41-0KT0 3RT10 16-2MB42-0KT0 | 1 1 | 1 unit 1 unit | 101 101 | 0.257 0.257 |
| Built-in diode | 9 | 4 | 10 01 | 1 -- | -- 1 | B B | 3RT10 16-2VB41 3RT10 16-2VB42 | 1 1 | 1 unit 1 unit | 101 101 | 0.258 0.255 |
| Built-in varistor | 9 | 4 | 10 01 | 1 -- | -- 1 | B B | 3RT10 16-2WB41 3RT10 16-2WB42 | 1 1 | 1 unit 1 unit | 101 101 | 0.255 0.257 |
| Diode, varistor or RC element, attachable | 12 | 5.5 | 10 01 | 1 -- | -- 1 | B B | 3RT10 17-2MB41-0KT0 3RT10 17-2MB42-0KT0 | 1 1 | 1 unit 1 unit | 101 101 | 0.256 0.250 |
| Built-in diode | 12 | 5.5 | 10 01 | 1 -- | -- 1 | B B | 3RT10 17-2VB41 3RT10 17-2VB42 | 1 1 | 1 unit 1 unit | 101 101 | 0.255 0.255 |
| Built-in varistor | 12 | 5.5 | 10 01 | 1 -- | -- 1 | B B | 3RT10 17-2WB41 3RT10 17-2WB42 | 1 1 | 1 unit 1 unit | 101 101 | 0.256 0.257 |

For accessories, see page 3/119.

* You can order this quantity or a multiple thereof.

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3RT Coupling Relays

**3RT10 coupling relays (interface),
for switching motors, 3-pole, 3 ... 11 kW**

*DC operation
Screw terminals
Low power consumption
Extended operating range of the coils
Integrated coil circuit*

| Surge suppressors | Rated data AC-2 and AC-3, T_U : up to 60 °C | | Auxiliary contacts | | DT | Screw terminals | | PU (UNIT, SET, M) | PS* | PG | Weight per PU approx. |
|-------------------|---|--|--------------------|------------------|----|-----------------|-----------------|-------------------------|-----|----|-----------------------------|
| | Operational current I_e up to 400 V A | Rating of induction motors at 50 Hz and 400 V kW | Ident. No. | Version NO NC | | Order No. | Price per PU | | | | |
| | | | | | | | | | | | kg |

For screw and snap-on mounting onto 35 mm standard mounting rail

Size S0

Rated control supply voltage $U_s = 24$ V DC, coil operating range **0.7 to 1.25 x U_s**
Power consumption of the coils **4.2 W** at 24 V (2 single-pole auxiliary switch blocks can be mounted)

| | | | | | | | | | | | |
|----------|----|------------|----|----|----|---|-----------------------|---|--------|-----|-------|
| Varistor | 12 | 5.5 | -- | -- | -- | ▶ | 3RT10 24-1KB40 | 1 | 1 unit | 101 | 0.576 |
| mounted | 17 | 7.5 | -- | -- | -- | ▶ | 3RT10 25-1KB40 | 1 | 1 unit | 101 | 0.577 |
| | 25 | 11 | -- | -- | -- | ▶ | 3RT10 26-1KB40 | 1 | 1 unit | 101 | 0.582 |



3RT10 2.-1KB40

For accessories, see page 3/112.

*DC operation
Cage Clamp terminals
Low power consumption
Extended operating range of the coils
Integrated coil circuit*

| Surge suppressors | Rated data AC-2 and AC-3, T_U : up to 60 °C | | Auxiliary contacts | | DT | Cage Clamp terminals | | PU (UNIT, SET, M) | PS* | PG | Weight per PU approx. |
|-------------------|---|--|--------------------|------------------|----|----------------------|-----------------|-------------------------|-----|----|-----------------------------|
| | Operational current I_e up to 400 V A | Rating of induction motors at 50 Hz and 400 V kW | Ident. No. | Version NO NC | | Order No. | Price per PU | | | | |
| | | | | | | | | | | | kg |

For screw and snap-on mounting onto 35 mm standard mounting rail

Size S0

Rated control supply voltage $U_s = 24$ V DC, coil operating range **0.7 to 1.25 x U_s**
Power consumption of the coils **4.2 W** at 24 V (2 single-pole auxiliary switch blocks can be mounted)

| | | | | | | | | | | | |
|----------|----|------------|----|----|----|---|-----------------------|---|--------|-----|-------|
| Varistor | 12 | 5.5 | -- | -- | -- | B | 3RT10 24-3KB40 | 1 | 1 unit | 101 | 0.578 |
| mounted | 17 | 7.5 | -- | -- | -- | ▶ | 3RT10 25-3KB40 | 1 | 1 unit | 101 | 0.580 |
| | 25 | 11 | -- | -- | -- | ▶ | 3RT10 26-3KB40 | 1 | 1 unit | 101 | 0.581 |



3RT10 2.-3KB40

For accessories, see page 3/112.

3TX7, 3RS18 Coupling Relays 3TX7 Coupling Relays, Narrow Design

Relay couplers

Application

AC and DC operation

DIN VDE 0110 Part 1, DIN VDE 0435, DIN VDE 0660 and EN 50005



In the coupling links in double-decker format, the connections are arranged on two levels; the units are extremely compact. Connection method: Screw terminals or spring-loaded terminals. For test purposes, versions are available with manual 0 automatic switches.

The input and output coupling links differ with regard to the positioning of the terminals and the LEDs. For equipment identification purposes, each coupling link has a blank legend plate.

In accordance with the technical specifications of electronic systems, the coupling elements have a lower power consumption.

Selection and ordering data

AC and DC operation · for snap-on mounting onto 35 mm standard mounting rail

| Rated control supply voltage U_s | Contacts Version | | Width | DT | Order No. | Price per PU | PU (UNIT, SET, M) | PS* | PG | Weight per PU approx. |
|---|---|---|-------|----|-----------------------|--------------|-------------------|--------|-----|-----------------------|
| AC 50/60 Hz |  |  | | | | | | | | |
| V | NO | CO | mm | | | | | | | kg |
| 3TX7 002 relay coupling links with screw terminals | | | | | | | | | | |
| Output coupling links | | | | | | | | | | |
| 24 | 1 | -- | 11.5 | ▶ | 3TX7 002-1AB00 | | 1 | 1 unit | 101 | 0.033 |
| | 1 ¹⁾ | -- | | ▶ | 3TX7 002-1AB02 | | 1 | 1 unit | 101 | 0.032 |
| 24 | -- | 1 | 17.5 | ▶ | 3TX7 002-1BB00 | | 1 | 1 unit | 101 | 0.041 |
| 230 | -- | 1 | 17.5 | ▶ | 3TX7 002-1BF00 | | 1 | 1 unit | 101 | 0.042 |
| 24 | 2 ²⁾ | -- | 22.5 | ▶ | 3TX7 002-1CB00 | | 1 | 1 unit | 101 | 0.055 |
| | -- | 2 ^{1) 2)} | | ▶ | 3TX7 002-1FB02 | | 1 | 1 unit | 101 | 0.055 |
| Input coupling links | | | | | | | | | | |
| 24 | 1 | -- | 11.5 | ▶ | 3TX7 002-2AB00 | | 1 | 1 unit | 101 | 0.032 |
| 110 | | | | | 3TX7 002-2AE00 | | 1 | 1 unit | 101 | 0.032 |
| 230 ²⁾ | 1 | -- | 11.5 | ▶ | 3TX7 002-2AF00 | | 1 | 1 unit | 101 | 0.033 |
| | | | | | 3TX7 002-2AF05 | | 1 | 1 unit | 101 | 0.039 |
| 230 | -- | 1 ^{1) 3)} | 17.5 | ▶ | 3TX7 002-2BF02 | | 1 | 1 unit | 101 | 0.043 |
| 3TX7 003 relay coupling links with spring-loaded terminals | | | | | | | | | | |
| Output coupling links | | | | | | | | | | |
| 24 | 1 | -- | 11.5 | ▶ | 3TX7 003-1AB00 | | 1 | 1 unit | 101 | 0.030 |
| 24 | -- | 1 | 17.5 | ▶ | 3TX7 003-1BB00 | | 1 | 1 unit | 101 | 0.039 |
| 24 | 2 ²⁾ | -- | 22.5 | ▶ | 3TX7 003-1CB00 | | 1 | 1 unit | 101 | 0.050 |
| Input coupling links | | | | | | | | | | |
| 230 | 1 | -- | 11.5 | A | 3TX7 003-2AF00 | | 1 | 1 unit | 101 | 0.031 |

3TX7 002-1....

3TX7 002-2....

3TX7 003

Note:

For coil voltages which are not listed, see SITOP power DC Power Supplies, e.g. 6EP1 331-2BA10 and 6EP1 731-2BA00, in "Power Supplies".

- 1) Hard gold-plated contacts.
- 2) The same potential must be applied to the output contacts of the 2 NO/2 CO relays.
- 3) Observe max. permissible conductor length, see Technical Specifications.



* You can order this quantity or a multiple thereof.

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3TX7, 3RS18 Coupling Relays 3TX7 Coupling Relays, Narrow Design

Relay couplers

| Rated control supply voltage U_s | Contacts Version | Manual-0-automatic switch for testing purposes | Width | DT | Order No. | Price per PU | PU (UNIT, SET, M) | PS* | PG | Weight per PU approx. |
|------------------------------------|---|---|-------|----|-----------|--------------|-------------------|-----|----|-----------------------|
| AC 50/60 Hz |  |  | | | | | | | | |
| V | NO | CO | mm | | | | | | | kg |

3TX7 004 relay couplers with screw terminals



3TX7 004-1LB0.

Output coupling links

| | | | | | | | | | | |
|-----|----|-----------------|---------|--------------------|---|-----------------------|---|--------|-----|-------|
| 24 | -- | 1 | without | 6.2 | ▶ | 3TX7 004-1LB00 | 1 | 1 unit | 101 | 0.033 |
| 230 | -- | 1 | without | 6.2 | ▶ | 3TX7 004-1LF00 | 1 | 1 unit | 101 | 0.034 |
| | -- | 1 | without | 12.5 ¹⁾ | ▶ | 3TX7 004-1BF05 | 1 | 1 unit | 101 | 0.057 |
| 24 | -- | 1 ²⁾ | without | 6.2 | ▶ | 3TX7 004-1LB02 | 1 | 1 unit | 101 | 0.033 |
| 24 | 1 | -- | without | 6.2 | ▶ | 3TX7 004-1MB00 | 1 | 1 unit | 101 | 0.037 |
| 230 | 1 | -- | without | 6.2 | ▶ | 3TX7 004-1MF00 | 1 | 1 unit | 101 | 0.037 |
| 24 | -- | 1 | with | 12.5 | ▶ | 3TX7 004-1BB10 | 1 | 1 unit | 101 | 0.052 |

Input coupling links

| | | | | | | | | | | |
|-----|-----------------|----|---------|-----|---|-----------------------|---|--------|-----|-------|
| 24 | 1 ²⁾ | -- | without | 6.2 | ▶ | 3TX7 004-2MB02 | 1 | 1 unit | 101 | 0.037 |
| 110 | 1 ²⁾ | -- | without | 6.2 | ▶ | 3TX7 004-2ME02 | 1 | 1 unit | 101 | 0.037 |
| 230 | 1 ²⁾ | -- | without | 6.2 | ▶ | 3TX7 004-2MF02 | 1 | 1 unit | 101 | 0.038 |

3TX7 005 relay couplers with spring-loaded terminals



3TX7 005-2MB02

Output coupling links

| | | | | | | | | | | |
|-----|----|-----------------|---------|-----|---|-----------------------|---|--------|-----|-------|
| 24 | -- | 1 | without | 6.2 | ▶ | 3TX7 005-1LB00 | 1 | 1 unit | 101 | 0.028 |
| 230 | -- | 1 | without | 6.2 | ▶ | 3TX7 005-1LF00 | 1 | 1 unit | 101 | 0.030 |
| 24 | -- | 1 ²⁾ | without | 6.2 | ▶ | 3TX7 005-1LB02 | 1 | 1 unit | 101 | 0.028 |
| 24 | 1 | -- | without | 6.2 | ▶ | 3TX7 005-1MB00 | 1 | 1 unit | 101 | 0.034 |
| 230 | 1 | -- | without | 6.2 | ▶ | 3TX7 005-1MF00 | 1 | 1 unit | 101 | 0.034 |

Input coupling links

| | | | | | | | | | | |
|-----|-----------------|----|---------|-----|---|-----------------------|---|--------|-----|-------|
| 24 | 1 ²⁾ | -- | without | 6.2 | C | 3TX7 005-2MB02 | 1 | 1 unit | 101 | 0.034 |
| 230 | 1 ²⁾ | -- | without | 6.2 | B | 3TX7 005-2MF02 | 1 | 1 unit | 101 | 0.034 |

Note:

For replacement products, see 3RS18 coupling links with industrial housing or other 3TX7 0 products.

For coil voltages which are not listed, see SITOP power DC Power Supplies, e.g. 6EP1 331-2BA10 and 6EP1 731-2BA00, in "Transformers and Power Supplies".

1) For long conductors.

2) Hard gold-plated contacts.

Accessories

| For coupling link | Version | DT | Order No. | Price per PU | PU (UNIT, SET, M) | PS* | PG | Weight per PU approx. |
|-------------------|---------|----|-----------|--------------|-------------------|-----|----|-----------------------|
| Type | | | | | | | | kg |

Connecting combs



| | | | | | | | | |
|----------|------------------------------------|---|-----------------------|--|---|--------|-----|-------|
| 3TX7 004 | 24 terminals, blue Width 6.2 mm | ▶ | 3TX7 004-8AA00 | | 1 | 1 unit | 101 | 0.017 |
|----------|------------------------------------|---|-----------------------|--|---|--------|-----|-------|

Connecting leads



| | | | | | | | | |
|---|-----------------------------------|---|-----------------------|--|---|--------|-----|-------|
| 3TX7 002, 3TX7 003, 3TX7 004, 3TX7 005 | 24 terminals with supply, blue | A | 3TX7 004-8BA00 | | 1 | 1 unit | 101 | 0.050 |
|---|-----------------------------------|---|-----------------------|--|---|--------|-----|-------|

3TX7, 3RS18 Coupling Relays 3TX7 Coupling Relays, Narrow Design

Relay couplers with plug-in design

Benefits

Advantages

- Plug-in relay with spring-loaded terminals and 6.2 mm width
- Fast exchange with permanent wiring (plug-in relay)
- The wire inlet and terminals can be reached from the front. This results in faster wiring time and wiring errors are prevented.
- Tested complete units → short mounting time
- Single relays available as components
- Linking of supply voltage and control signals with 16-pole connecting comb
- Galvanic isolation plate for isolating different voltages for neighboring units

- Device variants with hard gold-plated contacts, hence high contact reliability
- 24 V DC version also available as variant with NO contact
- Integrated reverse polarity protection and EMC arc-suppression diode
- Clearly visible functional state of the relay coupler by yellow LED
- Safe isolation according to EN 50178
- 230 V AC/DC versions available

Selection and ordering data

| Rated control supply voltage U_s | Contacts Version | | DT | Order No. | Price per PU | PU (UNIT, SET, M) | PS* | PG | Weight per PU approx. |
|--|------------------|----|----|-----------------------|--------------|-------------------|---------|-----|-----------------------|
| V | NO | CO | | | | | | | kg |
| Plug-in relays with screw terminals, 6.2 mm, complete with relay | | | | | | | | | |
| 24 DC | 1 | -- | A | 3TX7 014-1AM00 | | 1 | 5 units | 101 | 0.035 |
| 24 DC | -- | 1 | A | 3TX7 014-1BM00 | | 1 | 5 units | 101 | 0.035 |
| 24 AC/DC | -- | 1 | A | 3TX7 014-1BB00 | | 1 | 5 units | 101 | 0.035 |
| 115 AC/DC | -- | 1 | A | 3TX7 014-1BE00 | | 1 | 5 units | 101 | 0.045 |
| 230 AC/DC | -- | 1 | A | 3TX7 014-1BF00 | | 1 | 5 units | 101 | 0.041 |
| Plug-in relays with screw terminals, 6.2 mm, complete with relay and hard gold-plating¹⁾ | | | | | | | | | |
| 24 DC | -- | 1 | A | 3TX7 014-1BM02 | | 1 | 5 units | 101 | 0.035 |
| 24 AC/DC | -- | 1 | A | 3TX7 014-1BB02 | | 1 | 5 units | 101 | 0.035 |
| 115 AC/DC | -- | 1 | A | 3TX7 014-1BE02 | | 1 | 5 units | 101 | 0.041 |
| 230 AC/DC | -- | 1 | A | 3TX7 014-1BF02 | | 1 | 5 units | 101 | 0.035 |
| Plug-in relays with spring-loaded terminals, 6.2 mm, complete with relay | | | | | | | | | |
| 24 DC | 1 | -- | A | 3TX7 015-1AM00 | | 1 | 5 units | 101 | 0.045 |
| 24 DC | -- | 1 | A | 3TX7 015-1BM00 | | 1 | 5 units | 101 | 0.045 |
| 24 AC/DC | -- | 1 | A | 3TX7 015-1BB00 | | 1 | 5 units | 101 | 0.045 |
| 115 AC/DC | -- | 1 | A | 3TX7 015-1BE00 | | 1 | 5 units | 101 | 0.045 |
| 230 AC/DC | -- | 1 | A | 3TX7 015-1BF00 | | 1 | 5 units | 101 | 0.045 |
| Plug-in relays with spring-loaded terminals, 6.2 mm, complete with relay and hard gold-plating¹⁾ | | | | | | | | | |
| 24 DC | -- | 1 | A | 3TX7 015-1BM02 | | 1 | 5 units | 101 | 0.045 |
| 24 AC/DC | -- | 1 | A | 3TX7 015-1BB02 | | 1 | 5 units | 101 | 0.040 |
| 115 AC/DC | -- | 1 | A | 3TX7 015-1BE02 | | 1 | 5 units | 101 | 0.045 |
| 230 AC/DC | -- | 1 | A | 3TX7 015-1BF02 | | 1 | 5 units | 101 | 0.045 |

1) The variants with hard gold-plated contacts feature high contact reliability (also for low currents) and are therefore especially suitable for steady-state inputs of programmable logic controllers.

* You can order this quantity or a multiple thereof.

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3TX7, 3RS18 Coupling Relays 3TX7 Coupling Relays, Narrow Design

Relay couplers with plug-in design

| Rated control supply voltage U_s V | Used for | DT | Order No. | Price per PU | PU (UNIT, SET, M) | PS* | PG | Weight per PU approx. kg |
|---|--|----|-----------------------|--------------|-------------------|------------|-----|-----------------------------|
| Individual relay modules¹⁾, 6.2 mm, 1 changeover contact | | | | | | | | |
| 12 DC | Complete units 24 V AC/DC Complete units, 24 V AC/DC, hard gold-plated | A | 3TX7 014-7BQ00 | | | 1 20 units | 101 | 0.035 |
| | | A | 3TX7 014-7BQ02 | | | | | |
| 24 DC | Complete units 24 V DC Complete units 24 V DC, hard gold-plated | A | 3TX7 014-7BM00 | | | 1 20 units | 101 | 0.035 |
| | | A | 3TX7 014-7BM02 | | | | | |
| 60 DC | Complete units 115 V and 230 V AC/DC Complete units 115 V and 230 V AC/DC, hard gold-plated | A | 3TX7 014-7BP00 | | | 1 20 units | 101 | 0.035 |
| | | A | 3TX7 014-7BP02 | | | | | |
| Connecting combs 16-pole, blue | | | | | | | | |
| for linking the same potentials, 16-pole, current carrying capacity for infeed max. 6 A | | A | 3TX7 014-7AA00 | | | 1 5 units | 101 | 0.035 |
| Galvanic isolation plates | | | | | | | | |
| 3TX7 014 and 3TX7 015 | | A | 3TX7 014-7CE00 | | | 1 10 units | 101 | 0.035 |

1) The variants with hard gold-plated contacts feature high contact reliability (also for low currents) and are therefore especially suitable for steady-state inputs of programmable logic controllers.

Selective help to assign relay single modules

| Complete device | | NO (13/14) CO (11/12/14) | Single device | Versions to be supplied | | |
|-----------------------|-------------|-----------------------------|-----------------------|-------------------------|---------|--------------|
| 3TX7 014-.. | (+)A1/(-)A2 | | 3TX7 014-.. | FTR-LY.. | APE.. | V23092-.. |
| ..1AM00 ¹⁾ | 24 V DC | NO | ..7BM00 ¹⁾ | ..CA024Y | ..30024 | ..A1024-A301 |
| ..1BM00 ¹⁾ | 24 V DC | CO | ..7BM00 ¹⁾ | ..CA024Y | ..30024 | ..A1024-A301 |
| ..1BB00 ¹⁾ | 24 V AC/DC | CO | ..7BQ00 ¹⁾ | ..CA012Y | ..30012 | ..A1012-A301 |
| ..1BE00 ¹⁾ | 115 V AC/DC | CO | ..7BP00 ¹⁾ | -- | ..30060 | ..A1060-A301 |
| ..1BF00 ¹⁾ | 230 V AC/DC | CO | ..7BP00 ¹⁾ | -- | ..30060 | ..A1060-A301 |
| ..1BM02 ²⁾ | 24 V DC | CO | ..7BM02 ²⁾ | ..CA024V | ..30124 | ..A1024-A201 |
| ..1BB02 ²⁾ | 24 V AC/DC | CO | ..7BQ02 ²⁾ | ..CA012V | ..30112 | ..A1012-A201 |
| ..1BE02 ²⁾ | 115 V AC/DC | CO | ..7BP02 ²⁾ | -- | ..30160 | ..A1060-A201 |
| ..1BF02 ²⁾ | 230 V AC/DC | CO | ..7BP02 ²⁾ | -- | ..30160 | ..A1060-A201 |

1) = AgSn0
2) = AgSn0+Au

* You can order this quantity or a multiple thereof.

3TX7, 3RS18 Coupling Relays 3TX7 Coupling Relays, Narrow Design

Semiconductor couplers

Overview

AC and DC operation

DIN VDE 0110 Part 1, DIN VDE 0435, DIN VDE 0660 and EN 50005 optocouplers; DIN VDE 0884, DIN VDE 0411 Part 500, IEC 61131-2 (programmable logic controllers).

In the coupling links in double-decker format, the connections are arranged on two levels; the units are extremely compact. Connection method: Screw terminals or spring-loaded terminals. For test purposes, versions are available with manual 0 automatic switches.

The input and output coupling links differ with regard to the positioning of the terminals and the LEDs. For equipment identification purposes, each coupling link has a blank legend plate.

In accordance with the technical specifications of electronic systems, the coupling elements have a lower power consumption.

Selection and ordering data

AC and DC operation · for snap-on mounting onto 35 mm standard mounting rail

| Rated control supply voltage U_s | Contacts | Switching current | Width | DT | Order No. | Price per PU | PU (UNIT, SET, M) | PS* | PG | Weight per PU approx. |
|---|--------------|-------------------|-------|----|-----------------------|--------------|-------------------|--------|-----|-----------------------|
| AC 50/60 Hz V | Version | A | mm | | | | | | | kg |
| 3TX7 002 semiconductor couplers with screw terminals | | | | | | | | | | |
| Output coupling links | | | | | | | | | | |
| 24 DC | 1 transistor | 1.8 | 12.5 | ▶ | 3TX7 002-3AB00 | | 1 | 1 unit | 101 | 0.033 |
| | 1 transistor | 1.5 | 11.5 | ▶ | 3TX7 002-3AB01 | | 1 | 1 unit | 101 | 0.035 |
| Input coupling links | | | | | | | | | | |
| 24 AC/DC | 1 transistor | 0.1 | 12.5 | ▶ | 3TX7 002-4AB00 | | 1 | 1 unit | 101 | 0.031 |
| 110 ... 240 AC | 1 transistor | 0.1 | 12.5 | ▶ | 3TX7 002-4AG00 | | 1 | 1 unit | 101 | 0.035 |



3TX7 002

| Rated control supply voltage U_s | Switching voltage | Switching current | Manual-0-automatic switch for testing purposes | Width | DT | Order No. | Price per PU | PU (UNIT, SET, M) | PS* | PG | Weight per PU approx. |
|---|-------------------|-------------------|--|-------|----|-----------------------|--------------|-------------------|--------|-----|-----------------------|
| AC 50/60 Hz V | V | A | | mm | | | | | | | kg |
| 3TX7 004 semiconductor couplers with screw terminals | | | | | | | | | | | |
| Output coupling links | | | | | | | | | | | |
| 24 DC | ≤ 48 V DC | 0.5 | without | 6.2 | ▶ | 3TX7 004-3AB04 | | 1 | 1 unit | 101 | 0.034 |
| 24 DC | ≤ 30 V DC | 1.5 | | | ▶ | 3TX7 004-3PB54 | | 1 | 1 unit | 101 | 0.029 |
| 24 DC | ≤ 30 V DC | 3 | without | 6.2 | ▶ | 3TX7 004-3PB74 | | 1 | 1 unit | 101 | 0.032 |
| 110 ... 230 AC/DC | ≤ 30 V DC | 3 | | | ▶ | 3TX7 004-3PG74 | | 1 | 1 unit | 101 | 0.033 |
| 24 DC | ≤ 30 V DC | 5 | without | 12.5 | ▶ | 3TX7 004-3AC04 | | 1 | 1 unit | 101 | 0.052 |
| 24 DC | ≤ 30 V DC | 5 | with | B | ▶ | 3TX7 004-3AC14 | | 1 | 1 unit | 101 | 0.061 |
| 24 DC | 24 ... 250 V AC | 2 | without | 12.5 | ▶ | 3TX7 004-3AC03 | | 1 | 1 unit | 101 | 0.060 |
| Input coupling links | | | | | | | | | | | |
| AC/DC 110 ... 230 | ≤ 30 V DC | 0.1 | without | 6.2 | ▶ | 3TX7 004-4PG24 | | 1 | 1 unit | 101 | 0.034 |



3TX7 004-3AB04

| 3TX7 005 semiconductor couplers with spring-loaded terminals | | | | | | | | | | | |
|---|-----------------|-----|---------|------|---|-----------------------|--|---|--------|-----|-------|
| Output coupling links | | | | | | | | | | | |
| 24 DC | ≤ 48 V DC | 0.5 | without | 6.2 | ▶ | 3TX7 005-3AB04 | | 1 | 1 unit | 101 | 0.031 |
| 24 DC | ≤ 30 V DC | 1.5 | | | ▶ | 3TX7 005-3PB54 | | 1 | 1 unit | 101 | 0.025 |
| 24 DC | ≤ 30 V DC | 3 | without | 6.2 | A | 3TX7 005-3PB74 | | 1 | 1 unit | 101 | 0.027 |
| 110 ... 230 AC/DC | ≤ 30 V DC | 3 | | | A | 3TX7 005-3PG74 | | 1 | 1 unit | 101 | 0.027 |
| 24 DC | ≤ 30 V DC | 5 | without | 12.5 | ▶ | 3TX7 005-3AC04 | | 1 | 1 unit | 101 | 0.047 |
| 24 DC | | | with | C | ▶ | 3TX7 005-3AC14 | | 1 | 1 unit | 101 | 0.051 |
| 24 DC | 24 ... 250 V AC | 2 | without | 12.5 | C | 3TX7 005-3AC03 | | 1 | 1 unit | 101 | 0.056 |
| Input coupling links | | | | | | | | | | | |
| 110 ... 230 AC/DC | ≤ 30 V DC | 0.1 | without | 6.2 | ▶ | 3TX7 005-4PG24 | | 1 | 1 unit | 101 | 0.031 |

Note:

For replacement products, see 3RS18 coupling links with industrial housing or other 3TX7 0 products.

For coil voltages which are not listed, see SITOP power DC Power Supplies, e.g. 6EP1 331-2BA10 and 6EP1 731-2BA00, in "Power Supplies".

* You can order this quantity or a multiple thereof.



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3TX7, 3RS18 Coupling Relays 3TX7 Coupling Relays, Narrow Design

Semiconductor couplers

Accessories

| For coupling link | Version | DT | Order No. | Price per PU | PU (UNIT, SET, M) | PS* | PG | Weight per PU approx. kg |
|---|---|------------------------------------|-------------------------|--------------|-------------------|--------|-----|--------------------------|
| Type | | | | | | | | |
| Connecting combs | | | | | | | | |
|  | 3TX7 004 | 24 terminals, blue Width 6.2 mm | ▶ 3TX7 004-8AA00 | | 1 | 1 unit | 101 | 0.017 |
| Connecting leads | | | | | | | | |
|  | 3TX7 002, 3TX7 003, 3TX7 004, 3TX7 005 | 24 terminals with supply, blue | A 3TX7 004-8BA00 | | 1 | 1 unit | 101 | 0.050 |

3TX7, 3RS18 Coupling Relays 3RS18 Coupling Relays with Industrial Housing

Relay couplers

Overview

The new 3RS18 coupling relays are couplers in the well-proven standard 22.5 mm timing relay housing. The series comprises relays with 1, 2 and 3 changeover contacts with screw and spring-loaded terminals for combined voltages and wide voltage ranges.

The relay coils are protected internally with suppression diodes.

Benefits

- Wide-range voltage: One product for all voltages
- The industrial housing supports the same connection methods as the timing relay including spring-loaded terminals, 2 wires can be clamped
- Versions with electronically optimized outputs (hard gold-plated)
- Up to 3 changeover contacts with 22.5 mm width

Selection and ordering data

| Rated control supply voltage U_s | Contacts Version | DT | Order No. | Price per PU | PU (UNIT, SET, M) | PS* | PG | Weight per PU approx. |
|--|---------------------|----|-----------------------|-----------------|-------------------------|--------|-----|-----------------------------|
| AC 50/60 Hz V | CO | | | | | | | kg |
| Coupling relays with industrial housing with screw terminals, 22.5 mm | | | | | | | | |
| Wide-range voltage | | | | | | | | |
| 24 ... 240 AC/DC | 2 | A | 3RS18 00-1BW00 | | 1 | 1 unit | 101 | 0.143 |
| | 3 | C | 3RS18 00-1HW00 | | 1 | 1 unit | 101 | 0.168 |
| | 3 ¹⁾ | C | 3RS18 00-1HW01 | | 1 | 1 unit | 101 | 0.168 |
| Combination voltage | | | | | | | | |
| 24 AC/DC and 110 ... 120 AC | 1 | C | 3RS18 00-1AQ00 | | 1 | 1 unit | 101 | 0.116 |
| | 2 | C | 3RS18 00-1BQ00 | | 1 | 1 unit | 101 | 0.142 |
| | 3 | C | 3RS18 00-1HQ00 | | 1 | 1 unit | 101 | 0.173 |
| | 3 ¹⁾ | C | 3RS18 00-1HQ01 | | 1 | 1 unit | 101 | 0.173 |
| 24 AC/DC and 220 ... 240 AC | 1 | C | 3RS18 00-1AP00 | | 1 | 1 unit | 101 | 0.112 |
| | 2 | C | 3RS18 00-1BP00 | | 1 | 1 unit | 101 | 0.142 |
| | 3 | C | 3RS18 00-1HP00 | | 1 | 1 unit | 101 | 0.166 |
| | 3 ¹⁾ | C | 3RS18 00-1HP01 | | 1 | 1 unit | 101 | 0.170 |
| Coupling relays with industrial housing with spring-loaded terminals, 22.5 mm | | | | | | | | |
| Wide-range voltage | | | | | | | | |
| 24 ... 240 AC/DC | 2 | C | 3RS18 00-2BW00 | | 1 | 1 unit | 101 | 0.128 |
| | 3 | C | 3RS18 00-2HW00 | | 1 | 1 unit | 101 | 0.144 |
| | 3 ¹⁾ | C | 3RS18 00-2HW01 | | 1 | 1 unit | 101 | 0.145 |
| Combination voltage | | | | | | | | |
| 24 AC/DC and 10 ... 120 AC | 1 | C | 3RS18 00-2AQ00 | | 1 | 1 unit | 101 | 0.104 |
| | 2 | C | 3RS18 00-2BQ00 | | 1 | 1 unit | 101 | 0.120 |
| | 3 | C | 3RS18 00-2HQ00 | | 1 | 1 unit | 101 | 0.147 |
| | 3 ¹⁾ | C | 3RS18 00-2HQ01 | | 1 | 1 unit | 101 | 0.147 |
| 24 AC/DC and 20 ... 240 AC | 1 | C | 3RS18 00-2AP00 | | 1 | 1 unit | 101 | 0.104 |
| | 2 | C | 3RS18 00-2BP00 | | 1 | 1 unit | 101 | 0.122 |
| | 3 | C | 3RS18 00-2HP00 | | 1 | 1 unit | 101 | 0.143 |
| | 3 ¹⁾ | C | 3RS18 00-2HP01 | | 1 | 1 unit | 101 | 0.147 |

1) Hard gold-plated contacts.




