

## Model

Designation	<b>SC18CLX.2</b>	220-240V/50Hz 1~	Sales code:	<b>104L2191</b>
-------------	------------------	------------------	-------------	-----------------

## Compressor design

Oil type	Polyolester	Refrigerant(s)	<b>R404A, R507</b>
Oil viscosity	32cST	Displacement	17,69cm <sup>3</sup> / 1,08cu.in
Oil quantity	600cm <sup>3</sup> / 20,3fl.oz	Compressors on pallet	80
Refr. charge - tech. limit	1300g / 45,9oz		
Free gas volume comp.	1460cm <sup>3</sup> / 49,4fl.oz		
Weight	13,8kg / 30,4lbs		
Motor protection	1# internal		
Winding resistance main	3,3Ω (at 25°C)		
Winding resistance aux	16,5Ω (at 25°C)		
Max. winding temp.	125°C / 257°F		
Max. discharge temp.	130°C / 266°F		



## General - Configurations with SC18CLX.2

	<b>Conf. 1</b>
Motorconfiguration	CSIR
Power supply (nominal)	208-240V/50Hz
Number of phases	1
Voltage range	198-254V
Approvals	VDE, CCC, EAC
Starting torque	HST
Note	Compressor with noise optimization kit.

## Applications with SC18CLX.2

	<b>Conf. 1</b>
Refrigerant	R404A
Application	LBP
System cooling	fan 3m/s
Hot gas defrost	OK
Long interval pull down	OK

## Electrical data - Configurations with SC18CLX.2

	<b>Conf. 1</b>
Starting device type	relay
Run capacitor	-/-
Start capacitor	125μF
LRA (locked rotor amps / 4s)	23,5A
RLA (rated load amps / 1s)	4,5A
Cut in current	23,5A
IP class	21



## Model

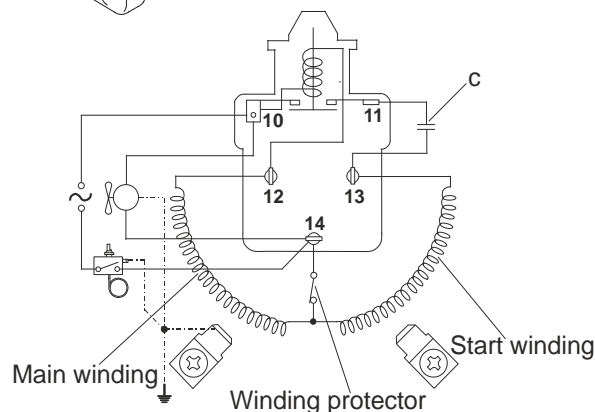
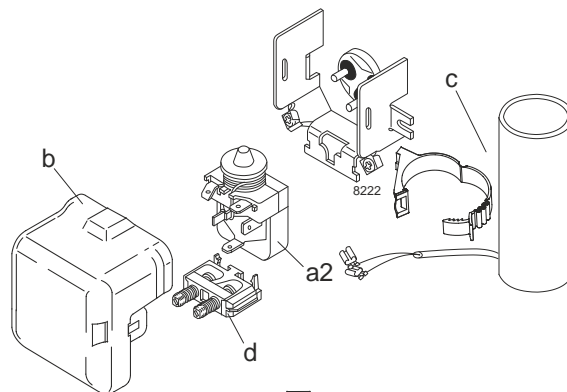
Designation **SC18CLX.2** 208-240V/50Hz Conf. 1 Sales code: **104L2191**

## Configuration

Motorconfiguration CSIR  
 Power supply (nominal) 208-240V/50Hz 1~  
 Refrigerant R404A  
 Application LBP  
 Voltage range 198-254V  
 Starting torque HST  
 Approvals VDE  
 CCC  
 EAC

## Electrical accessories / wiring diagram

CSIR

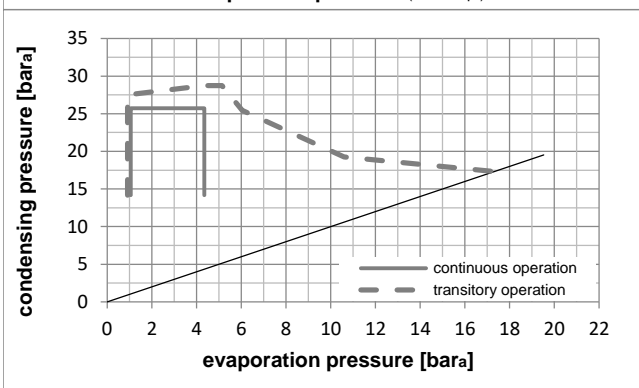
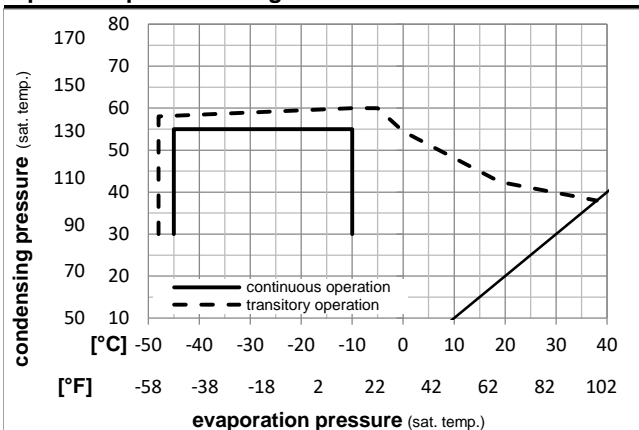


