Single
Packs

Single Pack KLF5.6CND 220-240V 50Hz CSIR

Single pack code number: **195B4595**

Position	Title	Code	Amount
1	Compressor KLF5.6CND	106H2600	1
2	Starting relay (QLZ-4.4A, overload protector T0089/L6)	117U7070	1
3	Starting capacitor (80µF 220V, 6.3mm)	117U5001	1
4	KL accessories	103N1060	1
5	Bolt joint for one compressor | M6 | ø16mm	118-1917	1

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Model
KLF5.6CND

Sales code:
106H2600

Compressor Data

Refrigerant(s)	**R290**
Refr. charge - tech. limit	**200g / 7.05oz**
Weight	**9.40 kg / 20.72lbs**
Displacement	**5.60 cm3 / 0.34cu.in**
Compressors on pallet	**100**

General – Configurations With KLF5.6CND

–	**Conf. 1**	**Conf. 2**
Motor configuration	CSIR	RSCR
Power supply (nominal)	220-240 V/50 Hz	220-240 V/50 Hz
Number of phases	1	1
Voltage range	198-254 V	198-254 V
Approvals	VDE, CCC	VDE, CCC
Starting torque	HST	LST
Refrigerant	R290	R290
Application	LBP+MBP	LBP+MBP
Hot gas defrost	OK	OK
Long interval pull down	OK	OK

Application Notes

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

Model
KLF5.6CND

Sales code:
106H2600

Compressor Design

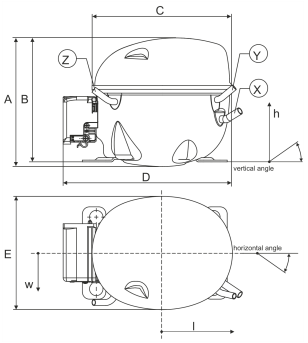
Oil type	**POE**	Winding resistance main	**10.7 Ohm**
Oil viscosity	**9,7cSt**	Winding resistance aux	**17 Ohm**
Oil quantity	**165 / 5.58fl.oz**	Max. winding temp.	**125 °C**
Free gas volume comp.	**1,605 cm3 / 54.27fl.oz**	Max. discharge temp.	**130°C / 266°F**
Motor protection	**external**		

Compressor Dimensions

Housing

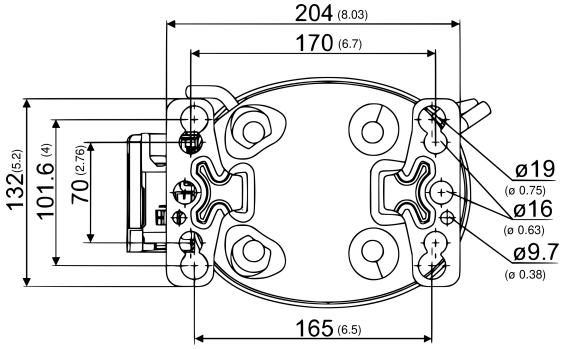
A Height	**182mm / 7.17in**
B Height	**175mm / 6.89in**
C Length shell	**198mm / 7.80in**
D Length w. cover	**238mm / 9.37in**
E Width	**160mm / 6.30in**

Find 3D Model here



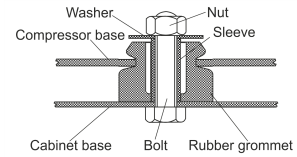
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 8.11–8.29 / 0.32–0.33in	øi 6.11–6.29 / 0.24–0.25in	øi 6.11–6.29 / 0.24–0.25in
Material	CU	CU	CU
Horizontal angle ±2°	35°	13°	0°
Vertical angle ±2°	30°	40°	145°
Position l/h/w [mm]	119/73/59 / 4.69/2.87/2.32in	117/107/66 / 4.61/4.21/2.60in	-88/101/71 / -3.46/3.98/2.80in
Straight tube l. [mm]	13.5 / 0.53in	13.5 / 0.53in	13.5 / 0.53in

