Model
KLE5.6GFTX

Sales code:
106G5603

Compressor Data

Refrigerant(s)	**R134a / R513A**
Refr. charge - tech. limit	**250g / 8.82oz**
Weight	**9.50 kg / 20.94lbs**
Displacement	**5.60 cm3 / 0.34cu.in**
Compressors on pallet	**100**

General – Configurations With KLE5.6GFTX

–	Conf. 1	Conf. 2	Conf. 3	Conf. 4
Motor configuration	CSIR	CSIR	CSIR	CSIR
Power supply (nominal)	220-240 V/50 Hz	208-230 V/60 Hz	220-240 V/50 Hz	208-230 V/60 Hz
Number of phases	1	1	1	1
Voltage range	187-254 V	198-253 V	187-254 V	198-253 V
Approvals	VDE, CB, UL	VDE, CB, UL	VDE, CB, UL	VDE, CB, UL
Starting torque	HST	HST	HST	HST
Refrigerant	R134a	R134a	R513A	R513A
Application	LBP+MBP+HBP	LBP+MBP	LBP+MBP+HBP	LBP+MBP
Hot gas defrost	OK	OK	OK	OK
Long interval pull down	OK	OK	OK	–

Application Notes

- Provision for PE Grounding is located at the PE Stamp on the compressor
- Suctiongas connector and Process connector can be switched (minor loss of cooling capacity)
- Good robustness against liquid intake.
- Ice-cube maker optimization - indirect suction intake.

Model
KLE5.6GFTX

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Compressor Design

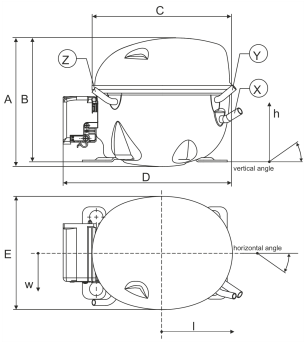
Oil type	**POE**	Winding resistance main	**10.7 Ohm**
Oil viscosity	**19,2cSt**	Winding resistance aux	**17 Ohm**
Oil quantity	**240 / 8.12fl.oz**	Max. winding temp.	**125 °C**
Free gas volume comp.	**1,535 cm3 / 51.90fl.oz**	Max. discharge temp.	**130°C / 266°F**
Motor protection	**external**		

Compressor Dimensions

Housing

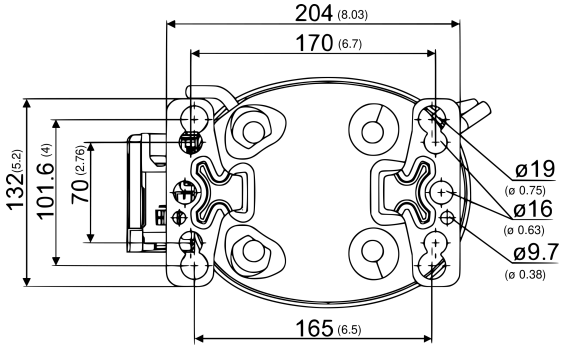
A Height	**182mm / 7.17in**
B Height	**175mm / 6.89in**
C Length shell	**198mm / 7.80in**
D Length w. cover	**238mm / 9.37in**
E Width	**160mm / 6.30in**

Find 3D Model here



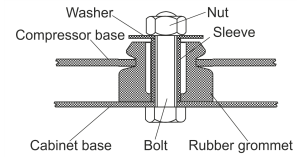
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 8.11–8.29 / 0.32–0.33in	øi 6.11–6.29 / 0.24–0.25in	øi 6.11–6.29 / 0.24–0.25in
Material	CU	CU	CU
Horizontal angle ±2°	35°	13°	0°
Vertical angle ±2°	30°	40°	145°
Position l/h/w [mm]	119/73/59 / 4.69/2.87/2.32in	117/107/66 / 4.61/4.21/2.60in	-88/101/71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

Mounting Accessories

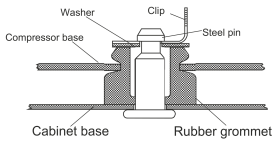


Dimensions in mm [in]

