

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

Single pack code number: **195B4437**

Position	Title	Code	Amount
1	Compressor SCE18MNX	104H8879	1
2	SC starting device (550mm)	117-7807	1
3	Bolt joint for one compressor   M6   ø16mm	118-1917	1

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## Model

Designation	<b>SCE18MNX</b>	208-230V/60Hz 1~	Sales code:	<b>104H8879</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	2,58Ω (at 25°C)		
Winding resistance aux	9,77Ω (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	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 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	10μF
Start capacitor	80μF
LRA (locked rotor amps / 4s/ U(N))	26,12A
RLA (rated load amps / 1s/ U(N))	4,54A
Cut in current (U(N))	26,12A

## Model

Designation

**SCE18MNX**

208-230V/60Hz 1~

Sales code:

**104H8879**

## 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

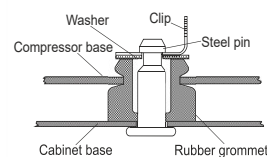
  

Small holes	[mm]	[inch]
SI	170	6.7
Sw	70	2.76
øS	ø 16	ø 0.63
QI	127	5
Qw	127	5

## 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

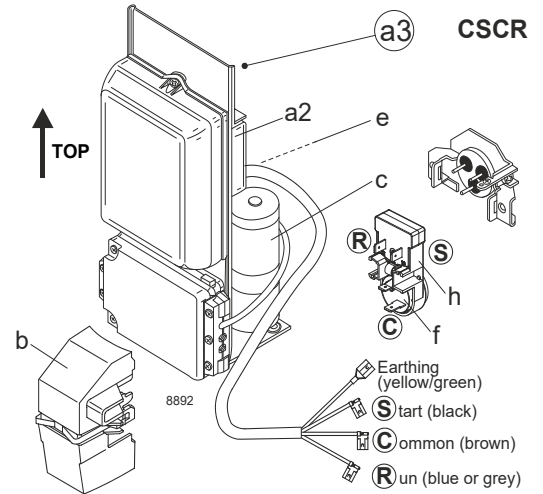
## Model

Designation	<b>SCE18MNX</b>	<b>208-230V/60Hz</b>	<b>Conf. 1</b>	Sales code:	<b>104H8879</b>
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## Configuration

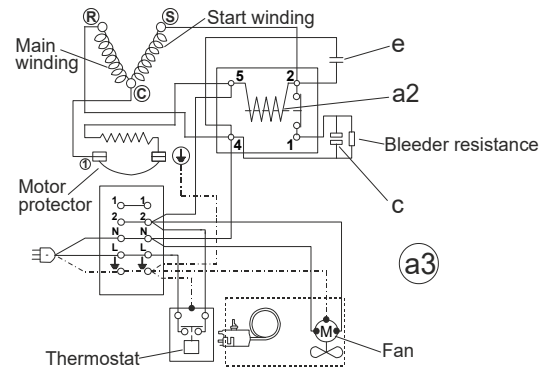
Motor configuration	CSCR
Power supply (nominal)	208-230V/60Hz 1~
Refrigerant	R290
Application	MBP
Voltage range	187-253V
Starting torque	HST
Approvals	UL

## Electrical accessories / wiring diagram

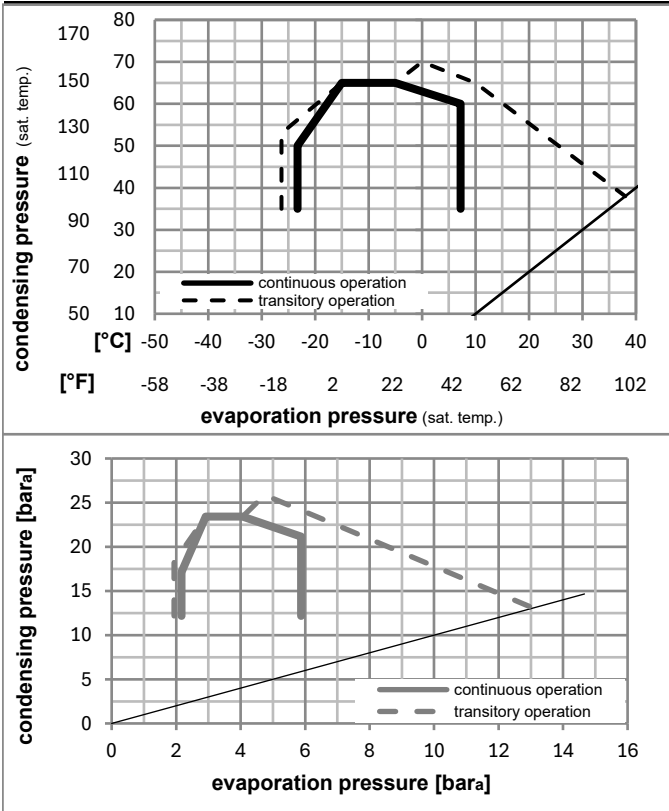


## Ambient/ machine room temperatures minimum /maximum

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 (protector (f)+ holder (h)+ cover (b): pre assembled)

a3	SC starter kit (550mm)	117-7807
f / h	motor protector assy. (T0715)	117U8003
b	plastic cover + clamp	117U1021

## Alternative comp.

a2	potential relay (RVA 2GR134)	117-7445
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):	61dB(A)