Mounting Accessories

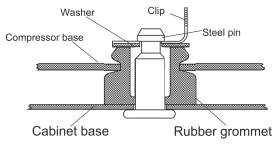


Dimensions in mm [in]

Bolt joint



Snap-on



	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

Model
KLF5.6CND Configuration 1

Sales code:
106H2600

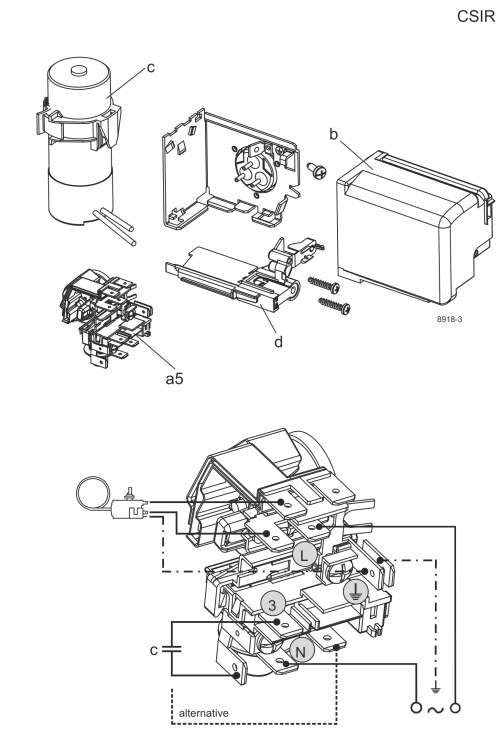
Configuration

Motor configuration	**CSIR**
Power supply (nominal)	**220-240 V/50 Hz 1~**
Refrigerant	**R290**
Application	**LBP+MBP**
Voltage range	**198-254 V**
Starting torque	**HST**
Approvals	**VDE, CCC**
Starting device type	**relay**
Run capacitor	**-/-**
Start capacitor	**80 µF**
LRA (locked rotor amps / 4s/ U(N))	**11.4 A**
RLA (rated load amps / 1s/ U(N))	**1.6 A**
Cut in current (U(N))	**10.7 A**

Ambient/ machine room temperatures minimum /maximum
Ambient temperature range: 10 - 43°C / 50 - 109°F
Machine room temp. compressor: 10 - 48°C / 50 - 118°F

System Cooling
fan 3m/s

Electrical Accessories / Wiring Diagram



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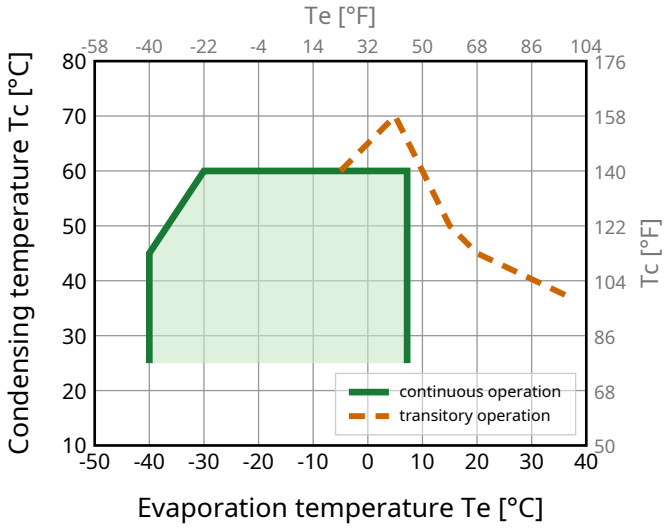
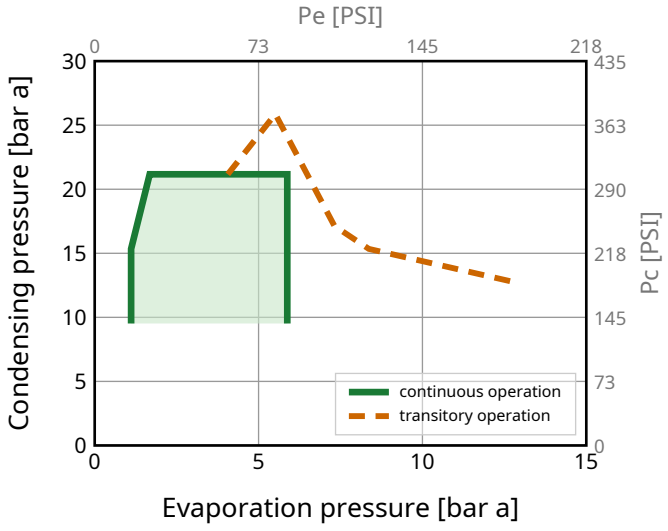
Components
a5 current relay (T0089/L6-S2) 117U7070
c start capacitor (80µF, 6.3mm) 117U5001
b, d cover + clamp + screws (5VA-compl.) 103N0600

