

## SC10MNX MBP Compressor R290 220-240V 50Hz

### General

Code number	104H8075
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	187 - 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

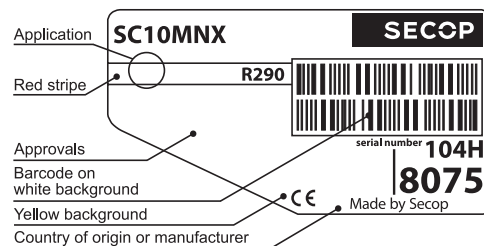
Motor type	CSIR		
LRA (rated after 4 sec. UL984), HST   LST	A	14.8	-
Cut in Current, HST   LST	A	14.8	-
Resistance, main   start winding (25°C)	Ω	5.0	13.7

### Design

Displacement	cm <sup>3</sup>	10.29
Oil quantity (type)	cm <sup>3</sup>	550 (polyolester)
Maximum refrigerant charge	g	150
Free gas volume in compressor	cm <sup>3</sup>	1410
Weight without electrical equipment	kg	13.0

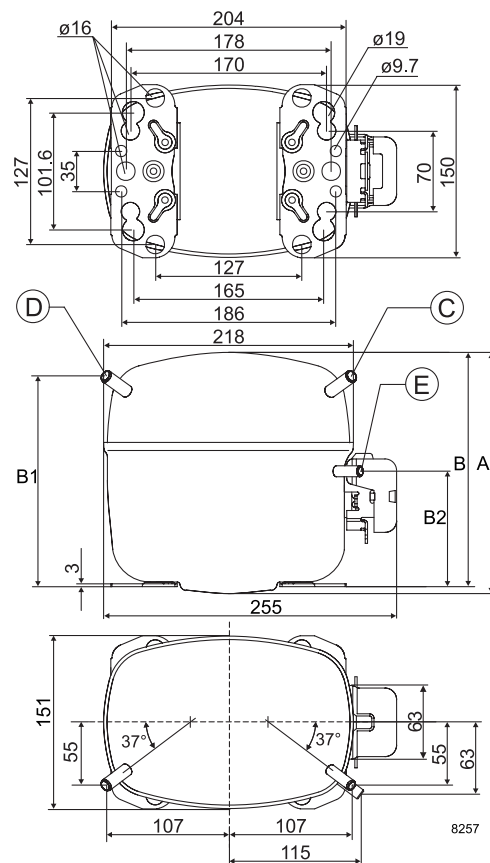
### Dimensions

Height	mm	A	209
		B	203
		B1	183
		B2	100
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**

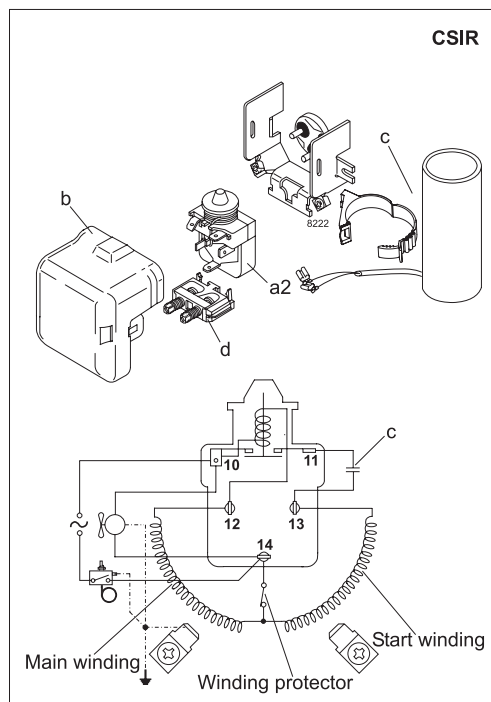
220V, 50Hz, fan cooling F<sub>2</sub>

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			149	234	332	368	445	575	724	834	894	1088	1307	1412	1554		
Power cons. in W			167	238	295	312	341	377	405	420	427	443	457	463	470		
Current cons. in A			2.17	2.28	2.39	2.42	2.49	2.58	2.67	2.72	2.75	2.82	2.88	2.91	2.94		
COP in W/W			0.89	0.98	1.12	1.18	1.30	1.52	1.79	1.99	2.10	2.45	2.86	3.05	3.31		

**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			110	207	316	356	440	583	747	867	934	1147	1391	1508	1666		
Power cons. in W			104	197	275	298	339	391	433	456	467	493	515	523	533		
Current cons. in A			2.10	2.24	2.38	2.43	2.51	2.64	2.75	2.83	2.86	2.97	3.06	3.10	3.15		
COP in W/W			1.07	1.05	1.15	1.20	1.30	1.49	1.72	1.90	2.00	2.33	2.70	2.88	3.12		



Accessories for	SC10MNX	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	117U7005	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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