

## SC15MNX MBP Compressor R290 220-240V 50Hz

### General

Code number	104H8575
Approvals	EN 60335-2-34,CCC
Compressors on pallet	80

### Application

Application	MBP		
Frequency	Hz	50	60
Evaporating temperature	°C	-35 to 10	-
Voltage range	V	198 - 254	-
Max. condensing temperature continuous (short)	°C	55 (65)	-
Max. winding temperature continuous (short)	°C	125 (135)	-

### Cooling requirements

Frequency	Hz	50			60		
Application		LBP	MBP	HBP	LBP	MBP	HBP
32°C		-	F <sub>2</sub>	-	-	-	-
38°C		-	F <sub>2</sub>	-	-	-	-
43°C		-	F <sub>2</sub>	-	-	-	-
Remarks on application:							

### Motor

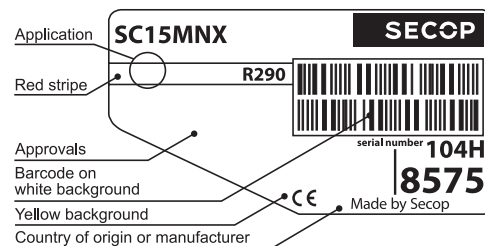
Motor type	CSIR		
LRA (rated after 4 sec. UL984), HST   LST	A	18.6	-
Cut in Current, HST   LST	A	18.6	-
Resistance, main   start winding (25°C)	Ω	3.7	14.1

### Design

Displacement	cm <sup>3</sup>	15.28
Oil quantity (type)	cm <sup>3</sup>	600 (polyolester)
Maximum refrigerant charge	g	150
Free gas volume in compressor	cm <sup>3</sup>	1510
Weight without electrical equipment	kg	13.5

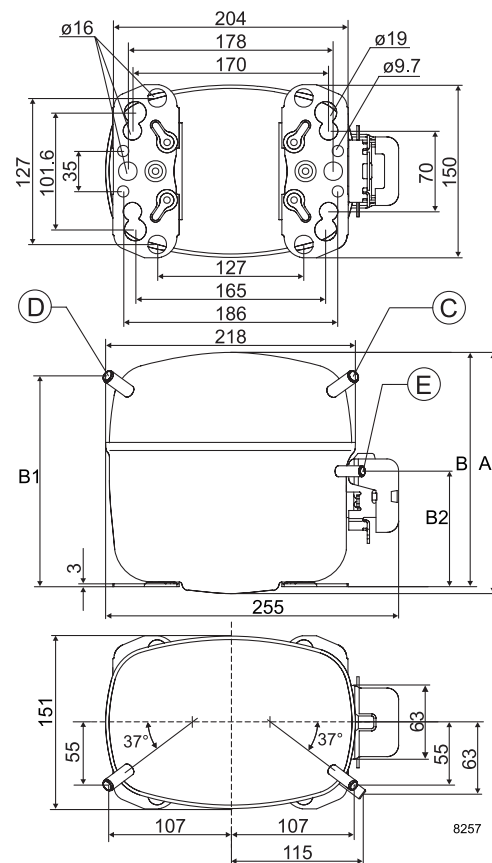
### Dimensions

Height	mm	A	219
		B	213
		B1	193
		B2	110
Suction connector	location/I.D. mm   angle	C	8.2   37°
	material   comment		Copper   Rubber plug
Process connector	location/I.D. mm   angle	D	6.2   37°
	material   comment		Copper   Rubber plug
Discharge connector	location/I.D. mm   angle	E	6.2   37°
	material   comment		Copper   Rubber plug
Oil cooler connector	location/I.D. mm   angle	F	-
	material   comment		-
Connector tolerance	I.D. mm		±0.09
Remarks:			



Yellow warning label

- S = Static cooling normally sufficient
- O = Oil cooling
- F<sub>1</sub> = Fan cooling 1.5 m/s  
(compressor compartment temperature equal to ambient temperature)
- F<sub>2</sub> = Fan cooling 3.0 m/s necessary
- SG = Suction gas cooling normally sufficient
- = not applicable in this area



**EN 12900 MBP**

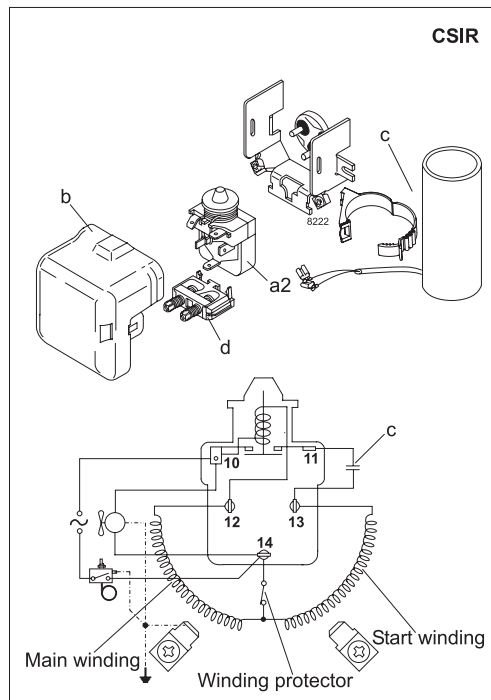
220V, 50Hz, fan cooling F<sub>2</sub>

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			313	428	561	611	715	893	1098	1249	1332	1598	1900	2044	2239		
Power cons. in W			80	259	392	428	487	553	597	618	627	652	678	692	714		
Current cons. in A			2.75	2.95	3.15	3.21	3.33	3.50	3.65	3.75	3.80	3.93	4.05	4.10	4.16		
COP in W/W			3.89	1.65	1.43	1.43	1.47	1.62	1.84	2.02	2.12	2.45	2.80	2.95	3.13		

**ASHRAE HBP/MBP**

220V, 50Hz, fan cooling F<sub>2</sub>

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			329	440	564	610	705	866	1050	1185	1260	1499	1772	1901	2080		
Power cons. in W			88	274	416	456	522	599	656	686	700	739	781	803	835		
Current cons. in A			2.67	2.92	3.17	3.25	3.40	3.62	3.83	3.96	4.02	4.21	4.38	4.45	4.54		
COP in W/W			3.75	1.60	1.35	1.34	1.35	1.44	1.60	1.73	1.80	2.03	2.27	2.37	2.49		



Accessories for	SC15MNX	Figure	Code number	Test conditions	EN 12900 MBP	ASHRAE HBP/MBP
PTC starting device	6.3 mm spade connectors	-	-	Condensing temperature	45°C	54.4°C
	4.8 mm spade connectors			Ambient temperature	32°C	35°C
Starting relay	6.3 mm spade connectors	a2	117U7019	Suction gas temperature	20°C	35°C
Cover		b	103N2008	Liquid temperature	no subcooling	46.1°C
Start. capacitor 80 µF	6.3 mm spade connectors	c	117U5017			
Cord relief		d	103N1004			
Protection screen for PTC		-	-			
				<b>Mounting accessories</b>	<b>Code number</b>	
				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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