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
KLE5.6GFTX Configuration 1

Sales code:
106G5603

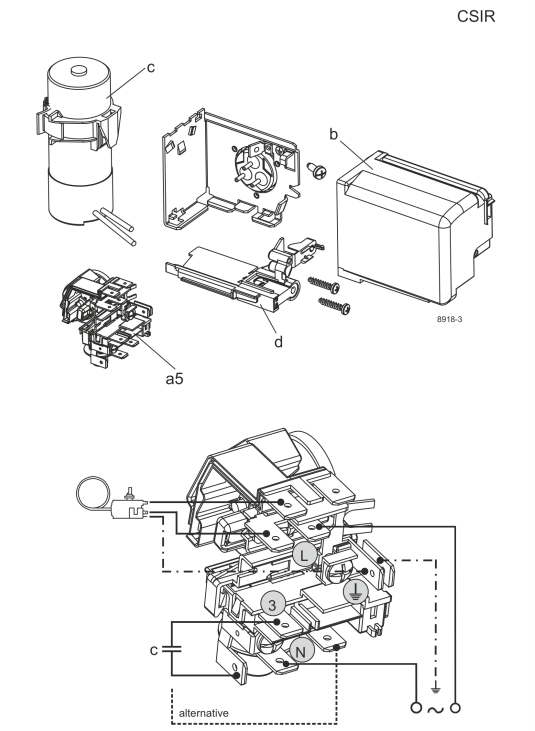
Configuration

Motor configuration	**CSIR**
Power supply (nominal)	**220-240 V/50 Hz 1~**
Refrigerant	**R134a**
Application	**LBP+MBP+HBP**
Voltage range	**187-254 V**
Starting torque	**HST**
Approvals	**VDE, CB, UL**
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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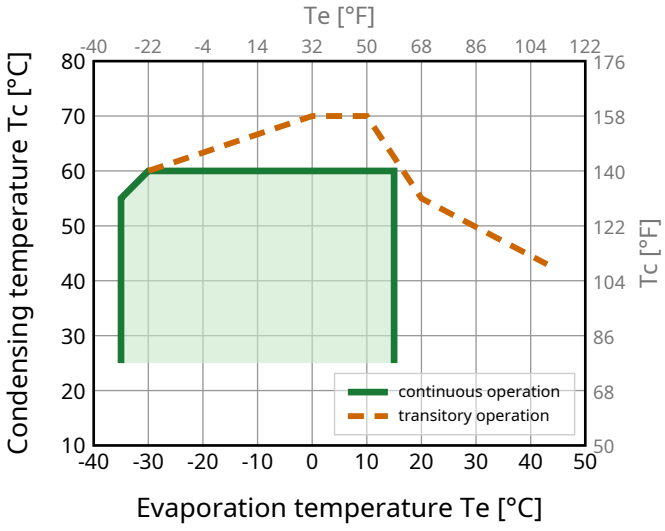
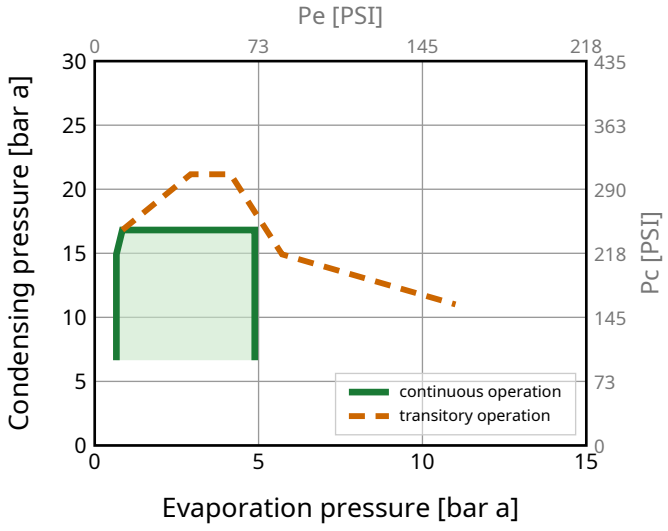
Components
a5 current relay (T0089/L6-S2) 117U7070
c start capacitor (80µF, 6.3mm) 117U5001
b, d cover + clamp + screws (5VA-compl.) 103N0600

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

Operation Pressure Range





Model

KLE5.6GFTX Configuration 1

Sales code:

106G5603

Standard Conditions

R134a, 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	**156**	534	135	**1.32**	4.50	119	1.22	3.04	**ASHRAE LBP**
-6.7 20	54.4 129.9	35 95	46.1 115	**335**	1142	288	**1.92**	6.53	175	1.37	7.29	**ASHRAE MBP**
7.2 45	54.4 129.9	35 95	46.1 115	**600**	2049	516	**2.73**	9.33	220	1.53	13.29	**ASHRAE HBP**
-35 -31	40 104	20 68	40 104	**82**	278	70	**0.98**	3.36	83	1.15	1.78	**EN12900 LBP**
-10 14	45 113	20 68	45 113	**290**	990	250	**1.93**	6.57	151	1.30	6.77	**EN12900 MBP**
5 41	50 122	20 68	50 122	**514**	1754	442	**2.53**	8.63	203	1.47	12.89	**EN12900 HBP**

Performance Tables

R134a, 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	**77**	262	66	**0.93**	3.18	82	1.15	1.65
-30	-22	**101**	345	87	**1.05**	3.60	96	1.17	2.18
-20	-4	**179**	611	154	**1.45**	4.96	123	1.23	3.88
-10	14	**301**	1026	259	**1.99**	6.80	151	1.30	6.57
0	32	**471**	1606	405	**2.64**	8.99	178	1.38	10.38
10	50	**694**	2368	597	**3.37**	11.48	206	1.48	15.54
15	59	**828**	2824	712	**3.76**	12.84	220	1.54	18.70

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

-35	-31	**63**	215	54	**0.81**	2.78	77	1.13	1.49
-30	-22	**85**	289	73	**0.89**	3.04	95	1.17	2.02
-20	-4	**153**	523	132	**1.18**	4.02	130	1.25	3.66
-10	14	**259**	883	222	**1.57**	5.37	164	1.34	6.24
0	32	**406**	1387	350	**2.06**	7.02	198	1.45	9.91
10	50	**602**	2052	517	**2.62**	8.93	230	1.57	14.90
15	59	**718**	2451	618	**2.93**	9.99	245	1.64	17.98

Model

KLE5.6GFTX Configuration 2

Sales code:

