Model
KLF5.6CNT

Sales code:
106H2602

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 KLF5.6CNT

–	Conf. 1	Conf. 2	Conf. 3	Conf. 4
Motor configuration	CSIR	RSCR	CSIR	RSCR
Power supply (nominal)	200-240 V/50 Hz	200-240 V/50 Hz	208-230 V/60 Hz	208-230 V/60 Hz
Number of phases	1	1	1	1
Voltage range	187-254 V	187-254 V	198-253 V	198-253 V
Approvals	UL, CCC, CB	UL, CCC, CB	UL, CCC, CB, KC	UL, CCC, CB, KC
Starting torque	HST	LST	HST	LST
Refrigerant	R290	R290	R290	R290
Application	LBP+MBP	LBP+MBP	LBP+MBP	LBP+MBP
Hot gas defrost	OK	OK	OK	OK
Long interval pull down	OK	OK	–	–

Application Notes

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

Model
KLF5.6CNT

Sales code:
106H2602

Compressor Design

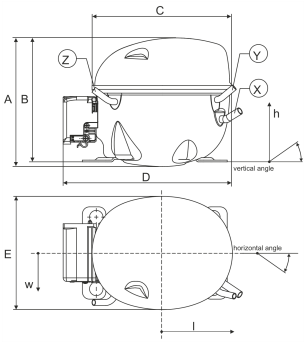
Oil type	**POE**	Winding resistance main	**10.7 Ohm**
Oil viscosity	**19,2cSt**	Winding resistance aux	**12.2 Ohm**
Oil quantity	**170 / 5.75fl.oz**	Max. winding temp.	**125 °C**
Free gas volume comp.	**1,605 cm3 / 54.27fl.oz**	Max. discharge temp.	**130°C / 266°F**
Motor protection	**external**		

Compressor Dimensions

Housing

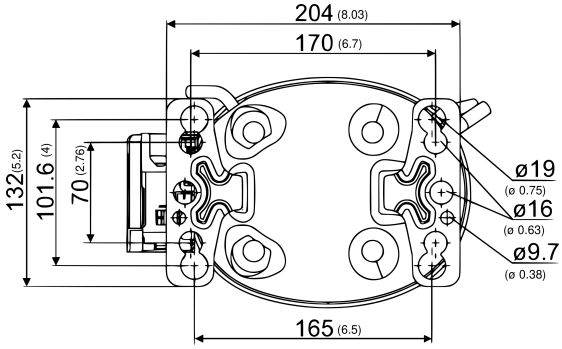
A Height	**182mm / 7.17in**
B Height	**175mm / 6.89in**
C Length shell	**198mm / 7.80in**
D Length w. cover	**238mm / 9.37in**
E Width	**160mm / 6.30in**

Find 3D Model here



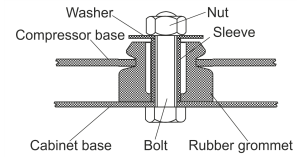
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 8.11–8.29 / 0.32–0.33in	øi 6.11–6.29 / 0.24–0.25in	øi 6.11–6.29 / 0.24–0.25in
Material	CU	CU	CU
Horizontal angle ±2°	35°	13°	0°
Vertical angle ±2°	30°	40°	145°
Position l/h/w [mm]	119/73/59 / 4.69/2.87/2.32in	117/107/66 / 4.61/4.21/2.60in	-88/101/71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

Mounting Accessories

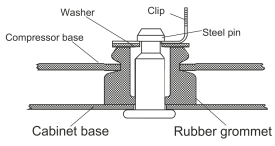


Dimensions in mm [in]

