

Model

Designation	KLF7.7CNQX	200-240V/50Hz 1~	Sales code:	106H2809
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Compressor design

Oil type	Polyolester	Refrigerant(s)	R290
Oil viscosity	19,2cSt	Displacement	7,7cm ³ / 0,47cu.in
Oil quantity	240cm ³ / 8,1fl.oz	Compressors on pallet	100
Refr. charge - tech. limit	200g / 7,1oz		
Free gas volume comp.	1575cm ³ / 53,3fl.oz		
Weight	9,12kg / 20,1lbs		
Motor protection	external		
Winding resistance main	8,4Ω (at 25°C)		
Winding resistance aux	17,4Ω (at 25°C)		
Max. winding temp.	125°C / 257°F		
Max. discharge temp.	130°C / 266°F		



General - Configurations with KLF7.7CNQX

Conf. 1

Motor configuration	CSIR
Power supply (nominal)	220-240V/50Hz
Number of phases	1
Voltage range	187-254V
Approvals	VDE
Starting torque	HST
Note	- / -

Applications with KLF7.7CNQX

Conf. 1

Refrigerant	R290
Application	LBP+MBP
System cooling	fan 3m/s
Hot gas defrost	OK
Long interval pull down	OK

Electrical data - Configurations with KLF7.7CNQX

Conf. 1

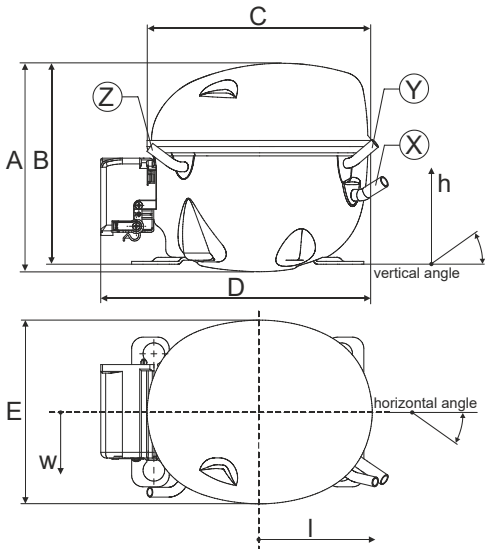
Starting device type	relay
Run capacitor	-/-
Start capacitor	80μF
LRA (locked rotor amps / 4s/ U(N))	14,3A
RLA (rated load amps / 1s/ U(N))	2,3A
Cut in current (U(N))	

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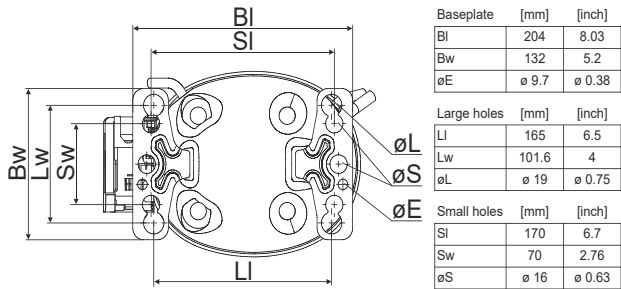
Compressor dimensions

Housing	A Height	182mm / 7,17in
	B Height	175mm / 6,89in
	C Length shell	198mm / 7,8in
	D Length w. cover	238mm / 9,37in
	E Width	160mm / 6,3in

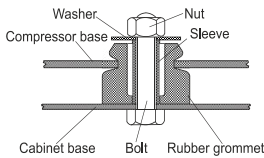
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 8,11-8,29	øi 6,11-6,29	øi 6,11-6,29
(i:inside, o:outside) [in]	øi 0,32-0,33	øi 0,24-0,25	øi 0,24-0,25
Material	copper	copper	copper
Horizontal angle ±2°	35°	13°	0°
Vertical angle ±2°	30°	40°	145°
Position l/h/w [mm]	119/73/59	117/107/66	-88/101/71
[in]	4,7/2,9/2,3	4,6/4,2/2,6	-3,5/4/2,8
Straight tube l.	[mm]	14	14
	[in]	0,5	0,5



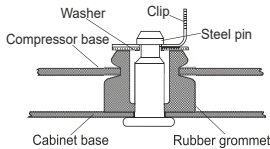
Compressor fixation



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

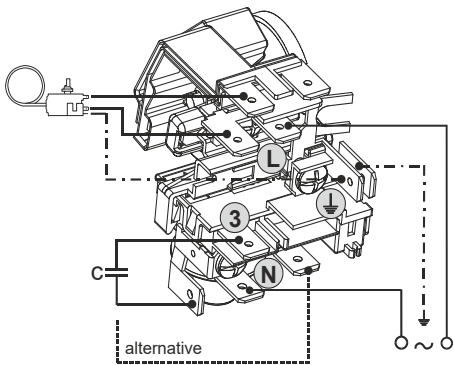
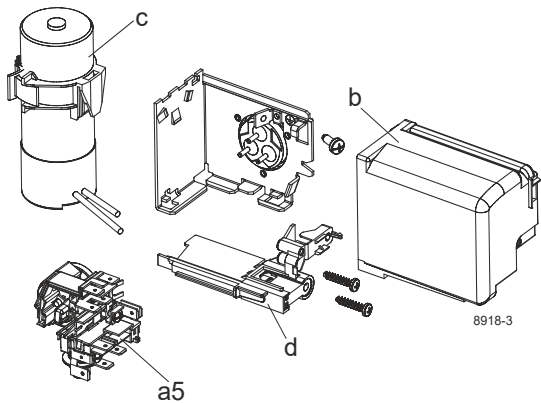
Provision for PE Grounding is located at the PE Stamp on the compressor

