

## Model

Designation	<b>KLF5.6CND</b>	<b>220-240V/50Hz 1~</b>	Sales code:	<b>106H2607</b>
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## Compressor design

Oil type	Polyolester	Refrigerant(s)	<b>R290</b>
Oil viscosity	10,4cSt	Displacement	5,6cm <sup>3</sup> / 0,34cu.in
Oil quantity	170cm <sup>3</sup> / 5,7fl.oz	Compressors on pallet	100
Refr. charge - tech. limit	200g / 7,1oz		
Free gas volume comp.	1605cm <sup>3</sup> / 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

	<b>Conf. 1</b>	<b>Conf. 2</b>
Motorconfiguration	CSIR	RSCR
Power supply (nominal)	220-240V/50Hz	220-240V/50Hz
Number of phases	1	1
Voltage range	198-254V	198-254V
Approvals	VDE, CCC	VDE, CCC
Starting torque	HST	LST
Note	- / -	

## Applications with KLF5.6CND

	<b>Conf. 1</b>	<b>Conf. 2</b>
Refrigerant	R290	R290
Application	LBP+MBP	LBP+MBP
System cooling	fan 3m/s	fan 3m/s
Hot gas defrost	OK	OK
Long interval pull down	OK	OK

## Electrical data - Configurations with KLF5.6CND

	<b>Conf. 1</b>	<b>Conf. 2</b>
Starting device type	relay	PTC
Run capacitor	-/-	5μF
Start capacitor	80μF	-/-
LRA (locked rotor amps / 4s/ U(N))	11,4A	11,4A
RLA (rated load amps / 1s/ U(N))	1,6A	1,6A
Cut in current (U(N))	10,7A	14,7A

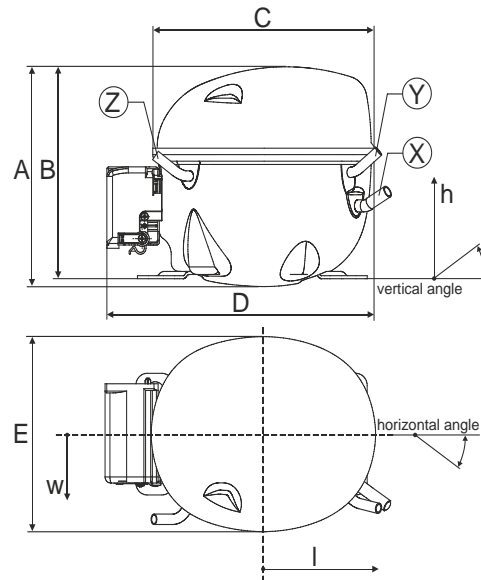
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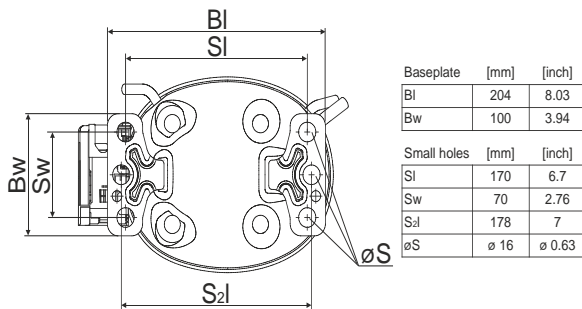
## Compressor dimensions

<b>Housing</b>	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

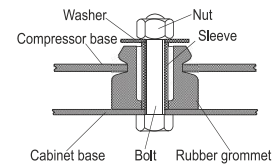
Connectors		Suction	Discharge	Process
		X	Y	Z
Diameter	[mm]	øi 8,11-8,29	øi 6,11-6,29	øi 6,11-6,29
(i:inside, o:outside)	[in]	øi 0,32-0,33	øi 0,24-0,25	øi 0,24-0,25
Material		copper	copper	copper
Horizontal angle	±2°	35°	13°	0°
Vertical angle	±2°	30°	40°	145°
Position l/h/w	[mm]	119/73/59	117/107/66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



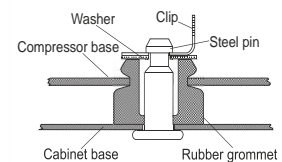
## Compressor fixation



### 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

## Model

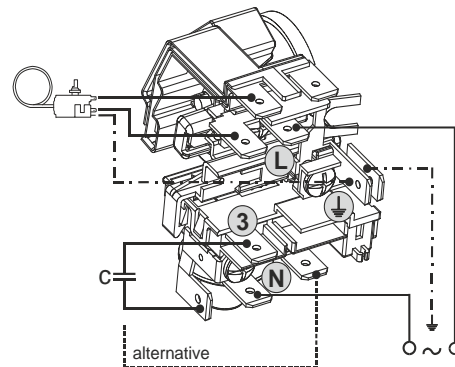
Designation **KLF5.6CND** **220-240V/50Hz** Conf. 1 Sales code: **106H2607**

