

Model

Designation	SC10MLX	220-240V/50Hz 1~ 208-230V/60Hz 1~	Sales code:	104L2506
-------------	----------------	-----------------------------------	-------------	-----------------

Compressor design

Oil type	Polyolester	Refrigerant(s)	R404A, R452A, R507
Oil viscosity	32cST	Displacement	10,29cm ³ / 0,63cu.in
Oil quantity	550cm ³ / 18,6fl.oz	Compressors on pallet	80
Refr. charge - tech. limit	1300g / 45,9oz		
Free gas volume comp.	1410cm ³ / 47,7fl.oz		
Weight	13kg / 28,7lbs		
Motor protection	1# internal		
Winding resistance main	4,4Ω (at 25°C)		
Winding resistance aux	14Ω (at 25°C)		
Max. winding temp.	125°C / 257°F		
Max. discharge temp.	130°C / 266°F		



General - Configurations with SC10MLX

	Conf. 1	Conf. 2	Conf. 3	Conf. 4	Conf. 5
Motorconfiguration	CSIR	CSIR	CSIR	CSIR	CSIR
Power supply (nominal)	220-240V/50Hz	208-230V/60Hz	220-240V/50Hz	220-240V/50Hz	220-240V/50Hz
Number of phases	1	1	1	1	1
Voltage range	187-254V	187-254V	187-254V	187-254V	187-254V
Approvals	VDE, UL, CCC, KC, EAC				
Starting torque	HST	HST	HST	HST	HST
Note	- / -	- / -	- / -	- / -	- / -

Applications with SC10MLX

	Conf. 1	Conf. 2	Conf. 3	Conf. 4	Conf. 5
Refrigerant	R404A	R404A	R452A	R448A	R449A
Application	MBP	MBP	MBP	MBP	MBP
System cooling	fan 3m/s				
Hot gas defrost	OK	OK	OK	OK	OK
Long interval pull down	OK	OK	OK	OK	OK

Electrical data - Configurations with SC10MLX

	Conf. 1	Conf. 2	Conf. 3	Conf. 4	Conf. 5
Starting device type	relay	relay	relay	relay	relay
Run capacitor	- / -	- / -	- / -	- / -	- / -
Start capacitor	80μF	80μF	80μF	80μF	80μF
LRA (locked rotor amps / 4s)	19A	18,3A	19A	19A	19A
RLA (rated load amps / 1s)	3,9A	3,52A	3,9A	3,9A	3,9A
Cut in current	19A	18,3A	19A	19A	19A

Model

Designation

SC10MLX

220-240V/50Hz 1~ 208-230V/60Hz 1~

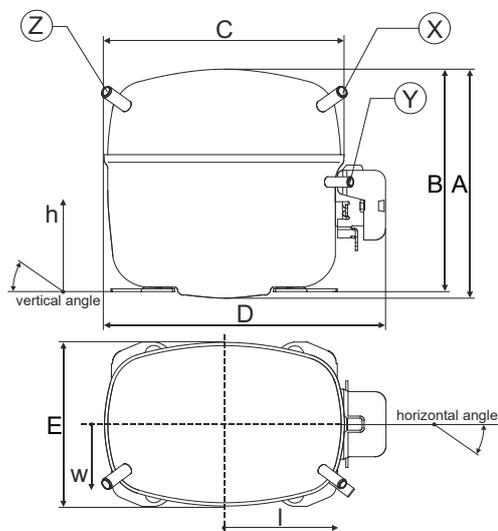
Sales code:

104L2506

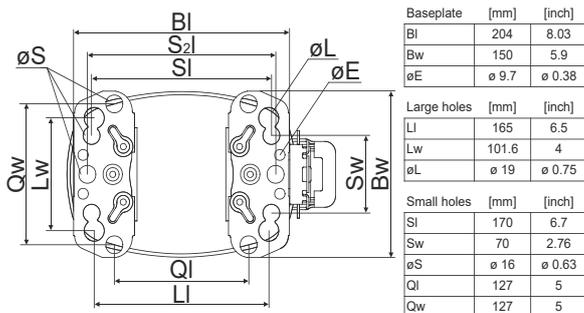
Compressor dimensions

Housing	A Height	209mm / 8,23in
	B Height	203mm / 7,99in
	C Length shell	218mm / 8,58in
	D Length w. cover	255mm / 10,04in
	E Width	151mm / 5,94in