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Configuration		Electrical accessories / wiring diagram		
Motor configuration	CSIR	CSIR		
Power supply (nominal)	220-240V/50Hz 1~			
Refrigerant	R290			
Application	LBP+MBP			
Voltage range	187-254V			
Starting torque	HST			
Approvals	VDE			

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

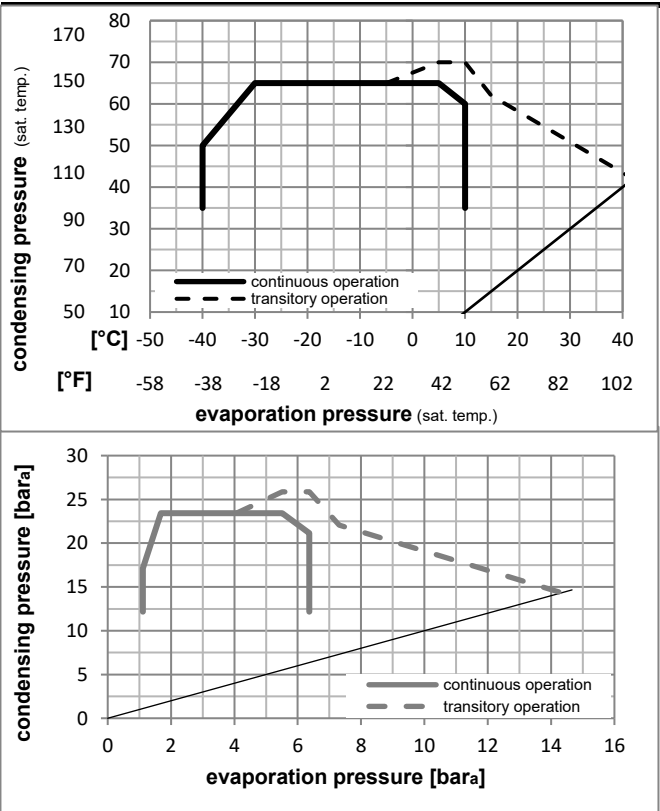


Components		
a5	current relay (T1247/L6)	117U7084
c	start capacitor (80μF, 6.3mm)	117U5003
b, d	cover + clamp + screws(5VA-compl.)	103N0600

Alternative components

b, d	100x cover + clamp + screws(5VA)	103N2060
b, d	cover + clamp + screws(5VA) in bag	103N1060

Operation pressure range



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Optimization + standard conditions

R290, 220V/50Hz, CSIR, fan 3m/s, VDE

Evaporating pressure (saturation temperature)				Condensing pressure (saturation temperature)				Power consumption										
Return gas temp.				Liquid temp.				Current consumption										
Cooling capacity				COP			EER			P1			I			Ref. mass flow		
pe	pc	RGT	Tliq	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[kcal/Wh]	[W]		[A]			[kg/h]			
[°C]	-23	54	32	32	394,5	1347	339,5	1,58	5,38	1,36	250,3	1,73	4,00	ASHRAE LBP				
[°F]	-10	130	90	90														
[°C]	-25	55	32	55	294,8	1007	253,7	1,22	4,15	1,05	242,3	1,71	3,67	cecomaf LBP				
[°F]	-13	131	90	131														
[°C]	-35	40	20	40	217,7	744	187,4	1,21	4,14	1,04	179,4	1,59	2,49	EN12900 LBP				
[°F]	-31	104	68	104														
[°C]	-7	54	35	46	706,1	2411	607,7	2,05	7,02	1,77	343,7	2,00	8,05	ASHRAE MBP				
[°F]	20	130	95	115														
[°C]	-10	55	32	55	561,3	1917	483,1	1,72	5,87	1,48	326,8	1,94	7,10	cecomaf MBP				
[°F]	14	131	90	131														
[°C]	-10	45	20	45	617,7	2110	531,6	2,07	7,08	1,78	297,8	1,85	7,58	EN12900 MBP				
[°F]	14	113	68	113														

Performance tables

R290, 220V/50Hz, CSIR, fan 3m/s, VDE

	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]	-40	-40	151,8	518	130,6	0,91	3,12	0,79	166,3	1,59	1,70
cond. pressure	-35	-31	206,5	705	177,7	1,12	3,83	0,96	184,2	1,60	2,31
pc= 45/113	-25	-13	345,6	1180	297,4	1,51	5,17	1,30	228,4	1,67	3,90
return gas temp.	-15	5	530,8	1813	456,8	1,92	6,57	1,66	275,8	1,79	6,04
RGT= 32/90	-5	23	769,8	2629	662,5	2,43	8,29	2,09	317,1	1,91	8,86
liquid temp	0	32	911,9	3114	784,8	2,74	9,37	2,36	332,5	1,96	10,58
Tliq= 45/113	10	50	1246,1	4256	1072,4	3,59	12,27	3,09	346,9	2,03	14,72
[°C / °F]	-40	-40	119,8	409	103,1	0,67	2,29	0,58	178,6	1,60	1,48
cond. pressure	-35	-31	169,6	579	145,9	0,87	2,96	0,75	195,6	1,61	2,10
pc= 55/131	-25	-13	294,8	1007	253,7	1,22	4,15	1,05	242,3	1,71	3,67
return gas temp	-15	5	460,7	1573	396,5	1,54	5,27	1,33	298,3	1,86	5,79
RGT= 32/90	-5	23	675,0	2305	580,9	1,91	6,51	1,64	354,2	2,03	8,60
liquid temp	0	32	802,8	2742	690,9	2,12	7,23	1,82	379,1	2,12	10,31
Tliq= 55/131	10	50	1104,3	3771	950,4	2,65	9,04	2,28	417,2	2,26	14,48