* You can order this quantity or a multiple thereof.

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LZX Plug-in Relays

Relay couplers

| Version | Rated control supply voltage U_s V | Contacts Version | Width mm | DT | Order No. | Price per PU | PU (UNIT, SET, M) | PS* | PG | Weight per PU approx. kg | |
|--|---|---|-------------|------|--------------|--------------|-------------------|----------|--------|-----------------------------|-------|
| Complete units, 11- and 14-pole, PT series | | | | | | | | | | | |
|  LZX:PT3A5L24 | Complete units with socket For snap-on mounting onto 35 mm standard mounting rail | 24 DC | 3 | 27 | C | LZX:PT3A5L24 | | 1 | 1 unit | 101 | 0.099 |
| | | 24 AC | 4 | | C | LZX:PT5A5L24 | | 1 | 1 unit | 101 | 0.099 |
| | Consisting of: Plug-in relay, socket, LED module (24-V-DC-LED module with freewheel diode, AC without freewheel diode), fixing/ejection bracket and label | 24 AC | 3 | | C | LZX:PT3A5R24 | | 1 | 1 unit | 101 | 0.099 |
| | | 24 AC | 4 | | C | LZX:PT5A5R24 | | 1 | 1 unit | 101 | 0.100 |
| | 115 AC | 3 | 27 | C | LZX:PT3A5S15 | | 1 | 1 unit | 101 | 0.099 | |
| | | 4 | | C | LZX:PT5A5S15 | | 1 | 1 unit | 101 | 0.099 | |
| | 230 AC | 3 | | C | LZX:PT3A5T30 | | 1 | 1 unit | 101 | 0.099 | |
| | | 4 | | C | LZX:PT5A5T30 | | 1 | 1 unit | 101 | 0.099 | |
| | Complete units with socket (logical isolation) For snap-on mounting onto 35 mm standard mounting rail | 24 DC | 3 | 27 | C | LZX:PT3B5L24 | | 1 | 1 unit | 101 | 0.106 |
| | | 24 AC | 4 | | C | LZX:PT5B5L24 | | 1 | 1 unit | 101 | 0.112 |
| 115 AC | | 3 | | C | LZX:PT3B5R24 | | 1 | 1 unit | 101 | 0.112 | |
| 115 AC | | 3 | | C | LZX:PT3B5S15 | | 1 | 1 unit | 101 | 0.105 | |
| 115 AC | | 4 | 27 | C | LZX:PT5B5S15 | | 1 | 1 unit | 101 | 0.112 | |
| | | 3 | | C | LZX:PT3B5T30 | | 1 | 1 unit | 101 | 0.106 | |
| 230 AC | | 4 | | C | LZX:PT5B5T30 | | 1 | 1 unit | 101 | 0.112 | |
| | | 4 | | C | LZX:PT5B5T30 | | 1 | 1 unit | 101 | 0.112 | |
| Complete units, 8-pole, 5 mm pinning, RT series | | | | | | | | | | | |
|  LZX:RT4B4AT30 | | Complete units with socket For snap-on mounting onto 35 mm standard mounting rail | 24 DC | 1 | 15.5 | ▶ | LZX:RT3A4L24 | | 1 | 1 unit | 101 |
| | 24 AC | | 2 | | ▶ | LZX:RT4A4L24 | | 1 | 1 unit | 101 | 0.061 |
| | Consisting of: Print relay, standard socket, LED module (24-V-LED-DC with freewheel diode, AC without freewheel diode), fixing/ejection bracket and label | 24 AC | 1 | | C | LZX:RT3A4R24 | | 1 | 1 unit | 101 | 0.060 |
| | | 24 AC | 2 | | C | LZX:RT4A4R24 | | 1 | 1 unit | 101 | 0.060 |
| | 115 AC | 1 | 15.5 | C | LZX:RT3A4S15 | | 1 | 1 unit | 101 | 0.060 | |
| | | 2 | | C | LZX:RT4A4S15 | | 1 | 1 unit | 101 | 0.060 | |
| | 230 AC | 1 | | A | LZX:RT3A4T30 | | 1 | 1 unit | 101 | 0.060 | |
| | | 2 | | ▶ | LZX:RT4A4T30 | | 1 | 1 unit | 101 | 0.060 | |
| | Complete units with socket (logical isolation) For snap-on mounting onto 35 mm standard mounting rail | 24 DC | 1 | 15.5 | C | LZX:RT3B4L24 | | 1 | 1 unit | 101 | 0.065 |
| | | 24 AC | 2 | | A | LZX:RT4B4L24 | | 1 | 1 unit | 101 | 0.065 |
| 24 AC | | 1 | | C | LZX:RT3B4R24 | | 1 | 1 unit | 101 | 0.064 | |
| 24 AC | | 2 | | C | LZX:RT4B4R24 | | 1 | 1 unit | 101 | 0.064 | |
| 115 AC | | 1 | 15.5 | C | LZX:RT3B4S15 | | 1 | 1 unit | 101 | 0.064 | |
| | | 2 | | C | LZX:RT4B4S15 | | 1 | 1 unit | 101 | 0.065 | |
| 230 AC | | 1 | | C | LZX:RT3B4T30 | | 1 | 1 unit | 101 | 0.064 | |
| | | 2 | | C | LZX:RT4B4T30 | | 1 | 1 unit | 101 | 0.064 | |
| Complete units, 5-pole, 3.2 mm pinning, RY series | | | | | | | | | | | |
|  LZX:RY1A4L24 | | Complete units with socket (logical isolation) For snap-on mounting onto 35 mm standard mounting rail | 24 DC | 1 | 15.5 | C | LZX:RY1A4L24 | | 1 | 1 unit | 101 |
| | Consisting of: Print relays Sockets with logical isolation LED modules (24-V-DC-LED module with freewheel diode) Fixing/ejection brackets and label | | | | | C | LZX:RY213024 | | 1 | 1 unit | 101 |
| | | | | | C | LZX:RY78626 | | 1 | 1 unit | 101 | 0.035 |
| | | | | ▶ | LZX:RPML0024 | | 1 | 1 unit | 101 | 0.003 | |
| | | | | C | LZX:RY16016 | | 100 | 10 units | 101 | 0.100 | |

Note:

Logical isolation: The terminals for the contacts and the terminals for the coil are arranged on separate levels, e.g. above for contacts and below for coil.








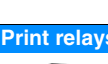


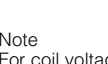
Logical isolation is not necessarily safe isolation (see the technical specifications of the relay types).

Safe isolation: Safe isolation prevents voltage of one circuit affecting another circuit with sufficient protection (DIN VDE 106 Part 101).

* You can order this quantity or a multiple thereof.

LZX Plug-in Relays

Relay couplers

| Version | Rated control supply voltage U_s | Contacts Version | Width | DT | Order No. | Price per PU | PU (UNIT, SET, M) | PS* | PG | Weight per PU approx. | |
|---|---|-------------------|-------|------|---------------------|---------------------|-------------------|--------|----------|-----------------------|-------|
| | V | | mm | | | | | | | kg | |
| Print relays, 8- and 11-pole, 5 mm pinning, RT series | | | | | | | | | | | |
| <i>Individual modules for customer assembly</i> | | | | | | | | | | | |
|  | Print relays | 24 DC | 1 | 12.7 | C | LZX:RT315024 | | 1 | 1 unit | 101 | 0.016 |
| | • With hard gold-plating | 24 AC | 1 | 12.7 | C | LZX:RT315524 | | 1 | 1 unit | 101 | 0.013 |
| | | 230 AC | 1 | 12.7 | C | LZX:RT315730 | | 1 | 1 unit | 101 | 0.015 |
|  | Print relays | 24 DC | 1 | 12.7 | ▶ | LZX:RT314024 | | 1 | 1 unit | 101 | 0.016 |
| | | 24 DC | 2 | 12.7 | ▶ | LZX:RT424024 | | 1 | 1 unit | 101 | 0.015 |
| | | 24 AC | 1 | 12.7 | C | LZX:RT314524 | | 1 | 1 unit | 101 | 0.007 |
| | | 24 AC | 2 | 12.7 | ▶ | LZX:RT424524 | | 1 | 1 unit | 101 | 0.014 |
| | | 115 AC | 1 | 12.7 | C | LZX:RT314615 | | 1 | 1 unit | 101 | 0.013 |
| | | 115 AC | 2 | 12.7 | ▶ | LZX:RT424615 | | 1 | 1 unit | 101 | 0.012 |
| | | 230 AC | 1 | 12.7 | ▶ | LZX:RT314730 | | 1 | 1 unit | 101 | 0.007 |
| | 230 AC | 2 | 12.7 | ▶ | LZX:RT424730 | | 1 | 1 unit | 101 | 0.010 | |
| | Standard sockets for mounting onto standard mounting rail | -- | -- | 15.5 | ▶ | LZX:RT78625 | | 1 | 1 unit | 101 | 0.042 |
|  | Sockets with logical isolation, for mounting onto standard mounting rail | -- | -- | 15.5 | ▶ | LZX:RT78626 | | 1 | 1 unit | 101 | 0.047 |
| | <i>Accessories for RT</i> | | | | | | | | | | |
|  | LED modules | | | | | | | | | | |
| | • Red | | | | | | | | | | |
| | with freewheel diode | 24 DC | -- | 15.5 | ▶ | LZX:RPML0024 | | 1 | 1 unit | 101 | 0.003 |
| | without freewheel diode | 24 AC/DC | -- | | ▶ | LZX:RPML0524 | | 1 | 1 unit | 101 | 0.003 |
| | | 110 ... 230 AC/DC | -- | | ▶ | LZX:RPML0730 | | 1 | 1 unit | 101 | 0.003 |
|  | • Green | | | | | | | | | | |
| | with freewheel diode | 24 DC | -- | 15.5 | ▶ | LZX:RPMG0024 | | 1 | 1 unit | 101 | 0.003 |
| | without freewheel diode | 24 AC/DC | -- | | C | LZX:RPMG0524 | | 1 | 1 unit | 101 | 0.003 |
| | | 110 ... 230 AC/DC | -- | | ▶ | LZX:RPMG0730 | | 1 | 1 unit | 101 | 0.003 |
|  | Fixing/ejection brackets | -- | -- | | C | LZX:RY16016 | | 100 | 10 units | 101 | 0.100 |
|  | Labels | -- | -- | 15.5 | ▶ | LZX:PT16040 | | 100 | 20 units | 101 | 0.100 |
|  | RC elements | 24 ... 48 AC | -- | 15.5 | C | LZX:RPMU0548 | | 1 | 1 unit | 101 | 0.004 |
| | | 110 ... 230 AC | -- | | ▶ | LZX:RPMU0730 | | 1 | 1 unit | 101 | 0.003 |
|  | Freewheel diodes with connection to A1 | 6 ... 230 DC | -- | 15.5 | ▶ | LZX:RPMT00A0 | | 1 | 1 unit | 101 | 0.002 |
| Print relays, 5-pole, RY series | | | | | | | | | | | |
| <i>Individual modules for customer assembly</i> | | | | | | | | | | | |
|  | Print relays | 24 DC | 1 | 10.7 | C | LZX:RY213024 | | 1 | 1 unit | 101 | 0.009 |
| | Label on relay: RY213024, RY613024 or JS24N-K | | | | | | | | | | |
| | Sockets with logical isolation, for mounting onto standard mounting rail | -- | -- | 15.5 | C | LZX:RY78626 | | 1 | 1 unit | 101 | 0.035 |
|  | Fixing/ejection brackets | -- | -- | | C | LZX:RY16016 | | 100 | 10 units | 101 | 0.100 |

Note

For coil voltages which are not listed, see SITOP power DC Power Supplies, e.g. 6EP1 331-2BA10 and 6EP1 731-2BA00, in "Power Supplies".

* You can order this quantity or a multiple thereof.

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LZX Plug-in Relays

Relay couplers

| Version | Rated control supply voltage U_s | Contacts Version | Width | DT | Order No. | Price per PU | PU (UNIT, SET, M) | PS* | PG | Weight per PU approx. |
|---------|------------------------------------|------------------|-------|----|-----------|--------------|-------------------|-----|----|-----------------------|
| | V | | mm | | | | | | | kg |

Industrial relays, 8-, 11-, and 14-pole, PT series

Individual modules for customer assembly



LZX:PT570024



LZX:PT78702

Mini industrial relays

| | | | | | | | | | | |
|--|--------|----|------|---|--------------|--|---|--------|-----|-------|
| • With test bracket and mechanical contact position indicator, without LED ¹⁾ | 24 DC | 2 | 22.5 | ▶ | LZX:PT270024 | | 1 | 1 unit | 101 | 0.030 |
| | | 3 | | ▶ | LZX:PT370024 | | 1 | 1 unit | 101 | 0.031 |
| | | 4 | | ▶ | LZX:PT570024 | | 1 | 1 unit | 101 | 0.031 |
| | 24 AC | 2 | 22.5 | C | LZX:PT270524 | | 1 | 1 unit | 101 | 0.030 |
| | | 3 | | A | LZX:PT370524 | | 1 | 1 unit | 101 | 0.031 |
| | | 4 | | ▶ | LZX:PT570524 | | 1 | 1 unit | 101 | 0.031 |
| | 115 AC | 2 | 22.5 | C | LZX:PT270615 | | 1 | 1 unit | 101 | 0.028 |
| | | 3 | | A | LZX:PT370615 | | 1 | 1 unit | 101 | 0.030 |
| | | 4 | | ▶ | LZX:PT570615 | | 1 | 1 unit | 101 | 0.030 |
| | 230 AC | 2 | 22.5 | ▶ | LZX:PT270730 | | 1 | 1 unit | 101 | 0.029 |
| | | 3 | | ▶ | LZX:PT370730 | | 1 | 1 unit | 101 | 0.030 |
| | | 4 | | ▶ | LZX:PT570730 | | 1 | 1 unit | 101 | 0.030 |
| • With hard gold-plating | 24 DC | 4 | 22.5 | ▶ | LZX:PT580024 | | 1 | 1 unit | 101 | 0.031 |
| | 230 AC | | | ▶ | LZX:PT580730 | | 1 | 1 unit | 101 | 0.031 |
| • Without test bracket | 24 DC | 4 | 22.5 | C | LZX:PT520024 | | 1 | 1 unit | 101 | 0.031 |
| | 24 AC | | | C | LZX:PT520524 | | 1 | 1 unit | 101 | 0.032 |
| | 230 AC | | | C | LZX:PT520730 | | 1 | 1 unit | 101 | 0.031 |
| Sockets for mounting onto standard mounting rail | -- | -- | 27 | ▶ | LZX:PT78702 | | 1 | 1 unit | 101 | 0.051 |
| | | | | ▶ | LZX:PT78703 | | 1 | 1 unit | 101 | 0.062 |
| | | | | ▶ | LZX:PT78704 | | 1 | 1 unit | 101 | 0.063 |

Accessories for PT

LED modules

• Red

| | | | | | | | | | | |
|-------------------------|-------------------|----|------|---|--------------|--|---|--------|-----|-------|
| with freewheel diode | 24 DC | -- | 12.5 | ▶ | LZX:RPML0024 | | 1 | 1 unit | 101 | 0.003 |
| without freewheel diode | 24 AC/DC | | | ▶ | LZX:RPML0524 | | 1 | 1 unit | 101 | 0.003 |
| | 110 ... 230 AC/DC | | | ▶ | LZX:RPML0730 | | 1 | 1 unit | 101 | 0.003 |

• Green

| | | | | | | | | | | |
|-------------------------|-------------------|----|------|---|--------------|--|---|--------|-----|-------|
| with freewheel diode | 24 DC | -- | 12.5 | ▶ | LZX:RPMG0024 | | 1 | 1 unit | 101 | 0.003 |
| without freewheel diode | 24 AC | | | C | LZX:RPMG0524 | | 1 | 1 unit | 101 | 0.003 |
| | 110 ... 230 AC/DC | | | ▶ | LZX:RPMG0730 | | 1 | 1 unit | 101 | 0.003 |

Fixing/ejection brackets

| | | | | | | | | | | |
|----|----|----|----|---|-------------|--|-----|----------|-----|-------|
| -- | -- | -- | 26 | ▶ | LZX:PT16016 | | 100 | 10 units | 101 | 0.100 |
|----|----|----|----|---|-------------|--|-----|----------|-----|-------|

Labels

| | | | | | | | | | | |
|----|----|----|----|---|-------------|--|-----|----------|-----|-------|
| -- | -- | -- | 26 | ▶ | LZX:PT16040 | | 100 | 10 units | 101 | 0.100 |
|----|----|----|----|---|-------------|--|-----|----------|-----|-------|

RC elements

| | | | | | | | | | | |
|----------------|----|----|----|---|--------------|--|---|--------|-----|-------|
| 24 ... 48 AC | -- | -- | 26 | C | LZX:RPMU0548 | | 1 | 1 unit | 101 | 0.004 |
| 110 ... 230 AC | | | | ▶ | LZX:RPMU0730 | | 1 | 1 unit | 101 | 0.003 |

Freewheel diodes with connection to A1

| | | | | | | | | | | |
|--------------|----|----|----|---|--------------|--|---|--------|-----|-------|
| 6 ... 230 DC | -- | -- | 26 | ▶ | LZX:RPMT00A0 | | 1 | 1 unit | 101 | 0.002 |
|--------------|----|----|----|---|--------------|--|---|--------|-----|-------|

for PT relays²⁾



LZX:PT78802



LZX:PT78604

Logical sockets

with logical arrangement of the contacts

| | | | | | | | | | | |
|---------------|--|--|--|---|-------------|--|---|--------|-----|-------|
| 2 CO contacts | | | | C | LZX:PT78802 | | 1 | 1 unit | 101 | 0.063 |
| 3 CO contacts | | | | C | LZX:PT78803 | | 1 | 1 unit | 101 | 0.070 |
| 4 CO contacts | | | | C | LZX:PT78804 | | 1 | 1 unit | 101 | 0.075 |

Sockets with top slide, pinning 3.5 mm

2 different conductor cross-sections can be connected, without LEDs



| | | | | | | | | | | |
|---------------|--|--|--|---|-------------|--|---|--------|-----|-------|
| 2 CO contacts | | | | C | LZX:PT78602 | | 1 | 1 unit | 101 | 0.043 |
| 4 CO contacts | | | | C | LZX:PT78604 | | 1 | 1 unit | 101 | 0.051 |

- 1) The test bracket is designed to be non-latching. If the test bracket is pressed further until 90° has been reached, two small lugs break off and the test bracket can be latched in position.
- 2) Accessories for LZX:RPM LED modules and LZX:PT16016 fixing/ejection brackets cannot be used with these sockets.

* You can order this quantity or a multiple thereof.

LZX Plug-in Relays

Relay couplers

| Version | Rated control supply voltage U_s | Contacts Version | Width | DT | Order No. | Price per PU | PU (UNIT, SET, M) | PS* | PG | Weight per PU approx. | |
|---|------------------------------------|------------------|-------|------|-----------|---------------------|-------------------|-----|--------|-----------------------|-------|
| | V | | mm | | | | | | | kg | |
| Industrial relays, 11-pole, MT series | | | | | | | | | | | |
| <i>Individual modules for customer assembly</i> | | | | | | | | | | | |
| Industrial relays with test bracket | | | | | | | | | | | |
|  | without LED | 24 DC | 3 | 35.5 | A | LZX:MT321024 | | 1 | 1 unit | 101 | 0.088 |
| | with LED | | | | | LZX:MT323024 | | 1 | 1 unit | 101 | 0.088 |
| LZX:MT326024 | without LED | 24 AC | 3 | 35.5 | A | LZX:MT326024 | | 1 | 1 unit | 101 | 0.089 |
| | with LED | | | | C | LZX:MT328024 | | 1 | 1 unit | 101 | 0.089 |
|  | without LED | 115 AC | 3 | 35.5 | C | LZX:MT326115 | | 1 | 1 unit | 101 | 0.087 |
| | with LED | | | | C | LZX:MT328115 | | 1 | 1 unit | 101 | 0.088 |
| LZX:MT78750 | without LED | 230 AC | 3 | 35.5 | A | LZX:MT326230 | | 1 | 1 unit | 101 | 0.089 |
| | with LED | | | | A | LZX:MT328230 | | 1 | 1 unit | 101 | 0.089 |
| Sockets for mounting onto standard mounting rail | | -- | -- | 38 | | LZX:MT78750 | | 1 | 1 unit | 101 | 0.063 |
| Fixing brackets | | -- | -- | | | LZX:MT28800 | | 1 | 1 unit | 101 | 0.001 |

Note:

For coil voltages which are not listed, see SITOP power DC Power Supplies, e.g. 6EP1 331-2AB10 and 6EP1 731-2AB00, in "Power Supplies".

* You can order this quantity or a multiple thereof.

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3TG10 Power Relays/Miniature Contactors

4-pole, 4 kW

Overview

Version

The 3TG10 power relays/miniature contactors with 4 main contacts are available with 6.3 mm ... 0.8 mm screw terminals or flat connectors. The versions with screw terminals are climate-proof and finger-safe in accordance with DIN VDE 0106 Part 100.

The 3TG10 power relays/miniature contactors are small. Their width is 36 mm.

Application

Because they are hum-free they are suitable for use in household appliances and distribution boards in office and residential areas. They can also be used for applications where there is little space such as air conditioners, heating systems, pumps, and fans, i.e. for simple electrical controls.

AC and DC operation

EN 60947-4-1 (VDE 0660 Part 102)

Surge suppression

The 3TG10 power relays/miniature contactors have an integrated protective circuit against opening surges.

Overload and short-circuit protection

The 3UA7 overload relay can be used for overload protection. This applies to mounting onto contactors and to stand-alone installation.

Information about short-circuit protection by means of contactors can be found in the Technical specifications.

Selection and ordering data

| Rated data Utilization category | | Main contacts | | Rated control supply voltage U_s | DT | Order No. | Price per PU | PU (UNIT, SET, M) | PS* | PG | Weight per PU approx. |
|--|---|---|---|------------------------------------|----|-----------|--------------|-------------------|-----|----|-----------------------|
| AC -1 Switching of resistive loads at 55 °C | AC-2 and AC-3 | NO | NC | V | | | | | | | kg |
| Operating current I_e up to 400 V | Power of three-phase loads at 50 Hz and 400 V | Operating current I_e up to 400 V ¹⁾ | Power of three-phase loads at 50 Hz and 400 V | Version | | | | | | | |
| A | kW | A | kW | NO NC | V | | | | | | |

With screw terminals, 4-pole
For screw and snap-on mounting onto 35 mm standard mounting rail - hum-free

AC operation, 45 ... 450 Hz



| | | | | | | | | | | | |
|----|----|-----|---|------|-----|---|----------------------|---|--------|-----|-------|
| 20 | 13 | 8.4 | 4 | 4 -- | 24 | ▶ | 3TG10 10-0AC2 | 1 | 1 unit | 101 | 0.157 |
| | | | | | 110 | A | 3TG10 10-0AG2 | 1 | 1 unit | 101 | 0.158 |
| | | | | | 230 | ▶ | 3TG10 10-0AL2 | 1 | 1 unit | 101 | 0.156 |
| | | | | 3 1 | 24 | ▶ | 3TG10 01-0AC2 | 1 | 1 unit | 101 | 0.157 |
| | | | | | 110 | D | 3TG10 01-0AG2 | 1 | 1 unit | 101 | 0.158 |
| | | | | | 230 | ▶ | 3TG10 01-0AL2 | 1 | 1 unit | 101 | 0.157 |

DC operation

3TG10 ...0...

| | | | | | | | | | | | |
|----|----|-----|---|------|----|---|----------------------|---|--------|-----|-------|
| 20 | 13 | 8.4 | 4 | 4 -- | 24 | ▶ | 3TG10 10-0BB4 | 1 | 1 unit | 101 | 0.157 |
| | | | | 3 1 | 24 | ▶ | 3TG10 01-0BB4 | 1 | 1 unit | 101 | 0.157 |

With 6.3 x 0.8 mm flat connectors, 4-pole
For screw and snap-on mounting onto 35 mm standard mounting rail - hum-free

AC operation, 45 ... 450 Hz



| | | | | | | | | | | | |
|----|----|-----|---|------|-----|---|----------------------|---|--------|-----|-------|
| 16 | 10 | 8.4 | 4 | 4 -- | 24 | D | 3TG10 10-1AC2 | 1 | 1 unit | 101 | 0.146 |
| | | | | | 110 | D | 3TG10 10-1AG2 | 1 | 1 unit | 101 | 0.146 |
| | | | | | 230 | ▶ | 3TG10 10-1AL2 | 1 | 1 unit | 101 | 0.145 |
| | | | | 3 1 | 24 | D | 3TG10 01-1AC2 | 1 | 1 unit | 101 | 0.147 |
| | | | | | 110 | D | 3TG10 01-1AG2 | 1 | 1 unit | 101 | 0.146 |
| | | | | | 230 | ▶ | 3TG10 01-1AL2 | 1 | 1 unit | 101 | 0.144 |

DC operation

3TG10 ...-1...

| | | | | | | | | | | | |
|----|----|-----|---|------|----|---|----------------------|---|--------|-----|-------|
| 16 | 10 | 8.4 | 4 | 4 -- | 24 | D | 3TG10 10-1BB4 | 1 | 1 unit | 101 | 0.146 |
| | | 8.4 | 4 | 3 1 | 24 | D | 3TG10 01-1BB4 | 1 | 1 unit | 101 | 0.146 |

Accessories and Spare Parts For 3RT, 3RH Contactors and Contactor Relays

Accessories for 3RT, 3RH contactors and contactor relays

Overview

Snap-on auxiliary contact blocks

The auxiliary switch blocks and the maximum number of blocks that can be mounted are described in "Motor Contactors" and "Contactor Relays".

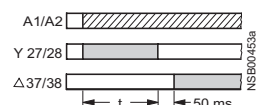
Solid-state time-delay auxiliary switch block

The timer module, which is available in "ON-delay" and "OFF-delay" versions, allows time-delayed functions up to 100 s (3 distinct delay ranges).

It contains a relay with one NO contact and one NC contact; depending on the version, the relay is switched either after an ON-delay or after an OFF-delay.

The timer module with "WYE-DELTA FUNCTION" is equipped with one delayed and one instantaneous NO contact, with an interval time of 50 ms between the two. The delay time of the NO contact can be set between 1.5 s and 30 s.

Wye-delta function:



The contactor on which the solid-state, time-delay auxiliary switch block is mounted operates without a delay.

Size S00

The solid-state, time-delay auxiliary switch block is fitted onto the front of the contactor. The timer module is supplied with power directly by plug-in contacts through the coil terminals of the contactor, in parallel with A1/A2. The timing function is activated by closing the contactor on which the auxiliary switch block is mounted. The OFF-delay variant operates without an auxiliary power supply; minimum on-time: 200 ms.

A varistor is integrated in the timer module in order to damp opening surges in the contactor coil.

The solid-state, time-delay auxiliary switch block cannot be mounted on size S00 coupling relays.

Sizes S0 to S12

The solid-state, time-delay auxiliary switch block is fitted onto the front of the contactor.

The timer module is supplied with power through two terminals (A1/A2); the time delay of the auxiliary switch block can be activated either by a parallel link to any contactor coil or by any power source.

The OFF-delay variant operates without an auxiliary power supply; minimum on-time: 200 ms.

A single-pole auxiliary switch block can be snapped onto the front of the contactor in addition to the timer module.

The timer module has no integrated components for damping opening surges.

Solid-state time-delay block with semiconductor output

The timer module, which is available in "ON-delay" and "OFF-delay with auxiliary voltage" versions, allows time-delayed functions up to 100 s (3 distinct delay ranges). Contactors fitted with a time-delay block close or open after a delay according to the set time.

The ON-delay variant of the timing relay is connected in series with the contactor coil; terminal A1 of this coil must not be connected.

With the OFF-delay variant of the timing relay, the contactor coil is contacted directly through the relay; terminals A1 and A2 of the contactor coil must not be connected.

The timing relays are suitable for both AC and DC operation.

Size S00

The version for size S00 contactors is fitted onto the front of the contactor (with the supply voltage switched off) and then slid into its latched position; at the same time, the timing relay is connected by means of plug-in contacts to coil terminals A1 and A2 of the contactor. Any contactor coil terminals which are not required are sealed off by means of covers on the enclosure of the time-delay block, to prevent them from being connected inadvertently.

A varistor is integrated in the timer module in order to damp opening surges in the contactor coil.

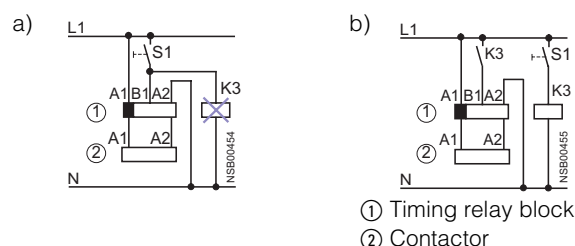
The solid-state, time-delay block cannot be mounted on size S00 coupling relays.

Sizes S0 to S3

The time-delay block for size S0 to S3 contactors is plugged into coil terminals A1 and A2 on top of each contactor; the timing relay is connected both electrically and mechanically by means of pins.

A varistor is integrated in the timer module in order to damp opening surges in the contactor coil.

Note on configuration



The activation of loads parallel to the start input is not permissible when using AC control voltage (see (a) in the circuit diagram).

The 3RT19 16-2D... / 3RT19 26-2D... OFF-delay timing relay blocks have a zero potential start input B1. This means that if there is a parallel load on terminal B1, activation can be simulated with AC voltage. In this case, the additional load (e.g. contactor K3) must be wired in accordance with (b).

OFF-delay device for size S00 to S3 contactors

AC and DC operation

IEC 60947, EN 60947

For screw and snap-on mounting onto 35 mm standard mounting rail. The OFF-delay devices have screw terminals.

The OFF-delay device prevents a contactor from dropping out unintentionally when there is a short-time voltage dip or voltage failure. It supplies a downstream, DC-operated contactor with the necessary power during a voltage dip, ensuring that the contactor does not trip. The 3RT19 16 OFF-delay devices are specifically designed for operation with the 3RT contactors and 3RH contactor relays of the SIRIUS series.

The OFF-delay device operates without external voltage on a capacitive basis, and can be energized with either AC or DC (24 V version only for DC operation). Voltage matching, which is only necessary with AC operation, is performed using a rectifier bridge.

A contactor opens after a delay when the capacitors of the contactor coil, built into the OFF-delay device, are switched in parallel. In the event of voltage failures, the capacitors are discharged via the coil and thereby delay the opening of the contactor.

Accessories and Spare Parts For 3RT, 3RH Contactors and Contactor Relays

Accessories for 3RT, 3RH contactors and contactor relays

If the command devices are upstream of the OFF-delay device in the circuit, the OFF-delay takes effect with every opening operation. If the opening operation is downstream of the OFF-delay device, an OFF-delay only applies in the event of failure of the mains voltage.

Operation

In the case of the versions for rated control supply voltages of 110 V and 230 V, either AC voltage or DC voltage can be applied on the line side, whereas the variant for 24 V is designed for DC operation only.

A DC-operated contactor is connected to the output in accordance with the input voltage that is applied.

The mean value of the OFF-delay is approximately 1.5 times the specified minimum time.

Surge suppressors

- Without LED (also for Cage Clamp terminals)
Sizes S00, S0, S2, S3, S6 to S12
- With LED (also for Cage Clamp terminals)
Size S00

All 3RT1 contactors and 3RH1 contactor relays can be retrofitted with RC elements or varistors for damping opening surges in the coil. Diodes or diode assemblies (comprising noise suppression diodes and Zener diodes for rapid switch-off) can be used.

The surge suppressors are plugged onto the front of size S00 contactors. Space is provided for them next to a snap-on auxiliary switch block.

With all size S0 to S3 contactors, varistors, RC elements and diode assemblies can be plugged on directly at the coil terminals, either on the top or underneath.

The plug-in direction of the diodes and diode assemblies is determined by a coding device.

Coupling relays are supplied either without overvoltage damping or with a varistor or diode connected as standard, according to the version.

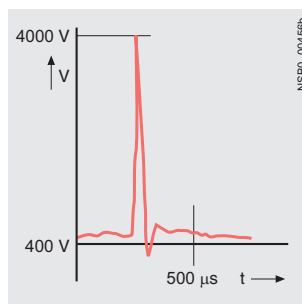
Note:

The OFF-delay times of the NO contacts and the ON-delay times of the NC contacts increase if the contactor coils are damped against voltage peaks (noise suppression diode 6 to 10 times; diode assemblies 2 to 6 times, varistor +2 to 5 ms).

