Single
Packs

Single Pack KLE5.6GFTX 220-240V 50Hz / 208-230V 60Hz CSIR

Single pack code number: **195B4760**

Position	Title	Code	Amount
1	Compressor KLE5.6GFTX	106G5603	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
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

Sales code:
106G5603

Compressor Design

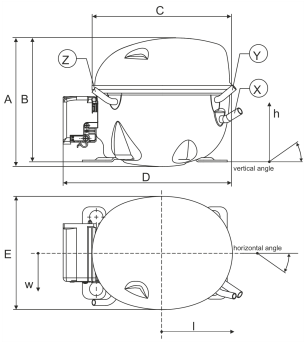
Oil type	**POE**	Winding resistance main	**10.7 Ohm**
Oil viscosity	**19,2cSt**	Winding resistance aux	**17 Ohm**
Oil quantity	**240 / 8.12fl.oz**	Max. winding temp.	**125 °C**
Free gas volume comp.	**1,535 cm3 / 51.90fl.oz**	Max. discharge temp.	**130°C / 266°F**
Motor protection	**external**		

Compressor Dimensions

Housing

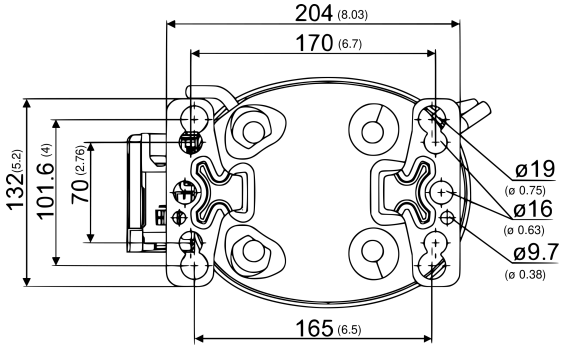
A Height	**182mm / 7.17in**
B Height	**175mm / 6.89in**
C Length shell	**198mm / 7.80in**
D Length w. cover	**238mm / 9.37in**
E Width	**160mm / 6.30in**

Find 3D Model here



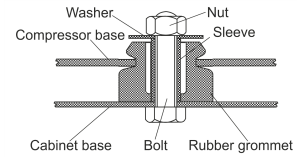
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 8.11–8.29 / 0.32–0.33in	øi 6.11–6.29 / 0.24–0.25in	øi 6.11–6.29 / 0.24–0.25in
Material	CU	CU	CU
Horizontal angle ±2°	35°	13°	0°
Vertical angle ±2°	30°	40°	145°
Position l/h/w [mm]	119/73/59 / 4.69/2.87/2.32in	117/107/66 / 4.61/4.21/2.60in	-88/101/71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

Mounting Accessories

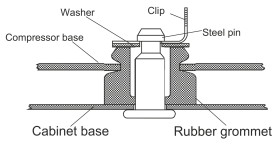


Dimensions in mm [in]