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
KLF5.6CNT Configuration 1

Sales code:
106H2602

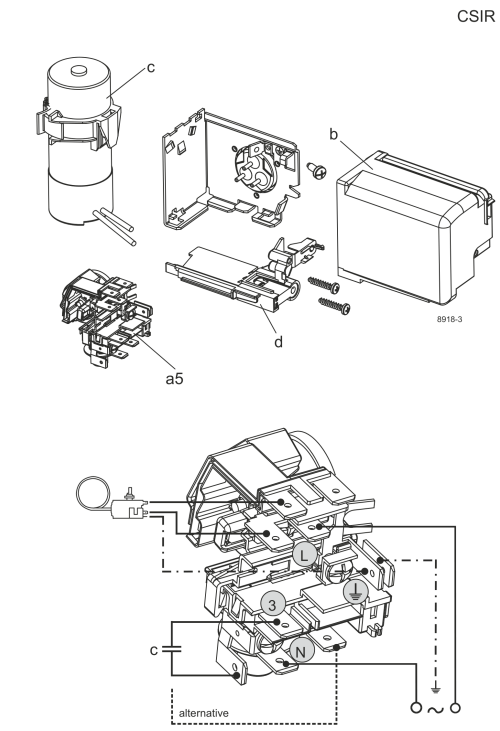
Configuration

Motor configuration	**CSIR**
Power supply (nominal)	**200-240 V/50 Hz 1~**
Refrigerant	**R290**
Application	**LBP+MBP**
Voltage range	**187-254 V**
Starting torque	**HST**
Approvals	**UL, CCC, CB**
Starting device type	**relay**
Run capacitor	**-/-**
Start capacitor	**80 µF**
LRA (locked rotor amps / 4s/ U(N))	**10.3 A**
RLA (rated load amps / 1s/ U(N))	**1.7 A**
Cut in current (U(N))	**15.5 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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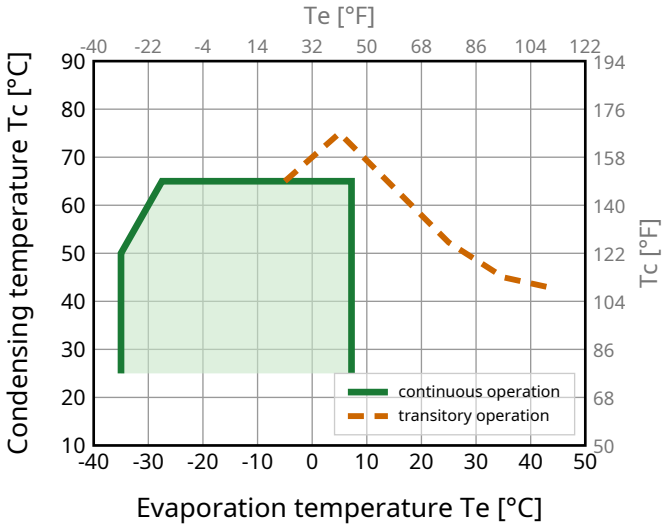
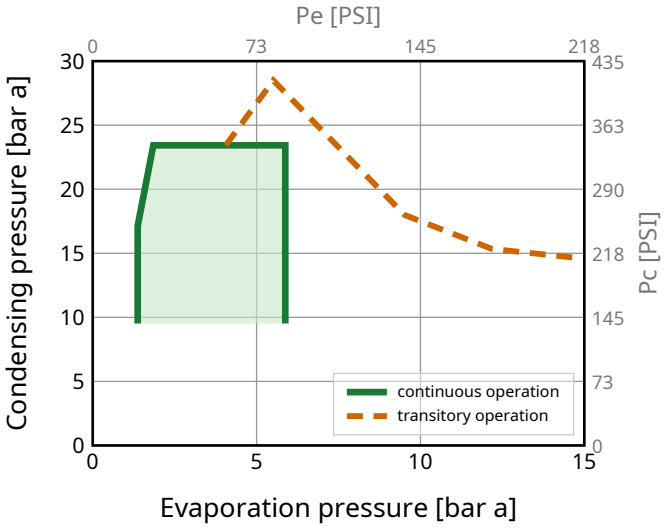
Components
a5 current relay (1218/L6 - S7) 117U7077
c start capacitor (80µF, 6.3mm) 117U5003
b, d cover + clamp + screws (5VA-compl.) 103N0600