## Configuration

Motorconfiguration CSIR  
 Power supply (nominal) 220-240V/50Hz 1~  
 Refrigerant R290  
 Application LBP+MBP  
 Voltage range 198-254V  
 Starting torque HST  
 Approvals VDE  
 CCC

## Electrical accessories / wiring diagram

CSIR



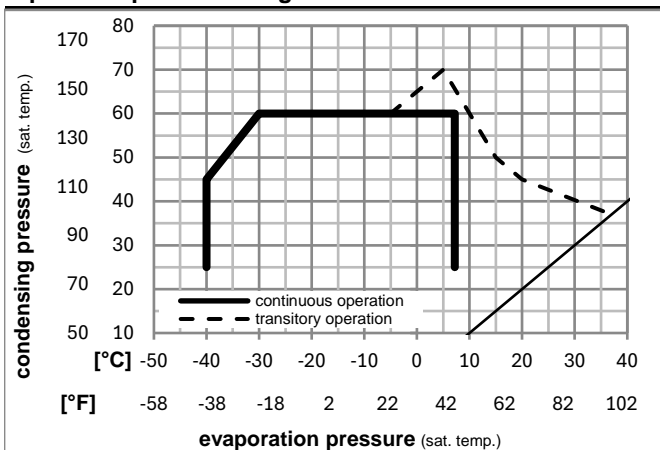
## Ambient/ machine room temperatures minimum /maximum

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

a5	current relay (T0089/L6-S2)	117U7070
c	start capacitor (80µF, 6.3mm)	117U5001
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

### Model

Designation **KLF5.6CND** **220-240V/50Hz** Conf. 1 Sales code: **106H2607**

### Optimization + standard conditions

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

	pe	pc	RGT	Tliq	Cooling capacity	COP	EER	P1	I	Ref. mass flow	
	[°C]	[°C]	[°C]	[°C]	[W]	[W/W]	[Btu/Wh]	[W]	[A]	[kg/h]	
	-23	54	32	32	273,6	1,55	5,28	177,1	1,22	2,77	ASHRAE LBP
	-10	130	90	90	934	1,55	5,28	177,1	1,22	2,77	
	-23	54	32	32	273,6	1,55	5,28	177,1	1,22	2,77	
	-10	130	90	90	934	1,55	5,28	177,1	1,22	2,77	
	-25	55	32	55	203,7	1,19	4,07	170,9	1,20	2,54	cecomaf LBP
	-13	131	90	131	696	1,19	4,07	170,9	1,20	2,54	
	-25	55	32	55	203,7	1,19	4,07	170,9	1,20	2,54	
	-13	131	90	131	696	1,19	4,07	170,9	1,20	2,54	
	-35	40	20	40	149,1	1,21	4,12	123,4	1,07	1,70	EN12900 LBP
	-31	104	68	104	509	1,21	4,12	123,4	1,07	1,70	
	-35	40	20	40	149,1	1,21	4,12	123,4	1,07	1,70	
	-31	104	68	104	509	1,21	4,12	123,4	1,07	1,70	
	-7	54	35	46	494,7	2,07	7,08	238,8	1,43	5,64	ASHRAE MBP
	20	130	95	115	1690	2,07	7,08	238,8	1,43	5,64	
	-7	54	35	46	494,7	2,07	7,08	238,8	1,43	5,64	
	20	130	95	115	1690	2,07	7,08	238,8	1,43	5,64	
	-10	55	32	55	392,2	1,72	5,87	228,2	1,39	4,96	cecomaf MBP
	14	131	90	131	1339	1,72	5,87	228,2	1,39	4,96	
	-10	55	32	55	392,2	1,72	5,87	228,2	1,39	4,96	
	14	131	90	131	1339	1,72	5,87	228,2	1,39	4,96	
	-10	45	20	45	435,1	2,09	7,14	208,0	1,32	5,34	EN12900 MBP
	14	113	68	113	1486	2,09	7,14	208,0	1,32	5,34	
	-10	45	20	45	435,1	2,09	7,14	208,0	1,32	5,34	
	14	113	68	113	1486	2,09	7,14	208,0	1,32	5,34	

