

## Single Pack SCE18MNX 208-230V 60Hz CSIR

Single pack code number: **195B4668**

Position	Title	Code	Amount
1	Compressor SCE18MNX	104H8889	1
2	Starting capacitor (60 $\mu$ F 260V, 6.3mm)	117U5076	1
3	Bolt joint for one compressor   M6   $\varnothing$ 16mm	118-1917	1

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## Model

Designation	<b>SCE18MNX</b>	208-230V/60Hz 1~	Sales code:	<b>104H8889</b>
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## Compressor design

Oil type	Polyolester	Refrigerant(s)	<b>R290</b>
Oil viscosity	32cSt	Displacement	17,69cm <sup>3</sup> / 1,08cu.in
Oil quantity	550cm <sup>3</sup> / 18,6fl.oz	Compressors on pallet	80
Refr. charge - tech. limit	450g / 15,9oz		
Free gas volume comp.	1460cm <sup>3</sup> / 49,4fl.oz		
Weight	14,2kg / 31,3lbs		
Motor protection	external		
Winding resistance main	2,6Ω (at 25°C)		
Winding resistance aux	21,2Ω (at 25°C)		
Max. winding temp.	125°C / 257°F		
Max. discharge temp.	135°C / 275°F		



## General - Configurations with SCE18MNX

	<b>Conf. 1</b>
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 SCE18MNX

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

## Electrical data - Configurations with SCE18MNX

	<b>Conf. 1</b>
Starting device type	relay
Run capacitor	-/-
Start capacitor	60μF
LRA (locked rotor amps / 4s/ U(N))	27,7A
RLA (rated load amps / 1s/ U(N))	5,2A
Cut in current (U(N))	27,7A

## Model

Designation

**SCE18MNX**

208-230V/60Hz 1~

Sales code:

**104H8889**

## 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



## 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

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Refrigerant	R290
Application	MBP
Voltage range	187-253V
Starting torque	HST
Approvals	UL
	KC
	CB

## Electrical accessories / wiring diagram

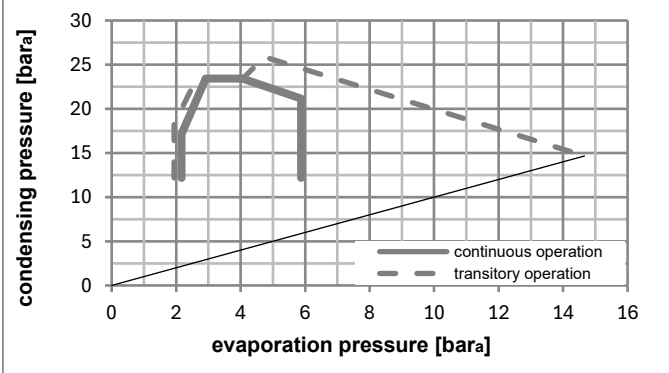
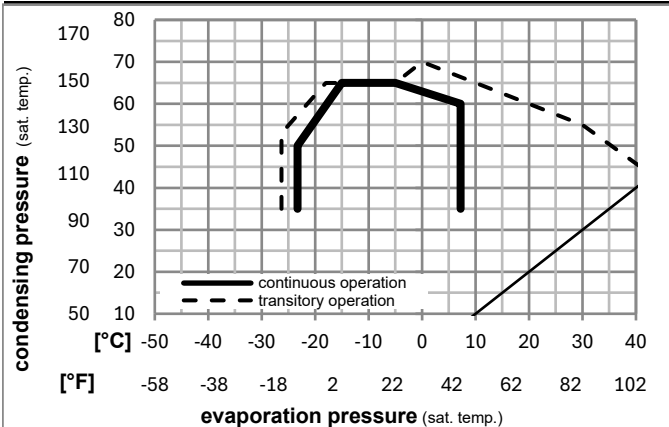


## Ambient/ machine room temperatures minimum /maximum

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 (T0715)	117U7412
c	start capacitor (60μF, 6.3mm, 82kOhm)	117U5076
b	plastic cover + clamp	117U1021

## Noise emission

Operation pressures:	pe: -25°C / -13°F
	pc: 45°C / 113°F
Motor speed appr.:	3500rpm
Lw(A):	60dB(A)

## Model

Designation **SCE18MNX** **208-230V/60Hz** Conf. 1 Sales code: **104H8889**

## Optimization + standard conditions

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

		Evaporating pressure (saturation temperature)				Cooling capacity			COP	EER	Power consumption				
		Condensing pressure (saturation temperature)		Return gas temp.	Liquid temp.	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[kcal/Wh]	P1	I	Ref. mass flow	
[°C]	[°F]	pe	pc	RGT	Tliq							[W]	[A]	[kg/h]	
-7	20	54	35	46	1796,4	6135	1546,0	1,96	6,71	1,69	914,3	5,07	20,49	ASHRAE MBP	
-10	14	55	32	55	1420,1	4850	1222,2	1,64	5,58	1,41	868,5	4,92	17,96	cecomaf MBP	
-10	14	45	20	45	1588,8	5426	1367,3	2,02	6,90	1,74	786,0	4,52	19,51	EN12900 MBP	
-7	20	49	18	49	1690,8	5775	1455,2	1,96	6,69	1,68	863,8	4,82	21,95	ARI540 MBP	
-10	14	45	32	45	1654,0	5649	1423,4	2,10	7,19	1,81	786,0	4,52	18,92	opt	
-25	-13	45	32	45	849,0	2900	730,7	1,46	4,99	1,26	581,0	3,89	9,58	opt	

## 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	849,0	2900	730,7	1,46	4,99	1,26	581,0	3,89	9,58
cond. pressure	-23	-10	928,2	3170	798,8	1,53	5,24	1,32	605,3	3,96	10,48
pc= 45/113	-15	5	1359,9	4644	1170,3	1,88	6,42	1,62	723,2	4,31	15,47
return gas temp.	-9	15	1688,6	5767	1453,2	2,13	7,28	1,83	792,3	4,54	19,33
RGT= 32/90	-4	25	2057,6	7027	1770,8	2,43	8,29	2,09	847,7	4,73	23,73
liquid temp	0	32	2343,4	8003	2016,7	2,68	9,14	2,30	875,4	4,83	27,18
Tliq= 45/113	7,2	45	2942,6	10050	2532,4	3,28	11,22	2,83	896,0	4,92	34,57
[°C / °F]	-25	-13	681,9	2329	586,8	1,10	3,77	0,95	617,5	4,10	8,49
cond. pressure	-23	-10	754,0	2575	648,9	1,17	3,99	1,00	645,7	4,19	9,40
pc= 55/131	-15	5	1149,3	3925	989,1	1,46	4,98	1,26	787,7	4,65	14,45
return gas temp	-9	15	1452,1	4959	1249,7	1,66	5,65	1,42	877,0	4,95	18,38
RGT= 32/90	-4	25	1794,0	6127	1543,9	1,88	6,41	1,62	955,8	5,23	22,89
liquid temp	0	32	2060,1	7036	1772,9	2,06	7,02	1,77	1001,9	5,39	26,46
Tliq= 55/131	7,2	45	2621,1	8952	2255,8	2,47	8,44	2,13	1060,8	5,60	34,15



# 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

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

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