

Single Pack SCE15MNX 208-230V 60Hz CSIR

Single pack code number: **195B4671**

Position	Title	Code	Amount
1	Compressor SCE15MNX	104H8589	1
2	Starting capacitor (60µF 260V, 6.3mm)	117U5076	1
3	Bolt joint for one compressor M6 ø16mm	118-1917	1

Model

Designation	SCE15MNX	208-230V/60Hz 1~	Sales code:	104H8589
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Compressor design

Oil type	Polyolester	Refrigerant(s)	R290
Oil viscosity	32cSt	Displacement	15,28cm ³ / 0,93cu.in
Oil quantity	541cm ³ / 18,3fl.oz	Compressors on pallet	80
Refr. charge - tech. limit	450g / 15,9oz		
Free gas volume comp.	1460cm ³ / 49,4fl.oz		
Weight	14,2kg / 31,3lbs		
Motor protection	external		
Winding resistance main	3,1Ω (at 25°C)		
Winding resistance aux	15,2Ω (at 25°C)		
Max. winding temp.	125°C / 257°F		
Max. discharge temp.	130°C / 266°F		



General - Configurations with SCE15MNX

	Conf. 1
Motorconfiguration	CSIR
Power supply (nominal)	208-230V/60Hz
Number of phases	1
Voltage range	187-253V
Approvals	UL, KC, CB
Starting torque	HST
Note	Protector, relay 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	-/-
Start capacitor	60μF
LRA (locked rotor amps / 4s/ U(N))	23,6A
RLA (rated load amps / 1s/ U(N))	4,5A
Cut in current (U(N))	23,6A

Model

Designation

SCE15MNX

208-230V/60Hz 1~

Sales code:

104H8589

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

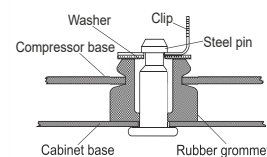


Baseplate	[mm]	[inch]
BI	204	8.03
Bw	150	5.9
øE	ø 9.7	ø 0.38
Large holes	[mm]	[inch]
LI	165	6.5
Lw	101.6	4
øL	ø 19	ø 0.75
Small holes	[mm]	[inch]
SI	170	6.7
Sw	70	2.76
øS	ø 16	ø 0.63
QI	127	5
Qw	127	5

Bolt joint



Snap-on



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

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Configuration

Motor configuration	CSIR
Power supply (nominal)	208-230V/60Hz 1~
Refrigerant	R290
Application	MBP
Voltage range	187-253V
Starting torque	HST
Approvals	UL
	KC
	CB

Electrical accessories / wiring diagram

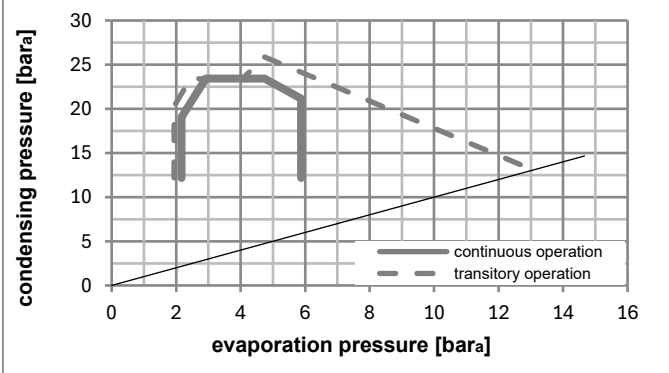
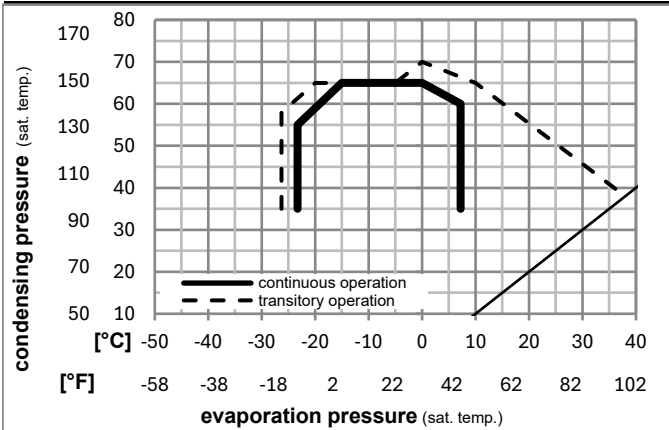


Ambient/ machine room temperatures minimum /maximum

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 (relay (a2)+ cover (b): pre-assembled)

a2	assy. relay + ext. protector (T1116)	117U7401
c	start capacitor (60μF, 6.3mm, 82kOhm)	117U5076
b	plastic cover + clamp	117U1021

