

Model

Designation	KLF5.6CND	220-240V/50Hz 1~	Sales code:	106H2620
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Compressor design

Oil type	Polyolester	Refrigerant(s)	R290, 0, 0
Oil viscosity	10,4cSt	Displacement	5,6cm ³ / 0,34cu.in
Oil quantity	170cm ³ / 5,7fl.oz	Compressors on pallet	100
Refr. charge - tech. limit	200g / 7,1oz		
Free gas volume comp.	1605cm ³ / 54,3fl.oz		
Weight	9,4kg / 20,7lbs		
Motor protection	external		
Winding resistance main	10,7Ω (at 25°C)		
Winding resistance aux	17Ω (at 25°C)		
Max. winding temp.	125°C / 257°F		
Max. discharge temp.	130°C / 266°F		



General - Configurations with KLF5.6CND

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

Applications with KLF5.6CND

	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 KLF5.6CND

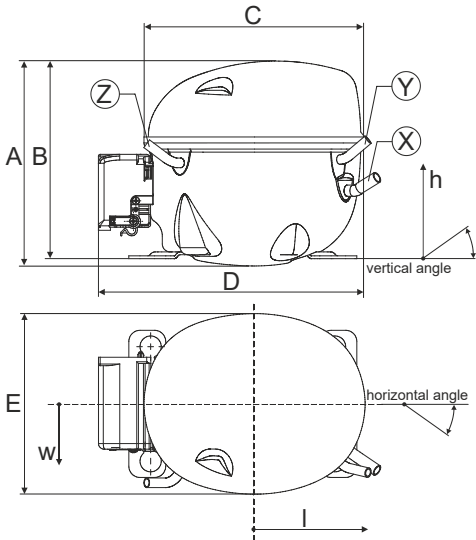
	Conf. 1
Starting device type	PTC
Run capacitor	5μF
Start capacitor	-/-
LRA (locked rotor amps / 4s/ U(N))	11,4A
RLA (rated load amps / 1s/ U(N))	1,6A
Cut in current (U(N))	14,7A

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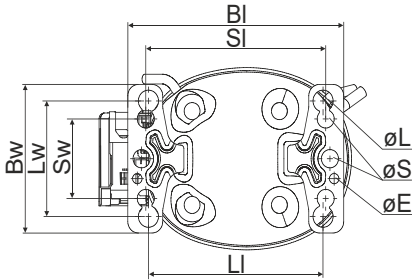
Compressor dimensions

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	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	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	14
	[in]	0,5	0,5	0,5

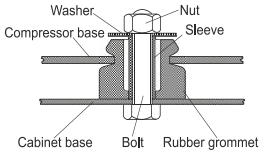


Compressor fixation

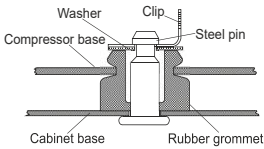


Baseplate	[mm]	[inch]
BI	204	8.03
BW	132	5.2
øE	ø 9.7	ø 0.38
Large holes	[mm]	[inch]
LI	165	6.5
LW	101.6	4
øL	ø 19	ø 0.75
Small holes	[mm]	[inch]
SI	170	6.7
SW	70	2.76
øS	ø 16	ø 0.63

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

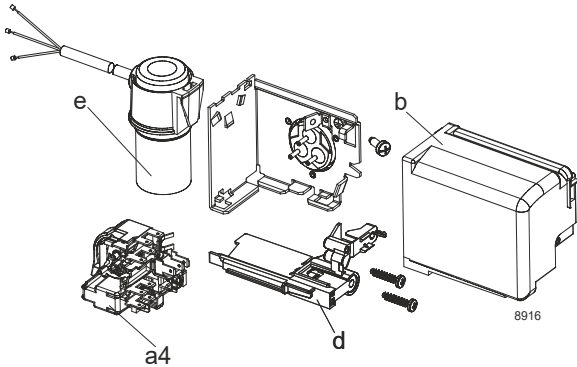
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Configuration

Electrical accessories / wiring diagram

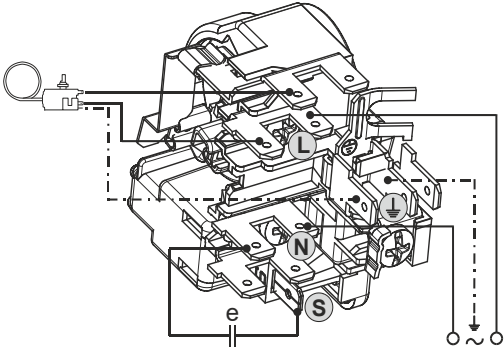
Motor configuration	RSCR
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Refrigerant	R290
Application	LBP+MBP
Voltage range	198-254V
Starting torque	LST
Approvals	VDE
	CCC