Electromagnetic interference suppression module, 3-phase for size S00 contactors



A so-called counter-e.m.f. (electromotive force) is produced when motors or various inductive loads are turned off. Voltage peaks of up to 4000 V may occur as a result, with a frequency spectrum from 1 kHz to 10 MHz and a rate of voltage variation from 0.1 to 20 V/ns.



Capacitive input to various analog and digital signals makes it necessary to suppress interference in the load circuit.

Reducing contact arcing

The connection between the main conducting path and the EMC interference suppression module enables contact arcing, which is responsible for contact erosion and the majority of clicking noises, to be reduced; this in turn is conducive to an electromagnetically compatible design.

Higher operational reliability

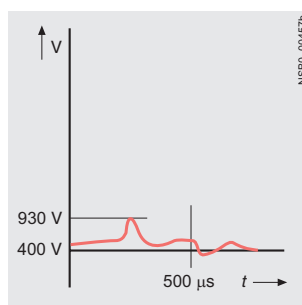
Since the EMC interference suppression module achieves a significant reduction in radio-frequency components and the voltage level in three phases, the contact endurance is also improved considerably. This makes an important contribution towards enhancing the reliability and availability of the system as a whole.

Dispensing with fine graduations

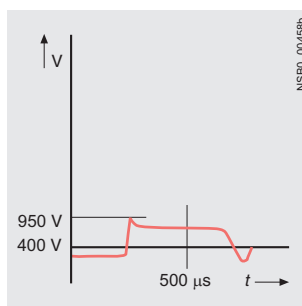
There is no need for fine graduations within each performance class, as smaller motors inherently have a higher inductance, so that one solution for all fixed-speed drives up to 5.5 kW is adequate.

Two electrical variants are available:

- The advantages of the RC circuit lie mainly in the reduction in the rate of rise and in its RF damping ability. The selected values ensure effective interference suppression over a wide range.



- The varistor circuit can absorb a high energy level and can also be used for frequencies ranging from 10 to 400 Hz (closed-loop controlled drives). There is no limiting below the knee-point voltage, however.



Accessories and Spare Parts For 3RT, 3RH Contactors and Contactor Relays

Accessories for 3RT, 3RH contactors and contactor relays

Additional load module

- Size S00 for plugging onto the front of the contactors with and without auxiliary switch block

Coupling links for mounting on contactors of sizes S0 to S3

DC operation

IEC 60947 and EN 60947

The coupling link is suitable for use in any climate. It is finger-safe according to EN 50274. The terminal designations comply with EN 50005.

System-compatible operation with 24 DC V, operating range 17 V to 30 V.

Low power consumption in conformity with the technical specifications of the solid-state systems. A light-emitting diode indicates the circuit state.

Surge suppression

The 3RH19 24-1GP11 coupling link has an integrated surge suppressor (varistor) for the contactor coil being switched.

Mounting

The 3RH19 24-1GP11 coupling link is mounted directly on the contactor coil.

Solder pin adapters

The solder pin adapters for the size S00 contactors are available in two versions:

- Solder pin adapter for contactors with one integrated auxiliary contact
- Solder pin adapter for contactors with mounted 4-pole auxiliary switch block

Screw adapters

Plug-on adapters improve the accessibility of the screw fixing for size S0 contactors. As a result it is possible to position the screwdriver vertically even when using insulated screwdrivers or power screwdrivers.

Optionally the adapters can be rotated through 90° before mounting.

Sealable covers for sizes S00 to S12

When contactors and contactor relays are used in safety-oriented applications, it must be ensured that it is impossible to operate the contactors manually.

For SIRIUS contactors there are sealable covers available for this purpose as accessories; these prevent accidental manual operation. These are transparent molded-plastic caps with a bracket that enables the contactor to be sealed.

Accessories and Spare Parts For 3RT, 3RH Contactors and Contactor Relays

Accessories for 3RT, 3RH contactors and contactor relays

Selection and ordering data



3RH19 11-1HA..
3RH19 11-1FA..



3RH19 21-1HA..



3RH19 11-1AA..



3RH19 11-1LA..

| For contactors | Auxiliary contacts | DT | Screw terminals | PU (UNIT, SET, M) | PS* | PG | Weight per PU approx. |
|----------------|--|----|-----------------|-------------------|-----|----|-----------------------|
| Ident. No. | Version | | Order No. | Price per PU | | | kg |
| Type | NO NC NO NC | | | | | | |

Auxiliary switch blocks for snapping onto the front according to EN 50012

Size S00

For assembling contactors with 2, 4 and 5 auxiliary contacts

| | | | | | | | | | | | |
|--|-------------|----|---|----|----|---|-----------------------|---|--------|-----|-------|
| 3RT10 1.-1...1, 3RT10 1.-2...1 Ident. No. 10 E | 11 E | -- | 1 | -- | -- | ▶ | 3RH19 11-1HA01 | 1 | 1 unit | 101 | 0.035 |
| | 22 E | 1 | 2 | -- | -- | ▶ | 3RH19 11-1HA12 | 1 | 1 unit | 101 | 0.046 |
| | 23 E | 1 | 3 | -- | -- | ▶ | 3RH19 11-1HA13 | 1 | 1 unit | 101 | 0.051 |
| | 32 E | 2 | 2 | -- | -- | ▶ | 3RH19 11-1HA22 | 1 | 1 unit | 101 | 0.052 |

Sizes S0 ... S12¹⁾

4-pole

| | | | | | | | | | | | |
|---------------------------------|------------------------|---|---|----|----|-----|----------------------------|---|--------|-----|-------|
| 3RT10 2, 3RT1. 3 ... 3RT1. 7 | 31 | 3 | 1 | -- | -- | ▶ | 3RH19 21-1HA31 | 1 | 1 unit | 101 | 0.074 |
| | 22 | 2 | 2 | -- | -- | ▶ | 3RH19 21-1HA22 | 1 | 1 unit | 101 | 0.073 |
| | 13 | 1 | 3 | -- | -- | ▶ | 3RH19 21-1HA13 | 1 | 1 unit | 101 | 0.073 |
| | 22²⁾ | 2 | 2 | -- | -- | B ▶ | 3RH19 21-1XA22-0MA0 | 1 | 1 unit | 101 | 0.073 |

Auxiliary switch blocks for snapping onto the front according to EN 50005

Size S00

2 or 4-pole auxiliary switch blocks for assembling contactors with 3 and 5 auxiliary contacts

| | | | | | | | | | | | |
|-----------------------------|-----------------|----|----|----|----|---|-----------------------|---|--------|-----|-------|
| 3RT1. 1, 3RH11, 3RH14 | 20 | 2 | -- | -- | -- | ▶ | 3RH19 11-1FA20 | 1 | 1 unit | 101 | 0.041 |
| | 11 | 1 | 1 | -- | -- | ▶ | 3RH19 11-1FA11 | 1 | 1 unit | 101 | 0.041 |
| | 02 | -- | 2 | -- | -- | ▶ | 3RH19 11-1FA02 | 1 | 1 unit | 101 | 0.040 |
| | 11 U | -- | -- | 1 | 1 | ▶ | 3RH19 11-1FB11 | 1 | 1 unit | 101 | 0.040 |
| | 40 | 4 | -- | -- | -- | ▶ | 3RH19 11-1FA40 | 1 | 1 unit | 101 | 0.052 |
| | 31 | 3 | 1 | -- | -- | ▶ | 3RH19 11-1FA31 | 1 | 1 unit | 101 | 0.052 |
| | 22 | 2 | 2 | -- | -- | ▶ | 3RH19 11-1FA22 | 1 | 1 unit | 101 | 0.052 |
| | 22 U | -- | -- | 2 | 2 | ▶ | 3RH19 11-1FC22 | 1 | 1 unit | 101 | 0.052 |
| | 11, 11 U | 1 | 1 | 1 | 1 | ▶ | 3RH19 11-1FB22 | 1 | 1 unit | 101 | 0.052 |

1 and 2-pole auxiliary switch blocks. Cable entry from one side

• Cable entry from above

| | | | | | | | | | | | |
|-----------------------------|----|----|----|----|----|---|-----------------------|---|--------|-----|-------|
| 3RT1. 1, 3RH11, 3RH14 | -- | 1 | -- | -- | -- | ▶ | 3RH19 11-1AA10 | 1 | 1 unit | 101 | 0.016 |
| | -- | -- | 1 | -- | -- | ▶ | 3RH19 11-1AA01 | 1 | 1 unit | 101 | 0.016 |
| | -- | 1 | 1 | -- | -- | ▶ | 3RH19 11-1LA11 | 1 | 1 unit | 101 | 0.052 |
| | -- | 2 | -- | -- | -- | ▶ | 3RH19 11-1LA20 | 1 | 1 unit | 101 | 0.052 |

• Cable entry from below

| | | | | | | | | | | | |
|-----------------------------|----|----|----|----|----|---|-----------------------|---|--------|-----|-------|
| 3RT1. 1, 3RH11, 3RH14 | -- | 1 | -- | -- | -- | ▶ | 3RH19 11-1BA10 | 1 | 1 unit | 101 | 0.015 |
| | -- | -- | 1 | -- | -- | ▶ | 3RH19 11-1BA01 | 1 | 1 unit | 101 | 0.016 |
| | -- | 1 | 1 | -- | -- | ▶ | 3RH19 11-1MA11 | 1 | 1 unit | 101 | 0.052 |
| | -- | 2 | -- | -- | -- | ▶ | 3RH19 11-1MA20 | 1 | 1 unit | 101 | 0.053 |

For multi-unit packing and reusable packaging, see Appendix -> Ordering Notes.

1) Exception: 3RT16.

2) With location digits 5, 6, 7, 8.

* You can order this quantity or a multiple thereof.

Accessories and Spare Parts For 3RT, 3RH Contactors and Contactor Relays

Accessories for 3RT, 3RH contactors and contactor relays



3RH19 11-2HA .



3RH19 21-2HA .
3RH19 21-2FA..

| For contactors | Auxiliary contacts | DT | Cage Clamp terminals | PU (UNIT, SET, M) | PS* | PG | Weight per PU approx. |
|----------------|--------------------|---------|----------------------|-------------------------|-----|----|-----------------------------|
| Type | Ident. No. | Version | Order No. | Price per PU | | | kg |
| | | | | | | | |

**Auxiliary switch blocks for snapping onto the front
according to EN 50012**

Size S00

For assembling contactors with 2, 4 and 5 auxiliary contacts

| | | | | | | | | | | | |
|--|-------------|----|---|----|----|---|-----------------------|---|--------|-----|-------|
| 3RT10 1.-1...1, 3RT10 1.-2...1 Ident. No. 10 E | 11 E | -- | 1 | -- | -- | ▶ | 3RH19 11-2HA01 | 1 | 1 unit | 101 | 0.040 |
| | 22 E | 1 | 2 | -- | -- | ▶ | 3RH19 11-2HA12 | 1 | 1 unit | 101 | 0.052 |
| | 23 E | 1 | 3 | -- | -- | ▶ | 3RH19 11-2HA13 | 1 | 1 unit | 101 | 0.058 |
| | 32 E | 2 | 2 | -- | -- | ▶ | 3RH19 11-2HA22 | 1 | 1 unit | 101 | 0.059 |

Sizes S0 ... S12¹⁾

| | 4-pole | | | | | | | | | | |
|---------------------------------|------------------------|---|---|----|----|---|----------------------------|---|--------|-----|-------|
| 3RT10 2, 3RT1. 3 ... 3RT1. 7 | 31 | 3 | 1 | -- | -- | ▶ | 3RH19 21-2HA31 | 1 | 1 unit | 101 | 0.070 |
| | 22 | 2 | 2 | -- | -- | ▶ | 3RH19 21-2HA22 | 1 | 1 unit | 101 | 0.069 |
| | 13 | 1 | 3 | -- | -- | ▶ | 3RH19 21-2HA13 | 1 | 1 unit | 101 | 0.068 |
| | 22²⁾ | 2 | 2 | -- | -- | D | 3RH19 21-2XA22-0MA0 | 1 | 1 unit | 101 | 0.071 |

**Auxiliary switch blocks for snapping onto the front
according to EN 50005**

Size S00

2 and 4-pole auxiliary switch blocks for assembling contactors with 3 and 5 auxiliary contacts

| | | | | | | | | | | | |
|-----------------------------|-----------------|----|----|----|----|---|-----------------------|---|--------|-----|-------|
| 3RT1. 1, 3RH11, 3RH14 | 20 | 2 | -- | -- | -- | ▶ | 3RH19 11-2FA20 | 1 | 1 unit | 101 | 0.045 |
| | 11 | 1 | 1 | -- | -- | ▶ | 3RH19 11-2FA11 | 1 | 1 unit | 101 | 0.045 |
| | 02 | -- | 2 | -- | -- | ▶ | 3RH19 11-2FA02 | 1 | 1 unit | 101 | 0.046 |
| | 11 U | -- | -- | 1 | 1 | A | 3RH19 11-2FB11 | 1 | 1 unit | 101 | 0.046 |
| | 40 | 4 | -- | -- | -- | ▶ | 3RH19 11-2FA40 | 1 | 1 unit | 101 | 0.059 |
| | 31 | 3 | 1 | -- | -- | ▶ | 3RH19 11-2FA31 | 1 | 1 unit | 101 | 0.057 |
| | 22 | 2 | 2 | -- | -- | ▶ | 3RH19 11-2FA22 | 1 | 1 unit | 101 | 0.058 |
| | 22 U | -- | -- | 2 | 2 | ▶ | 3RH19 11-2FC22 | 1 | 1 unit | 101 | 0.058 |
| | 11, 11 U | 1 | 1 | 1 | 1 | B | 3RH19 11-2FB22 | 1 | 1 unit | 101 | 0.058 |

For multi-unit packing and reusable packaging,
see Appendix -> Ordering Notes.

- 1) Exception: 3RT16.
2) With location digits 5, 6, 7, 8

* You can order this quantity or a multiple thereof.

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Accessories and Spare Parts For 3RT, 3RH Contactors and Contactor Relays

Accessories for 3RT, 3RH contactors and contactor relays



3RH19 21-1F..



3RH19 21-1C..



3RH19 21-1LA..



3RH19 21-1MA..

| For contactors | Auxiliary contacts | DT | Screw terminals | PU (UNIT, SET, M) | PS* | PG | Weight per PU approx. |
|----------------|--------------------|----|-----------------|-------------------|-----|----|-----------------------|
| Ident. No. | Version | | Order No. | Price per PU | | | |
| Type | NO NC NO NC | | | | | | kg |

Auxiliary switch blocks for snapping onto the front according to EN 50005

Sizes S0 to S12¹⁾

4-pole auxiliary switch blocks

| | | | | | | | | | | | |
|----------|-------------|----|----|----|----|---|-----------------------|---|--------|-----|-------|
| 3RT1. 2, | 40 | 4 | -- | -- | -- | ▶ | 3RH19 21-1FA40 | 1 | 1 unit | 101 | 0.074 |
| 3RT1. 3 | 31 | 3 | 1 | -- | -- | ▶ | 3RH19 21-1FA31 | 1 | 1 unit | 101 | 0.074 |
| ... | 22 | 2 | 2 | -- | -- | ▶ | 3RH19 21-1FA22 | 1 | 1 unit | 101 | 0.073 |
| 3RT1. 7 | 04 | -- | 4 | -- | -- | ▶ | 3RH19 21-1FA04 | 1 | 1 unit | 101 | 0.072 |
| | 22 U | -- | -- | 2 | 2 | ▶ | 3RH19 21-1FC22 | 1 | 1 unit | 101 | 0.074 |

1-pole auxiliary switch blocks to EN 50005 and EN 50012

| | | | | | | | | | | | |
|---------|----|----|----|----|----|---|-----------------------|---|--------|-----|-------|
| 3RT1. 2 | -- | 1 | -- | -- | -- | ▶ | 3RH19 21-1CA10 | 1 | 1 unit | 101 | 0.020 |
| ... | -- | -- | 1 | -- | -- | ▶ | 3RH19 21-1CA01 | 1 | 1 unit | 101 | 0.019 |
| 3RT1. 7 | -- | -- | -- | 1 | -- | ▶ | 3RH19 21-1CD10 | 1 | 1 unit | 101 | 0.020 |
| | -- | -- | -- | -- | 1 | ▶ | 3RH19 21-1CD01 | 1 | 1 unit | 101 | 0.019 |

2-pole auxiliary switch blocks with cable entry from one side

• Cable entry from above

| | | | | | | | | | | | |
|----------|----|----|----|----|----|---|-----------------------|---|--------|-----|-------|
| 3RT1. 2, | -- | 1 | 1 | -- | -- | ▶ | 3RH19 21-1LA11 | 1 | 1 unit | 101 | 0.074 |
| 3RT1. 3 | -- | 2 | -- | -- | -- | ▶ | 3RH19 21-1LA20 | 1 | 1 unit | 101 | 0.075 |
| ... | -- | -- | 2 | -- | -- | ▶ | 3RH19 21-1LA02 | 1 | 1 unit | 101 | 0.074 |
| 3RT1. 7 | -- | -- | -- | -- | -- | ▶ | | | | | |

• Cable entry from below

| | | | | | | | | | | | |
|----------|----|----|----|----|----|---|-----------------------|---|--------|-----|-------|
| 3RT1. 2, | -- | 1 | 1 | -- | -- | ▶ | 3RH19 21-1MA11 | 1 | 1 unit | 101 | 0.074 |
| 3RT1. 3 | -- | 2 | -- | -- | -- | ▶ | 3RH19 21-1MA20 | 1 | 1 unit | 101 | 0.076 |
| ... | -- | -- | 2 | -- | -- | ▶ | 3RH19 21-1MA02 | 1 | 1 unit | 101 | 0.073 |
| 3RT1. 7 | -- | -- | -- | -- | -- | ▶ | | | | | |

1) Exception: 3RT16.



2RH19 21-2F..



3RH19 21-2C..

| For contactors | Auxiliary contacts | DT | Cage Clamp terminals | PU (UNIT, SET, M) | PS* | PG | Weight per PU approx. |
|----------------|--------------------|----|----------------------|-------------------|-----|----|-----------------------|
| Ident. No. | Version | | Order No. | Price per PU | | | |
| Type | NO NC NO NC | | | | | | kg |

Auxiliary switch blocks for snapping onto the front according to EN 50005

Sizes S0 to S12¹⁾

4-pole auxiliary switch blocks

| | | | | | | | | | | | |
|----------|-------------|----|----|----|----|---|-----------------------|---|--------|-----|-------|
| 3RT1. 2, | 40 | 4 | -- | -- | -- | ▶ | 3RH19 21-2FA40 | 1 | 1 unit | 101 | 0.071 |
| 3RT1. 3 | 31 | 3 | 1 | -- | -- | ▶ | 3RH19 21-2FA31 | 1 | 1 unit | 101 | 0.070 |
| ... | 22 | 2 | 2 | -- | -- | ▶ | 3RH19 21-2FA22 | 1 | 1 unit | 101 | 0.069 |
| 3RT1. 7 | 04 | -- | 4 | -- | -- | A | 3RH19 21-2FA04 | 1 | 1 unit | 101 | 0.068 |
| | 22 U | -- | -- | 2 | 2 | A | 3RH19 21-2FC22 | 1 | 1 unit | 101 | 0.069 |

1-pole auxiliary switch blocks to EN 50005 and EN 50012

| | | | | | | | | | | | |
|---------|----|----|----|----|----|---|-----------------------|---|--------|-----|-------|
| 3RT1. 2 | -- | 1 | -- | -- | -- | ▶ | 3RH19 21-2CA10 | 1 | 1 unit | 101 | 0.018 |
| ... | -- | -- | 1 | -- | -- | ▶ | 3RH19 21-2CA01 | 1 | 1 unit | 101 | 0.017 |
| 3RT1. 7 | -- | -- | -- | -- | -- | ▶ | | | | | |

1) Exception: 3RT16.



Accessories and Spare Parts For 3RT, 3RH Contactors and Contactor Relays

Accessories for 3RT, 3RH contactors and
contactor relays

Snap-on auxiliary switch blocks according to EN 50011 for assembling contactor relays with 8 contacts.



3RH19 11-1GA..

| For contactor relays | Contacts | DT | Screw terminals | PU (UNIT, SET, M) | PS* | PG | Weight per PU approx. |
|----------------------|------------|---|-----------------|-------------------------|-----|----|-----------------------------|
| | Ident. No. | Version | Order No. | Price per PU | | | kg |
| | |  NO  NC | | | | | |

Snap-on auxiliary switch blocks according to EN 50011



For assembling contactor relays with 8 contacts

| | | | | | | | | | |
|--|-------------|----|----|---|-----------------------|---|--------|-----|-------|
| 3RH11 40, 3RH14 40 (Ident. No. 40 E) | 80 E | 4 | -- | ▶ | 3RH19 11-1GA40 | 1 | 1 unit | 101 | 0.052 |
| | 71 E | 3 | 1 | ▶ | 3RH19 11-1GA31 | 1 | 1 unit | 101 | 0.052 |
| | 62 E | 2 | 2 | ▶ | 3RH19 11-1GA22 | 1 | 1 unit | 101 | 0.052 |
| | 53 E | 1 | 3 | ▶ | 3RH19 11-1GA13 | 1 | 1 unit | 101 | 0.052 |
| | 44 E | -- | 4 | ▶ | 3RH19 11-1GA04 | 1 | 1 unit | 101 | 0.052 |

For multi-unit packing and reusable packaging,
see Appendix -> Ordering Notes.



3RH19 11-2GA..

| For contactor relays | Contacts | DT | Cage Clamp terminals | PU (UNIT, SET, M) | PS* | PG | Weight per PU approx. |
|----------------------|------------|---|----------------------|-------------------------|-----|----|-----------------------------|
| | Ident. No. | Version | Order No. | Price per PU | | | kg |
| | |  NO  NC | | | | | |

Snap-on auxiliary switch blocks according to EN 50011

For assembling contactor relays with 8 contacts

| | | | | | | | | | |
|--------------------------------|-------------|----|----|---|-----------------------|---|--------|-----|-------|
| 3RH11 40, (Ident. No. 40 E) | 80 E | 4 | -- | ▶ | 3RH19 11-2GA40 | 1 | 1 unit | 101 | 0.059 |
| | 71 E | 3 | 1 | ▶ | 3RH19 11-2GA31 | 1 | 1 unit | 101 | 0.059 |
| | 62 E | 2 | 2 | ▶ | 3RH19 11-2GA22 | 1 | 1 unit | 101 | 0.058 |
| | 53 E | 1 | 3 | ▶ | 3RH19 11-2GA13 | 1 | 1 unit | 101 | 0.058 |
| | 44 E | -- | 4 | ▶ | 3RH19 11-2GA04 | 1 | 1 unit | 101 | 0.058 |

For multi-unit packing and reusable packaging,
see Appendix -> Ordering Notes.

* You can order this quantity or a multiple thereof.

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Accessories and Spare Parts For 3RT, 3RH Contactors and Contactor Relays



Accessories for 3RT, 3RH contactors and contactor relays



3RH19 21-1DA11
3RH19 21-1JA11



3RH19 21-1EA..
3RH19 21-1KA..

| For contactors | Auxiliary contacts | DT | Screw terminals | PU (UNIT, SET, M) | PS* | PG | Weight per PU approx. |
|----------------|---|----|-----------------|-------------------|-----|----|-----------------------|
| Type | Version | | Order No. | Price per PU | | | kg |
| |  NO  NC | | | | | | |

Laterally mountable auxiliary switch blocks according to EN 50012

Sizes S0 ... S12

First laterally mountable auxiliary switch block (right or left), 2-pole

| | | | | | | | |
|---------------------|---|---|------------------|---|--------|-----|-------|
| 3RT1. 2 ... 3RT1. 7 | 1 | 1 | ▶ 3RH19 21-1DA11 | 1 | 1 unit | 101 | 0.047 |
|---------------------|---|---|------------------|---|--------|-----|-------|

Sizes S3 ... S12

Second laterally mountable auxiliary switch block (right or left), 2-pole

| | | | | | | | |
|---------------------|---|---|------------------|---|--------|-----|-------|
| 3RT1. 4 ... 3RT1. 7 | 1 | 1 | ▶ 3RH19 21-1JA11 | 1 | 1 unit | 101 | 0.047 |
|---------------------|---|---|------------------|---|--------|-----|-------|

Laterally mountable auxiliary switch blocks according to EN 50005

Sizes S0 ... S12

First laterally mountable auxiliary switch block (right or left), 2-pole

| | | | | | | | |
|---------------------|----|----|------------------|---|--------|-----|-------|
| 3RT1. 2 ... 3RT1. 7 | 2 | -- | ▶ 3RH19 21-1EA20 | 1 | 1 unit | 101 | 0.048 |
| | 1 | 1 | ▶ 3RH19 21-1EA11 | 1 | 1 unit | 101 | 0.048 |
| | -- | 2 | ▶ 3RH19 21-1EA02 | 1 | 1 unit | 101 | 0.048 |

Sizes S3 ... S12

Second laterally mountable auxiliary switch block (right or left), 2-pole

| | | | | | | | |
|---------------------|----|----|------------------|---|--------|-----|-------|
| 3RT1. 4 ... 3RT1. 7 | 2 | -- | ▶ 3RH19 21-1KA20 | 1 | 1 unit | 101 | 0.048 |
| | 1 | 1 | ▶ 3RH19 21-1KA11 | 1 | 1 unit | 101 | 0.048 |
| | -- | 2 | ▶ 3RH19 21-1KA02 | 1 | 1 unit | 101 | 0.048 |

Accessories and Spare Parts For 3RT, 3RH Contactors and Contactor Relays



Accessories for 3RT, 3RH contactors and contactor relays



3RH19 21-2DA11
3RH19 21-2JA11



3RH19 21-2EA..
3RH19 21-2KA..

| For contactors | Auxiliary contacts | DT | Cage Clamp terminals | PU (UNIT, SET, M) | PS* | PG | Weight per PU approx. |
|----------------|---|----|----------------------|-------------------|-----|----|-----------------------|
| Type | Version | | Order No. | Price per PU | | | kg |
| |   | | | | | | |

Laterally mountable auxiliary switch blocks according to EN 50012

Sizes S0 ... S12

First laterally mountable auxiliary switch block (right or left), 2-pole

| | | | | | | | | |
|---------------------|---|---|---|----------------|---|--------|-----|-------|
| 3RT1. 2 ... 3RT1. 7 | 1 | 1 | ▶ | 3RH19 21-2DA11 | 1 | 1 unit | 101 | 0.050 |
|---------------------|---|---|---|----------------|---|--------|-----|-------|

Sizes S3 ... S12

Second laterally mountable auxiliary switch block (right or left), 2-pole

| | | | | | | | | |
|---------------------|---|---|---|----------------|---|--------|-----|-------|
| 3RT1. 4 ... 3RT1. 7 | 1 | 1 | B | 3RH19 21-2JA11 | 1 | 1 unit | 101 | 0.051 |
|---------------------|---|---|---|----------------|---|--------|-----|-------|

Laterally mountable auxiliary switch blocks according to EN 50005

Sizes S0 ... S12

First laterally mountable auxiliary switch block (right or left), 2-pole

| | | | | | | | | |
|---------------------|----|----|---|----------------|---|--------|-----|-------|
| 3RT1. 2 ... 3RT1. 7 | 2 | -- | ▶ | 3RH19 21-2EA20 | 1 | 1 unit | 101 | 0.050 |
| | -- | 2 | ▶ | 3RH19 21-2EA02 | 1 | 1 unit | 101 | 0.051 |

Sizes S3 ... S12

Second laterally mountable auxiliary switch block (right or left), 2-pole





| | | | | | | | | |
|---------------------|----|----|---|----------------|---|--------|-----|-------|
| 3RT1. 4 ... 3RT1. 7 | 2 | -- | C | 3RH19 21-2KA20 | 1 | 1 unit | 101 | 0.049 |
| | -- | 2 | C | 3RH19 21-2KA02 | 1 | 1 unit | 101 | 0.050 |



3RH19 11-1NF..



3RH19 21-1FE22

| For contactors | Version | Contacts | DT | Screw terminals | PU (UNIT, SET, M) | PS* | PG | Weight per PU approx. |
|----------------|---------|---|----|-----------------|-------------------|-----|----|-----------------------|
| Type | Version |     | | Order No. | Price per PU | | | kg |

Solid-state compatible auxiliary switch blocks, for snapping onto the front, according to EN 50005

Size S00

| | | | | | | | | | | | |
|-----------------------|---|----|----|----|----|---|----------------|---|--------|-----|-------|
| 3RT1. 1, 3RH11, 3RH14 | For use in dusty atmosphere and solid-state circuits with rated operating currents $I_b/AC-14$ and DC-13 from 1 mA to 300 mA at 3 V to 60 V. Hard gold-plated contacts. No mirror contacts. | 1 | -- | -- | 1 | ▶ | 3RH19 11-1NF11 | 1 | 1 unit | 101 | 0.042 |
| | | 2 | -- | -- | -- | ▶ | 3RH19 11-1NF20 | 1 | 1 unit | 101 | 0.041 |
| | | -- | -- | -- | 2 | ▶ | 3RH19 11-1NF02 | 1 | 1 unit | 101 | 0.041 |

Sizes S0 ... S12

| | | | | | | | | | | | |
|---------------------|--|---|---|---|---|---|----------------|---|--------|-----|-------|
| 3RT1. 2 ... 3RT1. 7 | For use in dusty atmosphere and solid-state circuits with rated operating currents $I_b/AC-14$ and DC-13 from 1 mA to 300 mA at 3 V to 60 V. Hard gold-plated contacts. Mirror contacts according to EN 60947-4-1, Appendix F 1 NO + 1 NC standard auxiliary switches: For technical specifications, see LV 1 T. | 1 | 1 | 1 | 1 | ▶ | 3RH19 21-1FE22 | 1 | 1 unit | 101 | 0.073 |
|---------------------|--|---|---|---|---|---|----------------|---|--------|-----|-------|

* You can order this quantity or a multiple thereof.

Accessories and Spare Parts For 3RT, 3RH Contactors and Contactor Relays

Accessories for 3RT, 3RH contactors and contactor relays



3RH19 11-2NF ..



3RH19 21-2JE22



3RH19 21-2DE11
3RH19 21-2JE11

| For contactors | Version | Contacts | DT | Cage Clamp terminals | PU (UNIT, SET, M) | PS* | PG | Weight per PU approx. |
|----------------|---------|--------------------------|----|----------------------|-------------------|-----|----|-----------------------|
| Type | Version | NO NO NC NC | | Order No. | Price per PU | | | kg |

Solid-state compatible auxiliary switch blocks, for snapping onto the front, according to EN 50005

Size S00

| | | | | | | | | | |
|-----------------------------|---|---------------------------------------|--|-------------|---|-------------|----------------------------|-------------------|-------------------------|
| 3RT1. 1, 3RH11, 3RH14 | For use in dusty atmosphere and solid-state circuits with rated operating currents $I_e/AC-14$ and DC-13 from 1 mA to 300 mA at 3 V to 60 V. Hard gold-plated contacts. No mirror contacts. | 1 -- -- 1 2 -- -- -- -- -- -- 2 | | ▶ ▶ ▶ | 3RH19 11-2NF11 3RH19 11-2NF20 3RH19 11-2NF02 | 1 1 1 | 1 unit 1 unit 1 unit | 101 101 101 | 0.047 0.047 0.046 |
|-----------------------------|---|---------------------------------------|--|-------------|---|-------------|----------------------------|-------------------|-------------------------|

Sizes S0 ... S12

| | | | | | | | | | |
|---------------------------|---|---------|---|--|-----------------------|---|--------|-----|-------|
| 3RT1. 2 ... 3RT1. 7 | For use in dusty atmosphere and solid-state circuits with rated operating currents $I_e/AC-14$ and DC-13 from 1 mA to 300 mA at 3 V to 60 V. Hard gold-plated contacts. Mirror contacts according to EN 60947-4-1, Appendix F 1 NO + 1 NC standard auxiliary switches: For technical specifications, see LV 1 T. | 1 1 1 1 | B | | 3RH19 21-2FE22 | 1 | 1 unit | 101 | 0.070 |
|---------------------------|---|---------|---|--|-----------------------|---|--------|-----|-------|

Solid-state compatible auxiliary switch blocks, laterally mountable, according to EN 50012

Sizes S0 ... S12

| | | | | | | | | | |
|---------------------------|---|-----------|---|--|-----------------------|---|--------|-----|-------|
| 3RT1. 2 ... 3RT1. 7 | First laterally mountable auxiliary switch block (right or left), 2-pole 1 NO + 1 NC solid-state compatible auxiliary switches For use in dusty atmosphere and solid-state circuits with rated operating currents $I_e/AC-14$ and DC-13 from 1 mA to 300 mA at 3 V to 60 V. Hard gold-plated contacts. Mirror contacts according to EN 60947-4-1, Appendix F | 1 -- -- 1 | ▶ | | 3RH19 21-2DE11 | 1 | 1 unit | 101 | 0.049 |
|---------------------------|---|-----------|---|--|-----------------------|---|--------|-----|-------|

Sizes S3 ... S12

| | | | | | | | | | |
|---------------------------|--|-----------|---|--|-----------------------|---|--------|-----|-------|
| 3RT1. 4 ... 3RT1. 7 | Second laterally mountable auxiliary switch block (right or left), 2-pole 1 NO + 1 NC solid-state compatible auxiliary switches For use in dusty atmosphere and solid-state circuits with rated operating currents $I_e/AC-14$ and DC-13 from 1 mA to 300 mA at 3 V to 60 V. Hard gold-plated contacts. Mirror contacts according to EN 60947-4-1, Appendix F | 1 -- -- 1 | B | | 3RH19 21-2JE11 | 1 | 1 unit | 101 | 0.052 |
|---------------------------|--|-----------|---|--|-----------------------|---|--------|-----|-------|

Accessories and Spare Parts For 3RT, 3RH Contactors and Contactor Relays

Accessories for 3RT, 3RH contactors and contactor relays

| For contactors | Auxiliary contacts | Rated control supply voltage $U_s^{(1)}$ | Time setting range t | DT | Order No. | Price per PU | PU (UNIT, SET, M) | PS* | PG | Weight per PU approx. |
|----------------|--------------------|--|------------------------|----|-----------|--------------|-------------------|-----|----|-----------------------|
| Type | | V | s | | | | | | | kg |

Solid-state time-delay auxiliary switch blocks, for snapping onto the front, terminal designations according to DIN 46199, Part 5

Size S00



3RT19 16-2....

