

SIEMENS

Data sheet

3MT7120-5AA00-0AP0



3P Power Contactor AC3:120A AC 230V 50 Hz Main circuit: Screw Auxiliary circuit: Screw

product brand name	SINOVA
product designation	Power contactor
General technical data	
size of contactor	5
power loss [W] for rated value of the current at AC in hot operating state	50.4 W
• per pole	16.8 W
insulation voltage	
 of main circuit with degree of pollution 3 rated value 	1 000 V
degree of pollution	3
surge voltage resistance	
of main circuit rated value	8 kV
protection class IP	
• on the front	IP00
of the terminal	IP00
mechanical service life (operating cycles)	
of contactor typical	3
electrical endurance (operating cycles)	600 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	11/07/2022
Weight	3.6 kg
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
 during operation 	-5 +55 °C
during storage	-25 +70 °C
relative humidity minimum	10 %
relative humidity at 55 °C according to IEC 60068-2-30 maximum	95 %
Main circuit	
number of poles for main current circuit	3
number of NO contacts for main contacts	3
operating voltage at AC-3 rated value maximum	1 000 V
operational current	
 at AC-1 at 400 V at ambient temperature 40 °C rated value 	160 A
• at AC-3	
— at 400 V rated value	120 A
— at 690 V rated value	110 A
operating power	
• at AC-3	

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تهران، کیلومتر۲۱ بزرگراه لشگری (جاده مخصوص کرج)

روبـروی پالایشگاه نفت پارس، پلاک ۱۲



— at 400 V rated value	55 kW
— at 690 V rated value	100 kW
no-load switching frequency	
• at AC	5 000 1/h
operating frequency	
at AC-1 maximum	800 1/h
at AC-3 maximum	750 1/h
Control circuit/ Control	
type of voltage	AC
type of voltage of the control supply voltage	AC
control supply voltage at AC	
at 50 Hz rated value	230 V
control supply voltage frequency	
• 1 rated value	50 Hz
operating range factor control supply voltage rated value of	
magnet coil at AC	
● at 50 Hz	0.85
apparent pick-up power of magnet coil at AC	
● at 50 Hz	550 VA
inductive power factor with closing power of the coil	
● at 50 Hz	0.45
apparent holding power of magnet coil at AC	
● at 50 Hz	40 VA
inductive power factor with the holding power of the coil	
● at 50 Hz	0.24
closing delay at AC	22 37 ms
opening delay at AC	8 30 ms
Auxiliary circuit	
number of NC contacts for auxiliary contacts	
attachable	4
Short-circuit protection	
design of the fuse link	
 for short-circuit protection of the main circuit 	
 — with type of coordination 1 required 	fuse gG: 400 A
 — with type of coordination 2 required 	Fuse gG: 200 A
mounting position	22.5° Inclination forward and backward & 90° to right / 90° to left, in relation to
	normal vertical mounting plane i.e. coil terminals always on top side
fastening method	screw fixing
height	150 mm
width	120 mm
depth	152 mm
required spacing for grounded parts at the side	10 mm
Connections/ Terminals	
type of electrical connection	
for main current circuit	Connection bar
type of connectable conductor cross-sections for main contacts	
 solid or stranded 	2x (50 120 mm²)
• finely stranded with core end processing	2x (35 95 mm²)
design of the thread of the connection screw	
of the auxiliary and control contacts	M3.5 (Control)
Safety related data	
product function	
 positively driven operation according to IEC 60947-5-1 	No
Electrical Safety	
Electrical Safety touch protection on the front according to IEC 60529	IP00
	IP00
touch protection on the front according to IEC 60529	IP00

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Confirmation

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

Information for data generation and storage

https://support.industry.siemens.com/cs/ww/en/view/109995012

Information- and Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3MT7120-5AA00-0AP0

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3MT7120-5AA00-0AP0}$

 $Service \& Support \ (Manuals, \ Certificates, \ Characteristics, \ FAQs, ...)$

https://support.industry.siemens.com/cs/ww/en/ps/3MT7120-5AA00-0AP0

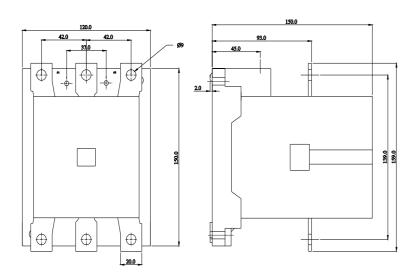
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

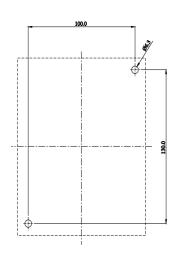
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3MT7120-5AA00-0AP0&lang=en

 $\label{eq:Characteristics} \textbf{Characteristics}, \textbf{I}^{\textbf{2}}\textbf{t}, \textbf{Let-through current}$

https://support.industry.siemens.com/cs/ww/en/ps/3MT7120-5AA00-0AP0/char

Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3MT7120-5AA00-0AP0&objecttype=14&gridview=view1

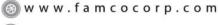




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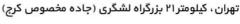


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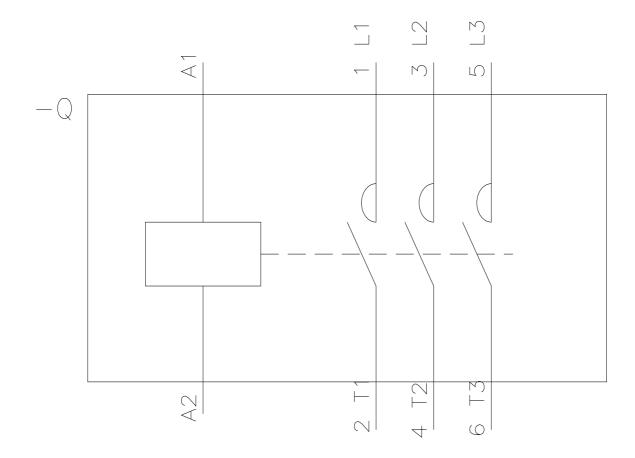




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