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

Operation Pressure Range





Model
KLF5.6CNT Configuration 1

Sales code:
106H2602

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	**272**	930	234	**1.55**	5.28	176	1.22	2.77	**ASHRAE LBP**
-25 -13	55 131	32 89.6	55 131	**202**	688	173	**1.19**	4.06	170	1.20	2.53	**CECOMAF LBP**
-35 -31	40 104	20 68	40 104	**148**	504	127	**1.21**	4.11	122	1.07	1.69	**EN12900 LBP**
-6.7 20	54.4 129.9	35 95	46.1 115	**490**	1671	421	**2.06**	7.03	238	1.43	5.61	**ASHRAE MBP**
-10 14	55 131	32 89.6	55 131	**388**	1325	334	**1.71**	5.83	227	1.39	4.94	**CECOMAF MBP**
-10 14	45 113	20 68	45 113	**431**	1472	371	**2.08**	7.10	207	1.32	5.31	**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]
-35	-31	**147**	501	126	**1.13**	3.86	130	1.09	1.66
-30	-22	**189**	644	162	**1.30**	4.44	145	1.13	2.13
-20	-4	**298**	1015	256	**1.68**	5.74	177	1.22	3.39
-10	14	**448**	1530	386	**2.17**	7.39	207	1.32	5.15
0	32	**652**	2224	560	**2.81**	9.60	232	1.40	7.58
7.2	45	**836**	2854	719	**3.44**	11.73	243	1.45	9.84

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

-35	-31	**113**	385	97	**0.85**	2.92	132	1.09	1.41
-30	-22	**155**	527	133	**1.03**	3.51	150	1.14	1.93
-20	-4	**256**	872	220	**1.35**	4.61	189	1.26	3.22
-10	14	**388**	1325	334	**1.71**	5.83	227	1.39	4.94
0	32	**564**	1923	485	**2.16**	7.37	261	1.51	7.27
7.2	45	**722**	2464	621	**2.58**	8.79	280	1.59	9.43