ON-delay (varistor integrated)

| | | | | | | | | | | |
|---|-------------------------------|-------------------------|------------|------------|----------------|----------------|--------|--------|-------|-------|
| 3RT1. 1, 3RH11 ⁽²⁾ 3RH14 | 1 NO + 1 NC | 24 AC/DC ⁽³⁾ | 0.05 ... 1 | ▶ | 3RT19 16-2EJ11 | 1 | 1 unit | 101 | 0.085 | |
| | | | 0.5 ... 10 | ▶ | 3RT19 16-2EJ21 | 1 | 1 unit | 101 | 0.084 | |
| | | | 5 ... 100 | B | 3RT19 16-2EJ31 | 1 | 1 unit | 101 | 0.086 | |
| | 100 ... 127 AC ⁽³⁾ | 0.05 ... 1 | C | 0.5 ... 10 | ▶ | 3RT19 16-2EC11 | 1 | 1 unit | 101 | 0.087 |
| | | | | 0.5 ... 10 | ▶ | 3RT19 16-2EC21 | 1 | 1 unit | 101 | 0.087 |
| | | | | 5 ... 100 | ▶ | 3RT19 16-2EC31 | 1 | 1 unit | 101 | 0.086 |
| 200 ... 240 AC ⁽³⁾ | 0.05 ... 1 | D | 0.5 ... 10 | ▶ | 3RT19 16-2ED11 | 1 | 1 unit | 101 | 0.088 | |
| | | | 0.5 ... 10 | ▶ | 3RT19 16-2ED21 | 1 | 1 unit | 101 | 0.089 | |
| | | | 5 ... 100 | ▶ | 3RT19 16-2ED31 | 1 | 1 unit | 101 | 0.090 | |

OFF-delay without auxiliary voltage (varistor integrated)⁽⁴⁾

| | | | | | | | | | | |
|---|----------------------------------|-------------------------|------------|------------|----------------|----------------|--------|--------|-------|-------|
| 3RT1. 1, 3RH11 ⁽²⁾ 3RH14 | 1 NO + 1 NC | 24 AC/DC ⁽³⁾ | 0.05 ... 1 | ▶ | 3RT19 16-2FJ11 | 1 | 1 unit | 101 | 0.087 | |
| | | | 0.5 ... 10 | ▶ | 3RT19 16-2FJ21 | 1 | 1 unit | 101 | 0.088 | |
| | | | 5 ... 100 | ▶ | 3RT19 16-2FJ31 | 1 | 1 unit | 101 | 0.089 | |
| | 100 ... 127 AC/DC ⁽³⁾ | 0.05 ... 1 | D | 0.5 ... 10 | ▶ | 3RT19 16-2FK11 | 1 | 1 unit | 101 | 0.086 |
| | | | | 0.5 ... 10 | ▶ | 3RT19 16-2FK21 | 1 | 1 unit | 101 | 0.087 |
| | | | | 5 ... 100 | B | 3RT19 16-2FK31 | 1 | 1 unit | 101 | 0.088 |
| 200 ... 240 AC/DC ⁽³⁾ | 0.05 ... 1 | D | 0.5 ... 10 | ▶ | 3RT19 16-2FL11 | 1 | 1 unit | 101 | 0.089 | |
| | | | 0.5 ... 10 | ▶ | 3RT19 16-2FL21 | 1 | 1 unit | 101 | 0.089 | |
| | | | 5 ... 100 | ▶ | 3RT19 16-2FL31 | 1 | 1 unit | 101 | 0.089 | |

OFF-delay with auxiliary voltage

| | | | | | | | | | |
|------------------|------|----------------|------------|---|----------------|---|--------|-----|-------|
| 3RT10 1 3RH11 | 1 CO | 24 AC/DC | 0.5 ... 10 | B | 3RT19 16-2LJ21 | 1 | 1 unit | 101 | 0.083 |
| | | 100 ... 127 AC | 0.5 ... 10 | B | 3RT19 16-2LC21 | 1 | 1 unit | 101 | 0.085 |
| | | 200 ... 240 AC | 0.5 ... 10 | B | 3RT19 16-2LD21 | 1 | 1 unit | 101 | 0.085 |

Wye-delta function (varistor integrated)

| | | | | | | | | | |
|------------------------|--|-------------------------------|------------|---|----------------|---|--------|-----|-------|
| 3RT10 1 ⁽²⁾ | 1 NO delayed + 1 NO, instan- taneous, dead time 50 ms | 24 AC/DC ⁽³⁾ | 1.5 ... 30 | ▶ | 3RT19 16-2GJ51 | 1 | 1 unit | 101 | 0.086 |
| | | 100 ... 127 AC ⁽³⁾ | 1.5 ... 30 | D | 3RT19 16-2GC51 | 1 | 1 unit | 101 | 0.087 |
| | | 200 ... 240 AC ⁽³⁾ | 1.5 ... 30 | ▶ | 3RT19 16-2GD51 | 1 | 1 unit | 101 | 0.090 |

Sizes S0 ... S12



3RT19 26-2....

With ON-delay

| | | | | | | | | | | |
|-------------------------------------|-------------------------------|-------------------------|------------|------------|----------------|----------------|--------|--------|-------|-------|
| 3RT10, 3RT13, 3RT14, 3RT15 | 1 NO + 1 NC | 24 AC/DC ⁽⁵⁾ | 0.05 ... 1 | D | 3RT19 26-2EJ11 | 1 | 1 unit | 101 | 0.081 | |
| | | | 0.5 ... 10 | ▶ | 3RT19 26-2EJ21 | 1 | 1 unit | 101 | 0.081 | |
| | | | 5 ... 100 | A | 3RT19 26-2EJ31 | 1 | 1 unit | 101 | 0.082 | |
| | 100 ... 127 AC ⁽⁵⁾ | 0.05 ... 1 | C | 0.5 ... 10 | ▶ | 3RT19 26-2EC11 | 1 | 1 unit | 101 | 0.083 |
| | | | | 0.5 ... 10 | ▶ | 3RT19 26-2EC21 | 1 | 1 unit | 101 | 0.083 |
| | | | | 5 ... 100 | D | 3RT19 26-2EC31 | 1 | 1 unit | 101 | 0.083 |
| 200 ... 240 AC ⁽⁵⁾ | 0.05 ... 1 | D | 0.5 ... 10 | ▶ | 3RT19 26-2ED11 | 1 | 1 unit | 101 | 0.085 | |
| | | | 0.5 ... 10 | ▶ | 3RT19 26-2ED21 | 1 | 1 unit | 101 | 0.085 | |
| | | | 5 ... 100 | B | 3RT19 26-2ED31 | 1 | 1 unit | 101 | 0.085 | |

OFF-delay without auxiliary voltage⁽⁴⁾

| | | | | | | | | | | |
|-------------------------------------|----------------------------------|-------------------------|------------|------------|----------------|----------------|--------|--------|-------|-------|
| 3RT10, 3RT13, 3RT14, 3RT15 | 1 NO + 1 NC | 24 AC/DC ⁽⁵⁾ | 0.05 ... 1 | ▶ | 3RT19 26-2FJ11 | 1 | 1 unit | 101 | 0.085 | |
| | | | 0.5 ... 10 | ▶ | 3RT19 26-2FJ21 | 1 | 1 unit | 101 | 0.084 | |
| | | | 5 ... 100 | ▶ | 3RT19 26-2FJ31 | 1 | 1 unit | 101 | 0.085 | |
| | 100 ... 127 AC/DC ⁽⁵⁾ | 0.05 ... 1 | D | 0.5 ... 10 | ▶ | 3RT19 26-2FK11 | 1 | 1 unit | 101 | 0.087 |
| | | | | 0.5 ... 10 | ▶ | 3RT19 26-2FK21 | 1 | 1 unit | 101 | 0.086 |
| | | | | 5 ... 100 | C | 3RT19 26-2FK31 | 1 | 1 unit | 101 | 0.087 |
| 200 ... 240 AC/DC ⁽⁵⁾ | 0.05 ... 1 | D | 0.5 ... 10 | ▶ | 3RT19 26-2FL11 | 1 | 1 unit | 101 | 0.086 | |
| | | | 0.5 ... 10 | A | 3RT19 26-2FL21 | 1 | 1 unit | 101 | 0.084 | |
| | | | 5 ... 100 | A | 3RT19 26-2FL31 | 1 | 1 unit | 101 | 0.086 | |

Wye-delta function

| | | | | | | | | | |
|-------------------------------------|---|-------------------------------|------------|---|----------------|---|--------|-----|-------|
| 3RT10, 3RT13, 3RT14, 3RT15 | 1 NO, delayed + 1 NO, instan- taneous, dead time 50 ms | 24 AC/DC ⁽⁵⁾ | 1.5 ... 30 | ▶ | 3RT19 26-2GJ51 | 1 | 1 unit | 101 | 0.084 |
| | | 100 ... 127 AC ⁽⁵⁾ | 1.5 ... 30 | ▶ | 3RT19 26-2GC51 | 1 | 1 unit | 101 | 0.085 |
| | | 200 ... 240 AC ⁽⁵⁾ | 1.5 ... 30 | ▶ | 3RT19 26-2GD51 | 1 | 1 unit | 101 | 0.088 |

- The AC voltages are valid for 50 Hz and 60 Hz.
- Cannot be fitted onto coupling relays.
- The terminals for the control supply voltage are connected to the contactor by the integrated spring contacts of the solid-state time auxiliary switch above it when this switch is mounted
- Setting of output contacts in as-supplied state not defined (bistable relay). Application of the control supply voltage once results in contact changeover to the correct setting.

- Terminals A1 and A2 for the control supply voltage of the solid-state time-delay auxiliary switch must be connected to the associated contactor by means of connecting leads.

* You can order this quantity or a multiple thereof.

Accessories and Spare Parts For 3RT, 3RH Contactors and Contactor Relays

Accessories for 3RT, 3RH contactors and contactor relays

| For contactors | Rated control supply voltage U_s | Time setting range t | DT | Order No. | Price per PU | PU (UNIT, SET, M) | PS* | PG | Weight per PU approx. |
|----------------|------------------------------------|------------------------|----|-----------|--------------|-------------------|-----|----|-----------------------|
| Type | V | s | | | | | | | kg |

Solid-state time-delay blocks with semiconductor output

Size S00



3RT19 16-2C...



3RT19 16-2D...

| For mounting onto the front of contactors | | | | | | | | | |
|--|------------------|------------|-----|----------------|--|---|--------|-----|-------|
| • ON-delay (varistor integrated) | | | | | | | | | |
| 3RT1. 1, 3RH11 ¹⁾ 3RH14 | 24 ... 66 AC/DC | 0.05 ... 1 | B | 3RT19 16-2CG11 | | 1 | 1 unit | 101 | 0.051 |
| | | 0.5 ... 10 | ▶ B | 3RT19 16-2CG21 | | 1 | 1 unit | 101 | 0.051 |
| | | 5 ... 100 | B | 3RT19 16-2CG31 | | 1 | 1 unit | 101 | 0.054 |
| | 90 ... 240 AC/DC | 0.05 ... 1 | D | 3RT19 16-2CH11 | | 1 | 1 unit | 101 | 0.052 |
| | | 0.5 ... 10 | ▶ D | 3RT19 16-2CH21 | | 1 | 1 unit | 101 | 0.052 |
| | | 5 ... 100 | ▶ D | 3RT19 16-2CH31 | | 1 | 1 unit | 101 | 0.051 |
| • OFF-delay with auxiliary voltage (varistor integrated) | | | | | | | | | |
| 3RT1. 1, 3RH11 ¹⁾ 3RH14 | 24 ... 66 AC/DC | 0.05 ... 1 | C | 3RT19 16-2DG11 | | 1 | 1 unit | 101 | 0.057 |
| | | 0.5 ... 10 | B | 3RT19 16-2DG21 | | 1 | 1 unit | 101 | 0.057 |
| | | 5 ... 100 | B | 3RT19 16-2DG31 | | 1 | 1 unit | 101 | 0.057 |
| | 90 ... 240 AC/DC | 0.05 ... 1 | D | 3RT19 16-2DH11 | | 1 | 1 unit | 101 | 0.053 |
| | | 0.5 ... 10 | ▶ D | 3RT19 16-2DH21 | | 1 | 1 unit | 101 | 0.060 |
| | | 5 ... 100 | B | 3RT19 16-2DH31 | | 1 | 1 unit | 101 | 0.058 |

Sizes S0 ... S3



3RT19 26-2C...



3RT19 26-2D...

| For mounting onto coil terminals on top of the contactors | | | | | | | | | |
|--|------------------|------------|-----|----------------|--|---|--------|-----|-------|
| • ON-delay (varistor integrated) | | | | | | | | | |
| 3RT10 2, 3RT10 3, 3RT10 4, 3RT13 ²⁾ 3RT15 | 24 ... 66 AC/DC | 0.05 ... 1 | D | 3RT19 26-2CG11 | | 1 | 1 unit | 101 | 0.048 |
| | | 0.5 ... 10 | B | 3RT19 26-2CG21 | | 1 | 1 unit | 101 | 0.049 |
| | | 5 ... 100 | D | 3RT19 26-2CG31 | | 1 | 1 unit | 101 | 0.048 |
| | 90 ... 240 AC/DC | 0.05 ... 1 | ▶ D | 3RT19 26-2CH11 | | 1 | 1 unit | 101 | 0.048 |
| | | 0.5 ... 10 | ▶ D | 3RT19 26-2CH21 | | 1 | 1 unit | 101 | 0.047 |
| | | 5 ... 100 | ▶ D | 3RT19 26-2CH31 | | 1 | 1 unit | 101 | 0.048 |
| • OFF-delay with auxiliary voltage (varistor integrated) | | | | | | | | | |
| 3RT10 2, 3RT10 3, 3RT10 4, 3RT13 ²⁾ 3RT15 | 24 ... 66 AC/DC | 0.05 ... 1 | D | 3RT19 26-2DG11 | | 1 | 1 unit | 101 | 0.050 |
| | | 0.5 ... 10 | D | 3RT19 26-2DG21 | | 1 | 1 unit | 101 | 0.051 |
| | | 5 ... 100 | D | 3RT19 26-2DG31 | | 1 | 1 unit | 101 | 0.051 |
| | 90 ... 240 AC/DC | 0.05 ... 1 | C | 3RT19 26-2DH11 | | 1 | 1 unit | 101 | 0.050 |
| | | 0.5 ... 10 | D | 3RT19 26-2DH21 | | 1 | 1 unit | 101 | 0.050 |
| | | 5 ... 100 | C | 3RT19 26-2DH31 | | 1 | 1 unit | 101 | 0.050 |

OFF-delay devices



3RT19 16.-2B.01

| | | | | | | | | | |
|--|---------------|-------|---|----------------|----------------|---|--------|--------|-------|
| 3RT1. 1, 3RT1. 2, 3RH1 ...-1BF40 | 110 AC/DC | | D | 3RT19 16-2BK01 | | 1 | 1 unit | 101 | 0.143 |
| | 220/230 AC/DC | | D | 3RT19 16-2BL01 | | 1 | 1 unit | 101 | 0.144 |
| | | 24 DC | ▶ | | 3RT19 16-2BE01 | | 1 | 1 unit | 101 |

Pneumatic delay blocks, terminal designation according to EN 50005



3RT19 26-2P...

| For mounting onto the front of size S0 ³⁾ contactors | | | | | | | | | |
|---|------------|----------|---|----------------|--|---|--------|-----|-------|
| Auxiliary contacts 1 NO and 1 NC | | | | | | | | | |
| • ON-delay | | | | | | | | | |
| | 0.1 ... 30 | | C | 3RT19 26-2PA01 | | 1 | 1 unit | 101 | 0.078 |
| | | 1 ... 60 | C | 3RT19 26-2PA11 | | 1 | 1 unit | 101 | 0.078 |
| • OFF-delay | | | | | | | | | |
| | 0.1 ... 30 | | C | 3RT19 26-2PR01 | | 1 | 1 unit | 101 | 0.078 |
| | | 1 ... 60 | C | 3RT19 26-2PR11 | | 1 | 1 unit | 101 | 0.078 |

Mechanical latching blocks

Sizes S0 and S2



3RT19 26-3A.31

| For mounting on 1 contactor, contactor remains in the energized state even after a voltage failure | | | | | | | | | |
|--|-----------|--|---|----------------|--|---|--------|-----|-------|
| 3RT1. 2, 3RT1. 3 | 24 AC/DC | | A | 3RT19 26-3AB31 | | 1 | 1 unit | 101 | 0.122 |
| | 110 AC/DC | | B | 3RT19 26-3AF31 | | 1 | 1 unit | 101 | 0.130 |
| | 230 AC/DC | | B | 3RT19 26-3AP31 | | 1 | 1 unit | 101 | 0.125 |

- 1) Cannot be fitted onto coupling relays.
- 2) Not to be used for 3RT10 4. and 3RT13 4. contactors with $U_s \leq 42$ V.
- 3) In addition to these, no other auxiliary contacts are permitted.

* You can order this quantity or a multiple thereof.

Accessories and Spare Parts For 3RT, 3RH Contactors and Contactor Relays

Accessories for 3RT, 3RH contactors and contactor relays

| For contactors | Version | Rated control supply voltage $U_s^{1)}$ | | DT | Order No. ²⁾ | Price per PU | PU (UNIT, SET, M) | PS* | PG | Weight per PU approx. |
|----------------|---------|---|--------------|----|-------------------------|--------------|-------------------|-----|----|-----------------------|
| | | AC operation | DC operation | | | | | | | |
| Type | | V AC | V DC | | | | | | | kg |

Surge suppressors without LED (also for Cage Clamp terminals)

Size S00



3RT19 16-1DG00

For plugging onto the front side of the contactors with and without auxiliary switch blocks

| For contactors | Version | Rated control supply voltage $U_s^{1)}$ | | DT | Order No. ²⁾ | Price per PU | PU (UNIT, SET, M) | PS* | PG | Weight per PU approx. |
|----------------|---|---|--------------|----|-------------------------|--------------|-------------------|--------|-----|-----------------------|
| | | AC operation | DC operation | | | | | | | |
| Type | | V AC | V DC | | | | | | | kg |
| 3RT1., 3RH1 | Varistors | 24 ... 48 | 24 ... 70 | ▶ | 3RT19 16-1BB00 | | 1 | 1 unit | 101 | 0.008 |
| | | 48 ... 127 | 70 ... 150 | ▶ | 3RT19 16-1BC00 | | 1 | 1 unit | 101 | 0.008 |
| | | 127 ... 240 | 150 ... 250 | A | 3RT19 16-1BD00 | | 1 | 1 unit | 101 | 0.008 |
| | | 240 ... 400 | -- | ▶ | 3RT19 16-1BE00 | | 1 | 1 unit | 101 | 0.008 |
| | | 400 ... 600 | -- | A | 3RT19 16-1BF00 | | 1 | 1 unit | 101 | 0.009 |
| 3RT1., 3RH1 | RC elements | 24 ... 48 | 24 ... 70 | ▶ | 3RT19 16-1CB00 | | 1 | 1 unit | 101 | 0.009 |
| | | 48 ... 127 | 70 ... 150 | ▶ | 3RT19 16-1CC00 | | 1 | 1 unit | 101 | 0.009 |
| | | 127 ... 240 | 150 ... 250 | ▶ | 3RT19 16-1CD00 | | 1 | 1 unit | 101 | 0.009 |
| | | 240 ... 400 | -- | ▶ | 3RT19 16-1CE00 | | 1 | 1 unit | 101 | 0.009 |
| | | 400 ... 600 | -- | ▶ | 3RT19 16-1CF00 | | 1 | 1 unit | 101 | 0.009 |
| 3RT1., 3RH1 | Noise suppression diodes | -- | 12 ... 250 | ▶ | 3RT19 16-1DG00 | | 1 | 1 unit | 101 | 0.007 |
| 3RT1., 3RH1 | Diode assembly (diode and Zener diode) for DC operation | -- | 12 ... 250 | ▶ | 3RT19 16-1EH00 | | 1 | 1 unit | 101 | 0.008 |

Size S0



3RT19 26-1B0.00

For fitting onto the coil terminals at top or bottom

| For contactors | Version | Rated control supply voltage $U_s^{1)}$ | | DT | Order No. ²⁾ | Price per PU | PU (UNIT, SET, M) | PS* | PG | Weight per PU approx. | |
|----------------|---|---|--------------|------------|-------------------------|-----------------------|-------------------|--------|--------|-----------------------|-------|
| | | AC operation | DC operation | | | | | | | | |
| Type | | V AC | V DC | | | | | | | kg | |
| 3RT1. 2 | Varistors | 24 ... 48 | 24 ... 70 | ▶ | 3RT19 26-1BB00 | | 1 | 1 unit | 101 | 0.023 | |
| | | 48 ... 127 | 70 ... 150 | ▶ | 3RT19 26-1BC00 | | 1 | 1 unit | 101 | 0.023 | |
| | | 127 ... 240 | 150 ... 250 | ▶ | 3RT19 26-1BD00 | | 1 | 1 unit | 101 | 0.024 | |
| | | 240 ... 400 | -- | ▶ | 3RT19 26-1BE00 | | 1 | 1 unit | 101 | 0.028 | |
| | | 400 ... 600 | -- | B | 3RT19 26-1BF00 | | 1 | 1 unit | 101 | 0.029 | |
| 3RT1. 2 | RC elements | 24 ... 48 | 24 ... 70 | ▶ | 3RT19 26-1CB00 | | 1 | 1 unit | 101 | 0.023 | |
| | | 48 ... 127 | 70 ... 150 | ▶ | 3RT19 26-1CC00 | | 1 | 1 unit | 101 | 0.023 | |
| | | 127 ... 240 | 150 ... 250 | ▶ | 3RT19 26-1CD00 | | 1 | 1 unit | 101 | 0.023 | |
| | | 240 ... 400 | -- | ▶ | 3RT19 26-1CE00 | | 1 | 1 unit | 101 | 0.024 | |
| | | 400 ... 600 | -- | B | 3RT19 26-1CF00 | | 1 | 1 unit | 101 | 0.027 | |
| 3RT1. 2 | Diode assembly For DC operation | • Connectable at the top (e.g. for contactor with overload relay) | -- | 24 | ▶ | 3RT19 26-1ER00 | | 1 | 1 unit | 101 | 0.023 |
| | | | -- | 30 ... 250 | ▶ | 3RT19 26-1ES00 | | 1 | 1 unit | 101 | 0.024 |
| | | • Connectable at the bottom (e.g. for fuseless load feeders) | -- | 24 | ▶ | 3RT19 26-1TR00 | | 1 | 1 unit | 101 | 0.024 |
| | | | -- | 30 ... 250 | A | 3RT19 26-1TS00 | | 1 | 1 unit | 101 | 0.023 |

1) Can be used for AC operation for 50/60 Hz. Please inquire about further voltages.

2) For packs of 10 units, the Order No. must be supplemented with "Z" and the order code "X90".

* You can order this quantity or a multiple thereof.

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Accessories and Spare Parts For 3RT, 3RH Contactors and Contactor Relays

Accessories for 3RT, 3RH contactors and contactor relays

| For contactors | Version | Rated control supply voltage $U_s^{(1)}$ | | DT | Order No. ⁽²⁾ | Price per PU | PU (UNIT, SET, M) | PS* | PG | Weight per PU approx. |
|----------------|---------|--|--------------|----|--------------------------|--------------|-------------------|-----|----|-----------------------|
| Type | | AC operation | DC operation | | | | | | | kg |
| | | V AC | V DC | | | | | | | |

Surge suppressors without LED (also for Cage Clamp terminals)

Sizes S2 and S3

For fitting onto the coil terminals at top or bottom



3RT19 26-1B0.00



3RT19 36-1C.00

| For contactors | Version | Rated control supply voltage $U_s^{(1)}$ | | DT | Order No. ⁽²⁾ | Price per PU | PU (UNIT, SET, M) | PS* | PG | Weight per PU approx. |
|-------------------------------------|---|--|--------------|----|--------------------------|--------------|-------------------|--------|-----|-----------------------|
| Type | | AC operation | DC operation | | | | | | | kg |
| | | V AC | V DC | | | | | | | |
| 3RT1. 3, 3RT1. 4 | Varistors | 24 ... 48 | 24 ... 70 | ▶ | 3RT19 26-1BB00 | | 1 | 1 unit | 101 | 0.023 |
| | | 48 ... 127 | 70 ... 150 | ▶ | 3RT19 26-1BC00 | | 1 | 1 unit | 101 | 0.023 |
| | | 127 ... 240 | 150 ... 250 | ▶ | 3RT19 26-1BD00 | | 1 | 1 unit | 101 | 0.024 |
| | | 240 ... 400 | -- | ▶ | 3RT19 26-1BE00 | | 1 | 1 unit | 101 | 0.028 |
| | | 400 ... 600 | -- | ▶ | 3RT19 26-1BF00 | | 1 | 1 unit | 101 | 0.029 |
| 3RT1. 3 ⁽³⁾ , 3RT1. 4 | RC elements | 24 ... 48 | 24 ... 70 | ▶ | 3RT19 36-1CB00 | | 1 | 1 unit | 101 | 0.039 |
| | | 48 ... 127 | 70 ... 150 | ▶ | 3RT19 36-1CC00 | | 1 | 1 unit | 101 | 0.039 |
| | | 127 ... 240 | 150 ... 250 | ▶ | 3RT19 36-1CD00 | | 1 | 1 unit | 101 | 0.039 |
| | | 240 ... 400 | -- | ▶ | 3RT19 36-1CE00 | | 1 | 1 unit | 101 | 0.041 |
| | | 400 ... 600 | -- | ▶ | 3RT19 36-1CF00 | | 1 | 1 unit | 101 | 0.040 |
| 3RT1. 3, 3RT1. 4 | Diode assembly For DC operation | | | | | | | | | |
| | • Connectable at the top (e.g. for contactor with overload relay) | | 24 | ▶ | 3RT19 36-1ER00 | | 1 | 1 unit | 101 | 0.024 |
| | | | 30 ... 250 | ▶ | 3RT19 36-1ES00 | | 1 | 1 unit | 101 | 0.024 |
| | • Connectable at the bottom (e.g. for fuseless load feeders) | | 24 | ▶ | 3RT19 36-1TR00 | | 1 | 1 unit | 101 | 0.024 |
| | | | 30 ... 250 | ▶ | 3RT19 36-1TS00 | | 1 | 1 unit | 101 | 0.024 |

Sizes S6 ... S12

For connecting to withdrawable coil with screw terminals with contactors with
• 3RT1. ...A... conventional operating mechanism
• 3RT1. ...N... solid-state operating mechanism



3RT19 56-1C.00

| For contactors | Version | Rated control supply voltage $U_s^{(1)}$ | | Power consumption of LEDs at U_s | DT | Order No. ⁽²⁾ | Price per PU | PU (UNIT, SET, M) | PS* | PG | Weight per PU approx. |
|---------------------------------|--------------------|--|--------------|------------------------------------|-----------------------|--------------------------|--------------|-------------------|-----|-------|-----------------------|
| Type | | AC operation | DC operation | | | | | | | | kg |
| | | V AC | V DC | | | | | | | | |
| 3RT1. 5, 3RT1. 6, 3RT1. 7 | RC elements | 24 ... 48 | 24 ... 70 | ▶ | 3RT19 56-1CB00 | | 1 | 1 unit | 101 | 0.033 | |
| | | 48 ... 127 | 70 ... 150 | ▶ | 3RT19 56-1CC00 | | 1 | 1 unit | 101 | 0.032 | |
| | | 127 ... 240 | 150 ... 250 | ▶ | 3RT19 56-1CD00 | | 1 | 1 unit | 101 | 0.033 | |
| | | 240 ... 400 | -- | ▶ | 3RT19 56-1CE00 | | 1 | 1 unit | 101 | 0.033 | |
| | | 400 ... 600 | -- | ▶ | 3RT19 56-1CF00 | | 1 | 1 unit | 101 | 0.035 | |

- 1) Can be used for AC operation for 50/60 Hz. Please inquire about further voltages.
- 2) For packs of 10 or 5 units, the Order No. must be supplemented with "Z" and the order code "X90".

- 3) Mountable only at the top for 3RT1. 3/AC operating mechanism.

| For contactors | Version | Rated control supply voltage $U_s^{(1)}$ | | Power consumption of LEDs at U_s | DT | Order No. ⁽²⁾ | Price per PU | PU (UNIT, SET, M) | PS* | PG | Weight per PU approx. |
|----------------|---------|--|--------------|------------------------------------|----|--------------------------|--------------|-------------------|-----|----|-----------------------|
| Type | | AC operation | DC operation | | | | | | | | kg |
| | | V AC | V DC | | | | | | | | |

Surge suppressors with LED (also for Cage Clamp terminals)

Size S00

For plugging onto the front side of the contactors with and without auxiliary switch blocks



3RT19 16-1L.00



| For contactors | Version | Rated control supply voltage $U_s^{(1)}$ | | Power consumption of LEDs at U_s | DT | Order No. ⁽²⁾ | Price per PU | PU (UNIT, SET, M) | PS* | PG | Weight per PU approx. |
|----------------|---------------------------------|--|--------------|------------------------------------|----|--------------------------|--------------|-------------------|--------|-----|-----------------------|
| Type | | AC operation | DC operation | | | | | | | | kg |
| | | V AC | V DC | | | | | | | | |
| 3RT1, 3RH1. | Varistors | 24 ... 48 | 12 ... 24 | 10 ... 120 | ▶ | 3RT19 16-1JJ00 | | 1 | 1 unit | 101 | 0.008 |
| | | 48 ... 127 | 24 ... 70 | 20 ... 470 | ▶ | 3RT19 16-1JK00 | | 1 | 1 unit | 101 | 0.008 |
| | | 127 ... 240 | 70 ... 150 | 50 ... 700 | ▶ | 3RT19 16-1JL00 | | 1 | 1 unit | 101 | 0.009 |
| | | -- | 150 ... 250 | 160 ... 950 | ▶ | 3RT19 16-1JP00 | | 1 | 1 unit | 101 | 0.008 |
| 3RT1, 3RH1. | Noise suppression diodes | -- | 24 ... 70 | 20 ... 470 | ▶ | 3RT19 16-1LM00 | | 1 | 1 unit | 101 | 0.007 |
| | | -- | 50 ... 150 | 50 ... 700 | ▶ | 3RT19 16-1LN00 | | 1 | 1 unit | 101 | 0.007 |
| | | -- | 150 ... 250 | 160 ... 950 | ▶ | 3RT19 16-1LP00 | | 1 | 1 unit | 101 | 0.007 |

- 1) Can be used for AC operation for 50/60 Hz. Please inquire about further voltages.
- 2) For packs of 10 or 5 units, the Order No. must be supplemented with "Z" and the order code "X90".

* You can order this quantity or a multiple thereof.

