

Model

Designation	KLF4.8CND	220-240V/50Hz 1~	Sales code:	106H2518
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Compressor design

Oil type	Polyolester	Refrigerant(s)	R290
Oil viscosity	10,4cSt	Displacement	4,8cm ³ / 0,29cu.in
Oil quantity	170cm ³ / 5,7fl.oz	Compressors on pallet	100
Refr. charge - tech. limit	200g / 7,1oz		
Free gas volume comp.	1615cm ³ / 54,6fl.oz		
Weight	8,66kg / 19,1lbs		
Motor protection	external		
Winding resistance main	13,1Ω (at 25°C)		
Winding resistance aux	25,3Ω (at 25°C)		
Max. winding temp.	125°C / 257°F		
Max. discharge temp.	130°C / 266°F		



General - Configurations with KLF4.8CND

Conf. 1

Motor configuration	CSIR
Power supply (nominal)	220-240V/50Hz
Number of phases	1
Voltage range	198-254V
Approvals	VDE, CCC
Starting torque	HST
Note	Electrical equipment is included and pre-assembled to compressor.

Applications with KLF4.8CND

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 KLF4.8CND

Conf. 1

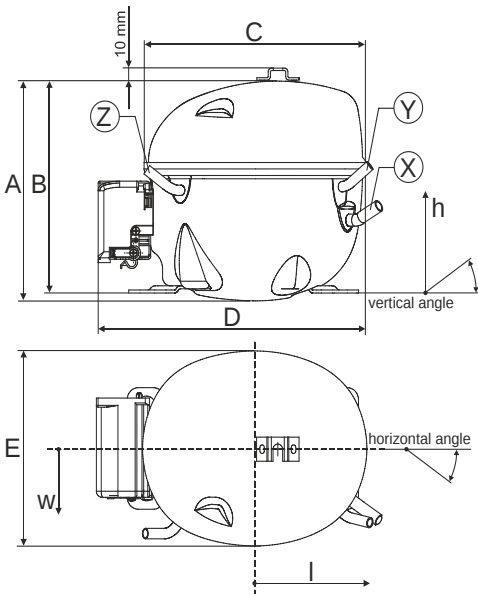
Starting device type	relay
Run capacitor	-/-
Start capacitor	80μF
LRA (locked rotor amps / 4s/ U(N))	10,2A
RLA (rated load amps / 1s/ U(N))	1,4A
Cut in current (U(N))	10,2A

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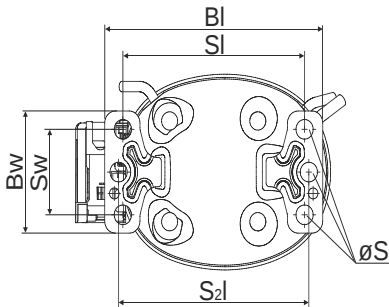
Compressor dimensions

Housing	A Height	174mm / 6,85in
	B Height	167mm / 6,57in
	C Length shell	194mm / 7,64in
	D Length w. cover	235,1mm / 9,26in
	E Width	151mm / 5,94in

Connectors	Suction	Discharge	Process
	X	Y	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	114/107/63	-87/101/71
[in]	4,7/2,9/2,3	4,5/4,2/2,5	-3,4/4/2,8
Straight tube l. [mm]	14	14	14
[in]	0,5	0,5	0,5

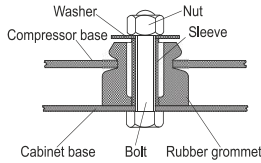


Compressor fixation

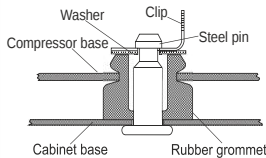


Baseplate	[mm]	[inch]
BI	204	8.03
BW	100	3.94
Small holes	[mm]	[inch]
SI	170	6.7
SW	70	2.76
S2I	178	7
ØS	ø 16	ø 0.63

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	
Snap-on ø7,3 ø16mm	118-1947	118-1919

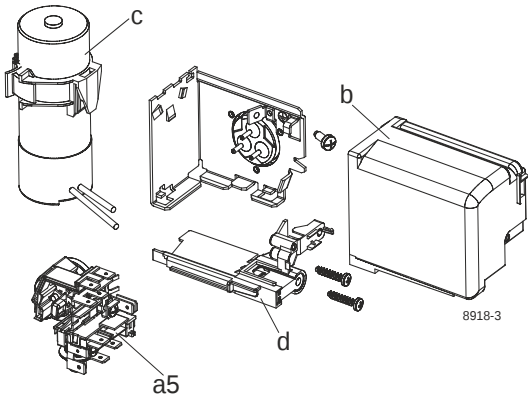
Application notes

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

Compressor with low height version.

