

Model			
Designation	SCE15MNX	208-230V/60Hz 1~	Sales code: 104H8579

Compressor design

Oil type	Polyolester	Refrigerant(s)	R290
Oil viscosity	32cSt	Displacement	15,28cm³ / 0,93cu.in
Oil quantity	541cm³ / 18,3fl.oz	Compressors on pallet	80
Refr. charge - tech. limit	450g / 15,9oz		
Free gas volume comp.	1460cm³ / 49,4fl.oz		
Weight	14,2kg / 31,3lbs		
Motor protection	external		
Winding resistance main	3,12Ω (at 25°C)		
Winding resistance aux	11,25Ω (at 25°C)		
Max. winding temp.	125°C / 257°F		
Max. discharge temp.	130°C / 266°F		



General - Configurations with SCE15MNX

	Conf. 1
Motorconfiguration	CSCR
Power supply (nominal)	208-230V/60Hz
Number of phases	1
Voltage range	187-253V
Approvals	UL
Starting torque	HST
Note	Protector and cover are included and pre-assembled to compressor.

Applications with SCE15MNX

	Conf. 1
Refrigerant	R290
Application	MBP
System cooling	fan 3m/s
Hot gas defrost	OK
Long interval pull down	OK

Electrical data - Configurations with SCE15MNX

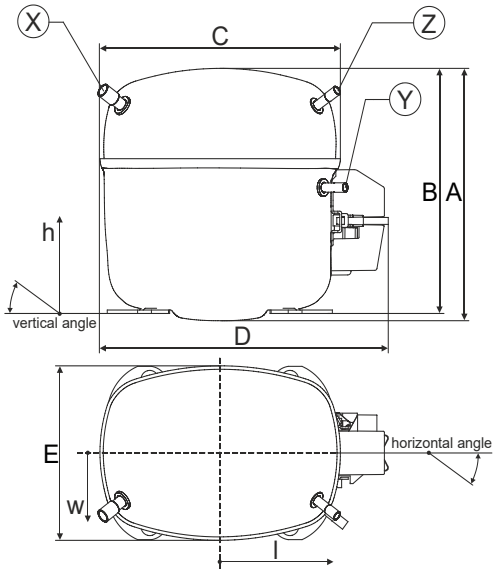
	Conf. 1
Starting device type	relay
Run capacitor	10μF
Start capacitor	80μF
LRA (locked rotor amps / 4s/ U(N))	24,22A
RLA (rated load amps / 1s/ U(N))	3,85A
Cut in current (U(N))	24,22A

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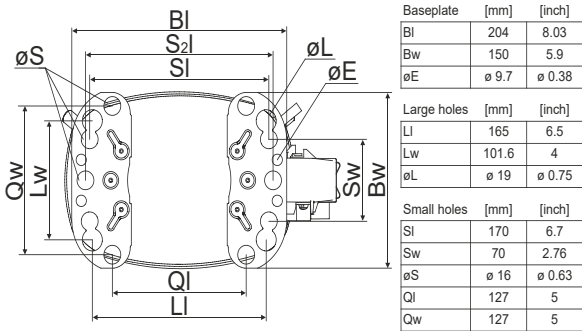
Compressor dimensions

Housing	A Height	219mm / 8,62in
	B Height	213mm / 8,39in
	C Length shell	218mm / 8,58in
	D Length w. cover	255mm / 10,04in
	E Width	151mm / 5,94in

Connectors	Suction	Discharge	Process
	X	Y	Z
Diameter [mm]	øi 9,54-9,72	øi 6,41-6,59	øi 6,41-6,59
(i:inside, o:outside) [in]	øi 0,38-0,38	øi 0,25-0,26	øi 0,25-0,26
Material	copper	copper	copper
Horizontal angle ±2°	37°	37°	143°
Vertical angle ±2°	30°	0°	150°
Position l/h/w [mm]	107/193/55	115/110/63	-107/193/55
[in]	4,2/7,6/2,2	4,5/4,3/2,5	-4,2/7,6/2,2
Straight tube l. [mm]	12	12	12
[in]	0,5	0,5	0,5