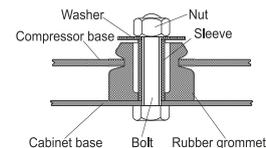
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 8,11-8,29	øi 6,41-6,59	øi 6,41-6,59
(i:inside, o:outside) [in]	øi 0,32-0,33	øi 0,25-0,26	øi 0,25-0,26
Material	copper	copper	copper
Horizontal angle ±2°	37°	37°	143°
Vertical angle ±2°	30°	0°	150°
Position l/h/w [mm]	107/183/55	115/100/63	-107/183/55
[in]	4,2/7,2/2,2	4,5/3,9/2,5	-4,2/7,2/2,2
Straight tube l. [mm]	12	12	12
[in]	0,5	0,5	0,5



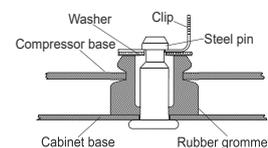
Compressor fixation



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

LRA value on compressor label and datasheet may differ due to different test conditions for UL approval.

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

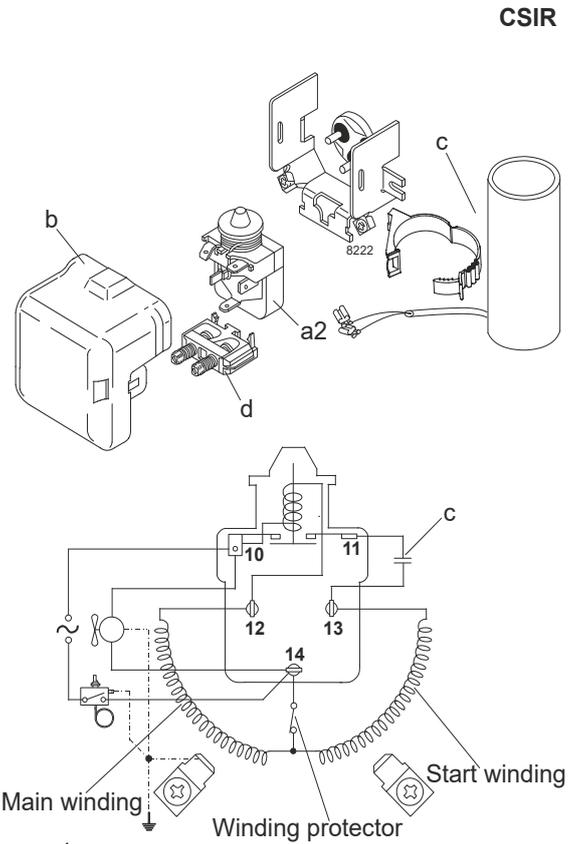
Model

Designation	SC10MLX	220-240V/50Hz	Conf. 1	Sales code:	104L2506
-------------	----------------	----------------------	----------------	-------------	-----------------

Configuration

Motorconfiguration	CSIR
Power supply (nominal)	220-240V/50Hz 1~
Refrigerant	R404A
Application	MBP
Voltage range	187-254V
Starting torque	HST
Approvals	VDE UL CCC KC EAC