Accessories and Spare Parts For 3RT, 3RH Contactors and Contactor Relays

Accessories for 3RT, 3RH contactors and contactor relays

| For contactors | Version | DT | Order No. | Price per PU | PU (UNIT, SET, M) | PS* | PG | Weight per PU approx. kg |
|---|-------------|--|----------------------|----------------------|-------------------|--------|-------|--------------------------|
| EMC suppression modules; 3-phase ≤ 5.5 kW | | | | | | | | |
| <i>Size S00 (for contactors with AC or DC operation)¹⁾</i> | | | | | | | | |
|  | 3RT10 1 | RC elements (3 x 220 Ω/0.22 μF) | ▶ | 3RT19 16-1PA1 | 1 | 1 unit | 101 | 0.078 |
| | | up to 400 V | A | 3RT19 16-1PA2 | 1 | 1 unit | 101 | 0.078 |
| | | up to 575 V | C | 3RT19 16-1PA3 | 1 | 1 unit | 101 | 0.081 |
|  | 3RT10 1 | Varistors | | | | | | |
| | | up to 400 V | A | 3RT19 16-1PB1 | 1 | 1 unit | 101 | 0.084 |
| | | up to 575 V | B | 3RT19 16-1PB2 | 1 | 1 unit | 101 | 0.090 |
| | up to 690 V | D | 3RT19 16-1PB3 | 1 | 1 unit | 101 | 0.087 | |

3RT19 16-1PA

Main conducting path surge suppression modules for 3RT12 vacuum contactors


Size S10 and S12

| | | | | | | | |
|-------|---|---|----------------------|---|--------|-----|-------|
| 3RT12 | Rated operating voltage $U_e = 690$ V AC | C | 3RT19 66-1PV3 | 1 | 1 unit | 101 | 0.380 |
| | Rated operating voltage $U_e = 1000$ V AC For damping overvoltages and protecting motor windings against multiple re-ignition when switching off induction motors. For connection on the contactor feeder side (2-T1/4-T2/6-T3). For separate installation. | C | 3RT19 66-1PV4 | 1 | 1 unit | 101 | 0.775 |

Additional load modules

Size S00 (also for Cage Clamp terminal)


For plugging onto the front side of the contactors with and without auxiliary switch blocks²⁾

| | | | | | | | | |
|---|-------------------|---|---|-----------------------|---|--------|-----|-------|
|  | 3RT1. 1, 3RH1. | For increasing the permissible residual current and for limiting the residual voltage. Ensures safe opening of contactors with direct control via 230 V AC semiconductor outputs of SIMATIC controllers. Also performs the function of a surge damping circuit. Rated voltage: AC 50/60 Hz, 180 V to 255 V. Operating range: 0.8 to 1.1 x U_s | ▶ | 3RT19 16-1GA00 | 1 | 1 unit | 101 | 0.008 |
|---|-------------------|---|---|-----------------------|---|--------|-----|-------|

3RT19 16-1GA00

Control kits

Size S00

| | | | | | | | | |
|---|-------------------|---|---|-----------------------|---|--------|-----|-------|
|  | 3RT1. 1, 3RH1. | For manual operation of the contactor contacts for start-up and service ³⁾ | A | 3RK1 903-OCA00 | 1 | 1 unit | 121 | 0.015 |
|---|-------------------|---|---|-----------------------|---|--------|-----|-------|

1) See also description on page 3/108.

2) For packs of 10 units, the Order No. must be supplemented with "-Z" and the order code "X90".

3) See "Load Feeders", Motor Starters and Soft Starters -> ET 200 S Motor Starters, 3RK1 903-OCA00.

* You can order this quantity or a multiple thereof.

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Accessories and Spare Parts For 3RT, 3RH Contactors and Contactor Relays

Accessories for 3RT, 3RH contactors and contactor relays

| For contactors | Version | DT | Order No. | Price per PU | PU (UNIT, SET, M) | PS* | PG | Weight per PU approx. kg |
|----------------|---------|----|-----------|--------------|-------------------|-----|----|--------------------------|
|----------------|---------|----|-----------|--------------|-------------------|-----|----|--------------------------|

Coupling links for control by PLC

Sizes S0 ... S3

For mounting onto the coil terminals of the contactors



3RH19 24-1GP11

3RT1. 2,
3RT1. 3,
3RT1. 4

Operating range DC 17 V to 30 V
Power consumption: 0.5 W at 24 V DC
Permissible residual current of the electronics (with 0 signal): 2.5 mA
Rated operating current I_e :
AC-15/AC-14 at 230 V: 3 A, DC-13 at 230 V: 0.1 A
With LED for indicating circuit state.
With integrated varistor for damping opening surges.

▶ **3RH19 24-1GP11**

1 1 unit 101 0.056

LED modules for indicating contactor operation (also for Cage Clamp terminals)

Sizes S0 ... S12¹⁾



3RT19 26-1QT00 mounted to contactor

3RT1. 2,
3RT1. 3,
3RT1. 4

For snapping into the location hole of an identification label on the front of a contactor either directly on the contactor or on the front auxiliary switch.
The LED module is connected to coil terminals A1 and A2 of the contactor and indicates its energized state. Yellow LED.
Rated voltage: 24 to 240 V AC/DC, polarized.
(1 pack = 5 units)

B

3RT19 26-1QT00

1 5 units 101 0.007

Auxiliary terminals, 3-pole

Size S3



3RT19 46-4F

3RT10 4.

For connection of auxiliary and control cables to the main conductor connections (for one side)

B

3RT19 46-4F

1 1 unit 101 0.033

Solder pin adapters for contactors

Size S00



3RT1. 1,
3RH11

Installation kit for soldering contactors onto a printed circuit board.
For 1 contactor, 1 set is required.

A

3RT19 16-4KA1

1 4 sets 101 0.030

1) For sizes S6 ... S12 the connecting leads have to be extended.

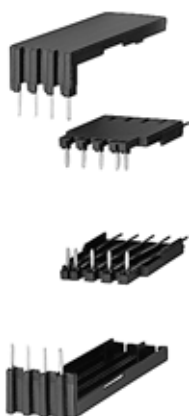
Accessories and Spare Parts For 3RT, 3RH Contactors and Contactor Relays

Accessories for 3RT, 3RH contactors and contactor relays

| For contactors | Version | DT | Order No. | Price per PU | PU (UNIT, SET, M) | PS* | PG | Weight per PU approx. kg |
|----------------|---------|----|-----------|--------------|-------------------|-----|----|--------------------------|
|----------------|---------|----|-----------|--------------|-------------------|-----|----|--------------------------|

Solder pin adapters for contactors with mounted 4-pole auxiliary switch block

Size S00

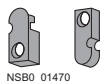


3RT1. 1, 3RH11
Installation kit for soldering contactors with an auxiliary switch block onto a printed circuit board
For 1 contactor, 1 set is required.

B **3RT19 16-4KA2** 1 4 sets 101 0.070

Screw adapters with screw or Cage Clamp terminal

Size S0



3RT1.2. Screw adapter for easy screw fixing, 2 units required per contactor (1 pack contains 10 sets for 10 contactors)

C **3RT19 26-4P** 1 10 sets 101 0.002



3RT19 16-4BB31

3RT19 16-4BB41

3RT19 36-4BB31

3RT19 56-4BA31

| Size | For contactors | Max. conductor cross-sections | DT | Order No. | Price per PU | PU (UNIT, SET, M) | PS* | PG | Weight per PU approx. kg |
|------|----------------|-------------------------------|----|-----------|--------------|-------------------|-----|----|--------------------------|
|------|----------------|-------------------------------|----|-----------|--------------|-------------------|-----|----|--------------------------|

Links for paralleling

| Size | For contactors | Max. conductor cross-sections | DT | Order No. | Price per PU | PU (UNIT, SET, M) | PS* | PG | Weight per PU approx. kg |
|--|----------------------|-------------------------------|----|-----------------------|--------------|-------------------|--------|-----|--------------------------|
| 3-pole, with connection terminal¹⁾²⁾ | | | | | | | | | |
| S00 | 3RT10 1 | 25 | ▶ | 3RT19 16-4BB31 | | 1 | 1 unit | 101 | 0.015 |
| S0 | 3RT10 2. | 35, stranded | ▶ | 3RT19 26-4BB31 | | 1 | 1 unit | 101 | 0.018 |
| S2 | 3RT10 3. | 95 | ▶ | 3RT19 36-4BB31 | | 1 | 1 unit | 101 | 0.107 |
| 3-pole, with through hole (star jumpers)¹⁾²⁾ | | | | | | | | | |
| S3 | 3RT10 4. 3RT14 4. | 185 | ▶ | 3RT19 46-4BB31 | | 1 | 1 unit | 101 | 0.197 |
| S6 | 3RT1. 5 | -- | ▶ | 3RT19 56-4BA31 | | 1 | 1 unit | 101 | 0.161 |
| S10/S12 | 3RT1. 6, 3RT1. 7 | -- | ▶ | 3RT19 66-4BA31 | | 1 | 1 unit | 101 | 0.533 |
| 4-pole, with connection terminal¹⁾²⁾ | | | | | | | | | |
| S00 | 3RT1. 1 | 25 | C | 3RT19 16-4BB41 | | 1 | 1 unit | 101 | 0.015 |




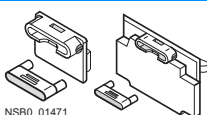
1) The links for paralleling can be reduced by one pole.

2) Sizes S00 to S2: The links for paralleling are insulated.
Size S3: A cover is included for touch protection. (Can only be used when the box terminal is removed.)
Sizes S6 to S12: The 3RT19 56-4EA1 (for S6) or 3RT19 66-4EA1 (for S10 and S12) cover can be used for touch protection.

* You can order this quantity or a multiple thereof.

Accessories and Spare Parts For 3RT, 3RH Contactors and Contactor Relays

Accessories for 3RT, 3RH contactors and contactor relays



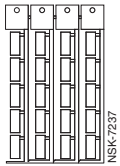
| For contactors | Version | DT | Order No. | Price per PU | PU (UNIT, SET, M) | PS* | PG | Weight per PU approx. kg | | |
|---|-----------------------------|-------------------------------------|--|----------------|-----------------------|----------------------|---------|--------------------------|-------|-------|
| Size | Type | | | | | | | | | |
| Box terminal blocks | | | | | | | | | | |
|  | S6 | 3RT1. 5 | For round and ribbon cables ¹⁾ | ▶ | 3RT19 55-4G | 1 | 1 unit | 101 | 0.237 | |
| | | (3RB10 5) | Up to 70 mm ² 2) | ▶ | 3RT19 56-4G | 1 | 1 unit | 101 | 0.270 | |
| | | | Up to 120 mm ² | ▶ | 3TX7 500-0A | 1 | 1 unit | 101 | 0.008 | |
| | | | Auxiliary conductor connection for box terminal | B | | | | | | |
| | S10/S12 | 3RT1. 6, 3RT1. 7 (3RB10 6) | Up to 240 mm ² With auxiliary conductor connection | ▶ | 3RT19 66-4G | 1 | 1 unit | 101 | 0.676 | |
| 3RT19 5.-4G | | | | | | | | | | |
| Covers | | | | | | | | | | |
|  | S2 | 3RT10 3 | Terminal covers for box terminals | ▶ | 3RT19 36-4EA2 | 1 | 1 unit | 101 | 0.016 | |
| | | | Additional touch protection for fitting to box terminals (2 units per contactor required) | ▶ | 3RT19 46-4EA2 | 1 | 1 unit | 101 | 0.023 | |
| | | S3 | 3RT10 4, 3RT14 4 | | ▶ | 3RT19 56-4EA2 | 1 | 1 unit | 101 | 0.028 |
| | | S6 | 3RT1. 5 | Length: 25 mm | ▶ | 3RT19 66-4EA2 | 1 | 1 unit | 101 | 0.038 |
| | S10/S12 | 3RT1. 6, 3RT1. 7 | Length: 30 mm | ▶ | | | | | | |
| 3RT19 36-4EA2 | | | | | | | | | | |
|  | S3 | 3RT10 4, 3RT14 4 | Terminal covers for cable lug and busbar connection³⁾ | ▶ | 3RT19 46-4EA1 | 1 | 1 unit | 101 | 0.037 | |
| | | | For maintaining the voltage clearances and as touch protection if box terminal is removed ⁴⁾ (2 units per contactor required) | ▶ | 3RT19 56-4EA1 | 1 | 1 unit | 101 | 0.067 | |
| | | S6 | 3RT1. 5 | Length: 100 mm | ▶ | 3RT19 66-4EA1 | 1 | 1 unit | 101 | 0.124 |
| | | S10/S12 | 3RT1. 6, 3RT1. 7 | Length: 120 mm | ▶ | | | | | |
| 3RT19 46-4EA1 | | | | | | | | | | |
| | S6 | 3RT1. 5 | For rail cover between contactor and 3RB10 overload relay or wiring connector for contactor assemblies | ▶ | 3RT19 56-4EA3 | 1 | 1 unit | 101 | 0.021 | |
| | S10/S12⁵⁾ | 3RT1. 6, 3RT1. 7 | Length: 27 mm | ▶ | 3RT19 66-4EA3 | 1 | 1 unit | 101 | 0.062 | |
| | | | Length: 42 mm | ▶ | | | | | | |
| Sealable covers | | | | | | | | | | |
|  | S00 | 3RT1. 1, 3RH1. ⁶⁾ | Sealable cover for preventing manual operation | A | 3RT19 16-4MA10 | 1 | 5 units | 101 | 0.005 | |
| | S0 ... S12 | 3RT1. 2... 3RT1. 7 ⁶⁾ | 1 unit required per contactor | B | 3RT19 26-4MA10 | 1 | 5 units | 101 | 0.006 | |
| NSB0_01471 | | | | | | | | | | |

- 1) For connectable cross-sections, see Technical specifications of contactors in Catalog LV 1 T.
- 2) As standard for 3RT10 54-1 contactor (55 kW).
- 3) Also fits on contactors S6 ... S12 with box terminals.

- 4) Observe the note in Catalog LV 1 T, Technical specifications, conductor cross-sections.
- 5) The 3RT19 66-4EA3 cover is required in addition for use in contactor assemblies (reversing/wye delta).
- 6) Exception: Contactors and contactor relays auxiliary switch block mounted onto the front.

Accessories and Spare Parts For 3RT, 3RH Contactors and Contactor Relays

Accessories for 3RT, 3RH contactors and contactor relays

| Version | DT | Order No. | Price per PU | PU (UNIT, SET, M) | PS* | PG | Weight per PU approx. kg |
|---|----|--|--------------|-------------------|------------|-----|--------------------------|
| Insulation stop for securely holding back the conductor insulation on conductors up to 1 mm² for contactors with Cage Clamp terminals | | | | | | | |
|  | | 3RT19 16-4JA02 | | 100 | 20 units | 101 | 0.100 |
| 3RT19 16-4JA02 | | Insulation stop strip can be inserted in cable entry of Cage Clamp (2 strips per contactor required, can be removed in pairs) Fits into cable entries of all SIRIUS devices with Cage Clamp terminals of cable cross-section up to 2.5 mm ² . | | | | | |
| Tools for opening Cage Clamp connection | | | | | | | |
|  | | 8WA2 880 | | 1 | 1 unit | 041 | 0.012 |
| 8WA2 880 | | For all SIRIUS devices with Cage Clamp terminals, up to max. 2.5 mm ² conductor cross-section | | | | | |
| | | 8WA2 803 | | 1 | 1 unit | 041 | 0.024 |
| | | Length: approx. 175 mm; 3.5 x 0.5 (green; partially isolated) | | | | | |
| | | Length: approx. 175 mm; 3.5 x 0.5 (green) | | | | | |
| Blank labeling plates | | | | | | | |
|  | | 3RT19 00-1SB10 | | 100 | 816 units | 101 | 0.239 |
| 3RT19 00-1SB10 | | Device labeling plates for "SIRIUS" | | | | | |
| | | 3RT19 00-1SB20 | | 100 | 340 units | 101 | 0.220 |
| | | • 10 mm x 7 mm, pastel turquoise | | | | | |
| | | • 20 mm x 7 mm, pastel turquoise | | | | | |
| | | 3RT19 00-1SB60 | | 100 | 3060 units | 101 | 0.153 |
| | | Labels for sticking for "SIRIUS" | | | | | |
| | | 3RT19 00-1SD60 | | 100 | 3060 units | 101 | 0.120 |
| | | • 19 mm x 6 mm, pastel turquoise | | | | | |
| | | • 19 mm x 6 mm, zinc/yellow | | | | | |
| <u>Computer labeling system</u> | | Obtainable from: | | | | | |
| For individual inscription of device identification labeling plates | | murrplastik Systemtechnik GmbH | | | | | |

* You can order this quantity or a multiple thereof.



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Accessories and Spare Parts For 3RT, 3RH Contactors and Contactor Relays

Spare parts for 3RT,
3RH contactors and contactor relays


Selection and ordering data

| For contactor | | Rated control supply voltage U_s | | | DT | Screw terminals | PU (UNIT, SET, M) | PS* | PG | Weight per PU approx. | | |
|---|-----------|---|---------------|------------|-----------------------|-----------------------|-------------------------|-----------------------|-----------------------|-----------------------------|--------|-------|
| Size | Type | 50 Hz V | 50/60 Hz V | 60 Hz V | | Order No. | Price per PU | | | kg | | |
| Magnetic coils · AC operation | | | | | | | | | | | | |
|  | S0 | 3RT10 2., | 24 | -- | -- | ▶ | 3RT19 24-5AB01 | 1 | 1 unit | 101 | 0.092 | |
| | | 3RT13 2., | 42 | -- | -- | B | 3RT19 24-5AD01 | 1 | 1 unit | 101 | 0.092 | |
| | | 3RT15 2. | 48 | -- | -- | A | 3RT19 24-5AH01 | 1 | 1 unit | 101 | 0.092 | |
| | | | 110 | -- | -- | ▶ | 3RT19 24-5AF01 | 1 | 1 unit | 101 | 0.090 | |
| | | | 230 | -- | -- | ▶ | 3RT19 24-5AP01 | 1 | 1 unit | 101 | 0.090 | |
| | | | 400 | -- | -- | ▶ | 3RT19 24-5AV01 | 1 | 1 unit | 101 | 0.092 | |
| | | | -- | 24 | -- | ▶ | 3RT19 24-5AC21 | 1 | 1 unit | 101 | 0.090 | |
| | | | -- | 42 | -- | B | 3RT19 24-5AD21 | 1 | 1 unit | 101 | 0.089 | |
| | | | -- | 48 | -- | B | 3RT19 24-5AH21 | 1 | 1 unit | 101 | 0.091 | |
| | | | -- | 110 | -- | ▶ | 3RT19 24-5AG21 | 1 | 1 unit | 101 | 0.093 | |
| | | | -- | 220 | -- | B | 3RT19 24-5AN21 | 1 | 1 unit | 101 | 0.095 | |
| | | | -- | 230 | -- | B | 3RT19 24-5AL21 | 1 | 1 unit | 101 | 0.095 | |
| | | | 110 | -- | 120 | B | 3RT19 24-5AK61 | 1 | 1 unit | 101 | 0.095 | |
| | | | 220 | -- | 240 | B | 3RT19 24-5AP61 | 1 | 1 unit | 101 | 0.096 | |
| | | | -- | 100 | 110 | B | 3RT19 24-5AG61 | 1 | 1 unit | 101 | 0.069 | |
| | | | -- | 200 | 220 | B | 3RT19 24-5AN61 | 1 | 1 unit | 101 | 0.093 | |
| | | | -- | 400 | 440 | B | 3RT19 24-5AR61 | 1 | 1 unit | 101 | 0.090 | |
| | |  | S2 | 3RT10 34 | 24 | -- | -- | ▶ | 3RT19 34-5AB01 | 1 | 1 unit | 101 |
| | 42 | | | -- | -- | B | 3RT19 34-5AD01 | 1 | 1 unit | 101 | 0.110 | |
| | 48 | | | -- | -- | B | 3RT19 34-5AH01 | 1 | 1 unit | 101 | 0.109 | |
| | 110 | | | -- | -- | ▶ | 3RT19 34-5AF01 | 1 | 1 unit | 101 | 0.114 | |
| | 230 | | | -- | -- | A | 3RT19 34-5AP01 | 1 | 1 unit | 101 | 0.109 | |
| | 400 | | | -- | -- | B | 3RT19 34-5AV01 | 1 | 1 unit | 101 | 0.115 | |
| | -- | | | 24 | -- | ▶ | 3RT19 34-5AC21 | 1 | 1 unit | 101 | 0.112 | |
| | -- | | | 42 | -- | B | 3RT19 34-5AD21 | 1 | 1 unit | 101 | 0.112 | |
| | -- | | | 48 | -- | B | 3RT19 34-5AH21 | 1 | 1 unit | 101 | 0.114 | |
| | -- | | | 110 | -- | B | 3RT19 34-5AG21 | 1 | 1 unit | 101 | 0.112 | |
| | -- | | | 220 | -- | C | 3RT19 34-5AN21 | 1 | 1 unit | 101 | 0.111 | |
| | -- | | | 230 | -- | B | 3RT19 34-5AL21 | 1 | 1 unit | 101 | 0.114 | |
| | 110 | | | -- | 120 | B | 3RT19 34-5AK61 | 1 | 1 unit | 101 | 0.112 | |
| | 220 | | | -- | 240 | B | 3RT19 34-5AP61 | 1 | 1 unit | 101 | 0.115 | |
| | -- | | | 100 | 110 | B | 3RT19 34-5AG61 | 1 | 1 unit | 101 | 0.088 | |
| | -- | | | 200 | 220 | B | 3RT19 34-5AN61 | 1 | 1 unit | 101 | 0.115 | |
| | -- | | | 400 | 440 | B | 3RT19 34-5AR61 | 1 | 1 unit | 101 | 0.113 | |
| | 3RT10 35, | | | 24 | -- | -- | ▶ | 3RT19 35-5AB01 | 1 | 1 unit | 101 | 0.104 |
| | 3RT10 36, | | | 42 | -- | -- | B | 3RT19 35-5AD01 | 1 | 1 unit | 101 | 0.106 |
| | 3RT13 3., | | | 48 | -- | -- | B | 3RT19 35-5AH01 | 1 | 1 unit | 101 | 0.108 |
| | 3RT15 3. | | | 110 | -- | -- | ▶ | 3RT19 35-5AF01 | 1 | 1 unit | 101 | 0.110 |
| | | | | 230 | -- | -- | ▶ | 3RT19 35-5AP01 | 1 | 1 unit | 101 | 0.108 |
| | | | | 400 | -- | -- | B | 3RT19 35-5AV01 | 1 | 1 unit | 101 | 0.112 |
| | | | | -- | 24 | -- | ▶ | 3RT19 35-5AC21 | 1 | 1 unit | 101 | 0.110 |
| | | -- | 42 | -- | B | 3RT19 35-5AD21 | 1 | 1 unit | 101 | 0.110 | | |
| | | -- | 48 | -- | B | 3RT19 35-5AH21 | 1 | 1 unit | 101 | 0.108 | | |
| | | -- | 110 | -- | A | 3RT19 35-5AG21 | 1 | 1 unit | 101 | 0.108 | | |
| | | -- | 220 | -- | B | 3RT19 35-5AN21 | 1 | 1 unit | 101 | 0.108 | | |
| | | -- | 230 | -- | B | 3RT19 35-5AL21 | 1 | 1 unit | 101 | 0.111 | | |
| | 110 | -- | 120 | B | 3RT19 35-5AK61 | 1 | 1 unit | 101 | 0.108 | | | |
| | 220 | -- | 240 | B | 3RT19 35-5AP61 | 1 | 1 unit | 101 | 0.107 | | | |
| | -- | 100 | 110 | B | 3RT19 35-5AG61 | 1 | 1 unit | 101 | 0.111 | | | |
| | -- | 200 | 220 | B | 3RT19 35-5AN61 | 1 | 1 unit | 101 | 0.088 | | | |
| | -- | 400 | 440 | C | 3RT19 35-5AR61 | 1 | 1 unit | 101 | 0.111 | | | |

* You can order this quantity or a multiple thereof.

Accessories and Spare Parts For 3RT, 3RH Contactors and Contactor Relays

Spare parts for 3RT, 3RH contactors and contactor relays

| For contactor | Rated control supply voltage U_s | DT | Cage Clamp terminals | | PU (UNIT, SET, M) | PS* | PG | Weight per PU approx. | | | | |
|---|---------------------------------------|------------------------------------|----------------------|-----------------|-------------------------|-----------------------|-----------------------|-----------------------------|--------|--------|-------|-------|
| | | | Order No. | Price per PU | | | | | | | | |
| Size | Type | 50 Hz V | 50/60 Hz V | 60 Hz V | | | | kg | | | | |
| Magnetic coils - AC operation | | | | | | | | | | | | |
|  | S0 | 3RT10 2., 3RT13 2., 3RT15 2. | 24 | -- | -- | B | 3RT19 24-5AB02 | 1 | 1 unit | 101 | 0.093 | |
| | | | 42 | -- | -- | C | 3RT19 24-5AD02 | 1 | 1 unit | 101 | 0.089 | |
| | | 48 | -- | -- | B | 3RT19 24-5AH02 | 1 | 1 unit | 101 | 0.095 | | |
| | | 110 | -- | -- | B | 3RT19 24-5AF02 | 1 | 1 unit | 101 | 0.090 | | |
| | | 230 | -- | -- | B | 3RT19 24-5AP02 | 1 | 1 unit | 101 | 0.091 | | |
| | | 400 | -- | -- | C | 3RT19 24-5AV02 | 1 | 1 unit | 101 | 0.092 | | |
| | | -- | 24 | -- | B | 3RT19 24-5AC22 | 1 | 1 unit | 101 | 0.090 | | |
| | | -- | 42 | -- | C | 3RT19 24-5AD22 | 1 | 1 unit | 101 | 0.069 | | |
| | | -- | 48 | -- | C | 3RT19 24-5AH22 | 1 | 1 unit | 101 | 0.092 | | |
| | | -- | 110 | -- | B | 3RT19 24-5AG22 | 1 | 1 unit | 101 | 0.092 | | |
| | | -- | 220 | -- | B | 3RT19 24-5AN22 | 1 | 1 unit | 101 | 0.094 | | |
| | | -- | 230 | -- | B | 3RT19 24-5AL22 | 1 | 1 unit | 101 | 0.093 | | |
| | | 110 | -- | 120 | B | 3RT19 24-5AK62 | 1 | 1 unit | 101 | 0.090 | | |
| | | 220 | -- | 240 | C | 3RT19 24-5AP62 | 1 | 1 unit | 101 | 0.094 | | |
| | | -- | 100 | 110 | C | 3RT19 24-5AG62 | 1 | 1 unit | 101 | 0.094 | | |
| | | -- | 200 | 220 | C | 3RT19 24-5AN62 | 1 | 1 unit | 101 | 0.094 | | |
| | | -- | 400 | 440 | C | 3RT19 24-5AR62 | 1 | 1 unit | 101 | 0.091 | | |
| | | S2 | 3RT10 34 | 24 | -- | -- | B | 3RT19 34-5AB02 | 1 | 1 unit | 101 | 0.105 |
| | | | | 42 | -- | -- | B | 3RT19 34-5AD02 | 1 | 1 unit | 101 | 0.087 |
| | | | | 48 | -- | -- | B | 3RT19 34-5AH02 | 1 | 1 unit | 101 | 0.095 |
| 110 | -- | | | -- | B | 3RT19 34-5AF02 | 1 | 1 unit | 101 | 0.116 | | |
| 230 | -- | | | -- | B | 3RT19 34-5AP02 | 1 | 1 unit | 101 | 0.107 | | |
| 400 | -- | | | -- | B | 3RT19 34-5AV02 | 1 | 1 unit | 101 | 0.115 | | |
| -- | 24 | | | -- | B | 3RT19 34-5AC22 | 1 | 1 unit | 101 | 0.109 | | |
| -- | 42 | | | -- | B | 3RT19 34-5AD22 | 1 | 1 unit | 101 | 0.109 | | |
| -- | 48 | | | -- | B | 3RT19 34-5AH22 | 1 | 1 unit | 101 | 0.113 | | |
| -- | 110 | | | -- | B | 3RT19 34-5AG22 | 1 | 1 unit | 101 | 0.109 | | |
| -- | 220 | | | -- | B | 3RT19 34-5AN22 | 1 | 1 unit | 101 | 0.125 | | |
| -- | 230 | | | -- | B | 3RT19 34-5AL22 | 1 | 1 unit | 101 | 0.112 | | |
| 110 | -- | | | 120 | B | 3RT19 34-5AK62 | 1 | 1 unit | 101 | 0.110 | | |
| 220 | -- | | | 240 | B | 3RT19 34-5AP62 | 1 | 1 unit | 101 | 0.117 | | |
| -- | 100 | | | 110 | B | 3RT19 34-5AG62 | 1 | 1 unit | 101 | 0.083 | | |
| -- | 200 | | | 220 | B | 3RT19 34-5AN62 | 1 | 1 unit | 101 | 0.083 | | |
| -- | 400 | | | 440 | B | 3RT19 34-5AR62 | 1 | 1 unit | 101 | 0.109 | | |
| 3RT10 35, 3RT10 36, 3RT13 3., 3RT15 3. | 24 | | | -- | -- | B | 3RT19 35-5AB02 | 1 | 1 unit | 101 | 0.102 | |
| | 42 | | | -- | -- | B | 3RT19 35-5AD02 | 1 | 1 unit | 101 | 0.088 | |
| | 48 | | | -- | -- | B | 3RT19 35-5AH02 | 1 | 1 unit | 101 | 0.085 | |
| | 110 | -- | -- | B | 3RT19 35-5AF02 | 1 | 1 unit | 101 | 0.104 | | | |
| | 230 | -- | -- | B | 3RT19 35-5AP02 | 1 | 1 unit | 101 | 0.104 | | | |
| | 400 | -- | -- | B | 3RT19 35-5AV02 | 1 | 1 unit | 101 | 0.107 | | | |
| | -- | 24 | -- | B | 3RT19 35-5AC22 | 1 | 1 unit | 101 | 0.106 | | | |
| | -- | 42 | -- | B | 3RT19 35-5AD22 | 1 | 1 unit | 101 | 0.106 | | | |
| | -- | 48 | -- | B | 3RT19 35-5AH22 | 1 | 1 unit | 101 | 0.107 | | | |
| | -- | 110 | -- | B | 3RT19 35-5AG22 | 1 | 1 unit | 101 | 0.103 | | | |
| | -- | 220 | -- | B | 3RT19 35-5AN22 | 1 | 1 unit | 101 | 0.105 | | | |
| | -- | 230 | -- | B | 3RT19 35-5AL22 | 1 | 1 unit | 101 | 0.107 | | | |
| | 110 | -- | 120 | B | 3RT19 35-5AK62 | 1 | 1 unit | 101 | 0.110 | | | |
| | 220 | -- | 240 | B | 3RT19 35-5AP62 | 1 | 1 unit | 101 | 0.104 | | | |
| | -- | 100 | 110 | B | 3RT19 35-5AG62 | 1 | 1 unit | 101 | 0.083 | | | |
| | -- | 200 | 220 | B | 3RT19 35-5AN62 | 1 | 1 unit | 101 | 0.083 | | | |
| | -- | 400 | 440 | B | 3RT19 35-5AR62 | 1 | 1 unit | 101 | 0.110 | | | |





* You can order this quantity or a multiple thereof.