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

Operation Pressure Range





Model
KLF5.6CND Configuration 1

Sales code:
106H2600

Standard Conditions

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

pe	pc	RGT	Tliq	Cooling capacity			COP	EER	P	I	ṁ	
[°C] [°F]	[°C] [°F]	[°C] [°F]	[°C] [°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[W]	[A]	[kg/h]	
-23.3 -10	54.4 129.9	32.2 90	32.2 90	**275**	939	237	**1.55**	5.30	177	1.22	2.79	**ASHRAE LBP**
-25 -13	55 131	32 89.6	55 131	**204**	695	175	**1.19**	4.07	171	1.20	2.55	**CECOMAF LBP**
-35 -31	40 104	20 68	40 104	**149**	509	128	**1.21**	4.12	123	1.07	1.71	**EN12900 LBP**
-6.7 20	54.4 129.9	35 95	46.1 115	**495**	1688	425	**2.07**	7.07	239	1.43	5.66	**ASHRAE MBP**
-10 14	55 131	32 89.6	55 131	**392**	1338	337	**1.72**	5.86	228	1.39	4.99	**CECOMAF MBP**
-10 14	45 113	20 68	45 113	**436**	1487	375	**2.10**	7.15	208	1.32	5.36	**EN12900 MBP**

Performance Tables

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

pc= 45/113 | RGT= 32/89.6 | Tliq= 45/113 | °C/°F

pe		Cooling capacity			COP	EER	P	I	ṁ
[°C]	[°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[W]	[A]	[kg/h]
-40	-40	**113**	384	97	**0.97**	3.31	116	1.06	1.27
-30	-22	**191**	651	164	**1.30**	4.45	146	1.13	2.15
-20	-4	**301**	1026	259	**1.69**	5.76	178	1.22	3.42
-10	14	**453**	1545	389	**2.18**	7.43	208	1.32	5.20
0	32	**658**	2246	566	**2.84**	9.68	232	1.40	7.65
7.2	45	**845**	2882	727	**3.47**	11.84	244	1.45	9.94

pc= 55/131 | RGT= 32/89.6 | Tliq= 55/131 | °C/°F

-40	-40	**76**	259	65	**0.66**	2.23	116	1.06	0.94
-30	-22	**156**	533	134	**1.03**	3.51	152	1.14	1.95
-20	-4	**258**	880	222	**1.35**	4.62	190	1.26	3.25
-10	14	**392**	1338	337	**1.72**	5.86	228	1.39	4.99
0	32	**569**	1943	490	**2.18**	7.43	262	1.52	7.34
7.2	45	**730**	2489	627	**2.60**	8.87	280	1.59	9.53