Model
KLF5.6CNT Configuration 2

Sales code:
106H2602

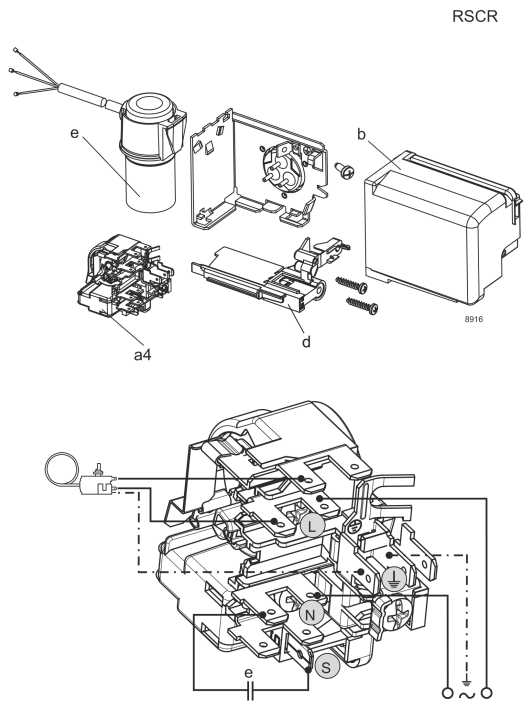
Configuration

Motor configuration	**RSCR**
Power supply (nominal)	**200-240 V/50 Hz 1~**
Refrigerant	**R290**
Application	**LBP+MBP**
Voltage range	**187-254 V**
Starting torque	**LST**
Approvals	**UL, CCC, CB**
Starting device type	**PTC**
Run capacitor	**5 µF**
Start capacitor	**-/-**
LRA (locked rotor amps / 4s/ U(N))	**10.3 A**
RLA (rated load amps / 1s/ U(N))	**1.7 A**
Cut in current (U(N))	**15.5 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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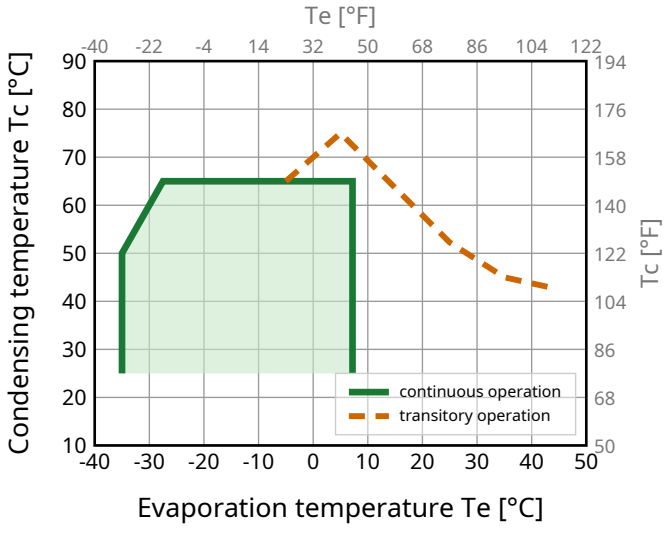
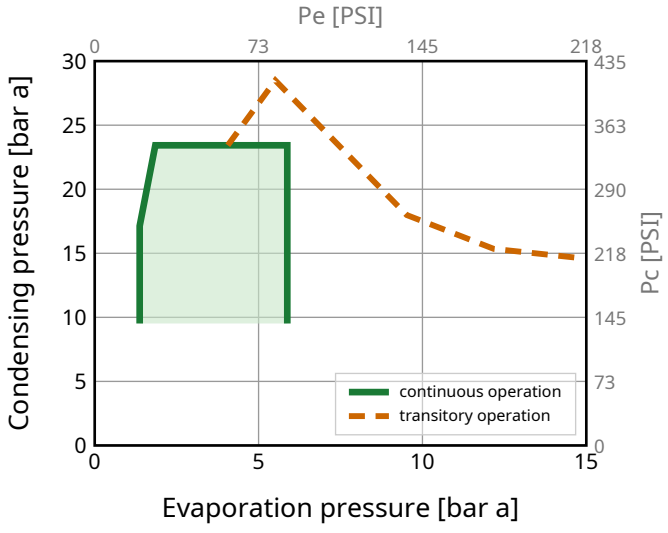
Components
a4 DAS7 (PTC, 6.3mm, T1218/L6 - S7) 103N0256
e run capacitor (5µF, 6,3mm) 117-7155
b, d cover + clamp + screws (5VA-compl.) 103N0600

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

Operation Pressure Range





Model

KLF5.6CNT Configuration 2

Sales code:

106H2602

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**	947	239	**1.62**	5.51	172	0.93	2.82	**ASHRAE LBP**
-25 -13	55 131	32 89.6	55 131	**206**	701	177	**1.24**	4.23	166	0.91	2.58	**CECOMAF LBP**
-35 -31	40 104	20 68	40 104	**150**	513	129	**1.24**	4.22	121	0.75	1.72	**EN12900 LBP**
-6.7 20	54.4 129.9	35 95	46.1 115	**500**	1704	430	**2.16**	7.37	231	1.18	5.72	**ASHRAE MBP**
-10 14	55 131	32 89.6	55 131	**396**	1351	341	**1.79**	6.11	221	1.14	5.04	**CECOMAF MBP**
-10 14	45 113	20 68	45 113	**440**	1500	378	**2.18**	7.43	202	1.05	5.41	**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]
-35	-31	**150**	510	129	**1.17**	3.98	128	0.77	1.69
-30	-22	**192**	656	165	**1.35**	4.60	142	0.82	2.17
-20	-4	**303**	1035	261	**1.75**	5.98	173	0.93	3.45
-10	14	**457**	1560	393	**2.26**	7.72	202	1.05	5.25
0	32	**665**	2268	572	**2.95**	10.06	225	1.16	7.73
7.2	45	**853**	2911	734	**3.61**	12.31	236	1.20	10.04

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

-35	-31	**115**	392	99	**0.88**	3.01	130	0.78	1.43
-30	-22	**158**	537	135	**1.07**	3.64	147	0.84	1.97
-20	-4	**260**	888	224	**1.41**	4.81	184	0.98	3.28
-10	14	**396**	1351	341	**1.79**	6.11	221	1.14	5.04
0	32	**575**	1963	495	**2.27**	7.74	254	1.27	7.42
7.2	45	**737**	2515	634	**2.71**	9.26	272	1.35	9.63

