

DLE9.4KK Energy-optimized Compressor R600a 220-240V 50Hz

General

Code number	102H4952
Approvals	EN 60335-2-34 with Annex AA
Compressors on pallet	100

Application

Application	LBP		
Frequency	Hz	50	60
Evaporating temperature	°C	-35 to -10	—
Voltage range	V	198 - 254	—
Max. condensing temperature continuous (short)	°C	60 (70)	—
Max. winding temperature continuous (short)	°C	115 (135)	—

Cooling requirements

Frequency	Hz	50			60		
Application		LBP	MBP	HBP	LBP	MBP	HBP
32°C		S	—	—	—	—	—
38°C		S	—	—	—	—	—
43°C		S	—	—	—	—	—
Remarks on application:							

Motor

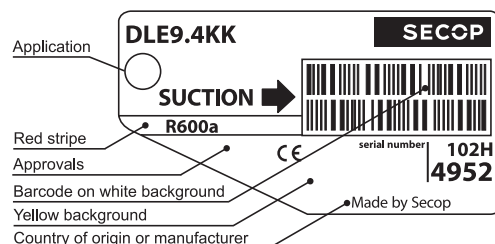
Motor type	RSIR/RSCR		
LRA (rated after 4 sec. UL984), HST LST	A	—	4.1
Cut in Current, HST LST	A	—	8.6
Resistance, main start winding (25°C)	Ω	23.8	13.2

Design

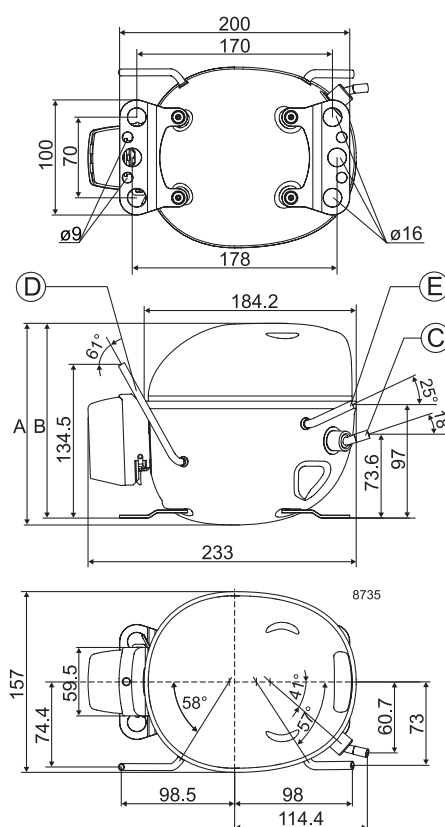
Displacement	cm ³	9.38
Oil quantity (type)	cm ³	155 (mineral)
Maximum refrigerant charge	g	150
Free gas volume in compressor	cm ³	1465
Weight without electrical equipment	kg	8.0

Dimensions

Height	mm	A	175
		B	169
		B1	—
		B2	—
Suction connector	location/I.D. mm angle	C	6.2 18°
	material comment	Cu-plated steel Rubber plug	
Process connector	location/I.D. mm angle	D	4.5 60°
	material comment	Copper Rubber plug	
Discharge connector	location/I.D. mm angle	E	5.0 25°
	material comment	Copper Rubber plug	
Oil cooler connector	location/I.D. mm angle	F	—
	material comment	—	
Connector tolerance	I.D. mm	±0.09, on 5.0 +0.12/+0.22 on 4.5 +0.10/-0.20	
Remarks:			



- S = Static cooling normally sufficient
- O = Oil cooling
- F₁ = Fan cooling 1.5 m/s (compressor compartment temperature equal to ambient temperature)
- F₂ = Fan cooling 3.0 m/s necessary
- SG = Suction gas cooling normally sufficient
- = not applicable in this area



EN 12900 Household (CECOMAF) 220V, 50Hz, 2 W PTC consumption incl., static cooling

Evap. temp. in °C	-45	-40	-35	-30	-25	-23.3	-20	-15	-10	-6.7	-5	0	5	7.2	10	15	20
Capacity in W			71	96	123	133	155	195	246								
Power cons. in W			75	88	101	105	114	130	148								
Current cons. in A			0.58	0.61	0.65	0.67	0.70	0.76	0.83								
COP in W/W			0.94	1.09	1.22	1.26	1.35	1.50	1.67								

