Single
Packs

Single Pack PL20F 220-240V 50Hz RSIR

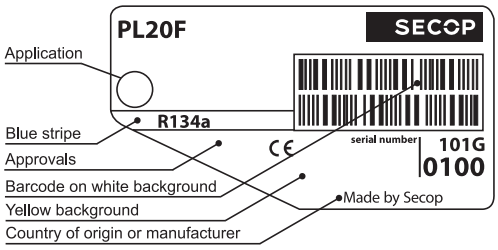
Single pack code number: **195B4079**

Position	Title	Code	Amount
1	Compressor PL20F	101G0100	1
2	PTC starting device (220V, 25Ohm, 6.3mm)	103N0011	1
3	Protection screen for PTC	103N0476	1
4	Cord relief	103N1010	1
5	Cover	103N0491	1
6	Bolt joint for one compressor | M6 | ø16mm	118-1917	1

Secop GmbH • Lise-Meitner-Straße 29 • 24941 Flensburg, Germany • Tel: +49 461 4941 0 • **www.secop.com**

Secop accepts no responsibility for possible errors in catalogs, brochures, and other printed material. Secop reserves the right to alter its products without notice. This also applies to products already on order provided that such alterations can be made without subsequential changes being necessary to specifications already agreed. All trademarks in this material are the property of the respective companies. Secop and the Secop logotype are trademarks of Secop GmbH. All rights reserved.

PL20F
Standard Compressor
R134a
220-240V 50Hz



General

Code number	101G0100
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		–	S	–	–	–	–
38°C		–	S	–	–	–	–
43°C		–	–	–	–	–	–
Remarks on application:							

S = Static cooling normally sufficient
O = Oil cooling
F_1 = Fan cooling 1.5 m/s (compressor compartment temperature equal to ambient temperature)
F_2 = Fan cooling 3.0 m/s necessary
SG = Suction gas cooling normally sufficent
– = not applicable in this area

Motor

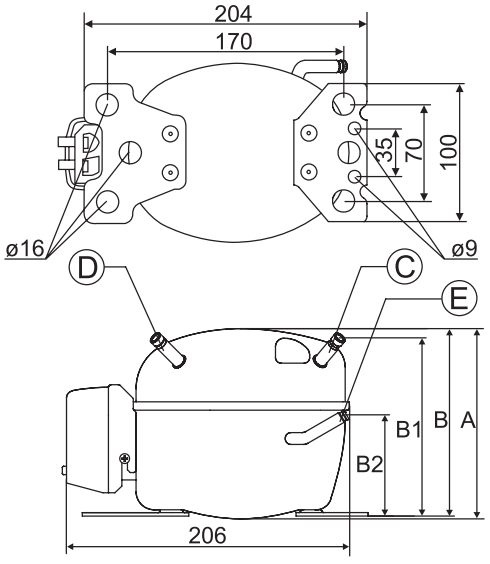
Motor type		RSIR	
LRA (rated after 4 sec. UL984), HST | LST	A	–	1.2
Cut in Current, HST | LST	A	–	5.7
Resistance, main | start winding (25°C)	Ω	84.0	19.0

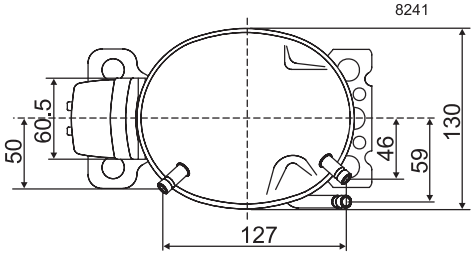
Design

Displacement	cm^3	1.41
Oil quantity (type)	cm^3	150 (polyolester)
Maximum refrigerant charge	g	300
Free gas volume in compressor	cm^3	800
Weight without electrical equipment	kg	3.8

Dimensions

Height	mm	A	129
		B	127
		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:			



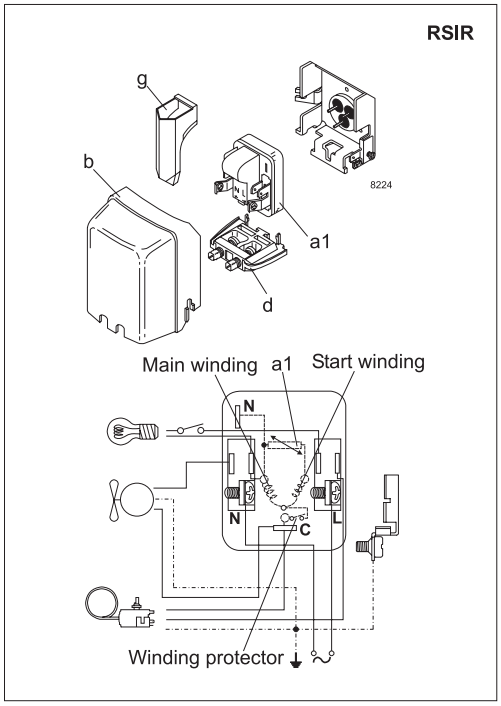


EN 12900 Household (CECOMAF) 220V, 50Hz, static cooling, PTC consumption incl.

