

SC18MNX MBP Compressor R290 220-240V 50Hz

General

Code number	104H8875
Approvals	EN 60335-2-34,CCC
Compressors on pallet	80

Application

Application	MBP		
Frequency	Hz	50	60
Evaporating temperature	°C	-25 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 ₂	—	—	—	—
38°C		—	F ₂	—	—	—	—
43°C		—	F ₂	—	—	—	—
Remarks on application:							

Motor

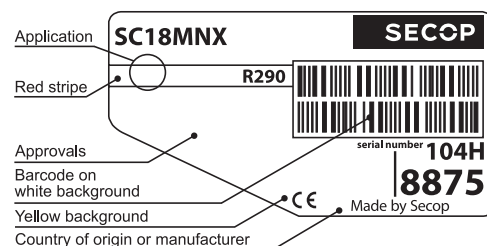
Motor type	CSIR		
LRA (rated after 4 sec. UL984), HST LST	A	23.4	—
Cut in Current, HST LST	A	23.6	—
Resistance, main start winding (25°C)	Ω	3.4	14.4

Design

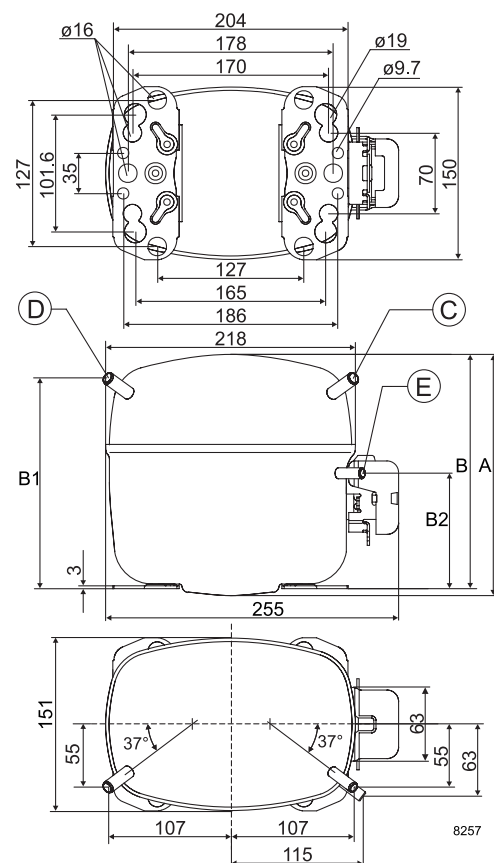
Displacement	cm ³	17.69
Oil quantity (type)	cm ³	600 (polyolester)
Maximum refrigerant charge	g	150
Free gas volume in compressor	cm ³	1460
Weight without electrical equipment	kg	14.0

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:			



- 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 MBP220V, 50Hz, fan cooling F₂

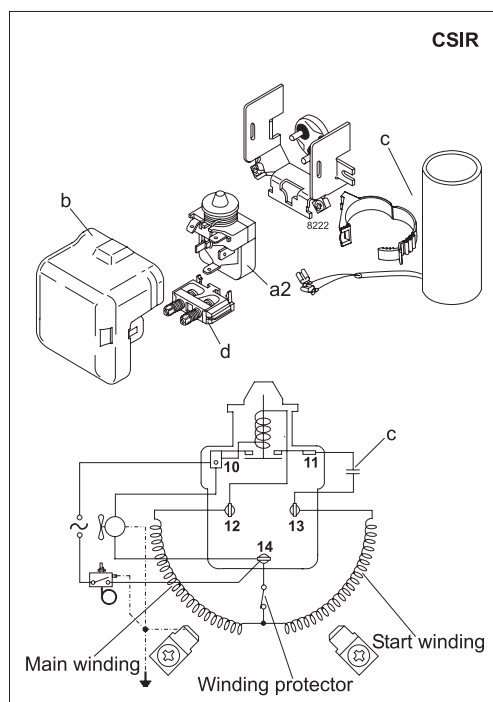
Evap. temp. in °C	-45	-40	-35	-30	-25	-23.3	-20	-15	-10	-6.7	-5	0	5	7.2	10	15	20
Capacity in W					675	730	844	1039	1263	1428	1519	1810	2140	2298	2512		
Power cons. in W					544	567	608	662	709	736	749	785	818	833	851		
Current cons. in A					3.91	3.96	4.06	4.22	4.38	4.49	4.54	4.71	4.87	4.95	5.04		
COP in W/W					1.24	1.29	1.39	1.57	1.78	1.94	2.03	2.31	2.61	2.76	2.95		

EN 12900 Household220V, 50Hz, fan cooling F₂

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					569	618	719	891	1088	1232	1312	1567	1857	1996	2184		
Power cons. in W					547	578	634	709	774	813	831	882	927	946	970		
Current cons. in A					3.96	4.03	4.17	4.38	4.60	4.75	4.82	5.05	5.27	5.37	5.50		
COP in W/W					1.28	1.32	1.40	1.55	1.74	1.88	1.95	2.20	2.49	2.62	2.80		

ASHRAE HBP/MBP220V, 50Hz, fan cooling F₂

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					625	679	790	979	1195	1355	1442	1724	2044	2198	2406		
Power cons. in W					547	578	633	707	771	808	826	876	921	939	962		
Current cons. in A					3.95	4.02	4.16	4.37	4.59	4.73	4.81	5.03	5.25	5.35	5.48		
COP in W/W					1.14	1.18	1.25	1.39	1.55	1.68	1.75	1.97	2.22	2.34	2.50		



Accessories for SC18MNX		Figure	Code number
PTC starting device	6.3 mm spade connectors	—	—
	4.8 mm spade connectors	—	—
Starting relay	6.3 mm spade connectors	a2	117U7011
Cover		b	103N2008
Start. capacitor 80 µF	6.3 mm spade connectors	c	117U5017
Cord relief		d	103N1004
Protection screen for PTC		—	—

Test conditions	EN 12900		ASHRAE HBP/MBP
	MBP	Household	
Condensing temp.	45°C	55°C	54.4°C
Ambient temperature	32°C	32°C	35°C
Suction gas temp.	20°C	32°C	35°C
Liquid temperature	no subcooling		46.1°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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