106G5603

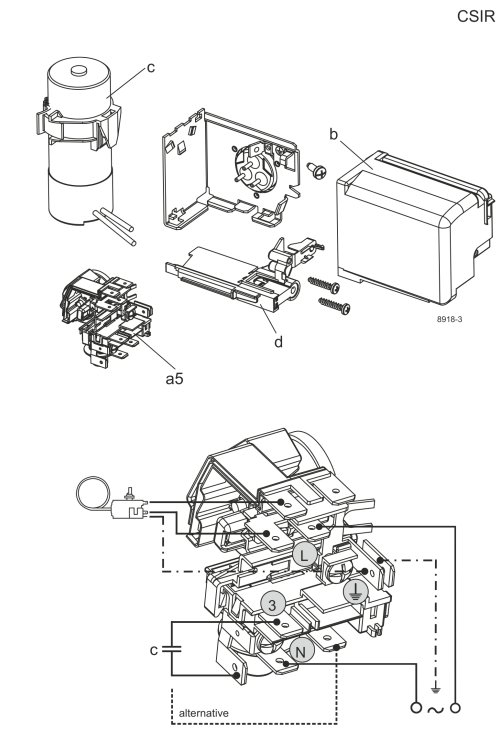
Configuration

Motor configuration	**CSIR**
Power supply (nominal)	**208-230 V/60 Hz 1~**
Refrigerant	**R134a**
Application	**LBP+MBP**
Voltage range	**198-253 V**
Starting torque	**HST**
Approvals	**VDE, CB, UL**
Starting device type	**relay**
Run capacitor	**-/-**
Start capacitor	**80 µF**
RLA (rated load amps / 1s/ U(N))	**-/-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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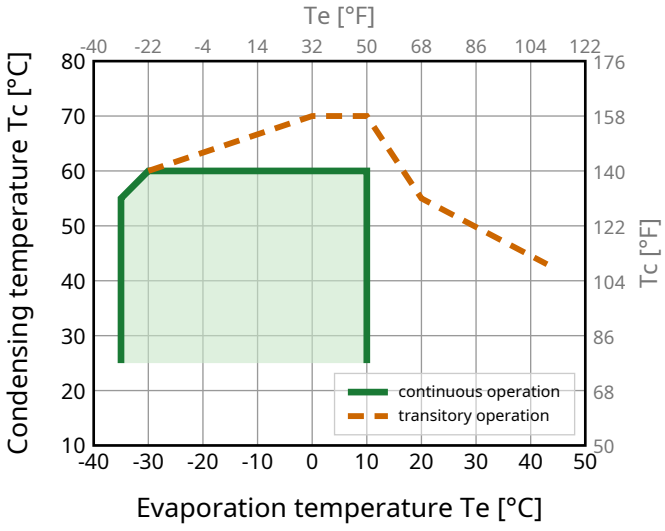
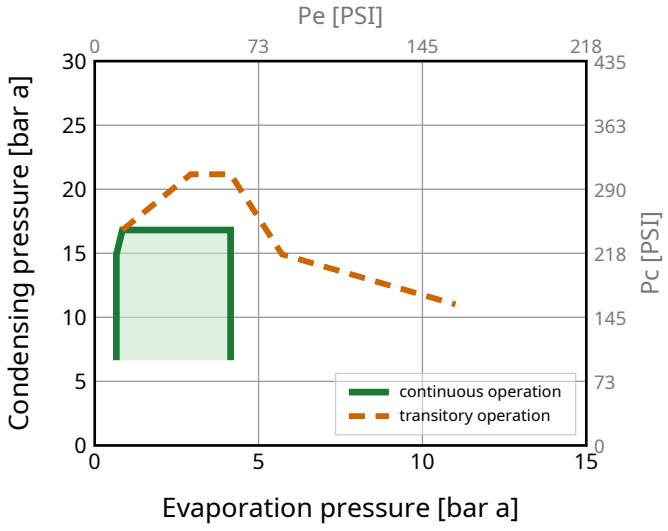
Components
a5 current relay (T0089/L6-S2) 117U7070
c start capacitor (80µF, 6.3mm) 117U5001
b, d cover + clamp + screws (5VA-compl.) 103N0600

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

Operation Pressure Range





Model

KLE5.6GFTX Configuration 2

Sales code:

106G5603

Standard Conditions

R134a, 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	**193**	658	166	**1.37**	4.68	140	1.18	3.74	**ASHRAE LBP**
-6.7 20	54.4 129.9	35 95	46.1 115	**396**	1350	340	**1.95**	6.64	203	1.35	8.61	**ASHRAE MBP**
7.2 45	54.4 129.9	35 95	46.1 115	**702**	2395	604	**2.72**	9.29	258	1.53	15.53	**ASHRAE HBP**
-35 -31	40 104	20 68	40 104	**99**	338	85	**1.07**	3.66	92	1.09	2.17	**EN12900 LBP**
-10 14	45 113	20 68	45 113	**341**	1165	294	**1.92**	6.54	178	1.27	7.96	**EN12900 MBP**
5 41	50 122	20 68	50 122	**599**	2045	515	**2.48**	8.47	242	1.47	15.03	**EN12900 HBP**

Performance Tables

R134a, 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	**92**	315	79	**1.01**	3.45	91	1.08	1.99
-30	-22	**124**	425	107	**1.14**	3.87	110	1.11	2.69
-20	-4	**216**	738	186	**1.50**	5.11	144	1.19	4.69
-10	14	**354**	1206	304	**1.99**	6.78	178	1.27	7.72
0	32	**548**	1868	471	**2.57**	8.78	213	1.38	12.08
10	50	**809**	2760	696	**3.23**	11.01	251	1.50	18.11
15	59	**968**	3303	833	**3.57**	12.17	272	1.57	21.87

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

-35	-31	**72**	246	62	**0.78**	2.66	93	1.08	1.71
-30	-22	**104**	353	89	**0.91**	3.10	114	1.12	2.46
-20	-4	**187**	639	161	**1.22**	4.16	154	1.21	4.48
-10	14	**308**	1051	265	**1.61**	5.48	192	1.31	7.43
0	32	**476**	1625	410	**2.07**	7.07	230	1.43	11.62
10	50	**703**	2400	605	**2.60**	8.88	270	1.57	17.43
15	59	**842**	2874	724	**2.88**	9.84	292	1.65	21.08