Compressor fixation

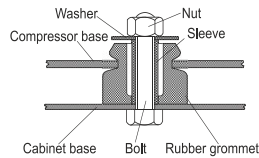


Mounting accessories	one comp.	multi pack
Bolt joint M6 ø16mm	118-1917	118-1918
Bolt joint ø1/4" ø16mm	118-1946	
Bolt joint ø1/4" ø19mm	118-1949	
Snap-on ø7,3 ø16mm	118-1947	118-1919

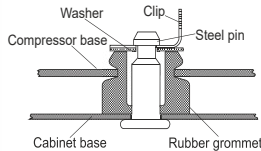
Application notes

Provision for PE Grounding is located at the PE Stamp on the compressor

Bolt joint



Snap-on



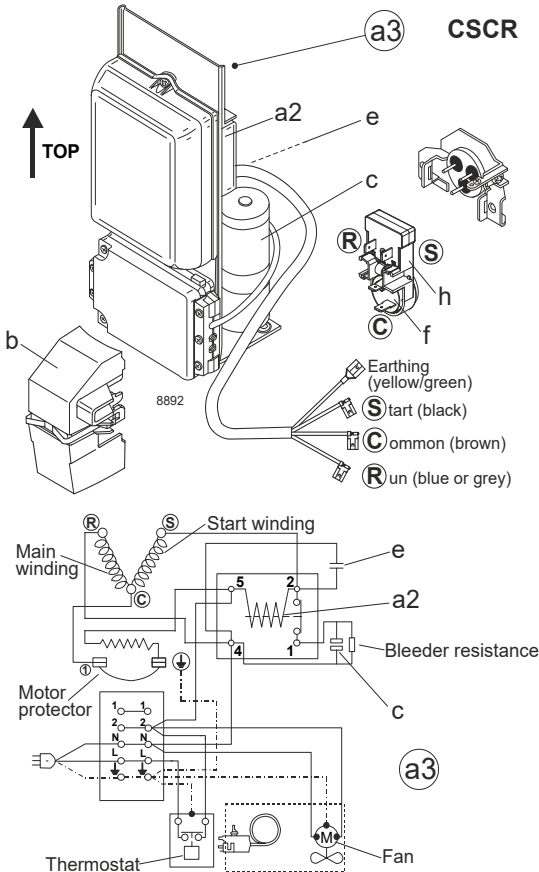
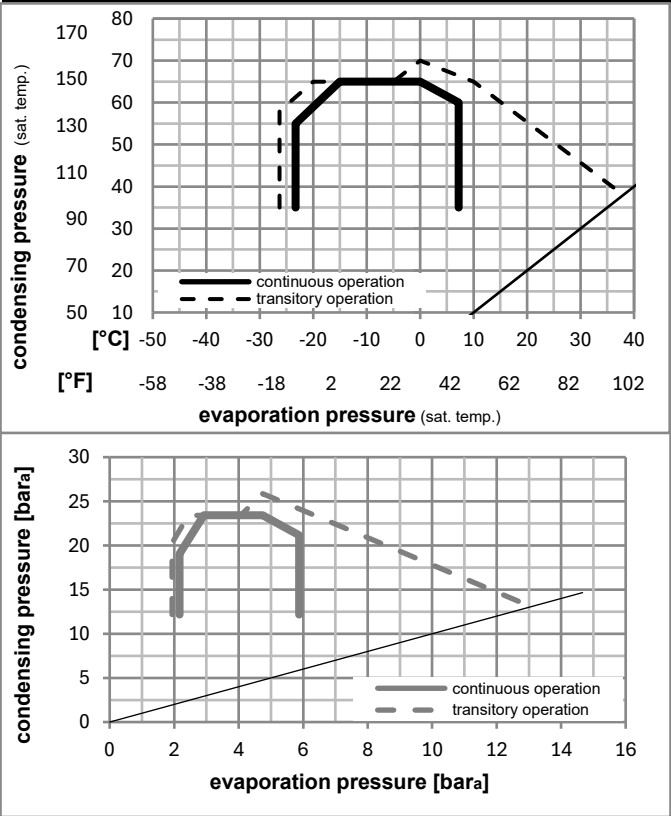
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Configuration	Electrical accessories / wiring diagram			
Motorconfiguration	CSCR			
Power supply (nominal)	208-230V/60Hz 1~			
Refrigerant	R290			
Application	MBP			
Voltage range	187-253V			
Starting torque	HST			
Approvals	UL			