Model
KLF5.6CNT Configuration 3

Sales code:
106H2602

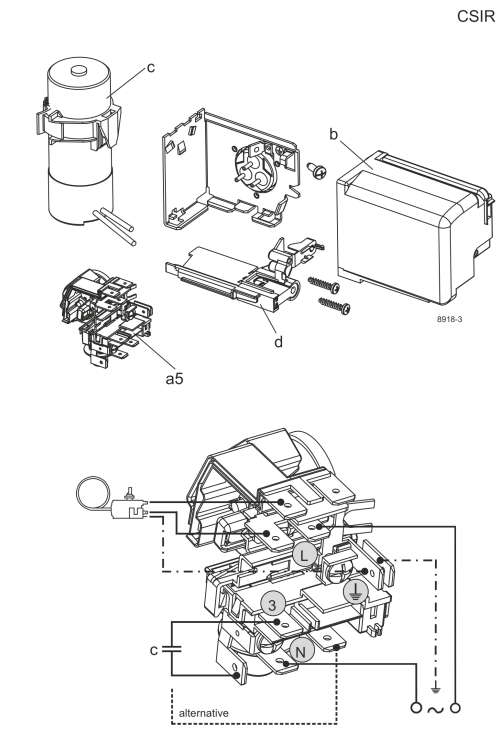
Configuration

Motor configuration	**CSIR**
Power supply (nominal)	**208-230 V/60 Hz 1~**
Refrigerant	**R290**
Application	**LBP+MBP**
Voltage range	**198-253 V**
Starting torque	**HST**
Approvals	**UL, CCC, CB, KC**
Starting device type	**relay**
Run capacitor	**-/-**
Start capacitor	**80 µF**
LRA (locked rotor amps / 4s/ U(N))	**10.3 A**
RLA (rated load amps / 1s/ U(N))	**1.7 A**
Cut in current (U(N))	**15.5 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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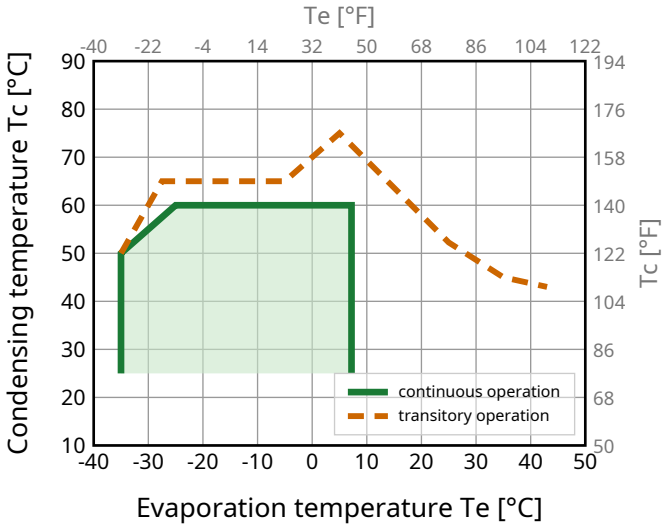
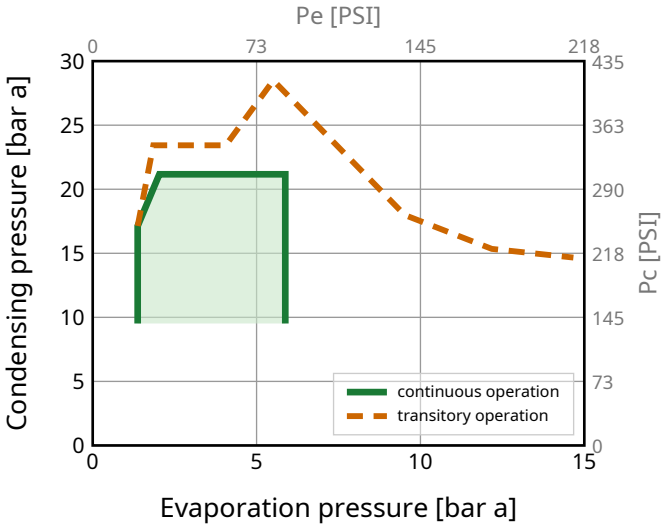
Components
a5 current relay (1218/L6 - S7) 117U7077
c start capacitor (80µF, 6.3mm) 117U5003
b, d cover + clamp + screws (5VA-compl.) 103N0600