Siemens LV 1 · 2006

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Accessories and Spare Parts For 3RT, 3RH Contactors and Contactor Relays



Spare parts for 3RT, 3RH contactors and contactor relays

| Size | Type | Rated control supply voltage U_s | | | | DT | Screw terminals | | PU (UNIT, SET, M) | PS* | PG | Weight per PU approx. kg | | | | |
|---|------|--|---|------------|---|-----|-----------------|-----------------|-------------------------|-------|----------------|---------------------------------------|-------|--------|-----|-------|
| | | AC | | DC | | | Order No. | Price per PU | | | | | | | | |
| | | 50 Hz V | 50/60 Hz V | 60 Hz V | V | | | | | | | | | | | |
| Magnetic coils · AC operation | | | | | | | | | | | | | | | | |
|  | S3 | 3RT10 44 | 24 | -- | -- | -- | B | 3RT19 44-5AB01 | | 1 | 1 unit | 101 | 0.191 | | | |
| | | | 42 | -- | -- | -- | B | 3RT19 44-5AD01 | | 1 | 1 unit | 101 | 0.188 | | | |
| | | | 48 | -- | -- | -- | B | 3RT19 44-5AH01 | | 1 | 1 unit | 101 | 0.186 | | | |
| | | | 110 | -- | -- | -- | B | 3RT19 44-5AF01 | | 1 | 1 unit | 101 | 0.189 | | | |
| | | | 230 | -- | -- | -- | B | 3RT19 44-5AP01 | | 1 | 1 unit | 101 | 0.180 | | | |
| | | | 400 | -- | -- | -- | B | 3RT19 44-5AV01 | | 1 | 1 unit | 101 | 0.194 | | | |
| | | | -- | 24 | -- | -- | B | 3RT19 44-5AC21 | | 1 | 1 unit | 101 | 0.182 | | | |
| | | | -- | 42 | -- | -- | B | 3RT19 44-5AD21 | | 1 | 1 unit | 101 | 0.199 | | | |
| | | | -- | 48 | -- | -- | B | 3RT19 44-5AH21 | | 1 | 1 unit | 101 | 0.195 | | | |
| | | | -- | 110 | -- | -- | B | 3RT19 44-5AG21 | | 1 | 1 unit | 101 | 0.184 | | | |
| | | | -- | 220 | -- | -- | B | 3RT19 44-5AN21 | | 1 | 1 unit | 101 | 0.179 | | | |
| | | | -- | 230 | -- | -- | B | 3RT19 44-5AL21 | | 1 | 1 unit | 101 | 0.184 | | | |
| | | | -- | 110 | -- | 120 | -- | B | 3RT19 44-5AK61 | | 1 | 1 unit | 101 | 0.190 | | |
| | | | -- | 220 | -- | 240 | -- | B | 3RT19 44-5AP61 | | 1 | 1 unit | 101 | 0.193 | | |
|  | S3 | 3RT10 45, 3RT10 46, 3RT13 4., 3RT14 46, 3RT15 4. | 24 | -- | -- | -- | B | 3RT19 45-5AB01 | | 1 | 1 unit | 101 | 0.169 | | | |
| | | | 42 | -- | -- | -- | B | 3RT19 45-5AD01 | | 1 | 1 unit | 101 | 0.166 | | | |
| | | | 48 | -- | -- | -- | B | 3RT19 45-5AH01 | | 1 | 1 unit | 101 | 0.180 | | | |
| | | | 110 | -- | -- | -- | B | 3RT19 45-5AF01 | | 1 | 1 unit | 101 | 0.170 | | | |
| | | | 230 | -- | -- | -- | B | 3RT19 45-5AP01 | | 1 | 1 unit | 101 | 0.169 | | | |
| | | | 400 | -- | -- | -- | C | 3RT19 45-5AV01 | | 1 | 1 unit | 101 | 0.173 | | | |
| | | | -- | 24 | -- | -- | A | 3RT19 45-5AC21 | | 1 | 1 unit | 101 | 0.168 | | | |
| | | | -- | 42 | -- | -- | B | 3RT19 45-5AD21 | | 1 | 1 unit | 101 | 0.172 | | | |
| | | | -- | 48 | -- | -- | B | 3RT19 45-5AH21 | | 1 | 1 unit | 101 | 0.181 | | | |
| | | | -- | 110 | -- | -- | B | 3RT19 45-5AG21 | | 1 | 1 unit | 101 | 0.169 | | | |
| | | | -- | 220 | -- | -- | B | 3RT19 45-5AN21 | | 1 | 1 unit | 101 | 0.173 | | | |
| | | | -- | 230 | -- | -- | B | 3RT19 45-5AL21 | | 1 | 1 unit | 101 | 0.171 | | | |
| | | | -- | 110 | -- | 120 | -- | B | 3RT19 45-5AK61 | | 1 | 1 unit | 101 | 0.179 | | |
| | | | -- | 220 | -- | 240 | -- | B | 3RT19 45-5AP61 | | 1 | 1 unit | 101 | 0.180 | | |
| -- | 100 | 110 | -- | B | 3RT19 45-5AG61 | | 1 | 1 unit | 101 | 0.130 | | | | | | |
| -- | 200 | 220 | -- | C | 3RT19 45-5AN61 | | 1 | 1 unit | 101 | 0.176 | | | | | | |
| -- | 400 | 440 | -- | B | 3RT19 45-5AR61 | | 1 | 1 unit | 101 | 0.170 | | | | | | |
| Magnetic coils · DC operation | | | | | | | | | | | | | | | | |
|  | S2 | 3RT10 3., 3RT13 3., 3RT15 3. | -- | -- | -- | 24 | B | 3RT19 34-5BB41 | | 1 | 1 unit | 101 | 0.600 | | | |
| | | | -- | -- | -- | 42 | B | 3RT19 34-5BD41 | | 1 | 1 unit | 101 | 0.637 | | | |
| | | | -- | -- | -- | 48 | B | 3RT19 34-5BW41 | | 1 | 1 unit | 101 | 0.618 | | | |
| | | | -- | -- | -- | 60 | B | 3RT19 34-5BE41 | | 1 | 1 unit | 101 | 0.630 | | | |
| | | | -- | -- | -- | 110 | B | 3RT19 34-5BF41 | | 1 | 1 unit | 101 | 0.605 | | | |
| | | | -- | -- | -- | 125 | B | 3RT19 34-5BG41 | | 1 | 1 unit | 101 | 0.632 | | | |
| | | | -- | -- | -- | 220 | B | 3RT19 34-5BM41 | | 1 | 1 unit | 101 | 0.617 | | | |
| | | | -- | -- | -- | 230 | B | 3RT19 34-5BP41 | | 1 | 1 unit | 101 | 0.720 | | | |
| | | |  | S3 | 3RT10 4., 3RT13 4., 3RT14 4., 3RT15 4. | -- | -- | -- | 24 | B | 3RT19 44-5BB41 | | 1 | 1 unit | 101 | 0.997 |
| | | | | | | -- | -- | -- | 42 | C | 3RT19 44-5BD41 | | 1 | 1 unit | 101 | 1.040 |
| -- | -- | -- | | | | 48 | B | 3RT19 44-5BW41 | | 1 | 1 unit | 101 | 0.974 | | | |
| -- | -- | -- | | | | 60 | B | 3RT19 44-5BE41 | | 1 | 1 unit | 101 | 1.035 | | | |
| -- | -- | -- | | | | 110 | B | 3RT19 44-5BF41 | | 1 | 1 unit | 101 | 0.970 | | | |
| -- | -- | -- | | | | 125 | B | 3RT19 44-5BG41 | | 1 | 1 unit | 101 | 0.960 | | | |
| -- | -- | -- | | | | 220 | B | 3RT19 44-5BM41 | | 1 | 1 unit | 101 | 1.004 | | | |
| -- | -- | -- | | | | 230 | B | 3RT19 44-5BP41 | | 1 | 1 unit | 101 | 0.956 | | | |

* You can order this quantity or a multiple thereof.

Accessories and Spare Parts For 3RT, 3RH Contactors and Contactor Relays

Spare parts for 3RT,
3RH contactors and contactor relays

| For contactor | Rated control supply voltage U_s | DT | Cage Clamp terminals | | PU (UNIT, SET, M) | PS* | PG | Weight per PU approx. | | | | | | |
|--|---------------------------------------|------------------------------------|--|---|-------------------------|----------------|----------------|-----------------------------|----------------|----------------|--------|--------|-------|-------|
| | | | Order No. | Price per PU | | | | | | | | | | |
| Size | Type | AC 50 Hz | 50/60 Hz | 60 Hz | | | | kg | | | | | | |
| Magnetic coils - AC operation | | | | | | | | | | | | | | |
|  3RT19 45-5A.02 | S3 | 3RT10 44 | 24 | -- | -- | -- | B | 3RT19 44-5AB02 | 1 | 1 unit | 101 | 0.190 | | |
| | | | 42 | -- | -- | -- | B | 3RT19 44-5AD02 | 1 | 1 unit | 101 | 0.130 | | |
| | | | 48 | -- | -- | -- | B | 3RT19 44-5AH02 | 1 | 1 unit | 101 | 0.171 | | |
| | | | 110 | -- | -- | -- | B | 3RT19 44-5AF02 | 1 | 1 unit | 101 | 0.185 | | |
| | | | 230 | -- | -- | -- | B | 3RT19 44-5AP02 | 1 | 1 unit | 101 | 0.185 | | |
| | | | 400 | -- | -- | -- | B | 3RT19 44-5AV02 | 1 | 1 unit | 101 | 0.190 | | |
| | | | -- | 24 | -- | -- | B | 3RT19 44-5AC22 | 1 | 1 unit | 101 | 0.183 | | |
| | | | -- | 42 | -- | -- | B | 3RT19 44-5AD22 | 1 | 1 unit | 101 | 0.130 | | |
| | | | -- | 48 | -- | -- | B | 3RT19 44-5AH22 | 1 | 1 unit | 101 | 0.190 | | |
| | | | -- | 110 | -- | -- | B | 3RT19 44-5AG22 | 1 | 1 unit | 101 | 0.185 | | |
| | | | -- | 220 | -- | -- | B | 3RT19 44-5AN22 | 1 | 1 unit | 101 | 0.130 | | |
| | | | -- | 230 | -- | -- | B | 3RT19 44-5AL22 | 1 | 1 unit | 101 | 0.178 | | |
| | | | 110 | -- | 120 | -- | B | 3RT19 44-5AK62 | 1 | 1 unit | 101 | 0.188 | | |
| | | | 220 | -- | 240 | -- | B | 3RT19 44-5AP62 | 1 | 1 unit | 101 | 0.188 | | |
| | | | -- | 100 | 110 | -- | B | 3RT19 44-5AG62 | 1 | 1 unit | 101 | 0.123 | | |
| | | | -- | 200 | 220 | -- | B | 3RT19 44-5AN62 | 1 | 1 unit | 101 | 0.123 | | |
| | | | -- | 400 | 440 | -- | B | 3RT19 44-5AR62 | 1 | 1 unit | 101 | 0.177 | | |
| | | | 3RT10 45, 3RT10 46, 3RT13 4., 3RT14 46, 3RT15 4. | 24 | -- | -- | -- | B | 3RT19 45-5AB02 | 1 | 1 unit | 101 | 0.165 | |
| | | | | 42 | -- | -- | -- | B | 3RT19 45-5AD02 | 1 | 1 unit | 101 | 0.130 | |
| | | | | 48 | -- | -- | -- | B | 3RT19 45-5AH02 | 1 | 1 unit | 101 | 0.130 | |
| | | | | 110 | -- | -- | -- | B | 3RT19 45-5AF02 | 1 | 1 unit | 101 | 0.169 | |
| | | | | 230 | -- | -- | -- | B | 3RT19 45-5AP02 | 1 | 1 unit | 101 | 0.170 | |
| | | | | 400 | -- | -- | -- | B | 3RT19 45-5AV02 | 1 | 1 unit | 101 | 0.157 | |
| | | | | -- | 24 | -- | -- | B | 3RT19 45-5AC22 | 1 | 1 unit | 101 | 0.166 | |
| | | | | -- | 42 | -- | -- | B | 3RT19 45-5AD22 | 1 | 1 unit | 101 | 0.130 | |
| | | | | -- | 48 | -- | -- | B | 3RT19 45-5AH22 | 1 | 1 unit | 101 | 0.174 | |
| | | | | -- | 110 | -- | -- | B | 3RT19 45-5AG22 | 1 | 1 unit | 101 | 0.161 | |
| | | | | -- | 220 | -- | -- | B | 3RT19 45-5AN22 | 1 | 1 unit | 101 | 0.170 | |
| | -- | 230 | -- | -- | B | 3RT19 45-5AL22 | 1 | 1 unit | 101 | 0.163 | | | | |
| | 110 | -- | 120 | -- | B | 3RT19 45-5AK62 | 1 | 1 unit | 101 | 0.171 | | | | |
| | 220 | -- | 240 | -- | B | 3RT19 45-5AP62 | 1 | 1 unit | 101 | 0.130 | | | | |
| | -- | 100 | 110 | -- | B | 3RT19 45-5AG62 | 1 | 1 unit | 101 | 0.123 | | | | |
| | -- | 200 | 220 | -- | B | 3RT19 45-5AN62 | 1 | 1 unit | 101 | 0.123 | | | | |
| | -- | 400 | 440 | -- | B | 3RT19 45-5AR62 | 1 | 1 unit | 101 | 0.169 | | | | |
| Magnetic coils - DC operation | | | | | | | | | | | | | | |
|  3RT19 44-5B0.42 | S2 | 3RT10 3., 3RT13 3., 3RT15 3. | -- | -- | -- | 24 | B | 3RT19 34-5BB42 | 1 | 1 unit | 101 | 0.625 | | |
| | | | -- | -- | -- | 42 | C | 3RT19 34-5BD42 | 1 | 1 unit | 101 | 0.557 | | |
| | | | -- | -- | -- | 48 | B | 3RT19 34-5BW42 | 1 | 1 unit | 101 | 0.652 | | |
| | | | -- | -- | -- | 60 | B | 3RT19 34-5BE42 | 1 | 1 unit | 101 | 0.633 | | |
| | | | -- | -- | -- | 110 | B | 3RT19 34-5BF42 | 1 | 1 unit | 101 | 0.612 | | |
| | | | -- | -- | -- | 125 | C | 3RT19 34-5BG42 | 1 | 1 unit | 101 | 0.557 | | |
| | | | -- | -- | -- | 220 | B | 3RT19 34-5BM42 | 1 | 1 unit | 101 | 0.637 | | |
| | | | -- | -- | -- | 230 | B | 3RT19 34-5BP42 | 1 | 1 unit | 101 | 0.602 | | |
| | | | S3 | 3RT10 4., 3RT13 4., 3RT14 4., 3RT15 4. | -- | -- | -- | 24 | B | 3RT19 44-5BB42 | 1 | 1 unit | 101 | 1.034 |
| | | | | | -- | -- | -- | 42 | B | 3RT19 44-5BD42 | 1 | 1 unit | 101 | 0.805 |
| | | | | | -- | -- | -- | 48 | B | 3RT19 44-5BW42 | 1 | 1 unit | 101 | 1.009 |
| | | | | | -- | -- | -- | 60 | B | 3RT19 44-5BE42 | 1 | 1 unit | 101 | 1.016 |
| | | | | | -- | -- | -- | 110 | B | 3RT19 44-5BF42 | 1 | 1 unit | 101 | 0.970 |
| | | | | | -- | -- | -- | 125 | B | 3RT19 44-5BG42 | 1 | 1 unit | 101 | 0.805 |
| -- | -- | -- | | | 220 | B | 3RT19 44-5BM42 | 1 | 1 unit | 101 | 0.959 | | | |
| -- | -- | -- | 230 | B | 3RT19 44-5BP42 | 1 | 1 unit | 101 | 0.958 | | | | | |


* You can order this quantity or a multiple thereof.

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Accessories and Spare Parts For 3RT, 3RH Contactors and Contactor Relays

Spare parts for 3RT,
3RH contactors and contactor relays

| For contactor | | Rated control supply voltage $U_s \text{ min} \dots U_s \text{ max}$ | DT | Screw terminals | PU (UNIT, SET, M) | PS* | PG | Weight per PU approx. | | |
|---|--|---|---------------------|-----------------------|-----------------------|-----------------------|--------|-----------------------|-------|-------|
| Size | Type | V AC/DC | | Order No. | Price per PU | | | kg | | |
| Withdrawable coils | | | | | | | | | | |
| <i>Conventional operating mechanism</i> | | | | | | | | | | |
|  | S6 | 3RT10 5, 3RT14 5 | 23 ... 26 | B | 3RT19 55-5AB31 | 1 | 1 unit | 101 | 0.620 | |
| | | | 42 ... 48 | B | 3RT19 55-5AD31 | 1 | 1 unit | 101 | 0.576 | |
| | | 110 ... 127 | B | 3RT19 55-5AF31 | 1 | 1 unit | 101 | 0.591 | | |
| | | 200 ... 220 | B | 3RT19 55-5AM31 | 1 | 1 unit | 101 | 0.568 | | |
| | | 220 ... 240 | B | 3RT19 55-5AP31 | 1 | 1 unit | 101 | 0.580 | | |
| | | 240 ... 277 | B | 3RT19 55-5AU31 | 1 | 1 unit | 101 | 0.579 | | |
| | | 380 ... 420 | B | 3RT19 55-5AV31 | 1 | 1 unit | 101 | 0.569 | | |
| | | 440 ... 480 | B | 3RT19 55-5AR31 | 1 | 1 unit | 101 | 0.613 | | |
| | | 500 ... 550 | B | 3RT19 55-5AS31 | 1 | 1 unit | 101 | 0.610 | | |
| | | 575 ... 600 | B | 3RT19 55-5AT31 | 1 | 1 unit | 101 | 0.605 | | |
| | | S10 | 3RT10 6, 3RT14 6 | 23 ... 26 | B | 3RT19 65-5AB31 | 1 | 1 unit | 101 | 0.850 |
| | | | | 42 ... 48 | B | 3RT19 65-5AD31 | 1 | 1 unit | 101 | 0.840 |
| | | | | 110 ... 127 | B | 3RT19 65-5AF31 | 1 | 1 unit | 101 | 0.809 |
| | | | | 200 ... 220 | C | 3RT19 65-5AM31 | 1 | 1 unit | 101 | 0.805 |
| 220 ... 240 | B | | | 3RT19 65-5AP31 | 1 | 1 unit | 101 | 0.784 | | |
| 240 ... 277 | B | | | 3RT19 65-5AU31 | 1 | 1 unit | 101 | 0.840 | | |
| 380 ... 420 | B | | | 3RT19 65-5AV31 | 1 | 1 unit | 101 | 0.817 | | |
| 440 ... 480 | B | | | 3RT19 65-5AR31 | 1 | 1 unit | 101 | 0.825 | | |
| 500 ... 550 | C | | | 3RT19 65-5AS31 | 1 | 1 unit | 101 | 0.829 | | |
| 575 ... 600 | C | | | 3RT19 65-5AT31 | 1 | 1 unit | 101 | 0.792 | | |
| S10 | 3RT12 6 Vacuum contactor | 23 ... 26 | B | 3RT19 66-5AB31 | 1 | 1 unit | 101 | 1.060 | | |
| | | 42 ... 48 | B | 3RT19 66-5AD31 | 1 | 1 unit | 101 | 0.995 | | |
| | | 110 ... 127 | A | 3RT19 66-5AF31 | 1 | 1 unit | 101 | 1.003 | | |
| | | 200 ... 220 | C | 3RT19 66-5AM31 | 1 | 1 unit | 101 | 0.650 | | |
| | | 220 ... 240 | A | 3RT19 66-5AP31 | 1 | 1 unit | 101 | 0.930 | | |
| | | 240 ... 277 | C | 3RT19 66-5AU31 | 1 | 1 unit | 101 | 0.997 | | |
| | | 380 ... 420 | B | 3RT19 66-5AV31 | 1 | 1 unit | 101 | 0.825 | | |
| | | 440 ... 480 | C | 3RT19 66-5AR31 | 1 | 1 unit | 101 | 0.650 | | |
| | | 500 ... 550 | C | 3RT19 66-5AS31 | 1 | 1 unit | 101 | 0.650 | | |
| | | 575 ... 600 | C | 3RT19 66-5AT31 | 1 | 1 unit | 101 | 0.650 | | |
| S12 | 3RT10 7, 3RT14 7, 3RT12 7 Vacuum contactor | 23 ... 26 | B | 3RT19 75-5AB31 | 1 | 1 unit | 101 | 1.425 | | |
| | | 42 ... 48 | B | 3RT19 75-5AD31 | 1 | 1 unit | 101 | 1.255 | | |
| | | 110 ... 127 | B | 3RT19 75-5AF31 | 1 | 1 unit | 101 | 1.311 | | |
| | | 200 ... 220 | C | 3RT19 75-5AM31 | 1 | 1 unit | 101 | 1.200 | | |
| | | 220 ... 240 | B | 3RT19 75-5AP31 | 1 | 1 unit | 101 | 1.204 | | |
| | | 240 ... 277 | B | 3RT19 75-5AU31 | 1 | 1 unit | 101 | 1.308 | | |
| | | 380 ... 420 | B | 3RT19 75-5AV31 | 1 | 1 unit | 101 | 1.218 | | |
| | | 440 ... 480 | B | 3RT19 75-5AR31 | 1 | 1 unit | 101 | 1.261 | | |
| | | 500 ... 550 | C | 3RT19 75-5AS31 | 1 | 1 unit | 101 | 1.202 | | |
| | | 575 ... 600 | C | 3RT19 75-5AT31 | 1 | 1 unit | 101 | 1.139 | | |

Accessories and Spare Parts For 3RT, 3RH Contactors and Contactor Relays

Spare parts for 3RT, 3RH contactors and contactor relays

| For contactor | | Rated control supply voltage $U_s \text{ min} \dots U_s \text{ max}$ | DT | Cage Clamp terminals | PU (UNIT, SET, M) | PS* | PG | Weight per PU approx. |
|---|--|---|----|-----------------------|-------------------|-----|--------|-----------------------|
| Size | Type | V AC/DC | | Order No. | Price per PU | | | kg |
| Withdrawable coils | | | | | | | | |
| <i>Conventional operating mechanism</i> | | | | | | | | |
| S6 | 3RT10 5, 3RT14 5 | 23 ... 26 | B | 3RT19 55-5AB32 | | 1 | 1 unit | 101 0.649 |
| | | 42 ... 48 | B | 3RT19 55-5AD32 | | 1 | 1 unit | 101 0.576 |
| | | 110 ... 127 | B | 3RT19 55-5AF32 | | 1 | 1 unit | 101 0.591 |
| | | 200 ... 220 | B | 3RT19 55-5AM32 | | 1 | 1 unit | 101 0.568 |
| | | 220 ... 240 | B | 3RT19 55-5AP32 | | 1 | 1 unit | 101 0.568 |
| | | 240 ... 277 | B | 3RT19 55-5AU32 | | 1 | 1 unit | 101 0.579 |
| | | 380 ... 420 | B | 3RT19 55-5AV32 | | 1 | 1 unit | 101 0.569 |
| | | 440 ... 480 | B | 3RT19 55-5AR32 | | 1 | 1 unit | 101 0.613 |
| | | 500 ... 550 | B | 3RT19 55-5AS32 | | 1 | 1 unit | 101 0.610 |
| | | 575 ... 600 | B | 3RT19 55-5AT32 | | 1 | 1 unit | 101 0.605 |
| S10 | 3RT10 6, 3RT14 6 | 23 ... 26 | B | 3RT19 65-5AB32 | | 1 | 1 unit | 101 0.835 |
| | | 42 ... 48 | B | 3RT19 65-5AD32 | | 1 | 1 unit | 101 0.840 |
| | | 110 ... 127 | B | 3RT19 65-5AF32 | | 1 | 1 unit | 101 0.809 |
| | | 200 ... 220 | B | 3RT19 65-5AM32 | | 1 | 1 unit | 101 0.805 |
| | | 220 ... 240 | B | 3RT19 65-5AP32 | | 1 | 1 unit | 101 0.784 |
| | | 240 ... 277 | B | 3RT19 65-5AU32 | | 1 | 1 unit | 101 0.855 |
| | | 380 ... 420 | B | 3RT19 65-5AV32 | | 1 | 1 unit | 101 0.817 |
| | | 440 ... 480 | B | 3RT19 65-5AR32 | | 1 | 1 unit | 101 0.825 |
| | | 500 ... 550 | B | 3RT19 65-5AS32 | | 1 | 1 unit | 101 0.829 |
| | | 575 ... 600 | B | 3RT19 65-5AT32 | | 1 | 1 unit | 101 0.650 |
| S12 | 3RT10 7, 3RT14 7, 3RT12 7 Vacuum contactor | 23 ... 26 | B | 3RT19 75-5AB32 | | 1 | 1 unit | 101 1.425 |
| | | 42 ... 48 | B | 3RT19 75-5AD32 | | 1 | 1 unit | 101 1.255 |
| | | 110 ... 127 | B | 3RT19 75-5AF32 | | 1 | 1 unit | 101 1.311 |
| | | 200 ... 220 | B | 3RT19 75-5AM32 | | 1 | 1 unit | 101 1.100 |
| | | 220 ... 240 | B | 3RT19 75-5AP32 | | 1 | 1 unit | 101 1.204 |
| | | 240 ... 277 | B | 3RT19 75-5AU32 | | 1 | 1 unit | 101 1.308 |
| | | 380 ... 420 | B | 3RT19 75-5AV32 | | 1 | 1 unit | 101 1.218 |
| | | 440 ... 480 | B | 3RT19 75-5AR32 | | 1 | 1 unit | 101 1.261 |
| | | 500 ... 550 | B | 3RT19 75-5AS32 | | 1 | 1 unit | 101 1.202 |
| | | 575 ... 600 | B | 3RT19 75-5AT32 | | 1 | 1 unit | 101 1.139 |

* You can order this quantity or a multiple thereof.

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Accessories and Spare Parts For 3RT, 3RH Contactors and Contactor Relays

Spare parts for 3RT, 3RH contactors and contactor relays

| For contactor | Rated control supply voltage U_s | DT | Screw terminals | PU (UNIT, SET, M) | PS* | PG | Weight per PU approx. |
|---------------|------------------------------------|---------|-----------------|-------------------|-----|----|-----------------------|
| Size | Type | V AC/DC | Order No. | Price per PU | | | kg |

Withdrawable coils

Solid-state operating mechanism

For 24 V DC PLC output



3RT19 55-5N...

| S6 | 3RT10 5, 3RT14 5 | 21 ... 27.3 96 ... 127 200 ... 277 | C B B | 3RT19 55-5NB31 3RT19 55-5NF31 3RT19 55-5NP31 | 1 1 1 | 1 unit 1 unit 1 unit | 101 101 101 | 0.636 0.567 0.567 |
|-----|--|--|-------------|--|-------------|----------------------------|-------------------|-------------------------|
| S10 | 3RT10 6, 3RT14 6 | 21 ... 27.3 96 ... 127 200 ... 277 | B | 3RT19 65-5NB31 | 1 | 1 unit | 101 | 0.808 |
| | | | B | 3RT19 65-5NF31 | 1 | 1 unit | 101 | 0.926 |
| | | | B | 3RT19 65-5NP31 | 1 | 1 unit | 101 | 0.813 |
| S12 | 3RT10 7, 3RT14 7, 3RT12 7 Vacuum contactor | 21 ... 27.3 96 ... 127 200 ... 277 | B | 3RT19 66-5NB31 | 1 | 1 unit | 101 | 0.650 |
| | | | C | 3RT19 66-5NF31 | 1 | 1 unit | 101 | 0.650 |
| | | | C | 3RT19 66-5NP31 | 1 | 1 unit | 101 | 1.030 |
| S12 | 3RT10 7, 3RT14 7, 3RT12 7 Vacuum contactor | 21 ... 27.3 96 ... 127 200 ... 277 | B | 3RT19 75-5NB31 | 1 | 1 unit | 101 | 1.355 |
| | | | B | 3RT19 75-5NF31 | 1 | 1 unit | 101 | 0.951 |
| | | | B | 3RT19 75-5NP31 | 1 | 1 unit | 101 | 1.061 |

For 24 V DC PLC output/PLC relay output, with remaining lifetime indication (RLT)

(Withdrawable coil with lateral solid-state module)

| | | | | | | | | |
|-----|----------|-------------|---|----------------|---|--------|-----|-------|
| S6 | 3RT10 5, | 96 ... 127 | B | 3RT19 55-5PF31 | 1 | 1 unit | 101 | 0.570 |
| | 3RT14 5 | 200 ... 277 | B | 3RT19 55-5PP31 | 1 | 1 unit | 101 | 0.955 |
| S10 | 3RT10 6, | 96 ... 127 | B | 3RT19 65-5PF31 | 1 | 1 unit | 101 | 1.368 |
| | 3RT14 6 | 200 ... 277 | B | 3RT19 65-5PP31 | 1 | 1 unit | 101 | 1.176 |
| S12 | 3RT10 7, | 96 ... 127 | B | 3RT19 75-5PF31 | 1 | 1 unit | 101 | 1.100 |
| | 3RT14 7 | 200 ... 277 | B | 3RT19 75-5PP31 | 1 | 1 unit | 101 | 1.424 |

With AS-Interface and remaining lifetime indication (RLT)

(Withdrawable coil with lateral solid-state module)

| | | | | | | | | |
|-----|----------|-------------|---|----------------|---|--------|-----|-------|
| S6 | 3RT10 5, | 96 ... 127 | B | 3RT19 55-5QF31 | 1 | 1 unit | 101 | 0.961 |
| | 3RT14 5 | 200 ... 277 | B | 3RT19 55-5QP31 | 1 | 1 unit | 101 | 0.946 |
| S10 | 3RT10 6, | 96 ... 127 | B | 3RT19 65-5QF31 | 1 | 1 unit | 101 | 0.650 |
| | 3RT14 6 | 200 ... 277 | B | 3RT19 65-5QP31 | 1 | 1 unit | 101 | 0.650 |
| S12 | 3RT10 7, | 96 ... 127 | B | 3RT19 75-5QF31 | 1 | 1 unit | 101 | 1.100 |
| | 3RT14 7 | 200 ... 277 | B | 3RT19 75-5QP31 | 1 | 1 unit | 101 | 1.460 |

| For contactor | Rated control supply voltage U_s | DT | Cage Clamp terminals | PU (UNIT, SET, M) | PS* | PG | Weight per PU approx. |
|---------------|------------------------------------|---------|----------------------|-------------------|-----|----|-----------------------|
| Size | Type | V AC/DC | Order No. | Price per PU | | | kg |

Withdrawable coils

Solid-state operating mechanism

For 24 V DC PLC output

| | | | | | | | | |
|-----|--|--|---|----------------|---|--------|-----|-------|
| S6 | 3RT10 5, 3RT14 5 | 21 ... 27.3 96 ... 127 200 ... 277 | B | 3RT19 55-5NB32 | 1 | 1 unit | 101 | 0.654 |
| | | | B | 3RT19 55-5NF32 | 1 | 1 unit | 101 | 0.567 |
| | | | B | 3RT19 55-5NP32 | 1 | 1 unit | 101 | 0.567 |
| S10 | 3RT10 6, 3RT14 6 | 21 ... 27.3 96 ... 127 200 ... 277 | B | 3RT19 65-5NB32 | 1 | 1 unit | 101 | 0.808 |
| | | | B | 3RT19 65-5NF32 | 1 | 1 unit | 101 | 0.926 |
| | | | B | 3RT19 65-5NP32 | 1 | 1 unit | 101 | 0.813 |
| S12 | 3RT10 7, 3RT14 7, 3RT12 7 Vacuum contactor | 21 ... 27.3 96 ... 127 200 ... 277 | B | 3RT19 75-5NB32 | 1 | 1 unit | 101 | 1.355 |
| | | | B | 3RT19 75-5NF32 | 1 | 1 unit | 101 | 0.951 |
| | | | B | 3RT19 75-5NP32 | 1 | 1 unit | 101 | 1.061 |

Accessories and Spare Parts For 3RT, 3RH Contactors and Contactor Relays

Spare parts for 3RT, 3RH contactors and contactor relays

| For contactor | Version | DT | Order No. | Price per PU | PU (UNIT, SET, M) | PS* | PG | Weight per PU approx. kg |
|--|----------------------------------|--|-----------|--------------------|-------------------|-----|--------|--------------------------|
| Size | Type | | | | | | | |
| Arc chutes | | | | | | | | |
| S2 | 3RT10 3 | Arc chute, 3-pole | C | 3RT19 36-7A | | 1 | 1 unit | 101 0.112 |
| S3 | 3RT10 4, 3RT14 46 | | C | 3RT19 46-7A | | 1 | 1 unit | 101 0.299 |
| S6 | 3RT10 54 3RT10 55 3RT10 56 | | B | 3RT19 54-7A | | 1 | 1 unit | 101 0.760 |
| | | | B | 3RT19 55-7A | | 1 | 1 unit | 101 0.760 |
| | | | B | 3RT19 56-7A | | 1 | 1 unit | 101 0.755 |
| S10 | 3RT10 64 3RT10 65 3RT10 66 | | B | 3RT19 64-7A | | 1 | 1 unit | 101 1.355 |
| | | | B | 3RT19 65-7A | | 1 | 1 unit | 101 1.355 |
| | | | B | 3RT19 66-7A | | 1 | 1 unit | 101 1.355 |
| S12 | 3RT10 75 3RT10 76 | | B | 3RT19 75-7A | | 1 | 1 unit | 101 1.643 |
| | | | B | 3RT19 76-7A | | 1 | 1 unit | 101 1.650 |
| S6 | 3RT14 56 | | B | 3RT19 56-7B | | 1 | 1 unit | 101 0.720 |
| S10 | 3RT14 66 | | B | 3RT19 66-7B | | 1 | 1 unit | 101 1.350 |
| S12 | 3RT14 76 | | B | 3RT19 76-7B | | 1 | 1 unit | 101 1.400 |
| Contacts with fixing parts | | | | | | | | |
| <i>For contactors with 3 main contacts</i> | | | | | | | | |
| S2 | 3RT10 34 3RT10 35 3RT10 36 | Main contacts (3 NO contacts) for utilization category AC-3 (1 set = 3 movable and 6 fixed switching elements with fixing parts) | | 3RT19 34-6A | | 1 | 1 set | 101 0.041 |
| | | | | 3RT19 35-6A | | 1 | 1 set | 101 0.044 |
| | | | | 3RT19 36-6A | | 1 | 1 set | 101 0.046 |
| S3 | 3RT10 44 3RT10 45 3RT10 46 | | | 3RT19 44-6A | | 1 | 1 set | 101 0.098 |
| | | | | 3RT19 45-6A | | 1 | 1 set | 101 0.111 |
| | | | | 3RT19 46-6A | | 1 | 1 set | 101 0.116 |
| S6 | 3RT10 54 3RT10 55 3RT10 56 | | | 3RT19 54-6A | | 1 | 1 set | 101 0.239 |
| | | | | 3RT19 55-6A | | 1 | 1 set | 101 0.281 |
| | | | | 3RT19 56-6A | | 1 | 1 set | 101 0.295 |
| S10 | 3RT10 64 3RT10 65 3RT10 66 | | | 3RT19 64-6A | | 1 | 1 set | 101 0.443 |
| | | | | 3RT19 65-6A | | 1 | 1 set | 101 0.513 |
| | | | | 3RT19 66-6A | | 1 | 1 set | 101 0.555 |
| S12 | 3RT10 75 3RT10 76 | | | 3RT19 75-6A | | 1 | 1 set | 101 0.766 |
| | | | A | 3RT19 76-6A | | 1 | 1 set | 101 0.915 |
| S3 | 3RT14 46 | Main contacts (3 NO contacts) for utilization category AC-1 (1 set = 3 movable and 6 fixed switching elements with fixing parts) | B | 3RT19 46-6D | | 1 | 1 set | 101 0.113 |
| S6 | 3RT14 56 | | B | 3RT19 56-6D | | 1 | 1 set | 101 0.285 |
| S10 | 3RT14 66 | | B | 3RT19 66-6D | | 1 | 1 set | 101 0.543 |
| S12 | 3RT14 76 | | A | 3RT19 76-6D | | 1 | 1 set | 101 0.899 |
| <i>For 3RT12 vacuum contactors</i> | | | | | | | | |
| S10 | 3RT12 64 3RT12 65 3RT12 66 | 3 vacuum interrupters with fixing parts | B | 3RT19 64-6V | | 1 | 1 set | 101 1.530 |
| | | | B | 3RT19 65-6V | | 1 | 1 set | 101 1.525 |
| | | | B | 3RT19 66-6V | | 1 | 1 set | 101 1.520 |
| S12 | 3RT12 75 3RT12 76 | | B | 3RT19 75-6V | | 1 | 1 set | 101 1.775 |
| | | | B | 3RT19 76-6V | | 1 | 1 set | 101 1.775 |
| <i>For contactors with 4 main contacts</i> | | | | | | | | |
| S2 | 3RT13 26 | Main contacts (4 NO contacts) for utilization category AC-1 (1 set = 4 movable and 8 fixed switching elements with fixing parts) | B | 3RT19 36-6E | | 1 | 1 set | 101 0.058 |
| S3 | 3RT13 44 3RT13 46 | | C | 3RT19 44-6E | | 1 | 1 set | 101 0.149 |
| | | | C | 3RT19 46-6E | | 1 | 1 set | 101 0.150 |

* You can order this quantity or a multiple thereof.