Noise emission

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

Model

Designation **SCE15MNX** **208-230V/60Hz** Conf. 1 Sales code: **104H8589**

Optimization + standard conditions

R290, 230V/60Hz, CSIR, fan 3m/s, UL, KC, CB

		Evaporating pressure (saturation temperature)				Condensing pressure (saturation temperature)						Power consumption			
		Return gas temp.				Liquid temp.						Current consumption			Ref. mass flow
		Cooling capacity				COP		EER		P1	I	m			
		pe	pc	RGT	Tliq	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[kcal/Wh]	[W]	[A]	[kg/h]	
[°C]	-7	54	35	46	1534,9	5242	1321,0	2,03	6,94	1,75	755,3	4,19	17,51	ASHRAE MBP	
[°F]	20	130	95	115											
[°C]	-10	55	32	55	1209,1	4129	1040,6	1,70	5,79	1,46	713,2	4,04	15,29	cecomaf MBP	
[°F]	14	131	90	131											
[°C]	-10	45	20	45	1360,1	4645	1170,5	2,01	6,86	1,73	677,5	3,91	16,70	EN12900 MBP	
[°F]	14	113	68	113											
[°C]	-7	49	18	49	1448,7	4947	1246,7	1,98	6,76	1,70	731,9	4,11	18,81	ARI540 MBP	
[°F]	20	120	65	120											
[°C]	-10	45	32	45	1415,9	4836	1218,6	2,09	7,14	1,80	677,5	3,91	16,20	opt	
[°F]	14	113	90	113											
[°C]	-25	45	32	45	714,1	2439	614,5	1,45	4,97	1,25	491,1	3,32	8,05	opt	
[°F]	-13	113	90	113											

Performance tables

R290, 230V/60Hz, CSIR, fan 3m/s, UL, KC, CB

	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	714,1	2439	614,5	1,45	4,97	1,25	491,1	3,32	8,05
cond. pressure	-23	-10	782,7	2673	673,6	1,53	5,21	1,31	513,2	3,38	8,84
pc= 45/113	-15	5	1158,7	3957	997,2	1,87	6,38	1,61	620,4	3,72	13,18
return gas temp.	-9	15	1446,2	4939	1244,6	2,12	7,23	1,82	683,4	3,93	16,56
RGT= 32/90	-4	25	1769,6	6043	1522,9	2,41	8,23	2,07	734,0	4,10	20,41
liquid temp	0	32	2020,2	6899	1738,6	2,66	9,08	2,29	759,7	4,19	23,43
Tliq= 45/113	7,2	45	2546,0	8695	2191,1	3,26	11,15	2,81	780,1	4,28	29,91
[°C / °F]	-25	-13	567,4	1938	488,3	1,15	3,93	0,99	492,8	3,30	7,07
cond. pressure	-23	-10	629,8	2151	542,0	1,22	4,16	1,05	517,5	3,38	7,85
pc= 55/131	-15	5	972,8	3322	837,2	1,52	5,17	1,30	642,1	3,80	12,23
return gas temp	-9	15	1237,0	4225	1064,6	1,72	5,86	1,48	720,7	4,07	15,66
RGT= 32/90	-4	25	1536,1	5246	1322,0	1,94	6,64	1,67	790,4	4,31	19,60
liquid temp	0	32	1769,1	6042	1522,5	2,13	7,27	1,83	831,4	4,46	22,72
Tliq= 55/131	7,2	45	2260,8	7721	1945,7	2,56	8,73	2,20	884,6	4,65	29,46



SCE Compressors

(External Protector)



	S	C	R
ENGLISH	Black	Brown	Blue or grey
DEUTSCH	Schwarz	Braun	Blau od. grau
FRANÇAIS	Noir	Marron	Bleu ou gris
ESPAÑOL	Negro	Marrón	Azul o gris
ITALIANO	Nero	Marrone	Blu o grigio
NEDERLANDS	Zwart	Bruin	Blauw of grijs
РУССКИЙ	Чёрный	Коричневый	Синий или серый
中文	黑色	棕色	蓝色或灰色

	S	C	R
ENGLISH	Black	Brown	Blue or grey
DEUTSCH	Schwarz	Braun	Blau od. grau
FRANÇAIS	Noir	Marron	Bleu ou gris
ESPAÑOL	Negro	Marrón	Azul o gris
ITALIANO	Nero	Marrone	Blu o grigio
NEDERLANDS	Zwart	Bruin	Blauw of grijs
РУССКИЙ	Чёрный	Коричневый	Синий или серый
中文	黑色	棕色	蓝色或灰色



SCE Compressors (External Protector)



Service/Repair – R290



8545



Brazing on Suction Connectors (Direct Intake)



! max. 350°C/662°F !
at socket
 brazing solder: phosphor (LP7) or silver

8882

Refer to Product Bulletin:
Brazing on Suction Connectors
(SCE Compressors with Direct Suction Intake)

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