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					16.0	19.0	25.4	36.5	49.6	59.0	64.9	82.6					
Power cons. in W					42.0	43.4	46.4	51.5	57.2	61.0	63.3	69.7					
Current cons. in A					0.35	0.35	0.36	0.37	0.39	0.40	0.41	0.43					
COP in W/W					0.38	0.44	0.55	0.71	0.87	0.97	1.03	1.19					

ASHRAE LBP 220V, 50Hz, 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					19.7	23.4	31.3	45	61.3	74.0	80.3	102					
Power cons. in W					42.0	43.4	46.4	51.5	57.2	61.0	63.3	69.7					
Current cons. in A					0.35	0.35	0.36	0.37	0.39	0.40	0.41	0.43					
COP in W/W					0.47	0.54	0.67	0.87	1.07	1.21	1.27	1.47					

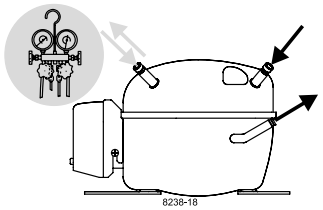


Accessories for	PL20F	Figure	Code number
PTC starting device	6.3 mm spade connectors	a1	103N0011
	4.8 mm spade connectors		103N0018
Starting relay	6.3 mm spade connectors	a2	–
Start. capacitor 60 µF	6.3 mm spade connectors	c	–
Cover		b	103N0491
Cord relief		d	103N1010
Protection screen for PTC		g	103N0476

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

Secop accepts no responsibility for possible errors in catalogs, brochures, and other printed material. Secop reserves the right to alter its products without notice. This also applies to products already on order provided that such alterations can be made without subsequential changes being necessary to specifications already agreed. All trademarks in this material are the property of the respective companies. Secop and the Secop logotype are trademarks of Secop GmbH. All rights reserved. **www.secop.com**



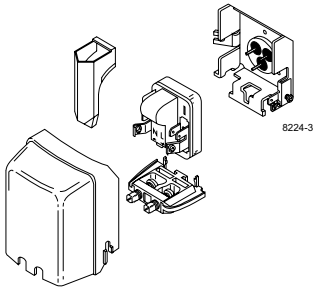
PL Compressors

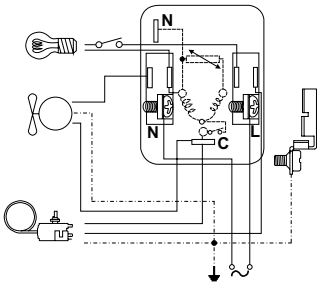
SECOP

Keep electrical equipment clear from oil, chemicals, and water

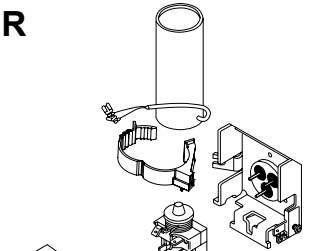
When operated with a flammable refrigerant, only spark-proof starting equipment is allowed.

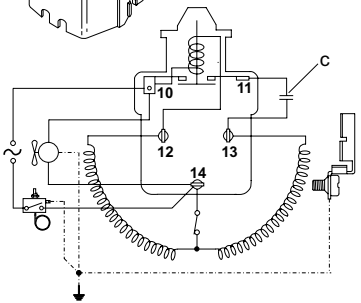
RSIR



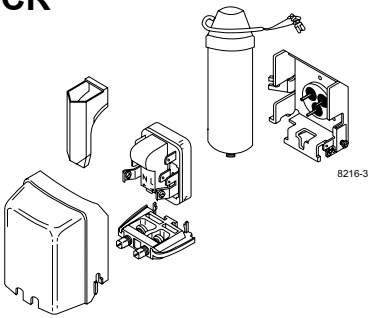


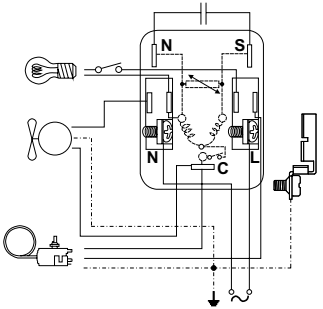
CSIR

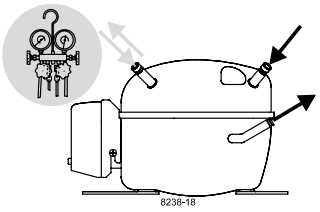




RSCR







PL Compressors

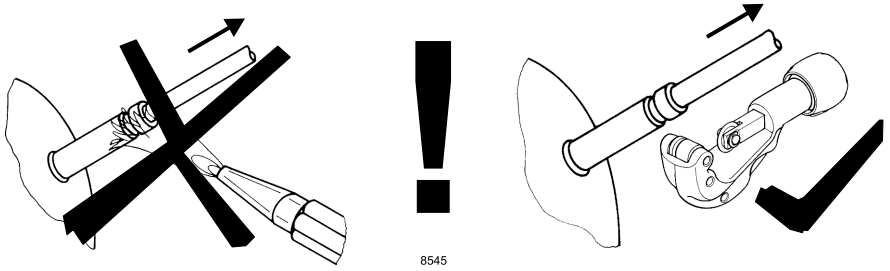
SECOP

Keep electrical equipment clear from oil, chemicals, and water

When operated with a flammable refrigerant, only spark-proof starting equipment is allowed.

Service/Repair – R600a, R1234yf

(applies to all flammable refrigerants)



Dismantling, recycling, disposal: At the end of a compressor's lifecycle, proceed by separating and storing components according to their environmental impact. Parts that may cause pollution must be clearly identified and handled separately, ensuring appropriate disposal. Refrigerant gas must not be released into the environment and should be recovered by qualified operators. Compressor oil must also be collected separately. The compressor should be disposed of at specialized disposal centers in accordance with the applicable regulations. **Subject to modifications/alterations. www.secop.com**