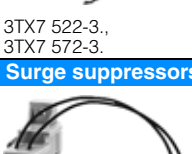



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Accessories and Spare Parts For 3T Contactors and Contactor Relays

Accessories for 3TB, 3TC, 3TF, 3TG, 3TK contactors

Selection and ordering data




| For contactor | Version | Rated control supply voltage U_s | DT | Order No. | Price per PU | PU (UNIT, SET, M) | PS* | PG | Weight per PU approx. | | | | | | | | | | |
|---|-----------------|------------------------------------|---|-----------------|------------------------|--|--------------------|----|-----------------------|------|-------|--------------------|------|----|--------------------|---|--------|-----|-------|
| | | | | | | | | | | Size | Type | V AC | V DC | kg | | | | | |
| Surge suppressors¹⁾ - Varistors | | | | | | | | | | | | | | | | | | | |
|  | 2 | 3TC44 ²⁾ | Varistors³⁾ With line spacer, for mounting onto the coil terminal | 24 ... 48 | 24 ... 70 | A | 3TX7 402-3G | 1 | 1 unit | 101 | 0.015 | | | | | | | | |
| | | | | 48 ... 127 | 70 ... 150 | A | | | | | | 3TX7 402-3H | | | | | | | |
| | | | | 127 ... 240 | 150 ... 250 | A | | | | | | 3TX7 402-3J | | | | | | | |
| | | | | 240 ... 400 | -- | C | | | | | | 3TX7 402-3K | | | | | | | |
| | | | | 400 ... 600 | -- | C | | | | | | 3TX7 402-3L | | | | | | | |
|  | 4 and 6 | 3TB50 and 3TC56 | Varistors³⁾ For sticking onto the contactor base or for mounting separately | 24 ... 48 | 24 ... 70 | D | 3TX7 462-3G | 1 | 1 unit | 101 | 0.013 | | | | | | | | |
| | | | | 48 ... 127 | 70 ... 150 | C | | | | | | 3TX7 462-3H | | | | | | | |
| | | | | 127 ... 240 | 150 ... 250 | B | | | | | | 3TX7 462-3J | | | | | | | |
| | | | | 240 ... 400 | -- | A | | | | | | 3TX7 462-3K | | | | | | | |
| | | | | 400 ... 600 | -- | D | | | | | | 3TX7 462-3L | | | | | | | |
|  | 8 and 12 | 3TC52 and 3TC56 | Varistors For sticking onto the contactor base or for mounting separately | 24 ... 48 | -- | D | 3TX7 462-3G | 1 | 1 unit | 101 | 0.013 | | | | | | | | |
| | | | | 48 ... 127 | -- | C | | | | | | 3TX7 462-3H | | | | | | | |
| | | | | 127 ... 240 | -- | B | | | | | | 3TX7 462-3J | | | | | | | |
| | | | | 240 ... 400 | -- | A | | | | | | 3TX7 462-3K | | | | | | | |
| | | | | 400 ... 600 | -- | D | | | | | | 3TX7 462-3L | | | | | | | |
|  | 8 ... 12 | 3TB52 ... 3TB56, 3TC52 and 3TC56 | Varistors³⁾ For separate screw connection or snapping onto 35 mm standard mounting rail | -- | 24 ... 70 | B | 3TX7 522-3G | 1 | 1 unit | 101 | 0.083 | | | | | | | | |
| | | | | -- | 70 ... 150 | B | | | | | | 3TX7 522-3H | | | | | | | |
| | | | | -- | 150 ... 250 | B | | | | | | 3TX7 522-3J | | | | | | | |
| | | | | -- | -- | -- | | | | | | 3TX7 522-3K | | | | | | | |
| | | | | -- | -- | -- | | | | | | 3TX7 522-3L | | | | | | | |
|  | 14 | 3TF68 and 3TF69 | Varistors³⁾ For DC economy circuit; for snapping onto the side of auxiliary switches | -- | 24 ... 48 | C | 3TX7 572-3G | 1 | 1 unit | 101 | 0.075 | | | | | | | | |
| | | | | -- | 48 ... 127 | C | | | | | | 3TX7 572-3H | | | | | | | |
| | | | | -- | 127 ... 240 | C | | | | | | 3TX7 572-3J | | | | | | | |
| | | | | -- | -- | -- | | | | | | 3TX7 572-3K | | | | | | | |
| | | | | -- | -- | -- | | | | | | 3TX7 572-3L | | | | | | | |
| Surge suppressors - RC elements | | | | | | | | | | | | | | | | | | | |
|  | 4 | 3TC48 | RC elements For lateral snapping onto auxiliary switch or 35 mm standard mounting rail | 24 ... 48 | -- | C | 3TX7 462-3R | 1 | 1 unit | 101 | 0.084 | | | | | | | | |
| | | | | -- | 24 ... 70 | B | | | | | | 3TX7 522-3R | | | | | | | |
| | | | | 48 ... 127 | -- | A | | | | | | 3TX7 462-3S | | | | | | | |
| | | | | -- | 70 ... 150 | B | | | | | | 3TX7 522-3S | | | | | | | |
| | | | | 127 ... 240 | -- | A | | | | | | 3TX7 462-3T | | | | | | | |
| | | | | -- | 150 ... 250 | B | | | | | | 3TX7 522-3T | | | | | | | |
| | | | | 240 ... 400 | -- | A | | | | | | 3TX7 462-3U | | | | | | | |
| | | | | 400 ... 600 | -- | C | | | | | | 3TX7 462-3V | | | | | | | |
| | | | | 6 ... 12 | 3TB50, 3TC52 and 3TC56 | RC elements For lateral snapping onto auxiliary switch or 35 mm standard mounting rail | | | | | | 24 ... 48 | -- | B | 3TX7 522-3R | 1 | 1 unit | 101 | 0.080 |
| | | | | | | | | | | | | 48 ... 127 | -- | B | | | | | |
| 127 ... 240 | -- | B | 3TX7 522-3T | | | | | | | | | | | | | | | | |
| 240 ... 400 | -- | B | 3TX7 522-3U | | | | | | | | | | | | | | | | |
| 400 ... 600 | -- | B | 3TX7 522-3V | | | | | | | | | | | | | | | | |
| -- | -- | -- | 3TX7 522-3W | | | | | | | | | | | | | | | | |
| Surge suppressors⁴⁾ - Diodes | | | | | | | | | | | | | | | | | | | |
|  | 6 ... 12 | 3TB52 ... 3TB56, 3TC48 ... 3TC56 | Diode assemblies (diode and Zener diode) For DC solenoid system, for sticking onto the contactor base or for mounting separately | -- | 24 ... 250 | D | 3TX7 462-3D | 1 | 1 unit | 101 | 0.014 | | | | | | | | |
| | | | | -- | -- | -- | | | | | | 3TX7 462-3E | | | | | | | |
| | | | | -- | -- | -- | | | | | | 3TX7 462-3F | | | | | | | |
| | | | | -- | -- | -- | | | | | | 3TX7 462-3G | | | | | | | |
| | | | | -- | -- | -- | | | | | | 3TX7 462-3H | | | | | | | |

- 1) The surge suppressor is integrated as standard in the following contactors: 3TF68 and 3TF69 (AC operation); varistor circuit.
- 2) The connection piece for mounting the surge suppressor must be bent slightly.
- 3) Includes the peak value of the ripple voltage on the DC side.
- 4) Not for DC economy circuit.

* You can order this quantity or a multiple thereof.

Accessories and Spare Parts For 3T Contactors and Contactor Relays

Accessories for 3TB, 3TC, 3TF, 3TG, 3TK contactors

| For contactor | Version | DT | Order No. | Price per PU | PU (UNIT, SET, M) | PS* | PG | Weight per PU approx. kg | |
|--|------------------------------|---|---|--------------|-----------------------|-----|--------|--------------------------|-------|
| Size | Type | | | | | | | | |
| Solid-state compatible auxiliary switch blocks with screw terminals | | | | | | | | | |
|  | 14 and 2 | 3TF68 | For mounting onto the side of contactors. | B | 3TY7 561-1UA00 | 1 | 1 unit | 101 | 0.053 |
| | | 3TF69 | For use in dusty atmosphere and solid-state circuits with rated operating currents I_e /AC-14 and DC-13 from 1 mA to 300 mA at 3 V to 60 V. | | | | | | |
| | | 3TC44... | With 1 changeover contact. | | | | | | |
| | | 3TC48 | 2nd auxiliary switch block, left or right (replacement for 3TY6 561-1U, 3TY6 561-1V) | | | | | | |
| 5TY7 561-1. | | | | | | | | | |
| Coupling links for control by PLC | | | | | | | | | |
| 14 | 3TF68 and 3TF69 | | Operating range: 17 to 30 V DC. Power consumption: 0.5 W at 24 V DC. Fitted with varistor. For technical specifications, see LV 1 T For snapping onto the side of auxiliary switch, with surge suppression | ▶ | 3TX7 090-0D | 1 | 1 unit | 101 | 0.080 |
| Terminal covers for protection against inadvertent contact with exposed bar connections | | | | | | | | | |
|  | 14 | 3TF68 | For screwing onto free screw end on middle connecting bar. | B | 3TX7 686-0A | 1 | 1 set | 101 | 0.410 |
| | | 3TF69 | 2 units required per contactor. (1 set = 2 units) | B | 3TX7 696-0A | 1 | 1 set | 101 | 0.402 |
| 3TX7 | | | | | | | | | |
|  | 6 and 8 and SIRIUS S6 | 3TB50, 3TC48 | Can be screwed on free screw end. Covers one rail connection (1 set = 6 units). | M 6 B | 3TX6 506-3B | 1 | 1 set | 101 | 0.082 |
| | | 3TB52, 3RT1.5 | | M 8 B | 3TX6 526-3B | 1 | 1 set | 101 | 0.140 |
| | | 3TB54..., 3TB56, 3TC52, 3TC56, 3RT1.6, 3RT1.7 | | M 10 B | 3TX6 546-3B | 1 | 1 set | 101 | 0.260 |
| 3TX6 526-3B | | | | | | | | | |
| Links for paralleling (star jumper) - 3-pole, without connection terminal¹⁾ | | | | | | | | | |
| 14 | 3TF68 | | | C | 3TX7 680-0D | 1 | 1 unit | 101 | 0.256 |
| Cover plate for link for paralleling | | | | | | | | | |
| 14 | 3TF68 | | A cover plate must be used in order to protect against inadvertent contact with exposed bar connections (EN 50274). | C | 3TX7 680-0E | 1 | 1 unit | 101 | 0.080 |
| Box terminals for laminated copper bars | | | | | | | | | |
| Without auxiliary conductor connection (1 set = 3 units) | | | | | | | | | |
| 14 | 3TF68 | | With single covers for protection against inadvertent contact (EN 50274) | C | 3TX7 570-1E | 1 | 1 set | 101 | 0.675 |
| With auxiliary conductor connection (1 set = 3 units) | | | | | | | | | |
| 14 | 3TF68 | | With single covers for protection against inadvertent contact (EN 50274) | C | 3TX7 570-1F | 1 | 1 set | 101 | 0.698 |
| 14 | 3TF69 | | Conductor cross-sections for auxiliary conductors: Solid 2 x (0.75 ... 2.5) mm ² Finely stranded with end sleeve 2 x (0.5 ... 2.5) mm ² Solid or stranded 2 x (18 ... 12) AWG Tightening torque 0.8 ... 1.4 Nm (7 ... 12 lb.in) | C | 3TX7 690-1F | 1 | 1 set | 101 | 1.986 |

1) The link for paralleling can be reduced by one pole.

* You can order this quantity or a multiple thereof.

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Accessories and Spare Parts For 3T Contactors and Contactor Relays

Accessories for 3TB, 3TC, 3TF, 3TG, 3TK contactors

| For contactor | Remarks | Rated control supply voltage U_s | DT | Order No. | Price per PU | PU (UNIT, SET, M) | PS* | PG | Weight per PU approx. |
|-----------------------|-----------------|------------------------------------|-----|--------------------|----------------------|-------------------|--------|-----|-----------------------|
| Size | Type | V DC | | | | | | | kg |
| Arc chutes | | | | | | | | | |
| 2 | 3TC44 17-0L... | With cutout for mounting resistor | B | 3TY2 442-0B | | 1 | 1 unit | 101 | 0.164 |
| Magnetic coils | | | | | | | | | |
| 2 | 3TC44 | With series resistor | 24 | C | 3TY6 443-0LB4 | 1 | 1 unit | 101 | 0.340 |
| | | Without varistor | 110 | C | 3TY6 443-0LF4 | 1 | 1 unit | 101 | 0.330 |
| 4 | 3TC48 | | 24 | C | 3TY6 483-0LB4 | 1 | 1 unit | 101 | 1.170 |
| | | | 110 | C | 3TY6 483-0LF4 | 1 | 1 unit | 101 | 1.116 |
| 6 | 3TB50 | | 24 | C | 3TY6 503-0LB4 | 1 | 1 unit | 101 | 1.100 |
| | | | 110 | C | 3TY6 503-0LF4 | 1 | 1 unit | 101 | 1.100 |
| 8 | 3TB52 and 3TC52 | | 24 | C | 3TY6 523-0LB4 | 1 | 1 unit | 101 | 2.942 |
| | | | 110 | C | 3TY6 523-0LF4 | 1 | 1 unit | 101 | 2.912 |
| 10 | 3TB54 | | 24 | C | 3TY6 543-0LB4 | 1 | 1 unit | 101 | 1.100 |
| | | | 110 | C | 3TY6 543-0LF4 | 1 | 1 unit | 101 | 1.100 |
| 12 | 3TB56 and 3TC56 | | 24 | C | 3TY6 563-0LB4 | 1 | 1 unit | 101 | 1.100 |
| | | | 110 | C | 3TY6 563-0LF4 | 1 | 1 unit | 101 | 1.100 |

All spare parts not mentioned above are identical to those for the standard contactors.

| Auxiliary contacts | Rated operating current I_e /AC-15/AC-14 at | Auxiliary contacts | DT | Order No. | Price per PU | PU (UNIT, SET, M) | PS* | PG | Weight per PU approx. |
|--------------------|---|--------------------|-------------|------------|--------------|-------------------|-----|----|-----------------------|
| Number | A | A | A | | | | | | kg |
| | 230/ 220 V | 400/ 380 V | 500 V AC | Ident. No. | Version | | | | |
| | | | | | | | | | |

Snap-on auxiliary switch blocks for 3TF2 contactors with screw terminals



3TX4 4...-A

For assembling contactors with several auxiliary contacts
With 2, 4 and 5 auxiliary contacts according to DIN 50012
For 3TF2: 10 contactors (auxiliary contact 1 NO = 10E)

| | | | | | | | | | | |
|---|---|---|---|------|--------------|--------------------|---|--------|-----|-------|
| 1 | 4 | 3 | 2 | 11 E | -- 1 -- -- B | 3TX4 401-1A | 1 | 1 unit | 101 | 0.033 |
| 3 | 4 | 3 | 2 | 22 E | 1 2 -- -- B | 3TX4 412-1A | 1 | 1 unit | 101 | 0.042 |
| 4 | 4 | 3 | 2 | 23 E | 1 3 -- -- B | 3TX4 413-1A | 1 | 1 unit | 101 | 0.047 |
| | | | | 32 E | 2 2 -- -- B | 3TX4 422-1A | 1 | 1 unit | 101 | 0.048 |

With 3 and 5 auxiliary contacts according to DIN 50005 for 3TF2 contactors

| | | | | | | | | | | |
|---|---|---|---|---------|--------------|--------------------|---|--------|-----|-------|
| 2 | 4 | 3 | 2 | 20 | 2 -- -- -- B | 3TX4 420-2A | 1 | 1 unit | 101 | 0.038 |
| | | | | 11 | 1 1 -- -- B | 3TX4 411-2A | 1 | 1 unit | 101 | 0.038 |
| | | | | 02 | -- 2 -- -- B | 3TX4 402-2A | 1 | 1 unit | 101 | 0.037 |
| | | | | 11; U | -- -- 1 1 B | 3TX4 411-2G | 1 | 1 unit | 101 | 0.037 |
| 4 | 4 | 3 | 2 | 40 | 4 -- -- -- B | 3TX4 440-2A | 1 | 1 unit | 101 | 0.047 |
| | | | | 31 | 3 1 -- -- B | 3TX4 431-2A | 1 | 1 unit | 101 | 0.047 |
| | | | | 22 | 2 2 -- -- B | 3TX4 422-2A | 1 | 1 unit | 101 | 0.047 |
| | | | | 22; 2 U | -- -- 2 2 B | 3TX4 422-2G | 1 | 1 unit | 101 | 0.047 |

| For contactor | Rated control supply voltage U_s | Time range (minimum times) | DT | Order No. | Price per PU | PU (UNIT, SET, M) | PS* | PG | Weight per PU approx. |
|---------------|------------------------------------|----------------------------|----|-----------|--------------|-------------------|-----|----|-----------------------|
| Type | | | | | | | | | kg |

OFF-delay devices (with screw terminals) for 3TF2 contactors







For DC-operated contactors for bridging short-time power failures up to 0.8 s

| | | | | | | | | | |
|--------------|---------|-----------------|---|--------------------|--|---|--------|-----|-------|
| 3TF2...-0BB4 | 24 V DC | 0.25 s or 0.5 s | B | 3TX4 490-1H | | 1 | 1 unit | 101 | 0.083 |
|--------------|---------|-----------------|---|--------------------|--|---|--------|-----|-------|

Accessories and Spare Parts For 3T Contactors and Contactor Relays

Accessories for 3TB, 3TC, 3TF, 3TG, 3TK contactors

| For contactor | Rated control supply voltage U_s | | Power consumption of LED at U_s | DT | Order No. | Price per PU | PU (UNIT, SET, M) | PS* | PG | Weight per PU approx. | |
|---|--|---|-----------------------------------|-------------|-----------|--------------------|-------------------|-----|----------|-----------------------|-------|
| Type | V AC | V DC | MW | | | | | | | kg | |
| Surge suppressors for 3TF2 contactors For plugging onto contactors with and without auxiliary switch blocks | | | | | | | | | | | |
| Version without LED | | | | | | | | | | | |
| RC elements | | | | | | | | | | | |
|  3TX4 490-3A | 3TF2...-0... | 24 ... 48 | 24 ... 70 | -- | B | 3TX4 490-3R | | 1 | 10 units | 101 | 0.010 |
| | 3TF2...-1... | 48 ... 127 | 70 ... 150 | -- | B | 3TX4 490-3S | | 1 | 1 unit | 101 | 0.010 |
| | | 127 ... 240 | 150 ... 250 | -- | B | 3TX4 490-3T | | 1 | 1 unit | 101 | 0.010 |
| | | 240 ... 400 | -- | -- | B | 3TX4 490-3U | | 1 | 1 unit | 101 | 0.014 |
| | | 400 ... 600 | -- | -- | B | 3TX4 490-3V | | 1 | 1 unit | 101 | 0.015 |
| Varistors | | | | | | | | | | | |
|  3TX4 490-4G | 3TF2...-0... | ≤ 48 | 24 ... 70 | -- | B | 3TX4 490-3G | | 1 | 1 unit | 101 | 0.010 |
| | 3TF2...-1... | 48 ... 127 | 70 ... 150 | -- | B | 3TX4 490-3H | | 1 | 1 unit | 101 | 0.010 |
| | | 127 ... 240 | 150 ... 250 | -- | B | 3TX4 490-3J | | 1 | 1 unit | 101 | 0.010 |
| | | 240 ... 400 | -- | -- | B | 3TX4 490-3K | | 1 | 10 units | 101 | 0.016 |
| | | 400 ... 600 | -- | -- | B | 3TX4 490-3L | | 1 | 10 units | 101 | 0.016 |
| Noise suppression diodes | | | | | | | | | | | |
| | 3TF2...-0... | -- | 12 ... 250 | -- | B | 3TX4 490-3A | | 1 | 1 unit | 101 | 0.010 |
| | 3TF2...-1... | -- | 12 ... 250 | -- | B | 3TX4 490-3B | | 1 | 1 unit | 101 | 0.009 |
| Diode assemblies (diode and Zener diode) For DC operation and short break times | | | | | | | | | | | |
| | 3TF2...-0... | -- | 24 ... 250 | -- | B | 3TX4 490-3B | | 1 | 1 unit | 101 | 0.009 |
| | 3TF2...-1... | -- | 24 ... 250 | -- | B | 3TX4 490-3B | | 1 | 1 unit | 101 | 0.009 |
| Version with LED | | | | | | | | | | | |
| Varistors | | | | | | | | | | | |
|  3TX4 490-4G | 3TF2...-0... | 24 ... 48 | 12 ... 24 | 10 ... 120 | B | 3TX4 490-4G | | 1 | 1 unit | 101 | 0.009 |
| | 3TF2...-1... | 48 ... 127 | 24 ... 70 | 20 ... 470 | B | 3TX4 490-4H | | 1 | 1 unit | 101 | 0.009 |
| | | 127 ... 240 | 70 ... 150 | 50 ... 700 | B | 3TX4 490-4J | | 1 | 1 unit | 101 | 0.010 |
| | | -- | 150 ... 250 | 160 ... 950 | B | 3TX4 490-4K | | 1 | 1 unit | 101 | 0.009 |
| | | | | | | | | | | | |
| Noise suppression diodes | | | | | | | | | | | |
| | 3TF2...-0... | -- | 24 ... 70 | 20 ... 470 | B | 3TX4 490-4A | | 1 | 1 unit | 101 | 0.009 |
| | 3TF2...-1... | -- | 70 ... 150 | 50 ... 700 | B | 3TX4 490-4B | | 1 | 1 unit | 101 | 0.009 |
| | | -- | 150 ... 250 | 160 ... 950 | B | 3TX4 490-4C | | 1 | 1 unit | 101 | 0.009 |
| Additional load modules for 3TF2 contactors For plugging onto contactors with and without auxiliary switch blocks ¹⁾ | | | | | | | | | | | |
| For increasing the permissible residual current and for limiting the residual voltage | | | | | | | | | | | |
| | 3TF2...-0A... | 230/220, 50 Hz | | -- | B | 3TX4 490-1J | | 1 | 1 unit | 101 | 0.011 |
| | 3TF2...-1A... | 230, 60 Hz | | | | | | | | | |
| | | 230, 50/60 Hz | | | | | | | | | |
| | Operating range 0.8 ... 1.1 x U_s | | | | | | | | | | |
| Plug-in bases with solder pin connectors for printed circuit boards width 45 mm for 3TF2 and 3TK2 contactors | | | | | | | | | | | |
|  3TX4 491-2A | For 3TF2 and 3TK2 contactors With flat connectors 6.3 mm x 0.8 mm; Rated insulation voltage U_i : 400 V (pollution degree 3); Rated impulse withstand voltage U_{imp} : 6 kV; Rated operating current I_e : 6 A; Ⓢ and Ⓡ rated data:: max. 300 V, 6 A | | | | | | | | | | |
| | 3TF20...-3... | | | | | | | | | | |
| | 3TF20...-7... | | | | | | | | | | |
| | 3TK20...-3... | | | | | | | | | | |
| | 3TK20...-7... | | | | | | | | | | |
| Release tools | | | | | | | | | | | |
| | 3TF2...-7... | For releasing contactors from 3TK20...-7... | | | D | 3TX4 491-2K | | 1 | 1 unit | 101 | 0.010 |

1) Dimensions as for 3TX4 490-3 surge suppressor.

* You can order this quantity or a multiple thereof.

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Accessories and Spare Parts For 3T Contactors and Contactor Relays

Accessories for 3TB, 3TC, 3TF, 3TG, 3TK contactors

Accessories

| For contactor | Max. rated operating currents $I_e/AC-1$ (at 55 °C) of the contactors | Max. conductor cross-sections | DT | Order No. | Price per PU | PU (UNIT, SET, M) | PS* | PG | Weight per PU approx. kg |
|---|--|----------------------------------|----|-----------------------|-----------------|-------------------------|--------|-----|-----------------------------------|
| Type | A | mm ² | | | | | | | |
| Links for paralleling (star jumpers) | | | | | | | | | |
| 3-pole, without connection terminal¹⁾²⁾ | | | | | | | | | |
| 3TG10 | 16 star jumpers can be reduced by one pole | -- | ▶ | 3RT19 16-4BA31 | | 1 | 1 unit | 101 | 0.003 |
| 3-pole, with connection terminal¹⁾³⁾ | | | | | | | | | |
| 3TG10 | 40 | 25 | ▶ | 3RT19 16-4BB31 | | 1 | 1 unit | 101 | 0.015 |
| 4-pole, with connection terminal¹⁾⁴⁾ | | | | | | | | | |
| 3TG10 | 50 | 25 | C | 3RT19 16-4BB41 | | 1 | 1 unit | 101 | 0.015 |

1) The links for paralleling can be reduced by one pole. The rated operating currents apply to each pole. The parallel connections are insulated.

2) Replacement for 3TX4 490-2C.

3) Replacement for 3TX4 490-2A.

4) Replacement for 3TX4 490-2B.

Accessories and Spare Parts For 3T Contactors and Contactor Relays

Accessories for 3TH contactor relays

Selection and ordering data

| Version | Rated control supply voltage U_s | | DT | Order No. | Price per PU | PU (UNIT, SET, M) | PS* | PG | Weight per PU approx. |
|---------|------------------------------------|----|----|-----------|--------------|-------------------|-----|----|-----------------------|
| | AC | DC | | | | | | | kg |
| | V | V | | | | | | | |

Surge suppressors¹⁾ for 3TH4 contactor relays



3TX7 402-3.

| | | | | | | | | | |
|--|-------------|-------------|---|--------------------|--|---|--------|-----|-------|
| Noise suppression diodes With line spacer, for mounting onto the coil terminal | -- | 24 ... 250 | A | 3TX7 402-3A | | 1 | 1 unit | 101 | 0.147 |
| Diode assemblies (diode and Zener diode) with line spacer, DC operation, for mounting onto the coil terminal | -- | 24 ... 250 | A | 3TX7 402-3D | | 1 | 1 unit | 101 | 0.015 |
| Varistors²⁾ With line spacer, for mounting onto the coil terminal | 24 ... 48 | 24 ... 70 | A | 3TX7 402-3G | | 1 | 1 unit | 101 | 0.015 |
| | 48 ... 127 | 70 ... 150 | A | 3TX7 402-3H | | 1 | 1 unit | 101 | 0.015 |
| | 127 ... 240 | 150 ... 250 | A | 3TX7 402-3J | | 1 | 1 unit | 101 | 0.015 |
| | 240 ... 400 | -- | C | 3TX7 402-3K | | 1 | 1 unit | 101 | 0.024 |
| | 400 ... 600 | -- | C | 3TX7 402-3L | | 1 | 1 unit | 101 | 0.024 |
| RC elements With line spacer, for mounting onto the coil terminal | 24 ... 48 | 24 ... 70 | A | 3TX7 402-3R | | 1 | 1 unit | 101 | 0.025 |
| | 48 ... 127 | 70 ... 150 | A | 3TX7 402-3S | | 1 | 1 unit | 101 | 0.025 |
| | 127 ... 240 | 150 ... 250 | A | 3TX7 402-3T | | 1 | 1 unit | 101 | 0.023 |
| | 240 ... 400 | -- | C | 3TX7 402-3U | | 1 | 1 unit | 101 | 0.024 |
| | 400 ... 600 | -- | C | 3TX7 402-3V | | 1 | 1 unit | 101 | 0.024 |
| Covers For switch position indicator | -- | -- | B | 3TX4 210-0P | | 1 | 1 unit | 101 | 0.002 |

Coupling links for control by PLC for 3TH4 contactor relays



3TX4 090
mounted to contactor

| | | | | | | | | | |
|---|--|--|---|--------------------|--|---|--------|-----|-------|
| Operating range: 17 ... 30 V DC Power consumption: 0.5 W at 24 V DC For mounting directly to contactor coil without surge suppressor | | | A | 3TX4 090-0C | | 1 | 1 unit | 101 | 0.055 |
| For mounting directly to contactor coil with surge suppressor | | | A | 3TX4 090-0D | | 1 | 1 unit | 101 | 0.057 |

1) The opening delay of the NO contact and the closing delay of the NC contact are increased if the contactor coils are attenuated against voltage peaks (noise suppression diode 6 to 10 times; diode assemblies 2 to 6 times, varistor +2 to 5 ms).

2) Includes the peak value of the ripple voltage on the DC side.

| For contactor | Version | Rated control supply voltage U_s AC 50/60 Hz | Time range (minimum times) | DT | Order No. | Price per PU | PU (UNIT, SET, M) | PS* | PG | Weight per PU approx. |
|---------------|---------|--|----------------------------|----|-----------|--------------|-------------------|-----|----|-----------------------|
| Type | | V | s | | | | | | | kg |

ON-delay devices



3TX4 180-0A

| | | | | | | | | | | |
|-----------------|--|-------------|-----|---|--------------------|--|---|--------|-----|-------|
| 3TH42/ 3TH43 | NTC thermistors Time tolerance + 100 %, -50 % | 220 ... 230 | 0.1 | B | 3TX4 180-0A | | 1 | 1 unit | 101 | 0.013 |
|-----------------|--|-------------|-----|---|--------------------|--|---|--------|-----|-------|

* You can order this quantity or a multiple thereof.