## Ambient temperatures / system cooling

Ambient temperature min.: 10°C / 50°F  
 Ambient temperature max.: 38°C / 101°F

System cooling (n/a: outside limits)			
T ambient	LBP	MBP	HBP
32°C / 90°F	fan 3m/s	n/a	n/a
38°C / 100°F	fan 3m/s	n/a	n/a
43°C / 110°F	n/a	n/a	n/a

## Operation pressure range



## Components

- a2 relay 117U6013
- c start capacitor (125µF) 117U5012
- d cord relief 103N1004
- b plastic cover 103N2009

## Model

Designation **SC18CLX.2 208-240V/50Hz** Conf. 1 Sales code: **104L2191**

## Optimization + standard conditions

R404A, 220V/50Hz, CSIR, fan 3m/s, VDE, CCC, EAC

		Evaporating pressure (saturation temperature)				Condensing pressure (saturation temperature)					Power consumption				
											Current consumption				
											P1	I	Ref. mass flow		
													m		
		pe	pc	RGT	Tliq	[W]	[Btu/h]	[kcal/h]	COP	EER	[W]	[A]	[kg/h]		
[°C]	[°F]														
-23,3	-10	54,4	32,2	32,2	854,8	2919	735,7	1,24	4,23	1,07	690,0	4,29	19,92	ASHRAE LBP	
-25	-13	55	32	55	576,8	1970	496,4	0,88	3,00	0,76	656,4	4,18	18,03	cecomaf LBP	
-35	-31	40	20	40	438,0	1496	376,9	0,89	3,03	0,76	493,9	3,54	11,90	EN12900 LBP	
-23,3	-10	48,9	4,44	48,9	638,2	2179	549,2	0,94	3,20	0,81	680,7	4,25	22,59	ARI540 LBP	
-23,3	-10	40,6	32,2	32,2	960,4	3280	826,5	1,47	5,03	1,27	651,6	4,17	22,38	AHAM LBP	
-35	-31	45	32	45	397,5	1358	342,1	0,81	2,76	0,70	491,4	3,54	10,63	opt	

## Performance tables

R404A, 220V/50Hz, CSIR, fan 3m/s, VDE, CCC, EAC

	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]	-45	-49	108,1	369	93,1	0,27	0,93	0,23	397,2	3,01	2,87
cond. pressure	-35	-31	397,5	1358	342,1	0,81	2,76	0,70	491,4	3,54	10,63
pc= 45/113	-30	-22	558,6	1908	480,7	1,00	3,41	0,86	559,6	3,83	14,99
return gas temp.	-25	-13	738,1	2521	635,2	1,16	3,94	0,99	639,0	4,12	19,91
RGT= 32/90	-20	-4	941,7	3216	810,4	1,29	4,42	1,11	727,5	4,42	25,55
liquid temp	-15	5	1174,9	4012	1011,1	1,43	4,88	1,23	823,0	4,73	32,09
Tliq= 45/113	-10	14	1443,4	4929	1242,2	1,56	5,34	1,35	923,4	5,06	39,75
[°C / °F]	-45	-49	11,6	40	10,0	0,04	0,12	0,03	325,0	2,89	0,36
cond. pressure	-35	-31	280,6	958	241,5	0,60	2,03	0,51	471,1	3,51	8,68
pc= 55/131	-30	-22	422,5	1443	363,6	0,75	2,58	0,65	559,9	3,84	13,13
return gas temp	-25	-13	576,8	1970	496,4	0,88	3,00	0,76	656,4	4,18	18,03
RGT= 32/90	-20	-4	749,1	2558	644,7	0,99	3,37	0,85	758,4	4,52	23,57
liquid temp	-15	5	945,2	3228	813,4	1,09	3,74	0,94	864,0	4,88	29,97
Tliq= 55/131	-10	14	1170,4	3997	1007,3	1,21	4,12	1,04	970,8	5,24	37,47