Model
KLF5.6CND Configuration 2

Sales code:
106H2600

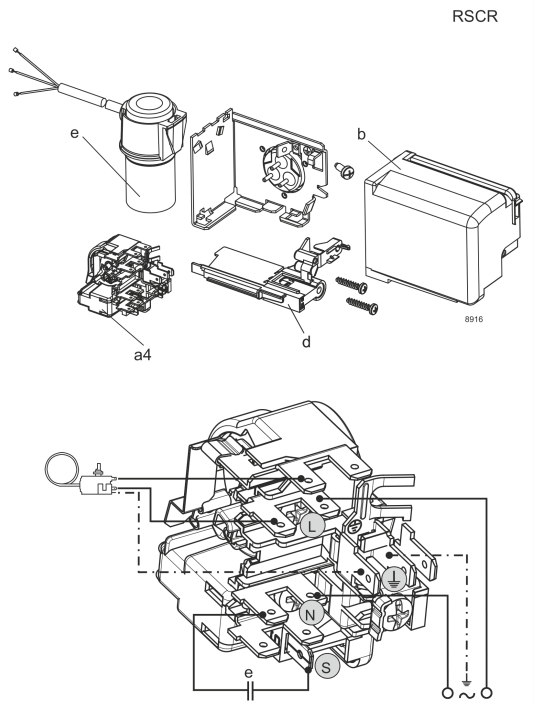
Configuration

Motor configuration	**RSCR**
Power supply (nominal)	**220-240 V/50 Hz 1~**
Refrigerant	**R290**
Application	**LBP+MBP**
Voltage range	**198-254 V**
Starting torque	**LST**
Approvals	**VDE, CCC**
Starting device type	**PTC**
Run capacitor	**5 µF**
Start capacitor	**-/-**
LRA (locked rotor amps / 4s/ U(N))	**11.4 A**
RLA (rated load amps / 1s/ U(N))	**1.6 A**
Cut in current (U(N))	**10.7 A**

Ambient/ machine room temperatures minimum /maximum
Ambient temperature range: 10 - 43°C / 50 - 109°F
Machine room temp. compressor: 10 - 48°C / 50 - 118°F

System Cooling
fan 3m/s

Electrical Accessories / Wiring Diagram



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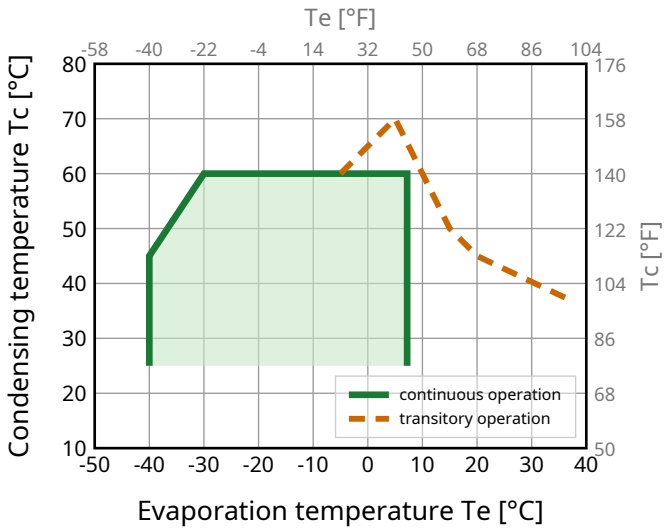
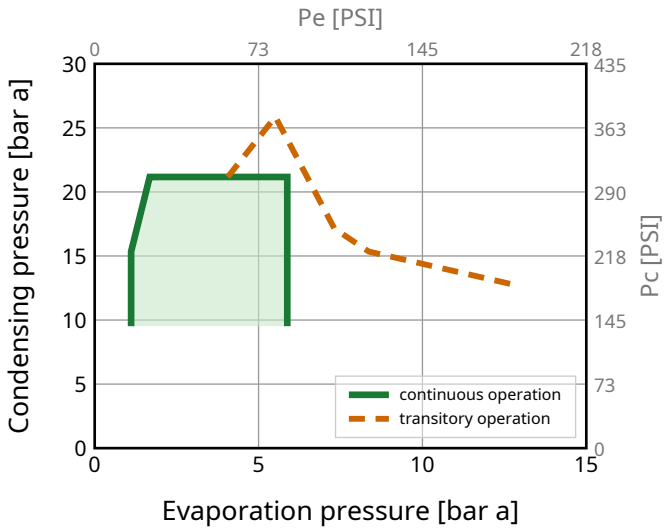
Components
a4 DAS2 (PTC,6.3mm, T0089/L6 - S2) 103N0251
e run capacitor (5µF, 6.3mm) 117-7191
b, d cover + clamp + screws (5VA-compl.) 103N0600