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Accessories and Spare Parts For 3T Contactors and Contactor Relays

Accessories for 3TH contactor relays

| For contactor | Rated control supply voltage U_s | OFF delay | DT | Order No. | Price per PU | PU (UNIT, SET, M) | PS* | PG | Weight per PU approx. |
|---------------|------------------------------------|-----------|----|-----------|--------------|-------------------|-----|----|-----------------------|
| Type | V | V | s | | | | | | kg |

OFF-delay devices for bridging short-time power failures (up to 1.2 s)


| | | | | | | | | | | |
|---|----------------|-----|-------------|------------|----------------------|----------------------|---|--------|-----|-------|
|  | 3TH42 ...-0BF4 | 110 | 0.15 or 0.3 | A | 3TX4 701-0AN1 | | 1 | 1 unit | 101 | 0.169 |
| | 3TH43 ...-0BF4 | | | | | | | | | |
| | 3TH42 ...-0BM4 | 220 | 0.6 or 1.2 | A | 3TX4 701-0AN1 | | 1 | 1 unit | 101 | 0.169 |
| | 3TH43 ...-0BM4 | | | | | | | | | |
| | 3TH42 ...-0BP4 | 230 | 0.6 or 1.2 | A | 3TX4 701-0AN1 | | 1 | 1 unit | 101 | 0.169 |
| | 3TH43 ...-0BP4 | | | | | | | | | |
| | 3TH42 ...-0BB4 | | 24 | 0.4 or 0.8 | A | 3TX4 701-0BB4 | 1 | 1 unit | 101 | 0.168 |
| | 3TH43 ...-0BB4 | | | | | | | | | |

| Contacts | Rated operating current I_e /AC-15/AC-14 at | Contacts | DT | Order No. | Price per PU | PU (UNIT, SET, M) | PS* | PG | Weight per PU approx. |
|----------|---|----------|----|-----------|--------------|-------------------|-----|----|-----------------------|
| Number | A | A | A | A | | | | | kg |


| 230/220 V | 400/380 V AC | 500 V AC | 690/660 V | Ident. No. acc. to EN 50011 | Version |
|-----------|--------------|----------|-----------|-----------------------------|-------------|
| | | | | | NO NC NO NC |

Snap-on auxiliary switch blocks for 3TH20 contactor relays with screw terminals

With 8 contacts according to EN 50011,
For snapping onto contactor relays with 4 NO, Ident. No. 40E (3TH20 40-0...)

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|----|-------------|----|----|----|----|---|--------------------|---|--------|-----|-------|
|  | 4 | 4 | 3 | 2 | -- | 80 E | 4 | -- | -- | -- | B | 3TX4 440-0A | 1 | 1 unit | 101 | 0.047 |
| | | | | | | 71 E | 3 | 1 | -- | -- | B | 3TX4 431-0A | 1 | 1 unit | 101 | 0.047 |
| | | | | | | 62 E | 2 | 2 | -- | -- | B | 3TX4 422-0A | 1 | 1 unit | 101 | 0.047 |
| | | | | | | 53 E | 1 | 3 | -- | -- | B | 3TX4 413-0A | 1 | 1 unit | 101 | 0.048 |
| | | | | | | 44 E | -- | 4 | -- | -- | B | 3TX4 404-0A | 1 | 1 unit | 101 | 0.047 |


With 6 and 8 contacts according to EN 50005

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|--------------|---------------|----|----|----|----|--------------------|--------------------|--------|--------|-------|-------|
|  | 4 | 4 | 3 | 2 | -- | 40 E | 4 | -- | -- | -- | B | 3TX4 440-2A | 1 | 1 unit | 101 | 0.047 |
| | | | | | | 31 E | 3 | 1 | -- | -- | B | 3TX4 431-2A | 1 | 1 unit | 101 | 0.047 |
| | | | | | | 22 E | 2 | 2 | -- | -- | B | 3TX4 422-2A | 1 | 1 unit | 101 | 0.047 |
| | | | | | | 22; 2U | -- | -- | 2 | 2 | B | 3TX4 422-2G | 1 | 1 unit | 101 | 0.047 |
| | 2 | 4 | 3 | 2 | -- | 20 E | 2 | -- | -- | -- | B | 3TX4 420-2A | 1 | 1 unit | 101 | 0.038 |
| | | | | | 11 E | 1 | 1 | -- | -- | B | 3TX4 411-2A | 1 | 1 unit | 101 | 0.038 | |
| | | | | | 02 E | -- | 2 | -- | -- | B | 3TX4 402-2A | 1 | 1 unit | 101 | 0.037 | |
| | | | | | 11; U | -- | -- | 1 | 1 | B | 3TX4 411-2G | 1 | 1 unit | 101 | 0.037 | |

| For contactor | Rated control supply voltage U_s | Time range (minimum times) | DT | Order No. | Price per PU | PU (UNIT, SET, M) | PS* | PG | Weight per PU approx. |
|---------------|------------------------------------|----------------------------|----|-----------|--------------|-------------------|-----|----|-----------------------|
| Type | | | | | | | | | kg |




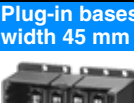

OFF-delay devices (with screw terminals)

For DC-operated contactors for bridging short-time power failures up to 0.8 s

| | | | | | | | | | | |
|---|-----------------|--------------------|-----------------|---|--------------------|--|---|--------|-----|-------|
|  | 3TH2. ...-0BB4 | 24 V DC | 0.25 s or 0.5 s | B | 3TX4 490-1H | | 1 | 1 unit | 101 | 0.083 |
| | 3TH2. ...-0BF4 | 110 V AC, 50/60 Hz | 0.1 s or 0.2 s | B | 3TX4 490-1A | | 1 | 1 unit | 101 | 0.085 |
| | 3TH2. ...-0BM4, | 220 V AC, 50/60 Hz | 0.4 s or 0.8 s | | | | | | | |
| | 3TH2. ...-0BP4 | | | | | | | | | |

Accessories and Spare Parts For 3T Contactors and Contactor Relays

Accessories for 3TH contactor relays

| For contactor | Rated control supply voltage U_s | | Power consumption of LED at U_s | DT | Order No. | Price per PU | PU (UNIT, SET, M) | PS* | PG | Weight per PU approx. | |
|--|---|-------------------------------------|-----------------------------------|-------------|-----------|--------------------|-------------------|-----|----------|-----------------------|-------|
| Type | V AC | V DC | MW | | | | | | | kg | |
| Surge suppressors¹⁾ For plugging onto contactors with and without auxiliary switch blocks | | | | | | | | | | | |
| <i>Version without LED</i> | | | | | | | | | | | |
| RC elements | | | | | | | | | | | |
|  3TX4 490-3A | 3TH2. ...-0... | 24 ... 48 | 24 ... 70 | -- | B | 3TX4 490-3R | | 1 | 10 units | 101 | 0.010 |
| | | 48 ... 127 | 70 ... 150 | -- | B | 3TX4 490-3S | | 1 | 1 unit | 101 | 0.010 |
| | | 127 ... 240 | 150 ... 250 | -- | B | 3TX4 490-3T | | 1 | 1 unit | 101 | 0.010 |
| | | 240 ... 400 | -- | -- | B | 3TX4 490-3U | | 1 | 1 unit | 101 | 0.014 |
| | | 400 ... 600 | -- | -- | B | 3TX4 490-3V | | 1 | 1 unit | 101 | 0.015 |
| Varistors | | | | | | | | | | | |
|  3TX4 490-4G | 3TH2. ...-0... | ≤ 48 | 24 ... 70 | -- | B | 3TX4 490-3G | | 1 | 1 unit | 101 | 0.010 |
| | | 48 ... 127 | 70 ... 150 | -- | B | 3TX4 490-3H | | 1 | 1 unit | 101 | 0.010 |
| | | 127 ... 240 | 150 ... 250 | -- | B | 3TX4 490-3J | | 1 | 1 unit | 101 | 0.010 |
| | | 240 ... 400 | -- | -- | B | 3TX4 490-3K | | 1 | 10 units | 101 | 0.016 |
| | | 400 ... 600 | -- | -- | B | 3TX4 490-3L | | 1 | 10 units | 101 | 0.016 |
| Noise suppression diodes | | | | | | | | | | | |
| | 3TH2. ...-0... | -- | 12 ... 250 | -- | B | 3TX4 490-3A | | 1 | 1 unit | 101 | 0.010 |
| Diode assemblies (diode and Zener diode) For DC operation and short break times | | | | | | | | | | | |
| | 3TH2. ...-0... | -- | 24 ... 250 | -- | B | 3TX4 490-3B | | 1 | 1 unit | 101 | 0.009 |
| <i>Version with LED</i> | | | | | | | | | | | |
| Varistors | | | | | | | | | | | |
|  3TX4 490-4J | 3TH2. ...-0... | 24 ... 48 | 12 ... 24 | 10 ... 12 | B | 3TX4 490-4G | | 1 | 1 unit | 101 | 0.009 |
| | | 48 ... 27 | 24 ... 70 | 20 ... 470 | B | 3TX4 490-4H | | 1 | 1 unit | 101 | 0.009 |
| | | 127 ... 240 | 70 ... 150 | 50 ... 700 | B | 3TX4 490-4J | | 1 | 1 unit | 101 | 0.010 |
| | | -- | 150 ... 250 | 160 ... 950 | B | 3TX4 490-4K | | 1 | 1 unit | 101 | 0.009 |
| Noise suppression diodes | | | | | | | | | | | |
| | 3TH2. ...-0... | -- | 24 ... 70 | 20 ... 470 | B | 3TX4 490-4A | | 1 | 1 unit | 101 | 0.009 |
| | | -- | 70 ... 150 | 50 ... 700 | B | 3TX4 490-4B | | 1 | 1 unit | 101 | 0.009 |
| | | -- | 150 ... 250 | 160 ... 950 | B | 3TX4 490-4C | | 1 | 1 unit | 101 | 0.009 |
| Additional load modules (residual current) For plugging onto contactors with and without auxiliary switch blocks | | | | | | | | | | | |
|  3TX4 490-1J | For increasing the permissible residual current and for limiting the residual voltage of SIMATIC semiconductor outputs | | | | | | | | | | |
| | 3TH2. ...-0A | 230/220, 50 Hz | -- | -- | B | 3TX4 490-1J | | 1 | 1 unit | 101 | 0.011 |
| | | 230, 60 Hz | -- | -- | | | | | | | |
| | | 230, 50/60 Hz | -- | -- | | | | | | | |
| | | Operating range 0.8 ... 1.1 x U_s | | | | | | | | | |
| Plug-in bases with solder pin connectors for printed circuit boards, width 45 mm | | | | | | | | | | | |
|  3TX4 491-2A | For 3TH2 contactor relays; With flat connectors 1 x 6.3 mm ... 0.8 mm; Rated insulation voltage U_i : 400 V (pollution degree 3); Rated impulse withstand voltage U_{imp} : 6 kV; Rated operating current I_e : 6 A; Ⓢ and Ⓜ rated data: max. 300 V, 6 A | | | | | | | | | | |
| | 3TH20 ...-3, 3TH20 ...-7 | | | | A | 3TX4 491-2A | | 1 | 5 units | 101 | 0.032 |

1) The opening delay of the NO contact and the closing delay of the NC contact are increased if the contactor coils are attenuated against voltage peaks (noise suppression diode 6 to 10 times; diode assemblies 2 to 6 times, varistor +2 to 5 ms).

* You can order this quantity or a multiple thereof.





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Accessories and Spare Parts For 3T Contactors and Contactor Relays

Spare parts for 3TB, 3TC, 3TF, 3TK contactors

Selection and ordering data




| For contactor | Contacts Version | Version | DT | Order No. | Price per PU | PU (UNIT, SET, M) | PS* | PG | Weight per PU approx. | | | |
|--|---|-----------------------|---|-----------|--------------|---|----------------------|-----------------------|-----------------------|--------|-------|-------|
| Size | Type | NO | NC | NC | | | | | kg | | | |
| Auxiliary switch blocks | | | | | | | | | | | | |
|  3TY6 561-1A | 6 | 3TB50 | 1 | 1 | -- | Auxiliary switch block, left or right (replacement for 3TY6 501-1A/-1B) | B | 3TY6 501-1AA00 | 1 | 1 unit | 101 | 0.053 |
| | | | 1 | -- | 1 | Auxiliary switch block, right | C | 3TY6 501-1E | 1 | 1 unit | 101 | 0.054 |
| | 8 ... 12 | 3TB52 ... 3TB56 | 1 | 1 | -- | Auxiliary switch block, left | B | 3TY6 561-1A | 1 | 1 unit | 101 | 0.074 |
| | | | 1 | 1 | -- | Auxiliary switch block, right | B | 3TY6 561-1B | 1 | 1 unit | 101 | 0.075 |
| | | | 1 | -- | 1 | Auxiliary switch block, right | C | 3TY6 561-1E | 1 | 1 unit | 101 | 0.076 |
| Magnetic coils | | | | | | | | | | | | |
|  3TY6 5. | DC operation | | | | | | | | | | | |
| | 6 | 3TB50 | | | | | C | 3TY6 503-0B.. | 1 | 1 unit | 101 | 0.230 |
| | 8 | 3TB52 | | | | | C | 3TY6 523-0B.. | 1 | 1 unit | 101 | 0.400 |
| | 10 | 3TB54 | | | | | C | 3TY6 543-0B.. | 1 | 1 unit | 101 | 0.400 |
| 12 | 3TB56 | | | | | C | 3TY6 563-0B.. | 1 | 1 unit | 101 | 0.560 | |
| Arc chutes | | | | | | | | | | | | |
|  3TY6 502-0A | 6 | 3TB50 | 1 arc chute, 3-pole | | | | B | 3TY6 502-0A | 1 | 1 unit | 101 | 0.751 |
| | 8 | 3TB52 | | | | | C | 3TY6 522-0A | 1 | 1 unit | 101 | 1.177 |
| | 10 | 3TB54 | | | | | C | 3TY6 542-0A | 1 | 1 unit | 101 | 1.456 |
| | 12 | 3TB56 | | | | | C | 3TY6 562-0A | 1 | 1 unit | 101 | 1.580 |
| Contacts with fixing parts | | | | | | | | | | | | |
|  3TY6 520-0A | In order to ensure reliable operation of the contactors, only original replacement contacts from Siemens should be used. | | | | | | | | | | | |
| | 6 | 3TB50 | (1 set = 3 moving and 6 fixed contacts) | | | | B | 3TY6 500-0A | 1 | 1 set | 101 | 0.283 |
| | 8 | 3TB52 | | | | | B | 3TY6 520-0A | 1 | 1 unit | 101 | 0.359 |
| | 10 | 3TB54 | | | | | B | 3TY6 540-0A | 1 | 1 set | 101 | 0.529 |
| 12 | 3TB56 | | | | | B | 3TY6 560-0A | 1 | 1 set | 101 | 0.756 | |

For rated control supply voltages for coils, see page 3/146.

* You can order this quantity or a multiple thereof.

Accessories and Spare Parts For 3T Contactors and Contactor Relays

Spare parts for 3TB, 3TC, 3TF, 3TK contactors

| For contactor | Auxiliary contacts Version | Version | DT | Order No. | Price per PU | PU (UNIT, SET, M) | PS* | PG | Weight per PU approx. | | |
|---|----------------------------|--------------|---|---|---|--------------------|-----------------------|--------|-----------------------|-------|-------|
| Size | Type | NO | NC | | | | | | kg | | |
| Auxiliary switch blocks | | | | | | | | | | | |
|  | 2 and 4 | 3TB44, 3TC48 | 1 | 1 | Auxiliary switch block, left or right (replacement for 3TY6 501-1A/-1B) | B | 3TY6 501-1AA00 | 1 | 1 unit | 101 | 0.053 |
| | 4 | 3TC48 | 1 | 1 | 2nd auxiliary switch block, left ¹⁾ | C | 3TY6 501-1K | 1 | 1 unit | 101 | 0.055 |
| | | | | | 2nd auxiliary switch block, right ¹⁾ | C | 3TY6 501-1L | 1 | 1 unit | 101 | 0.047 |
| | 8 and 12 | 3TC52, 3TC56 | 1 | 1 | Auxiliary switch block, left | B | 3TY6 561-1A | 1 | 1 unit | 101 | 0.074 |
| | | | | | Auxiliary switch block, right | B | 3TY6 561-1B | 1 | 1 unit | 101 | 0.075 |
| | | | | 2nd auxiliary switch block, left ¹⁾ | C | 3TY6 561-1K | 1 | 1 unit | 101 | 0.077 | |
| | | | | 2nd auxiliary switch block, right ¹⁾ | C | 3TY6 561-1L | 1 | 1 unit | 101 | 0.078 | |
| Contacts with fixing parts | | | | | | | | | | | |
| In order to ensure reliable operation of the contactors, only original replacement contacts from Siemens should be used. | | | | | | | | | | | |
|  | 2 | 3TC44 | (1 set = 2 moving and 2 fixed switching elements) | | B | 3TY2 440-0A | 1 | 1 set | 101 | 0.065 | |
| | 4 | 3TC48 | | | B | 3TY2 480-0A | 1 | 1 set | 101 | 0.100 | |
| | 8 | 3TC52 | | | B | 3TY2 520-0A | 1 | 1 set | 101 | 0.237 | |
| | 12 | 3TC56 | | | B | 3TY2 560-0A | 1 | 1 set | 101 | 0.424 | |
| <i>Rated control supply voltages for coils, see page 3/146.</i> | | | | | | | | | | | |
| Arc chutes | | | | | | | | | | | |
|  | 2 | 3TC44 | 1 arc chute, 2-pole | | C | 3TY2 442-0A | 1 | 1 unit | 101 | 0.166 | |
| | 4 | 3TC48 | | | C | 3TY2 482-0A | 1 | 1 unit | 101 | 0.503 | |
| | 8 | 3TC52 | | | C | 3TY2 522-0A | 1 | 1 unit | 101 | 1.205 | |
| | 12 | 3TC56 | | | C | 3TY2 562-0A | 1 | 1 unit | 101 | 2.129 | |
| Magnetic coils | | | | | | | | | | | |
| DC operation | | | | | | | | | | | |
| 2 | 3TC44 | | | C | 3TY6 443-0B.. | 1 | 1 unit | 101 | 0.300 | | |
| 4 | 3TC48 | | | C | 3TY6 483-0B.. | 1 | 1 unit | 101 | 1.000 | | |
| 8 | 3TC52 | | | C | 3TY6 523-0B.. | 1 | 1 unit | 101 | 2.300 | | |
| 12 | 3TC56 | | | C | 3TY6 563-0B.. | 1 | 1 unit | 101 | 4.800 | | |
| AC operation | | | | | | | | | | | |
| 2 | 3TC44 | | | C | 3TY7 403-0A.. | 1 | 1 unit | 101 | 0.100 | | |
| 4 | 3TC48 | | | C | 3TY6 483-0A.. | 1 | 1 unit | 101 | 0.200 | | |
| 8 | 3TC52 | | | C | 3TY6 523-0A.. | 1 | 1 unit | 101 | 0.350 | | |
| 12 | 3TC56 | | | C | 3TY6 566-0A.. | 1 | 1 unit | 101 | 0.650 | | |

1) Can only be mounted on AC-operated contactors.

* You can order this quantity or a multiple thereof.




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Accessories and Spare Parts For 3T Contactors and Contactor Relays

Spare parts for 3TB, 3TC, 3TF, 3TK contactors

| For contactor | Version | Rated control supply voltage U_s | DT | Order No. | Price per PU | PU (UNIT, SET, M) | PS* | PG | Weight per PU approx. |
|-----------------------------------|--|------------------------------------|--------|--|--------------|-------------------|------------------|------------|-----------------------|
| Type | | V AC/DC | | | | | | | kg |
| Varistors | | | | | | | | | |
| 3TC7 | For sticking onto the contactor base | 24 110 | C C | 3TX2 746-2F 3TX2 746-2G | | 1 1 | 1 unit 1 unit | 101 101 | 0.011 0.011 |
| Contacts with fixing parts | | | | | | | | | |
| 3TC7 | Main contacts (1 set) For 3TC78: 2 units required per contactor | | B | 3TY2 740-OE | | 1 | 1 set | 101 | 0.356 |
| Auxiliary switch blocks | | | | | | | | | |
| 3TC74 | 4 NO +4 NC | | B | 3TY2 741-2J | | 1 | 1 unit | 101 | 0.265 |
| 3TC78 | Auxiliary contact, left, with 2 NO +2 NC | | C | 3TY2 781-2C | | 1 | 1 unit | 101 | 0.186 |
| | Auxiliary contact, right, with 2 NO +2 NC | | C | 3TY2 781-2D | | 1 | 1 unit | 101 | 0.184 |
| Arc chutes | | | | | | | | | |
| 3TC7 | For 3TC78: 2 units required per contactor | | C | 3TY2 742-0C | | 1 | 1 unit | 101 | 3.916 |

| For contactor | Contacts Version | DT | Order No. | Price per PU | PU (UNIT, SET, M) | PS* | PG | Weight per PU approx. |
|---------------|------------------|---|-----------|--------------|-------------------|-----|----|-----------------------|
| Size | Type | NO NC NC | | | | | | kg |
| | |    | | | | | | |

Auxiliary switch blocks

With screw terminals



3TY7 561-1.

| | | | | | | | | | | | | |
|----|-----------------|---|----|----|--|---|-----------------------|--|---|--------|-----|-------|
| 14 | 3TF68 and 3TF69 | 1 | 1 | -- | 1st auxiliary switch block, left or right Replacement for: 3TY7 561-1A/-1B. | B | 3TY7 561-1AA00 | | 1 | 1 unit | 101 | 0.048 |
| | | 1 | -- | 1 | Auxiliary switch block, left or right | B | 3TY7 561-1EA00 | | 1 | 1 unit | 101 | 0.048 |
| | | 1 | 1 | -- | 2nd auxiliary switch block, left or right Replacement for: 3TY7 561-1K/-1L. | B | 3TY7 561-1KA00 | | 1 | 1 unit | 101 | 0.050 |

For coil reconnection with DC economy circuit, with screw terminals

| | | | | | | | | | | | | |
|----|-----------------|----|----|---|-------------------------|---|--------------------|--|---|--------|-----|-------|
| 14 | 3TF68 and 3TF69 | -- | -- | 1 | Auxiliary contact block | C | 3TY7 681-1G | | 1 | 1 unit | 101 | 0.050 |
|----|-----------------|----|----|---|-------------------------|---|--------------------|--|---|--------|-----|-------|

| For contactor | Version | DT | Order No. | Price per PU | PU (UNIT, SET, M) | PS* | PG | Weight per PU approx. |
|---------------|---------|----|-----------|--------------|-------------------|-----|----|-----------------------|
| Size | Type | | | | | | | kg |

Magnetic coils

AC operation



3TY7.

| | | | | | | | | | | | |
|----|----------------|---|--|--|--------|--|--|--------|------------------|------------|----------------|
| 14 | 3TF68 3TF69 | The coils are fitted as standard with varistors against overvoltage. The coil is supplied with switch-on electronics. | | | C C | 3TY7 683-0C.. 3TY7 693-0C.. | | 1 1 | 1 unit 1 unit | 101 101 | 0.650 0.650 |
|----|----------------|---|--|--|--------|--|--|--------|------------------|------------|----------------|

DC operation - DC economy circuit

| | | | | | | | | | | | |
|----|----------------|--|--|--|--------|--|--|--------|------------------|------------|----------------|
| 14 | 3TF68 3TF69 | Reversing contactors are required for size 14 contactors: Contactor type 3TF68 and 3TF69 Reversing contactor 3TC44 (70 mm wide, 85 mm high) The coils are supplied without reversing contactor. | | | C C | 3TY7 683-0D.. 3TY7 693-0D.. | | 1 1 | 1 unit 1 unit | 101 101 | 0.560 0.560 |
|----|----------------|--|--|--|--------|--|--|--------|------------------|------------|----------------|

Vacuum interrupters

In order to ensure reliable operation of the contactors, only **original replacement interrupters from Siemens** should be used.

| | | | | | | | | | | | |
|----|----------------|---|--|--|--------|--|--|--------|----------------|------------|----------------|
| 14 | 3TF68 3TF69 | 3 vacuum interrupters with mounting parts | | | B B | 3TY7 680-0B 3TY7 690-0B | | 1 1 | 1 set 1 set | 101 101 | 3.490 3.638 |
|----|----------------|---|--|--|--------|--|--|--------|----------------|------------|----------------|

For rated control supply voltages for coils, see page 3/146.

For solid-state compatible auxiliary switch blocks, see page 3/135.

* You can order this quantity or a multiple thereof.

Accessories and Spare Parts For 3T Contactors and Contactor Relays

Spare parts for 3TB, 3TC, 3TF, 3TK contactors

| Version | Rated control supply voltage U_s | DT | Order No. | Price per PU | PU (UNIT, SET, M) | PS* | PG | Weight per PU approx. kg |
|---|---|-------------|--|--------------|-------------------|----------------------------|-------------------|--------------------------|
| Reversing contactors (3TC44) | | | | | | | | |
| Complete with resistor and 1 m connecting lead and connector for 3TF68 ...Q, 3TF69 ...Q | 110 ... 120 220 ... 240 380 ... 420 | C C C | 3TY7 684-0QG7 3TY7 684-0QL7 3TY7 684-0QV7 | | 1 1 1 | 1 unit 1 unit 1 unit | 101 101 101 | 1.000 1.000 1.000 |
| Magnetic coils for main contactor, with rectifier bridge | | | | | | | | |
| For 3TF68 ...Q | 110 ... 120 220 ... 240 380 ... 420 | C C C | 3TY7 683-0QG7 3TY7 683-0QL7 3TY7 683-0QV7 | | 1 1 1 | 1 unit 1 unit 1 unit | 101 101 101 | 2.700 1.509 1.460 |
| For 3TF69 ...Q | 110 ... 120 220 ... 240 380 ... 420 | C C C | 3TY7 693-0QG7 3TY7 693-0QL7 3TY7 693-0QV7 | | 1 1 1 | 1 unit 1 unit 1 unit | 101 101 101 | 0.650 1.455 1.431 |

For rated control supply voltages for coils, see page 3/146.

For solid-state compatible auxiliary switch blocks, see page 3/135.

| For contactor | Version | Rated control supply voltage U_s | DT | Order No. | Price per PU | PU (UNIT, SET, M) | PS* | PG | Weight per PU approx. kg |
|---|--|------------------------------------|---------------------------------|--|--------------|---------------------------------|--|---|---|
| Type | V AC | | | | | | | | kg |
| Surge suppressors · RC elements | | | | | | | | | |
| 3TK10 to 3TK13 | | 24 ... 48 110 ... 415 | D B | 3TK19 30-0A 3TK19 30-0B | | 1 1 | 1 unit 1 unit | 101 101 | 0.033 0.039 |
| 3TK14 to 3TK17 | | 48 ... 110 220 ... 600 | C B | 3TK19 34-0C 3TK19 34-0D | | 1 1 | 1 unit 1 unit | 101 101 | 0.042 0.044 |
| Terminal covers | | | | | | | | | |
| 3TK10, 3TK11 3TK12, 3TK13 3TK14, 3TK15 3TK17 | For mounting onto contactors | | B B B B | 3TK19 40-0A 3TK19 42-0A 3TK19 44-0A 3TK19 46-0A | | 1 1 1 1 | 2 units 2 units 2 units 2 units | 101 101 101 101 | 0.141 0.113 0.190 0.203 |
| Auxiliary switch blocks | | | | | | | | | |
| 3TK1 | 1st auxiliary switch block, left or right | 1 NO + 1 NC | B | 3TK19 10-3A | | 1 | 1 unit | 101 | 0.055 |
| | 2nd auxiliary switch block, left or right | 1 NO + 1 NC | B | 3TK19 10-3B | | 1 | 1 unit | 101 | 0.055 |
| Locking devices | | | | | | | | | |
| 3TK10, 3TK11 3TK12, 3TK13 | For mechanical interlocking of 2 identical contactors, auxiliary contacts 2 NC | | B B | 3TK19 20-0A 3TK19 22-0A | | 1 1 | 1 unit 1 unit | 101 101 | 0.144 0.143 |
| 3TK14, 3TK15, 3TK17 | Mechanical interlock, including mounting plate | | B | 3TK19 24-0A | | 1 | 1 unit | 101 | 6.750 |
| Arc chutes | | | | | | | | | |
| 3TK10 3TK11 3TK12 3TK13 3TK14 3TK15 3TK17 | 1 arc chute, 4-pole | | D D D D D D D | 3TK19 50-0A 3TK19 51-0A 3TK19 52-0A 3TK19 53-0A 3TK19 54-0A 3TK19 55-0A 3TK19 57-0A | | 1 1 1 1 1 1 1 | 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit | 101 101 101 101 101 101 101 | 0.055 0.065 1.250 1.384 0.001 3.681 3.785 |
| Magnetic coils | | | | | | | | | |
| 3TK10, 3TK11 3TK12, 3TK13 3TK14, 3TK15, 3TK17 | | | D D D | 3TK19 70-0A.. 3TK19 72-0A.. 3TK19 74-0A.. | | 1 1 1 | 1 unit 1 unit 1 unit | 101 101 101 | 0.350 0.450 0.950 |
| Contacts with fixing parts | | | | | | | | | |
| 3TK10 3TK11 3TK12 3TK13 3TK14 3TK15 3TK17 | 4 moving and 8 fixed contacts | | D D D D D D D | 3TK19 60-0A 3TK19 61-0A 3TK19 62-0A 3TK19 63-0A 3TK19 64-0A 3TK19 65-0A 3TK19 67-0A | | 1 1 1 1 1 1 1 | 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit | 101 101 101 101 101 101 101 | 0.254 0.275 0.573 0.582 2.354 2.356 2.311 |

For rated control supply voltages for coils, see page 3/146.

* You can order this quantity or a multiple thereof.

Accessories and Spare Parts For 3T Contactors and Contactor Relays

Spare parts for 3TB, 3TC, 3TF, 3TK contactors

| | | | | | | |
|--------------------|---------------|---------------|--------------------------------|--------------------------------|--------------------------------|---------------|
| For contactor type | 3TC44 | 3TC48 | 3TC5 | 3TF68/69 | 3TK10/11/12/13 | 3TK14/15/17 |
| Coil type | 3TY7 403-0A.. | 3TY6 483-0A.. | 3TY6 523-0A.. 3TY6 566-0A.. | 3TY7 683-0C.. 3TY7 693-0C.. | 3TK19 70-0A.. 3TK19 72-0A.. | 3TK19 74-0A.. |

Rated control supply voltages (the 10th and 11th position of the order number must be changed)

AC operation - Coils for 50 Hz

| | | | | | | |
|--------------|------------------|------------------|------------------|----|------------------|------------------|
| 24 V AC | B0 | B0 | -- | -- | B0 ³⁾ | -- |
| 110 V AC | F0 | F0 | F0 | -- | F0 ³⁾ | F0 ³⁾ |
| 230/220 V AC | P0 ¹⁾ | P0 ¹⁾ | P0 ¹⁾ | -- | P0 ³⁾ | P0 ³⁾ |
| 240 V AC | U0 | U0 | -- | -- | U0 ³⁾ | U0 ³⁾ |

AC operation - Coils for 50/60 Hz

| | | | | | | |
|--------------------|----|----|----|------------------|----|----|
| 24 V AC | C2 | -- | -- | -- | -- | -- |
| 110 V AC | G2 | -- | -- | -- | -- | -- |
| 120 V AC | K2 | -- | -- | -- | -- | -- |
| 220 V AC | N2 | -- | -- | -- | -- | -- |
| 230 V AC | L2 | -- | -- | -- | -- | -- |
| 110 V ... 132 V AC | -- | -- | -- | F7 | -- | -- |
| 200 V ... 240 V AC | -- | -- | -- | M7 | -- | -- |
| 230 V ... 277 V AC | -- | -- | -- | P7 ²⁾ | -- | -- |
| 380 V ... 460 V AC | -- | -- | -- | Q7 | -- | -- |
| 500 V ... 600 V AC | -- | -- | -- | S7 | -- | -- |

| | | | |
|--------------------|--------------------------------|--|--------------------------------|
| For contactor type | 3TC4 | 3TB5, 3TC5 | 3TF68/69 |
| Coil type | 3TY6 443-0B.. 3TY6 483-0B.. | 3TY6 503-0B.. 3TY6 523-0B.. 3TY6 543-0B.. 3TY6 563-0B.. | 3TY7 683-0D.. 3TY7 693-0D.. |

Rated control supply voltages (the 10th and 11th position of the order number must be changed)

DC operation

| | | | |
|----------|----|----|----|
| 24 V DC | B4 | B4 | B4 |
| 48 V DC | W4 | -- | -- |
| 60 V DC | E4 | -- | -- |
| 110 V DC | F4 | F4 | F4 |
| 125 V DC | G4 | -- | G4 |
| 220 V DC | M4 | M4 | M4 |
| 230 V DC | P4 | -- | P4 |

- Operating range at 220 V or 380 V:
0.85 to 1.15 x U_s ;
lower operating range limit according to IEC 60947.
- Lower operating range limit at 220 V:
0.85 x U_s according to IEC 60947.
- Rated control supply voltages U_s :
50 Hz 60 Hz
B0: 24 V --
F0: 110 V 120 V
P0: 220 V to 230 V 240 V (only 3TK19 74)
U0: 230 V to 240 V --