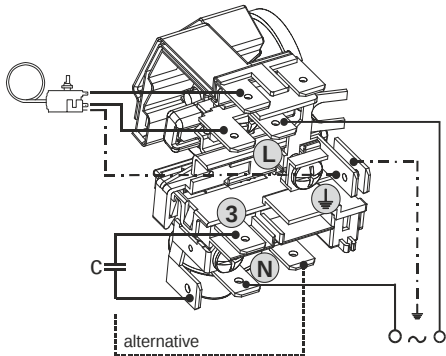
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Configuration		Electrical accessories / wiring diagram			
Motor configuration	CSIR	CSIR			
Power supply (nominal)	220-240V/50Hz 1~				
Refrigerant	R290				
Application	LBP+MBP				
Voltage range	198-254V				
Starting torque	HST				
Approvals	VDE				
	CCC				

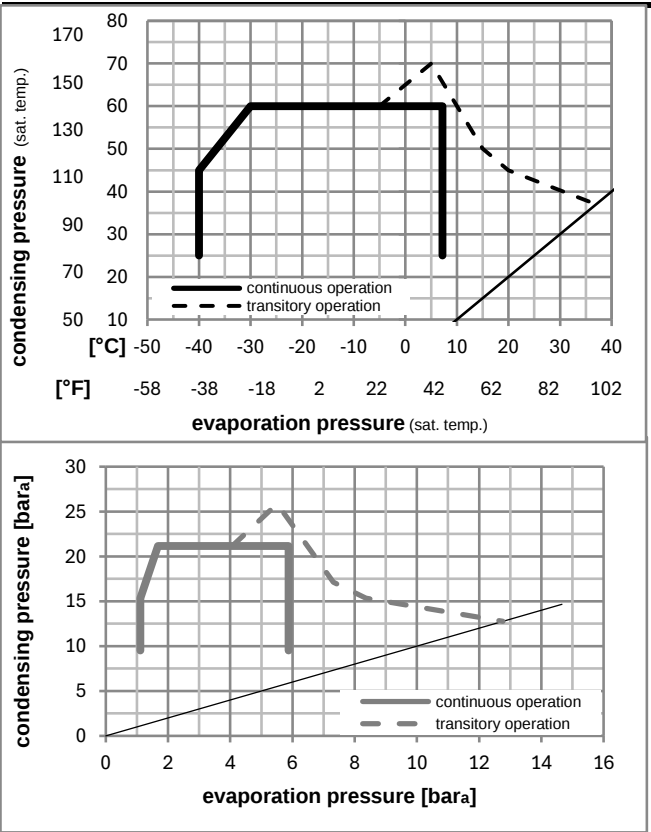


Ambient/ machine room temperatures minimum /maximum

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 (incl. and pre. assembl.)

a5	current relay (T1189/L6-S3)	117U7073
c	start capacitor (80μF, 6.3mm)	117U5001
b, d	cover + clamp + screws(5VA-compl.)	103N0600

Alternative comp.

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

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Optimization + standard conditions			R290, 220V/50Hz, CSIR, fan 3m/s, VDE, CCC		

Evaporating pressure (saturation temperature)					Condensing pressure (saturation temperature)						Power consumption			
											Current consumption			
					Return gas temp.									
					Liquid temp.						Ref. mass flow			
					Cooling capacity			COP	EER		P1	I	m	
	pe	pc	RGT	Tliq	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[kcal/Wh]	[W]	[A]	[kg/h]	
[°C]	-23	54	32	32	230,0	786	197,9	1,50	5,12	1,29	153,4	1,07	2,33	ASHRAE LBP
[°F]	-10	130	90	90										
[°C]	-25	55	32	55	171,4	585	147,5	1,15	3,93	0,99	148,9	1,06	2,13	cecomaf LBP
[°F]	-13	131	90	131										
[°C]	-35	40	20	40	126,8	433	109,1	1,07	3,66	0,92	118,3	0,98	1,45	EN12900 LBP
[°F]	-31	104	68	104										
[°C]	-7	54	35	46	410,2	1401	353,0	2,06	7,05	1,78	198,7	1,22	4,68	ASHRAE MBP
[°F]	20	130	95	115										
[°C]	-10	55	32	55	326,0	1113	280,5	1,71	5,82	1,47	191,1	1,20	4,12	cecomaf MBP
[°F]	14	131	90	131										
[°C]	-10	45	20	45	367,7	1256	316,4	2,13	7,27	1,83	172,7	1,13	4,51	EN12900 MBP
[°F]	14	113	68	113										