Model
KLE5.6GFTX Configuration 3

Sales code:
106G5603

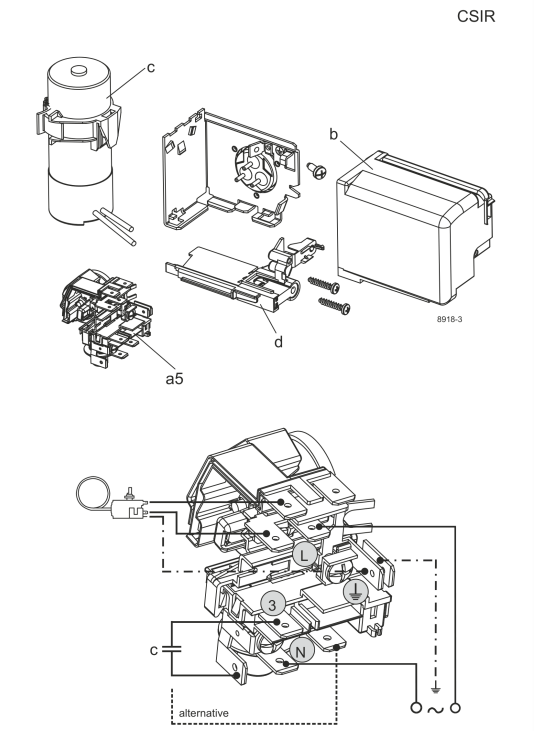
Configuration

Motor configuration	**CSIR**
Power supply (nominal)	**220-240 V/50 Hz 1~**
Refrigerant	**R513A**
Application	**LBP+MBP+HBP**
Voltage range	**187-254 V**
Starting torque	**HST**
Approvals	**VDE, CB, UL**
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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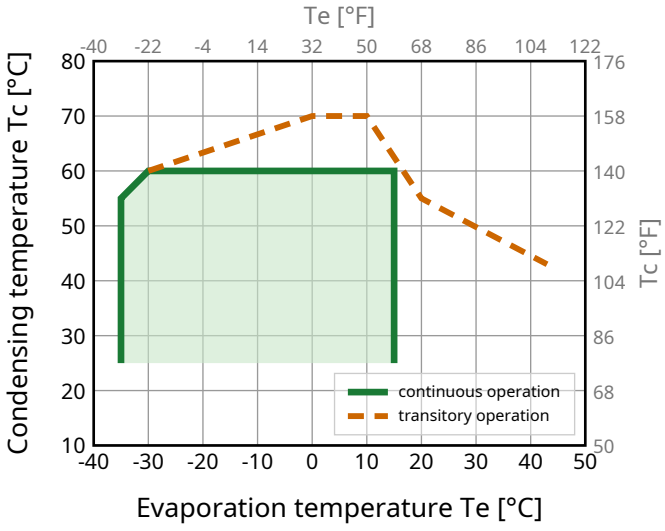
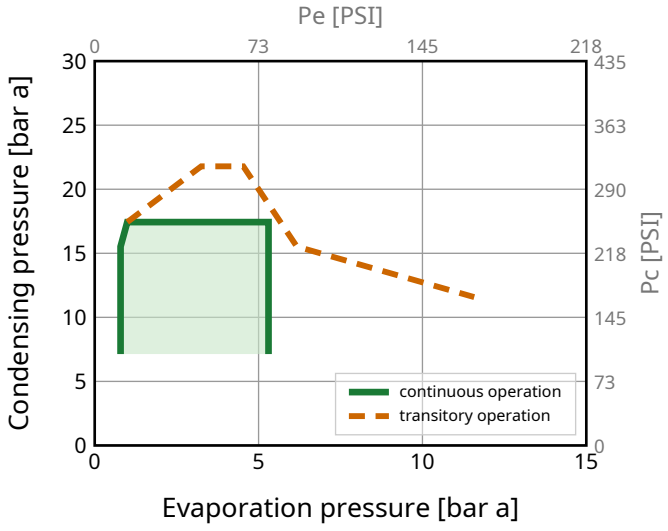
Components
a5 current relay (T0089/L6-S2) 117U7070
c start capacitor (80µF, 6.3mm) 117U5001
b, d cover + clamp + screws (5VA-compl.) 103N0600