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

Operation Pressure Range





Model
KLF5.6CNT Configuration 3

Sales code:
106H2602

Standard Conditions

R290, 230 V/60 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	**334**	1138	287	**1.58**	5.41	210	1.34	3.39	**ASHRAE LBP**
-25 -13	55 131	32 89.6	55 131	**248**	848	214	**1.23**	4.20	202	1.32	3.12	**CECOMAF LBP**
-35 -31	40 104	20 68	40 104	**189**	644	162	**1.21**	4.13	156	1.19	2.17	**EN12900 LBP**
-6.7 20	54.4 129.9	35 95	46.1 115	**604**	2061	519	**2.07**	7.05	292	1.62	6.92	**ASHRAE MBP**
-10 14	55 131	32 89.6	55 131	**478**	1631	411	**1.72**	5.87	278	1.57	6.08	**CECOMAF MBP**
-10 14	45 113	20 68	45 113	**539**	1839	463	**2.08**	7.11	258	1.50	6.63	**EN12900 MBP**

Performance Tables

R290, 230 V/60 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]
-35	-31	**180**	616	155	**1.14**	3.90	158	1.20	2.03
-30	-22	**232**	792	200	**1.31**	4.46	178	1.25	2.62
-20	-4	**371**	1266	319	**1.69**	5.77	219	1.37	4.22
-10	14	**560**	1912	482	**2.17**	7.39	258	1.50	6.43
0	32	**802**	2736	690	**2.78**	9.48	289	1.60	9.32
7.2	45	**1010**	3445	868	**3.36**	11.45	301	1.65	11.88

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

-35	-31	**156**	533	134	**1.02**	3.47	154	1.19	1.94
-30	-22	**196**	670	169	**1.11**	3.79	177	1.25	2.45
-20	-4	**313**	1067	269	**1.37**	4.69	228	1.40	3.94
-10	14	**478**	1631	411	**1.72**	5.87	278	1.57	6.08
0	32	**695**	2371	598	**2.16**	7.37	322	1.73	8.96
7.2	45	**884**	3017	760	**2.56**	8.73	345	1.82	11.55

Model
KLF5.6CNT Configuration 4

Sales code:
106H2602

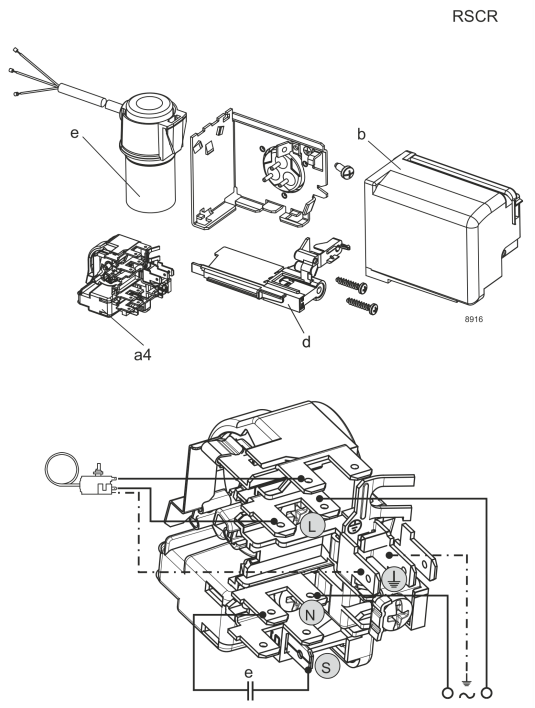
Configuration

Motor configuration	**RSCR**
Power supply (nominal)	**208-230 V/60 Hz 1~**
Refrigerant	**R290**
Application	**LBP+MBP**
Voltage range	**198-253 V**
Starting torque	**LST**
Approvals	**UL, CCC, CB, KC**
Starting device type	**PTC**
Run capacitor	**5 µF**
Start capacitor	**-/-**
LRA (locked rotor amps / 4s/ U(N))	**10.3 A**
RLA (rated load amps / 1s/ U(N))	**1.7 A**
Cut in current (U(N))	**15.5 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