### Model

Designation **SCE18MNX** **208-230V/60Hz** Conf. 1 Sales code: **104H8879**

### Optimization + standard conditions

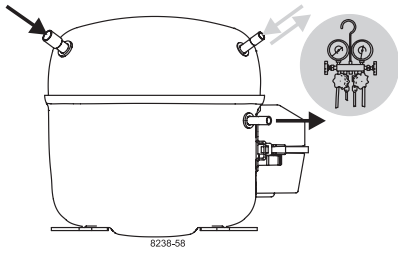
R290, 230V/60Hz, CSCR, fan 3m/s, UL

		Evaporating pressure (saturation temperature)				Cooling capacity			COP	EER	Power consumption				
		Condensing pressure (saturation temperature)				Return gas temp.					Current consumption				
		Liquid temp.				Cooling capacity					Ref. mass flow				
		pe	pc	RGT	Tliq	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[kcal/Wh]	P1	I	m	
[°C]	[°F]	[°C]	[°F]	[°C]	[°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[kcal/Wh]	[W]	[A]	[kg/h]	
[°C]	-7	54	35	46	1803,7	6160	1552,3	2,21	7,53	1,90	817,6	3,97	20,58	ASHRAE MBP	
[°F]	20	130	95	115											
[°C]	-10	55	32	55	1425,3	4868	1226,6	1,84	6,27	1,58	776,1	3,81	18,03	cecomaf MBP	
[°F]	14	131	90	131											
[°C]	-10	45	20	45	1594,3	5445	1372,1	2,18	7,46	1,88	729,8	3,57	19,58	EN12900 MBP	
[°F]	14	113	68	113											
[°C]	-7	49	18	49	1697,4	5797	1460,8	2,15	7,36	1,85	788,0	3,82	22,04	ARI540 MBP	
[°F]	20	120	65	120											
[°C]	-10	45	32	45	1659,8	5668	1428,4	2,27	7,77	1,96	729,8	3,57	18,99	opt	
[°F]	14	113	90	113											
[°C]	-25	45	32	45	850,3	2904	731,8	1,55	5,30	1,34	547,5	2,83	9,59	opt	
[°F]	-13	113	90	113											

### Performance tables

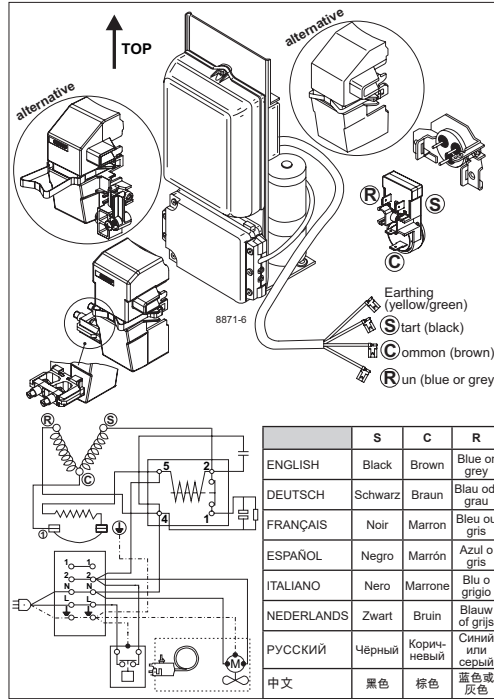
R290, 230V/60Hz, CSCR, fan 3m/s, UL

	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	850,3	2904	731,8	1,55	5,30	1,34	547,5	2,83	9,59
cond. pressure	-23	-10	929,8	3176	800,2	1,63	5,58	1,41	568,9	2,92	10,50
pc= 45/113	-15	5	1363,9	4658	1173,8	2,02	6,92	1,74	673,6	3,34	15,52
return gas temp.	-9	15	1694,5	5787	1458,3	2,30	7,87	1,98	735,5	3,59	19,40
RGT= 32/90	-4	25	2065,6	7055	1777,7	2,63	8,98	2,26	785,5	3,78	23,82
liquid temp	0	32	2352,9	8035	2024,9	2,90	9,91	2,50	810,7	3,86	27,29
Tliq= 45/113	7,2	45	2954,5	10090	2542,7	3,56	12,16	3,06	830,0	3,91	34,71
[°C / °F]	-25	-13	682,7	2332	587,6	1,23	4,19	1,06	556,5	2,91	8,50
cond. pressure	-23	-10	755,2	2579	649,9	1,30	4,44	1,12	580,9	3,01	9,42
pc= 55/131	-15	5	1152,5	3936	991,9	1,63	5,58	1,41	705,0	3,52	14,49
return gas temp	-9	15	1457,5	4978	1254,3	1,86	6,35	1,60	783,6	3,84	18,45
RGT= 32/90	-4	25	1801,8	6154	1550,7	2,11	7,21	1,82	853,4	4,11	22,99
liquid temp	0	32	2069,7	7068	1781,2	2,31	7,90	1,99	894,3	4,26	26,58
Tliq= 55/131	7,2	45	2634,2	8996	2267,0	2,78	9,50	2,39	946,7	4,44	34,32



# 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

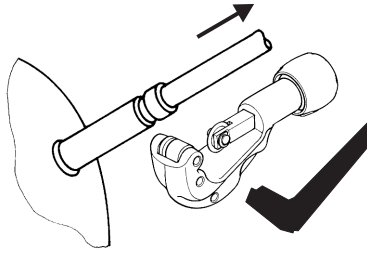
	S	C	R
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РУССКИЙ	Чёрный	Коричневый	Синий или серый
中文	黑色	棕色	蓝色或灰色



# 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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