ASHRAE LBP 220V, 50Hz, 2 W PTC consumption incl., static cooling

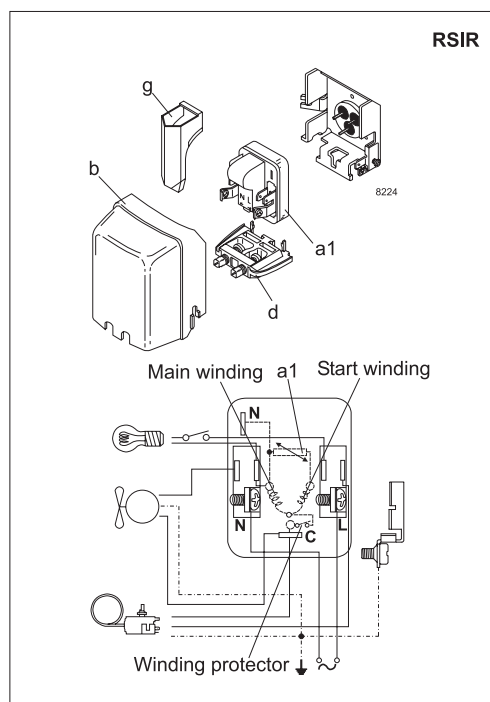
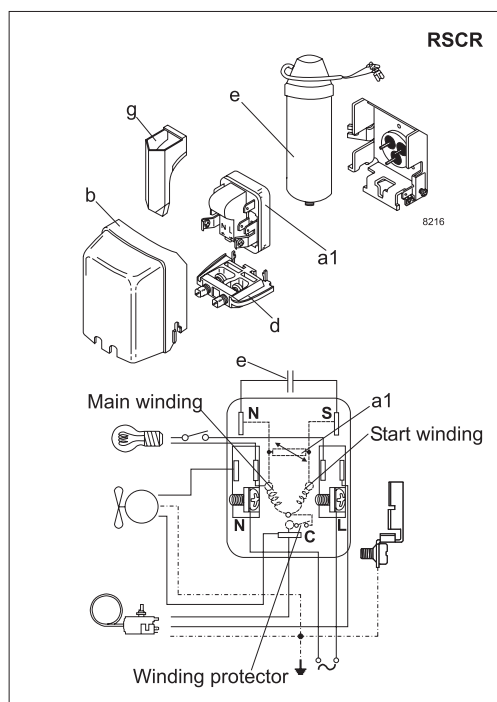
Evap. temp. in °C	-45	-40	-35	-30	-25	-23.3	-20	-15	-10	-6.7	-5	0	5	7.2	10	15	20
Capacity in W			87	117	150	162	189	238	300								
Power cons. in W			75	88	100	105	114	129	147								
Current cons. in A			0.58	0.61	0.65	0.67	0.70	0.76	0.82								
COP in W/W			1.15	1.34	1.49	1.55	1.66	1.84	2.04								

EN 12900 Household (CECOMAF) 220V, 50Hz, RC 4 µF, 2 W PTC consumption incl., static cooling

Evap. temp. in °C	-45	-40	-35	-30	-25	-23.3	-20	-15	-10	-6.7	-5	0	5	7.2	10	15	20
Capacity in W			71	95	122	132	155	195	247								
Power cons. in W			72	83	95	99	107	121	137								
Current cons. in A			0.35	0.39	0.44	0.46	0.50	0.56	0.64								
COP in W/W			0.98	1.14	1.29	1.34	1.44	1.61	1.80								

ASHRAE LBP 220V, 50Hz, RC 4 µF, 2 W PTC consumption incl., static cooling

Evap. temp. in °C	-45	-40	-35	-30	-25	-23.3	-20	-15	-10	-6.7	-5	0	5	7.2	10	15	20
Capacity in W			86	116	149	161	188	238	301								
Power cons. in W			72	83	94	98	107	121	137								
Current cons. in A			0.35	0.39	0.44	0.46	0.49	0.56	0.64								
COP in W/W			1.20	1.40	1.58	1.64	1.77	1.97	2.20								



Accessories for	DLE9.4KK	Figure	Code number
PTC starting device	6.3 mm spade connectors	a1	103N0016
	4.8 mm spade connectors		103N0021
ePTC starting device	4.8 mm spade connectors		103N0050
Cover		b	103N0491
Run capacitor 4 µF (optional)	6.3 mm spade connectors	e	—
	4.8 mm spade connectors		117-7119
Cord relief		d	103N1010
Protection screen for PTC		g	103N0476

Test conditions	EN 12900/CECOMAF	ASHRAE LBP
Condensing temperature	55°C	54.4°C
Ambient temperature	32°C	32°C
Suction gas temperature	32°C	32°C
Liquid temperature	no subcooling	32°C

Mounting accessories	Code number	
Bolt joint for one comp.	Ø: 16 mm	118-1917
Bolt joint in quantities	Ø: 16 mm	118-1918
Snap-on in quantities	Ø: 16 mm	118-1919

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