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

Operation Pressure Range





Model

KLF5.6CND Configuration 2

Sales code:

106H2600

Standard Conditions

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

pe	pc	RGT	Tliq	Cooling capacity			COP	EER	P	I	ṁ	
[°C] [°F]	[°C] [°F]	[°C] [°F]	[°C] [°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[W]	[A]	[kg/h]	
-23.3 -10	54.4 129.9	32.2 90	32.2 90	**278**	950	239	**1.62**	5.54	171	0.92	2.83	**ASHRAE LBP**
-25 -13	55 131	32 89.6	55 131	**206**	703	177	**1.25**	4.25	165	0.90	2.58	**CECOMAF LBP**
-35 -31	40 104	20 68	40 104	**151**	515	130	**1.26**	4.29	120	0.73	1.73	**EN12900 LBP**
-6.7 20	54.4 129.9	35 95	46.1 115	**501**	1709	431	**2.17**	7.40	231	1.17	5.73	**ASHRAE MBP**
-10 14	55 131	32 89.6	55 131	**397**	1355	341	**1.80**	6.13	221	1.13	5.05	**CECOMAF MBP**
-10 14	45 113	20 68	45 113	**441**	1504	379	**2.19**	7.47	202	1.05	5.43	**EN12900 MBP**

Performance Tables

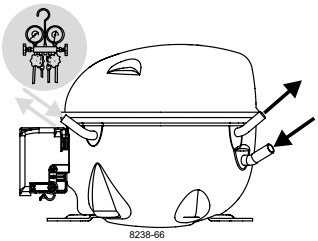
R290, 220 V/50 Hz, RSCR, fan 3m/s

pc= 45/113 | RGT= 32/89.6 | Tliq= 45/113 | °C/°F

pe		Cooling capacity			COP	EER	P	I	ṁ
[°C]	[°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[W]	[A]	[kg/h]
-40	-40	**114**	389	98	**1.01**	3.44	113	0.71	1.28
-30	-22	**193**	658	166	**1.36**	4.65	142	0.81	2.18
-20	-4	**304**	1038	262	**1.76**	6.02	172	0.93	3.46
-10	14	**458**	1564	394	**2.27**	7.76	202	1.05	5.26
0	32	**666**	2273	573	**2.96**	10.10	225	1.15	7.75
7.2	45	**855**	2918	735	**3.62**	12.35	236	1.20	10.06

pc= 55/131 | RGT= 32/89.6 | Tliq= 55/131 | °C/°F

-40	-40	**77**	262	66	**0.68**	2.32	113	0.71	0.95
-30	-22	**158**	539	136	**1.07**	3.67	147	0.83	1.97
-20	-4	**261**	891	224	**1.42**	4.83	184	0.97	3.29
-10	14	**397**	1355	341	**1.80**	6.13	221	1.13	5.05
0	32	**576**	1967	496	**2.28**	7.77	253	1.27	7.43
7.2	45	**739**	2521	635	**2.72**	9.28	272	1.35	9.65