### Performance tables

R290, 220V/50Hz, CSIR, 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]	-35	-31	148,4	507	127,7	1,14	3,88	0,98	130,6	1,09	1,66
cond. pressure	-35	-31	148,4	507	127,7	1,14	3,88	0,98	130,6	1,09	1,66
pc= 45/113	-25	-13	241,0	823	207,4	1,49	5,08	1,28	162,1	1,17	2,72
return gas temp.	-15	5	370,8	1266	319,1	1,92	6,54	1,65	193,5	1,27	4,22
RGT= 32/90	-5	23	548,3	1872	471,9	2,48	8,47	2,14	221,0	1,36	6,31
liquid temp	0	32	658,2	2248	566,5	2,84	9,69	2,44	232,0	1,40	7,63
Tliq= 45/113	7,2	45	844,8	2885	727,1	3,47	11,85	2,99	243,5	1,45	9,93
[°C / °F]	-35	-31	114,0	389	98,1	0,86	2,92	0,74	133,3	1,10	1,41
cond. pressure	-35	-31	114,0	389	98,1	0,86	2,92	0,74	133,3	1,10	1,41
pc= 55/131	-25	-13	203,7	696	175,3	1,19	4,07	1,03	170,9	1,20	2,54
return gas temp	-15	5	320,4	1094	275,7	1,53	5,22	1,32	209,6	1,33	4,03
RGT= 32/90	-5	23	474,8	1621	408,6	1,93	6,60	1,66	245,7	1,46	6,05
liquid temp	0	32	569,4	1945	490,0	2,18	7,43	1,87	261,5	1,52	7,31
Tliq= 55/131	7,2	45	729,5	2491	627,8	2,60	8,88	2,24	280,5	1,59	9,50

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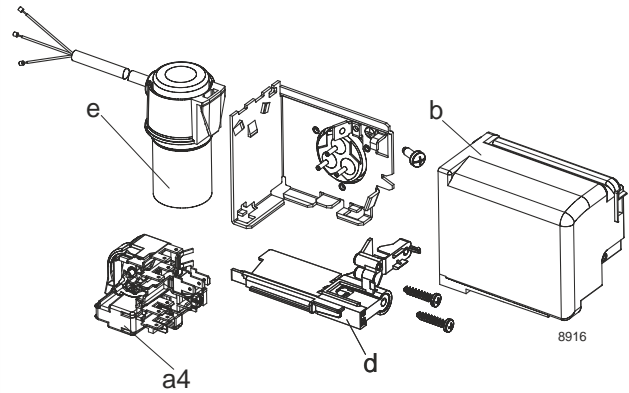
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## Configuration

Motorconfiguration RSCR  
 Power supply (nominal) 220-240V/50Hz 1~  
 Refrigerant R290  
 Application LBP+MBP  
 Voltage range 198-254V  
 Starting torque LST  
 Approvals VDE  
 CCC

## Electrical accessories / wiring diagram

RSCR

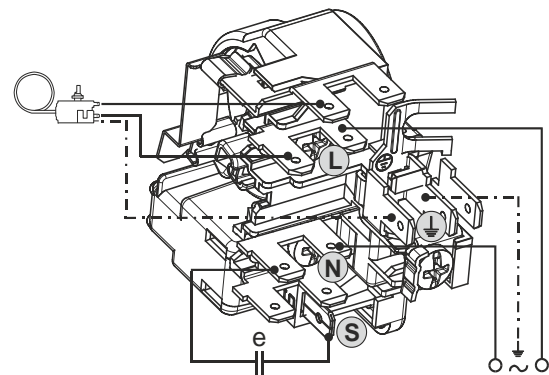


## Ambient/ machine room temperatures minimum /maximum

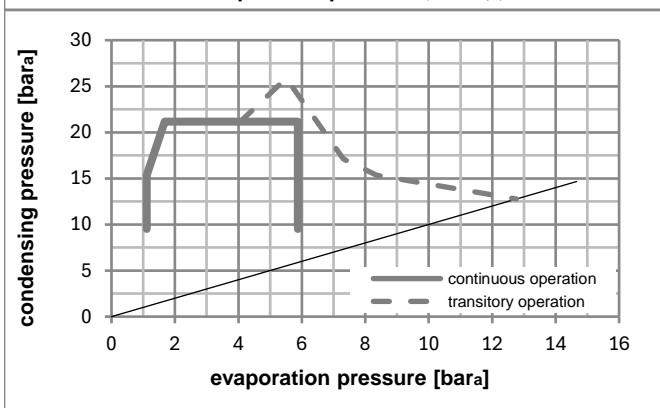
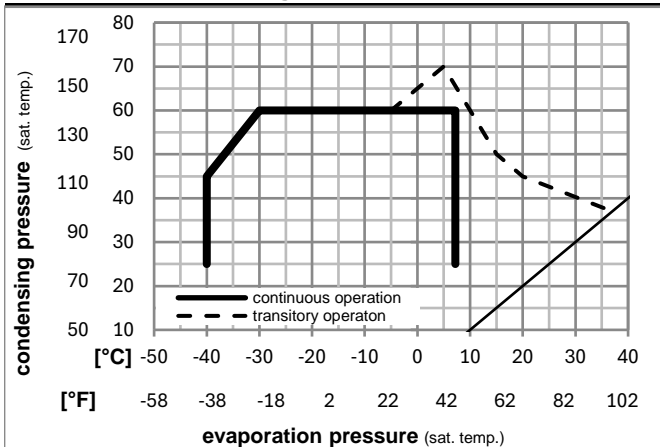
Ambient temperature range: 10 - 43°C / 50 - 110°F

Machine room temperature range: 10 - 48°C / 50 - 119°F

Compressor cooling: fan 3m/s



## Operation pressure range



## Components

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 components

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