RSCR

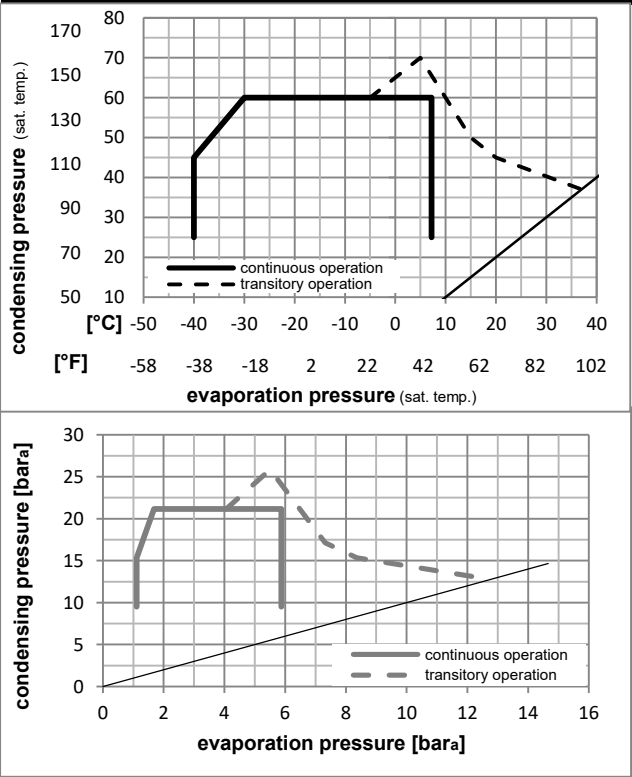


Ambient/ machine room temperatures minimum /maximum

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.)

a4	DAS2 (PTC,6.3mm, T0089/L6 - S2)	103N0251
e	run capacitor (5μF, 6.3mm)	117-7191
b, d	cover + clamp + screws(5VA-compl.)	103N0600

Alternative comp.

a4	ZAS2 (PTC,4.8mm, T0089/L6 - S2)	103N0253
e	run capacitor (5μF, 4.8mm)	117-7190

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, RSCR, fan 3m/s, VDE, CCC

Evaporating pressure (saturation temperature)					Condensing pressure (saturation temperature)						Power consumption			ASHRAE LBP		
Return gas temp.					Current consumption						ASHRAE MBP					
Liquid temp.					Ref. mass flow											
Cooling capacity					COP							EER				
pe	pc	RGT	Tliq	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[kcal/Wh]	P1	I	m				
[°C]	[°C]									[W]	[A]	[kg/h]				
-23	54	32	32	276,8	945	238,2	1,62	5,52	1,39	171,3	0,92	2,80				
-10	130	90	90													
[°C]	[°C]															
[°F]	[°F]															
														ASHRAE LBP		
-25	55	32	55	206,0	704	177,3	1,25	4,26	1,07	165,3	0,90	2,57				
-13	131	90	131													
[°C]	[°C]															
[°F]	[°F]															
														cecomaf LBP		
-35	40	20	40	150,7	515	129,7	1,26	4,29	1,08	120,0	0,73	1,72				
-31	104	68	104													
[°C]	[°C]															
[°F]	[°F]															
														EN12900 LBP		
-7	54	35	46	500,8	1710	431,0	2,17	7,40	1,86	231,2	1,17	5,71				
20	130	95	115													
[°C]	[°C]															
[°F]	[°F]															
														ASHRAE MBP		
-10	55	32	55	397,0	1356	341,7	1,80	6,14	1,55	221,0	1,13	5,02				
14	131	90	131													
[°C]	[°C]															
[°F]	[°F]															
														cecomaf MBP		
-10	45	20	45	440,3	1504	378,9	2,18	7,46	1,88	201,5	1,05	5,41				
14	113	68	113													
[°C]	[°C]															
[°F]	[°F]															
														EN12900 MBP		

Performance tables

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

	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	113,9	389	98,0	1,01	3,44	0,87	113,1	0,71	1,27
cond. pressure	-35	-31	150,0	512	129,1	1,18	4,04	1,02	126,8	0,75	1,68
pc= 45/113	-25	-13	243,8	833	209,8	1,55	5,31	1,34	156,9	0,86	2,75
return gas temp.	-15	5	375,2	1281	322,9	2,00	6,84	1,72	187,4	0,99	4,27
RGT= 32/90	-5	23	554,9	1895	477,6	2,59	8,85	2,23	214,2	1,10	6,39
liquid temp	0	32	666,2	2275	573,4	2,96	10,11	2,55	225,0	1,15	7,73
Tliq= 45/113	7,2	45	855,2	2921	736,0	3,62	12,37	3,12	236,2	1,20	10,05
[°C / °F]	-40	-40	76,9	263	66,2	0,68	2,33	0,59	112,9	0,71	0,95
cond. pressure	-35	-31	115,3	394	99,2	0,89	3,05	0,77	129,2	0,76	1,43
pc= 55/131	-25	-13	206,0	704	177,3	1,25	4,26	1,07	165,3	0,90	2,57
return gas temp	-15	5	324,2	1107	279,0	1,60	5,46	1,38	202,9	1,05	4,08
RGT= 32/90	-5	23	480,6	1642	413,7	2,02	6,90	1,74	237,9	1,20	6,12
liquid temp	0	32	576,5	1969	496,2	2,28	7,77	1,96	253,3	1,27	7,41
Tliq= 55/131	7,2	45	738,8	2523	635,8	2,72	9,29	2,34	271,5	1,35	9,62