Ambient/ machine room temperatures minimum /maximum

Ambient temperature range:	10 - 43°C / 50 - 110°F
Machine room temperature range:	10 - 48°C / 50 - 119°F
Compressor cooling:	fan 3m/s

Operation pressure range



Components (protector (f)+ holder (h)+ cover (b): pre assembled)			
a3	SC starter kit (550mm)	117-7808	
f / h	protector assy. (T1116)	117U8002	
b	plastic cover + clamp	117U1021	

Alternative comp.

a2	potential relay (RVA2AM3R A89)	117-7601
e	run capacitor (10µF, 6.3mm)	117-7121
c	start capacitor (80µF)	117U5373

Noise emission

Operation pressures:	pe:	-10°C / 14°F
	pc:	45°C / 113°F
Motor speed appr.:		3500rpm
Lw(A):		60dB(A)

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Optimization + standard conditions			R290, 230V/60Hz, CSCR, fan 3m/s, UL		

Evaporating pressure (saturation temperature)														
Condensing pressure (saturation temperature)														
Return gas temp.														
Liquid temp.														
Cooling capacity														
COP														
EER														
Power consumption														
Current consumption														
Ref. mass flow														
pe	pc	RGT	Tliq	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[kcal/Wh]	P1	I	m		
[°C]										[W]	[A]	[kg/h]		
-7	54	35	46	1554,0	5307	1337,4	2,25	7,70	1,94	689,5	3,12	17,73	ASHRAE MBP	
20	130	95	115											
[°F]														
-10	55	32	55	1223,3	4178	1052,7	1,87	6,40	1,61	652,9	2,95	15,47	cecomaf MBP	
14	131	90	131											
[°F]														
-10	45	20	45	1376,1	4700	1184,3	2,21	7,56	1,91	621,3	2,75	16,90	EN12900 MBP	
14	113	68	113											
[°F]														
-7	49	18	49	1466,5	5008	1262,1	2,19	7,49	1,89	668,8	3,00	19,04	ARI540 MBP	
20	120	65	120											
[°F]														
-10	45	32	45	1432,6	4892	1232,9	2,31	7,87	1,98	621,3	2,75	16,39	opt	
14	113	90	113											
[°F]														
-25	45	32	45	719,9	2459	619,6	1,57	5,35	1,35	459,8	2,07	8,12	opt	
-13	113	90	113											
[°F]														

Performance tables						R290, 230V/60Hz, CSCR, fan 3m/s, UL					
	pe		Cooling capacity			COP	EER		P1	I	m
	[°C]	[°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[kcal/Wh]	[W]	[A]	[kg/h]
[°C / °F]	-25	-13	719,9	2459	619,6	1,57	5,35	1,35	459,8	2,07	8,12
cond. pressure	-23	-10	789,5	2696	679,4	1,65	5,63	1,42	478,9	2,15	8,92
pc= 45/113	-15	5	1171,2	4000	1008,0	2,05	7,00	1,76	571,7	2,54	13,33
return gas temp.	-9	15	1463,3	4997	1259,3	2,34	7,98	2,01	626,3	2,77	16,75
RGT= 32/90	-4	25	1791,7	6119	1541,9	2,67	9,13	2,30	670,4	2,95	20,66
liquid temp	0	32	2046,0	6987	1760,8	2,95	10,09	2,54	692,8	3,05	23,73
Tliq= 45/113	7,2	45	2578,4	8806	2219,0	3,63	12,39	3,12	710,6	3,13	30,29
[°C / °F]	-25	-13	571,7	1952	492,0	1,24	4,23	1,07	461,5	2,09	7,12
cond. pressure	-23	-10	634,7	2168	546,2	1,31	4,49	1,13	483,0	2,18	7,91
pc= 55/131	-15	5	982,8	3356	845,8	1,66	5,68	1,43	591,1	2,68	12,36
return gas temp	-9	15	1251,7	4275	1077,2	1,90	6,48	1,63	659,5	2,98	15,84
RGT= 32/90	-4	25	1556,1	5314	1339,2	2,16	7,38	1,86	720,1	3,25	19,86
liquid temp	0	32	1793,2	6124	1543,3	2,37	8,10	2,04	755,9	3,41	23,03
Tliq= 55/131	7,2	45	2292,9	7831	1973,3	2,86	9,76	2,46	802,2	3,61	29,87