

DLX4.8KK.1 High Energy-optimized Compressor R600a 220-240V 50Hz

General

Code number	102H3559
Approvals	EN 60335-2-34 with Annex AA
Compressors on pallet	100

Application

Application	LBP		
Frequency	Hz	50	60
Evaporating temperature	°C	-35 to -5	-
Voltage range	V	198 - 254	-
Max. condensing temperature continuous (short)	°C	60 (70)	-
Max. winding temperature continuous (short)	°C	105 (115)	-

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:		Extended condensing temperature (65°C) at evaporating temperature range -30 to -10°C.					

Motor

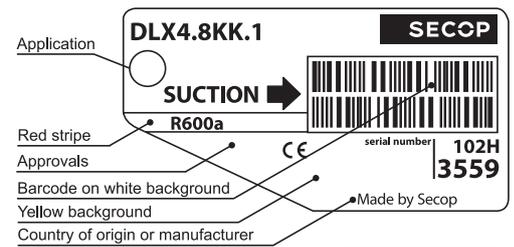
Motor type	RSCR		
LRA (rated after 4 sec. UL984), HST LST	A	-	1.1
Cut in Current, HST LST	A	-	4.2
Resistance, main start winding (25°C)	Ω	51.7	28.5

Design

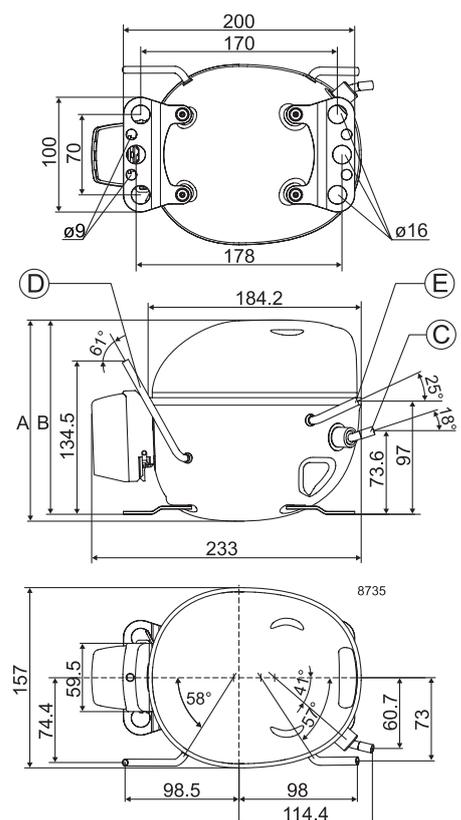
Displacement	cm ³	4.78
Oil quantity (type)	cm ³	155 (mineral)
Maximum refrigerant charge	g	150
Free gas volume in compressor	cm ³	1400
Weight without electrical equipment	kg	9.2

Dimensions

Height	mm	A	175
		B	169
		B1	-
		B2	-
Suction connector	location/I.D. mm angle	C	6.2 18°
	material comment		Copper 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

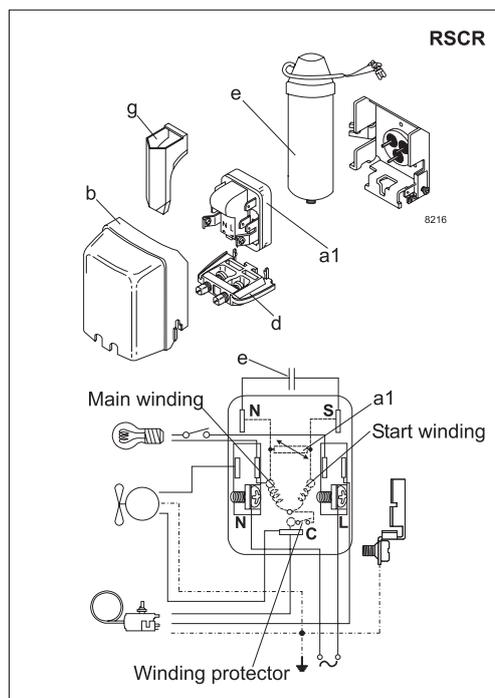


EN 12900 Household (CECOMAF) 220V, 50Hz, RC 2 µF, ePTC consumption incl., static cooling

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			29.5	43.4	60.0	66.4	80.0	103.6	131	152	164						
Power cons. in W			28.9	35.0	41.0	43.0	47.0	53.2	59.8	64.6	67.2						
Current cons. in A			0.15	0.17	0.19	0.20	0.22	0.25	0.28	0.30	0.32						
COP in W/W			1.02	1.24	1.47	1.54	1.70	1.95	2.20	2.36	2.44						

ASHRAE LBP 220V, 50Hz, RC 2 µF, ePTC 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			36.4	53.3	73.6	81.3	97.9	126.7	161	186	200						
Power cons. in W			29.0	35.0	40.9	42.9	46.8	52.9	59.6	64.3	66.9						
Current cons. in A			0.15	0.17	0.19	0.20	0.22	0.25	0.28	0.30	0.31						
COP in W/W			1.26	1.52	1.80	1.90	2.09	2.39	2.70	2.90	3.00						



Accessories for	DLX4.8KK.1	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		103N0055
Cover		b	103N0491
Run capacitor 2 µF (compulsory)	6.3 mm spade connectors	e	—
	4.8 mm spade connectors		117-7136
Run capacitor 4 µF (compulsory)	6.3 mm spade connectors	e	117-7117 *)
	4.8 mm spade connectors		117-7119 *)
Cord relief		d	103N1010
Protection screen for PTC		g	103N0476

*) Remark: A 4 µF run capacitor enhances the starting characteristics.

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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