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

Operation Pressure Range





Model

KLE5.6GFTX Configuration 3

Sales code:

106G5603

Standard Conditions

R513A, 240 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	**180**	616	155	**1.40**	4.76	129	1.02	3.95	**ASHRAE LBP**
-6.7 20	54.4 129.9	35 95	46.1 115	**352**	1200	302	**1.90**	6.49	185	1.17	8.77	**ASHRAE MBP**
7.2 45	54.4 129.9	35 95	46.1 115	**617**	2104	530	**2.66**	9.09	232	1.32	15.67	**ASHRAE HBP**
-35 -31	40 104	20 68	40 104	**90**	309	78	**1.01**	3.46	89	0.94	2.27	**EN12900 LBP**
-10 14	45 113	20 68	45 113	**302**	1031	260	**1.89**	6.45	160	1.09	8.19	**EN12900 MBP**
5 41	50 122	20 68	50 122	**513**	1751	441	**2.41**	8.23	213	1.26	15.13	**EN12900 HBP**

Performance Tables

R513A, 240 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	**85**	291	73	**0.95**	3.23	90	0.94	2.10
-30	-22	**117**	399	100	**1.12**	3.81	105	0.97	2.88
-20	-4	**199**	680	171	**1.50**	5.12	133	1.03	4.95
-10	14	**317**	1082	273	**1.99**	6.77	160	1.09	7.94
0	32	**482**	1644	414	**2.59**	8.82	186	1.17	12.20
10	50	**704**	2404	606	**3.31**	11.31	213	1.25	18.14
15	59	**841**	2871	724	**3.73**	12.72	226	1.30	21.90

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

-35	-31	**66**	227	57	**0.74**	2.54	89	0.94	1.83
-30	-22	**96**	326	82	**0.90**	3.06	107	0.97	2.64
-20	-4	**169**	576	145	**1.20**	4.08	141	1.05	4.69
-10	14	**271**	924	233	**1.55**	5.29	175	1.14	7.60
0	32	**413**	1409	355	**1.98**	6.76	209	1.24	11.75
10	50	**607**	2072	522	**2.50**	8.54	243	1.36	17.60
15	59	**728**	2482	626	**2.80**	9.54	260	1.42	21.33

Model
KLE5.6GFTX Configuration 4

Sales code:
106G5603

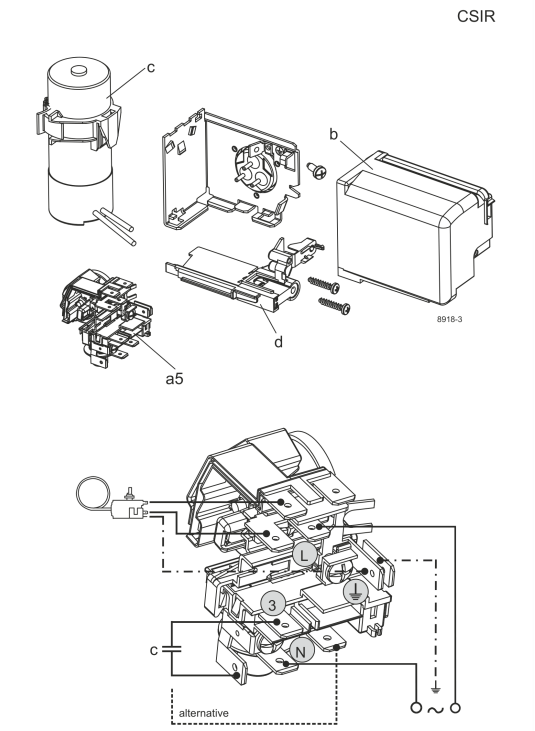
Configuration

Motor configuration	**CSIR**
Power supply (nominal)	**208-230 V/60 Hz 1~**
Refrigerant	**R513A**
Application	**LBP+MBP**
Voltage range	**198-253 V**
Starting torque	**HST**
Approvals	**VDE, CB, UL**
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