Electrical accessories / wiring diagram

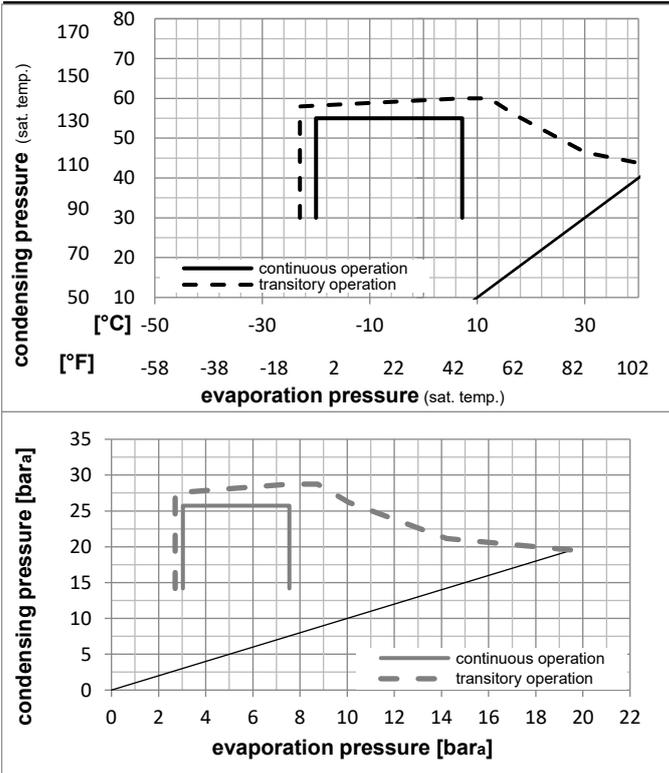


Ambient/ machine room temperatures minimum /maximum

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 Limits

Operation pressure range



Components

a2	relay	117U6011
c	start capacitor (80μF)	117U5017
d	cord relief	103N1004
b	plastic cover	103N2008

Model

Designation **SC10MLX** **220-240V/50Hz** Conf. 1 Sales code: **104L2506**

Optimization + standard conditions

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

	Evaporating pressure (saturation temperature)				Cooling capacity			COP	EER			Power consumption			ASHRAE MBP
	pe	pc	RGT	Tliq	[W]	[Btu/h]	[kcal/h]		[W/W]	[Btu/Wh]	[kcal/Wh]	P1	I	Ref. mass flow	
[°C]	-7	54	35	46	902,9	3084	777,0	1,54	5,25	1,32	587,7	3,91	24,84		
[°F]	20	130	95	115											
	-10	55	32	55	668,3	2282	575,1	1,20	4,08	1,03	559,1	3,79	21,39	cecomaf MBP	
	-10	45	20	45	805,8	2752	693,4	1,55	5,31	1,34	518,5	3,65	24,27	EN12900 MBP	
	-10	49	18	49	835,8	2854	719,3	1,49	5,08	1,28	561,7	3,81	27,31	ARI540 MBP	
	-10	45	32	45	855,1	2920	735,9	1,65	5,63	1,42	518,5	3,65	23,55	opt	
	-25	45	32	45	426,9	1458	367,4	1,06	3,62	0,91	402,9	3,28	11,51	opt	

Performance tables

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

	pe		Cooling capacity			COP	EER		P1	I	m
	[°C]	[°F]	[W]	[Btu/h]	[kcal/h]		[W/W]	[Btu/Wh]			
[°C / °F]	-20	-4	545,5	1863	469,5	1,23	4,21	1,06	442,1	3,39	14,80
cond. pressure	-15	5	687,4	2348	591,6	1,43	4,89	1,23	480,5	3,51	18,78
pc= 45/113	-10	14	855,1	2920	735,9	1,65	5,63	1,42	518,5	3,65	23,55
return gas temp.	-7	20	981,1	3351	844,4	1,81	6,17	1,55	543,4	3,75	27,18
RGT= 32/90	-5	23	1051,1	3590	904,5	1,89	6,45	1,63	556,3	3,80	29,22
liquid temp	0	32	1277,6	4363	1099,6	2,15	7,34	1,85	594,3	3,96	35,92
Tliq= 45/113	7,2	45	1662,8	5679	1431,0	2,56	8,73	2,20	650,2	4,23	47,68
[°C / °F]	-20	-4	413,8	1413	356,1	0,90	3,06	0,77	462,0	3,45	13,02
cond. pressure	-15	5	531,5	1815	457,4	1,04	3,55	0,89	511,3	3,61	16,86
pc= 55/131	-10	14	668,3	2282	575,1	1,20	4,08	1,03	559,1	3,79	21,39
return gas temp	-7	20	770,2	2630	662,8	1,31	4,46	1,12	589,9	3,91	24,83
RGT= 32/90	-5	23	826,6	2823	711,3	1,36	4,66	1,17	605,6	3,98	26,75
liquid temp	0	32	1008,8	3445	868,2	1,55	5,29	1,33	651,2	4,18	33,08
Tliq= 55/131	7,2	45	1318,2	4502	1134,4	1,84	6,29	1,58	715,9	4,50	44,24