

PL50F Standard Compressor (HST) R134a 220-240V 50Hz

General

Code number	101G0222
Approvals	EN 60335-2-34 with Annex AA
Compressors on pallet	150

Application

Application		MBP				
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		
Application		LBP	MBP	HBP	LBP	MBP	HBP	
32°C		_	F ₂	_	_	_	_	
38°C		_	F ₂	_	_	_	_	
43°C		_	F ₂	_	_	_	_	

Remarks on application: HST starting characteristics

Application PL50F R134a Blue stripe Approvals Barcode on white background Yellow background Country of origin or manufacturer SECOP SECOP 1016 0222 Made by Secop

S = Static cooling normally sufficient

= 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 sufficent

= not applicable in this area

Motor

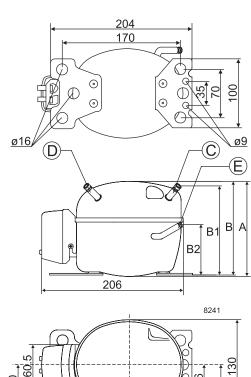
Motor type	CSIR			
LRA (rated after 4 sec. UL984), HST LST	Α	4.2	_	
Cut in Current, HST LST	А	4.2	-	
Resistance, main start winding (25°C)	Ω	38.0	14.0	

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	850
Weight without electrical equipment	kg	4.3

Dimensions

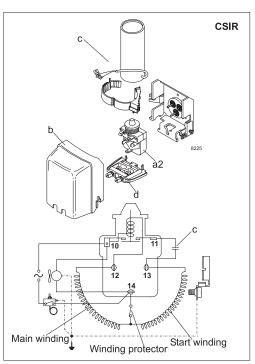
Height	mm	A 137
		B 135
		B1 128
		B2 73
Suction connector	location/I.D. mm angle	C 6.2 40°
	material comment	Cu-plated steel Al cap
Process connector	location/I.D. mm angle	D 6.2 45°
	material comment	Cu-plated steel Al cap
Discharge connector	location/I.D. mm angle	E 5.0 21°
	material comment	Cu-plated 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:		



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					40.0	45.1	55.8	74.1	95.2	111	120	148					
Power cons. in W					58.0	60.7	66.1	74.5	83.6	90.0	93.7	105					
Current cons. in A					0.50	0.51	0.53	0.55	0.58	0.61	0.62	0.66					
COP in W/W					0.69	0.74	0.84	0.99	1.14	1.23	1.28	1.41					

ASHRAE LBP	220V, 50Hz, fan cooling
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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					49.3	55.6	68.9	91.5	118	138	148	183					
Power cons. in W					58.0	60.7	66.1	74.5	83.6	90.0	93.7	105					
Current cons. in A					0.50	0.51	0.53	0.55	0.58	0.61	0.62	0.66					
COP in W/W					0.85	0.92	1.04	1.23	1.41	1.54	1.59	1.76					



Accessories for	PL50F (HST)	Figure	Code number
PTC starting device	6.3 mm spade connectors	a1	_
	4.8 mm spade connectors	aı	_
Starting relay	6.3 mm spade connectors	a2	117U6021
Start. capacitor 60 µF	6.3 mm spade connectors	С	117U5014
Cover		b	103N0491
Cord relief		d	103N1010

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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