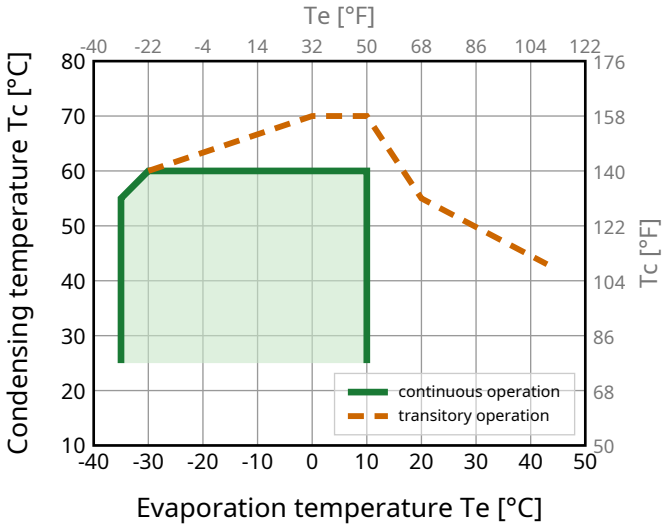


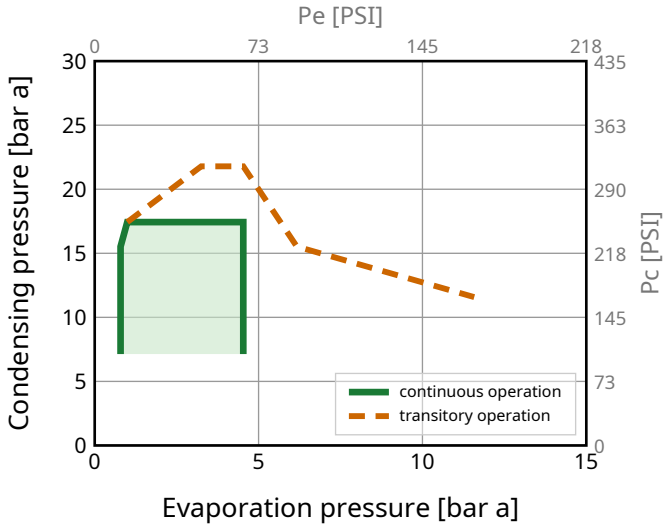
View full size

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

KLE5.6GFTX Configuration 4

Sales code:

106G5603

Standard Conditions

R513A, 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	**213**	725	183	**1.44**	4.90	148	1.17	4.65	**ASHRAE LBP**
-6.7 20	54.4 129.9	35 95	46.1 115	**412**	1407	355	**1.90**	6.48	217	1.41	10.28	**ASHRAE MBP**
7.2 45	54.4 129.9	35 95	46.1 115	**722**	2464	621	**2.62**	8.93	276	1.64	18.35	**ASHRAE HBP**
-35 -31	40 104	20 68	40 104	**107**	365	92	**1.06**	3.62	101	1.01	2.69	**EN12900 LBP**
-10 14	45 113	20 68	45 113	**354**	1209	305	**1.90**	6.47	187	1.30	9.59	**EN12900 MBP**
5 41	50 122	20 68	50 122	**601**	2050	517	**2.37**	8.10	253	1.55	17.72	**EN12900 HBP**

Performance Tables

R513A, 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	**101**	346	87	**1.00**	3.40	102	1.01	2.50
-30	-22	**138**	470	119	**1.16**	3.97	118	1.07	3.40
-20	-4	**234**	798	201	**1.53**	5.24	152	1.19	5.80
-10	14	**372**	1268	320	**1.99**	6.79	187	1.30	9.30
0	32	**564**	1924	485	**2.56**	8.72	221	1.43	14.29
10	50	**824**	2810	708	**3.25**	11.10	253	1.55	21.21
15	59	**982**	3352	845	**3.66**	12.48	269	1.62	25.57

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

-35	-31	**81**	275	69	**0.79**	2.71	102	1.01	2.22
-30	-22	**114**	389	98	**0.94**	3.21	121	1.08	3.15
-20	-4	**198**	677	171	**1.23**	4.18	162	1.22	5.51
-10	14	**318**	1083	273	**1.55**	5.31	204	1.37	8.91
0	32	**484**	1652	416	**1.96**	6.68	247	1.52	13.77
10	50	**711**	2426	611	**2.45**	8.37	290	1.69	20.60
15	59	**851**	2903	732	**2.74**	9.34	311	1.78	24.95