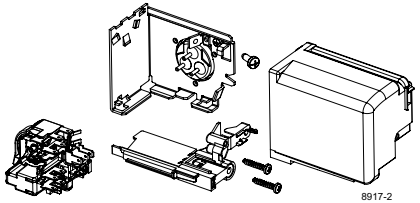
KL Compressors

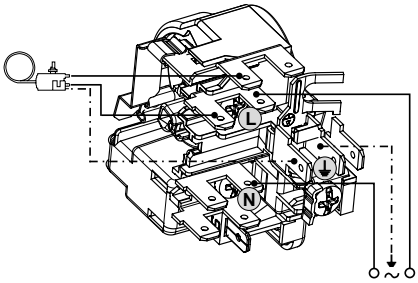
SECOP

Keep electrical equipment clear from oil, chemicals, and water

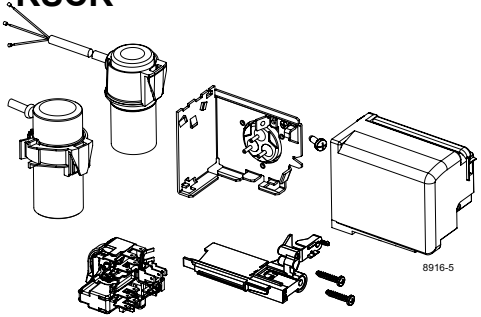
When operated with a flammable refrigerant, only spark-proof starting equipment is allowed.

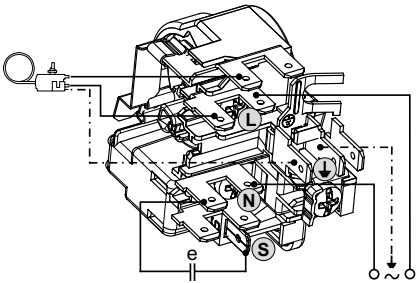
RSIR



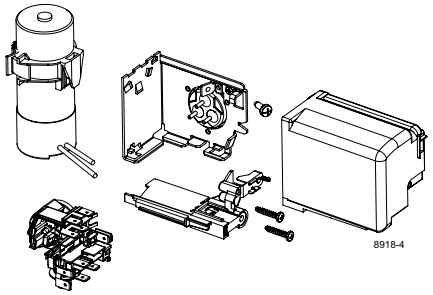


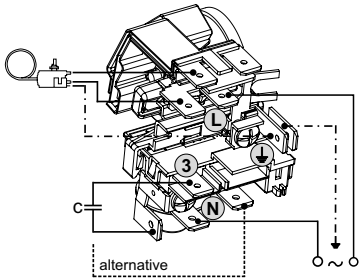
RSCR

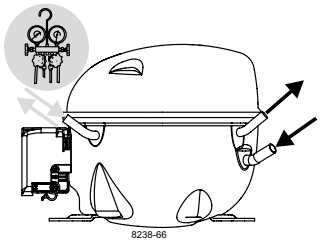




CSIR







KL Compressors

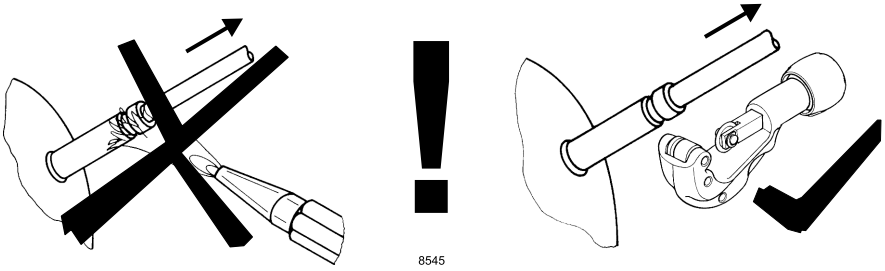
SECOP

Keep electrical equipment clear from oil, chemicals, and water

When operated with a flammable refrigerant, only spark-proof starting equipment is allowed.

Service/Repair – R290, R600a, R170, R1270, R1234yf

(applies to all flammable refrigerants)



Dismantling, recycling, disposal: At the end of a compressor's lifecycle, proceed by separating and storing components according to their environmental impact. Parts that may cause pollution must be clearly identified and handled separately, ensuring appropriate disposal. Refrigerant gas must not be released into the environment and should be recovered by qualified operators. Compressor oil must also be collected separately. The compressor should be disposed of at specialized disposal centers in accordance with the applicable regulations. **Subject to modifications/alterations. www.secop.com**