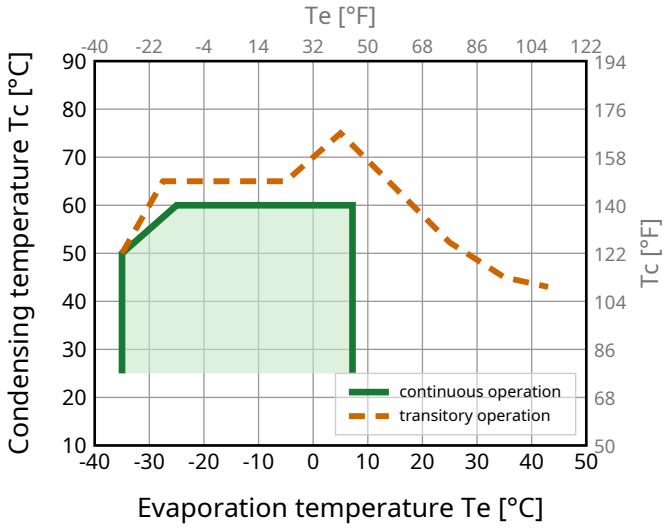


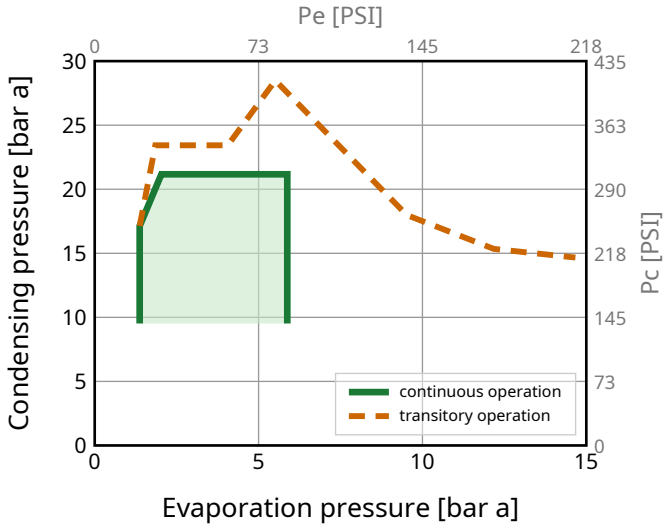
View full size

Components
a4 DAS7 (PTC, 6.3mm, T1218/L6 - S7) 103N0256
e run capacitor (5µF, 6,3mm) 117-7155
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
KLF5.6CNT Configuration 4

Sales code:
106H2602

Standard Conditions

R290, 230 V/60 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	**340**	1161	293	**1.69**	5.75	202	1.04	3.46	**ASHRAE LBP**
-25 -13	55 131	32 89.6	55 131	**254**	865	218	**1.31**	4.47	194	1.01	3.18	**CECOMAF LBP**
-35 -31	40 104	20 68	40 104	**193**	657	166	**1.28**	4.37	150	0.83	2.21	**EN12900 LBP**
-6.7 20	54.4 129.9	35 95	46.1 115	**616**	2103	530	**2.20**	7.50	280	1.38	7.06	**ASHRAE MBP**
-10 14	55 131	32 89.6	55 131	**488**	1664	419	**1.83**	6.24	267	1.32	6.20	**CECOMAF MBP**
-10 14	45 113	20 68	45 113	**550**	1876	473	**2.21**	7.56	248	1.24	6.77	**EN12900 MBP**

Performance Tables

R290, 230 V/60 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]
-35	-31	**184**	628	158	**1.21**	4.14	152	0.84	2.07
-30	-22	**237**	808	204	**1.39**	4.73	171	0.91	2.67
-20	-4	**379**	1292	326	**1.80**	6.13	211	1.08	4.31
-10	14	**572**	1950	492	**2.30**	7.85	248	1.24	6.56
0	32	**818**	2791	704	**2.95**	10.07	277	1.36	9.51
7.2	45	**1030**	3515	886	**3.57**	12.17	289	1.42	12.12

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

-35	-31	**159**	543	137	**1.08**	3.68	148	0.82	1.98
-30	-22	**200**	684	172	**1.18**	4.03	170	0.91	2.50
-20	-4	**319**	1088	274	**1.46**	4.98	218	1.11	4.01
-10	14	**488**	1664	419	**1.83**	6.24	267	1.32	6.20
0	32	**709**	2419	610	**2.30**	7.83	309	1.50	9.14
7.2	45	**902**	3079	776	**2.72**	9.29	331	1.61	11.79