

PLE50F Energy-optimized Compressor R134a 220-240V 50Hz

General

Code number	101G0221
Approvals	–
Compressors on pallet	150

Application

Application	MBP		
	Hz	50	60
Frequency	Hz	50	60
Evaporating temperature	°C	-25 to 0	–
Voltage range	V	198 - 254	–
Max. condensing temperature continuous (short)	°C	60 (70)	–
Max. winding temperature continuous (short)	°C	125 (135)	–

Cooling requirements

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

Motor

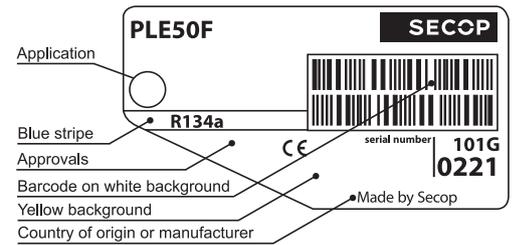
Motor type	RSCR		
LRA (rated after 4 sec. UL984), HST LST	A	–	1.4
Cut in Current, HST LST	A	–	5.1
Resistance, main start winding (25°C)	Ω	47.0	24.0

Design

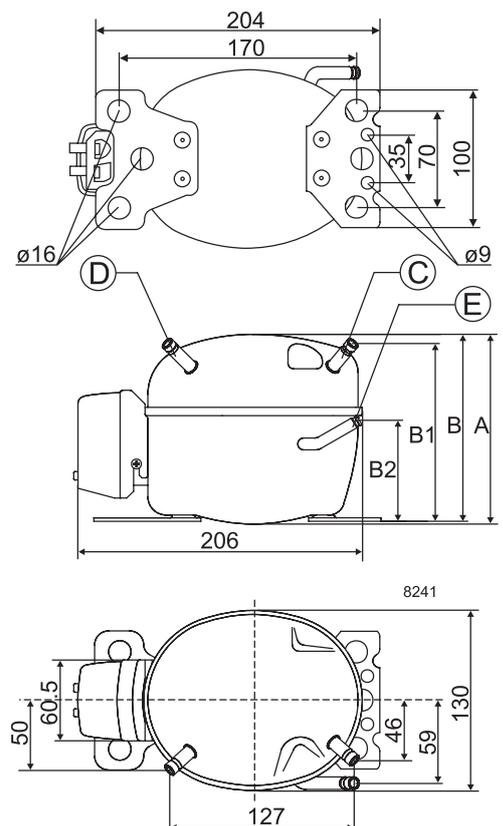
Displacement	cm ³	2.50
Oil quantity (type)	cm ³	150 (polyolester)
Maximum refrigerant charge	g	300
Free gas volume in compressor	cm ³	870
Weight without electrical equipment	kg	4.8

Dimensions

Height	mm	A	140
		B	138
		B1	131
		B2	73
Suction connector	location/I.D. mm angle	C	6.2 40°
	material comment		Cu-plated steel Al cap
Process connector	location/I.D. mm angle	D	6.2 45°
	material comment		Cu-plated steel Al cap
Discharge connector	location/I.D. mm angle	E	5.0 21°
	material comment		Cu-plated steel Al cap
Oil cooler connector	location/I.D. mm angle	F	–
	material comment		–
Connector tolerance	I.D. mm		±0.09, on 5.0 +0.12/+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

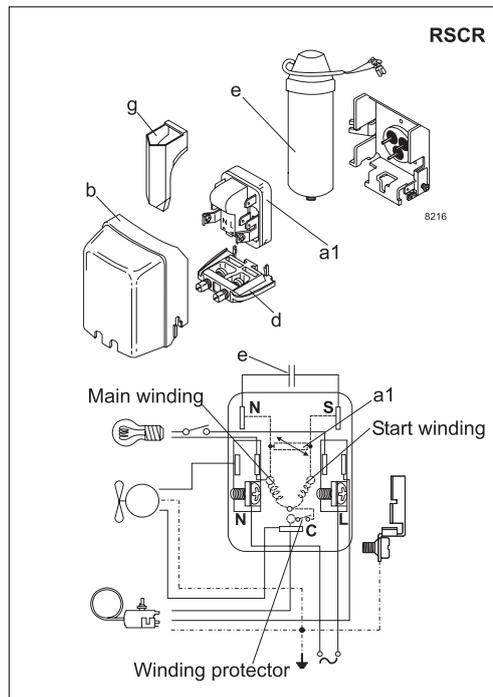


EN 12900 Household (CECOMAF) 220V, 50Hz, RC 4 µF, static cooling, PTC consumption incl.

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					42.0	47.2	57.9	76.2	97.4	113	122	150					
Power cons. in W					52	54.4	59.0	66.3	74.2	80.0	82.8	92.6					
Current cons. in A					0.29	0.30	0.31	0.34	0.37	0.39	0.40	0.44					
COP in W/W					0.81	0.87	0.98	1.15	1.31	1.42	1.47	1.62					

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

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					51.9	58.2	71.5	94.1	120	141	151	186					
Power cons. in W					52	54.4	59.0	66.3	74.2	80.0	82.8	92.6					
Current cons. in A					0.29	0.30	0.31	0.34	0.37	0.39	0.40	0.44					
COP in W/W					1.00	1.07	1.21	1.42	1.62	1.77	1.82	2.01					



Accessories for	PLE50F	Figure	Code number
PTC starting device	6.3 mm spade connectors	a1	103N0016
	4.8 mm spade connectors		103N0021
Cover		b	103N0491
Cord relief		d	103N1010
Run capacitor 4 µF (compulsory)	6.3 mm spade connectors	e	117-7117
	4.8 mm spade connectors		117-7119
Protection screen for PTC		g	103N0476

Test conditions	EN 12900/CECOMAF	ASHRAE
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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