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

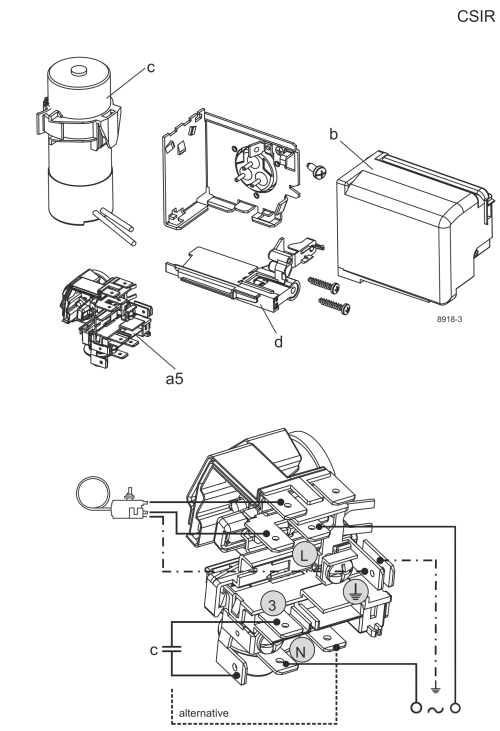
Configuration

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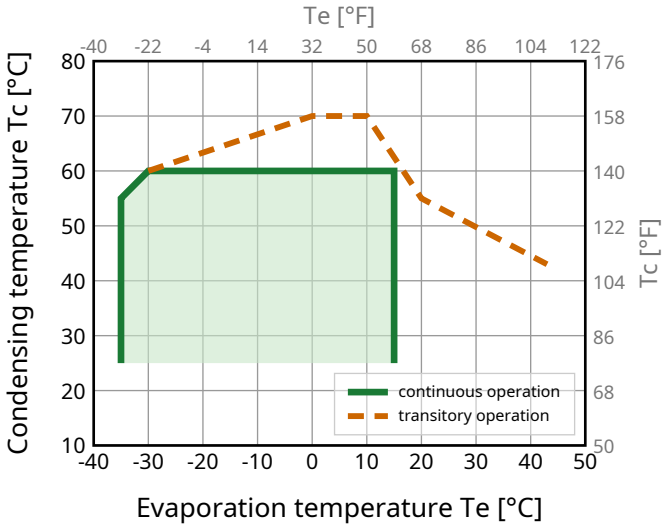
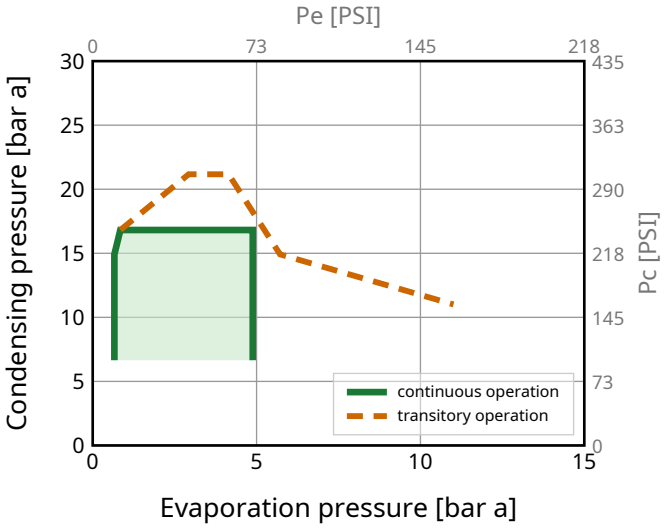
Components
a5 current relay (T0089/L6-S2) 117U7070
c start capacitor (80µF, 6.3mm) 117U5001
b, d cover + clamp + screws (5VA-compl.) 103N0600

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

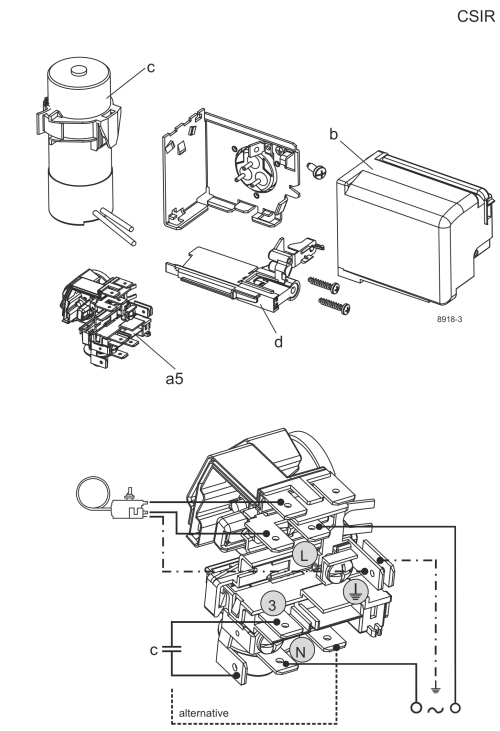
Configuration

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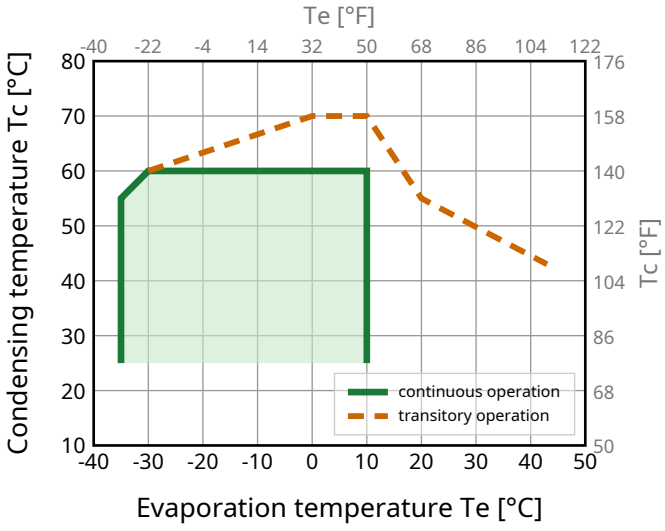
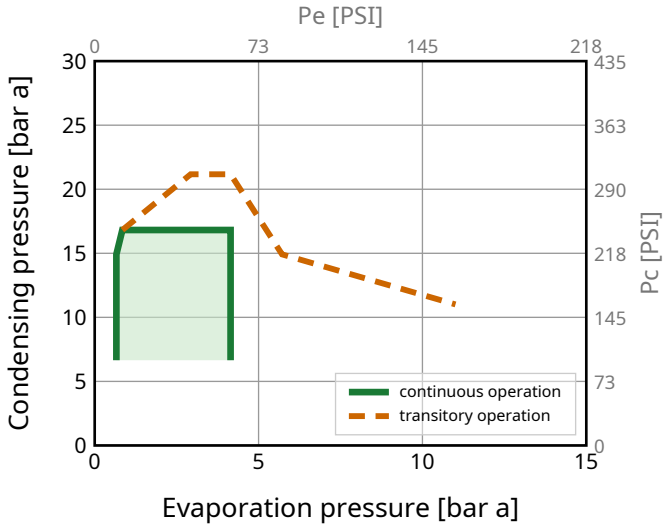
Components
a5 current relay (T0089/L6-S2) 117U7070
c start capacitor (80µF, 6.3mm) 117U5001
b, d cover + clamp + screws (5VA-compl.) 103N0600

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

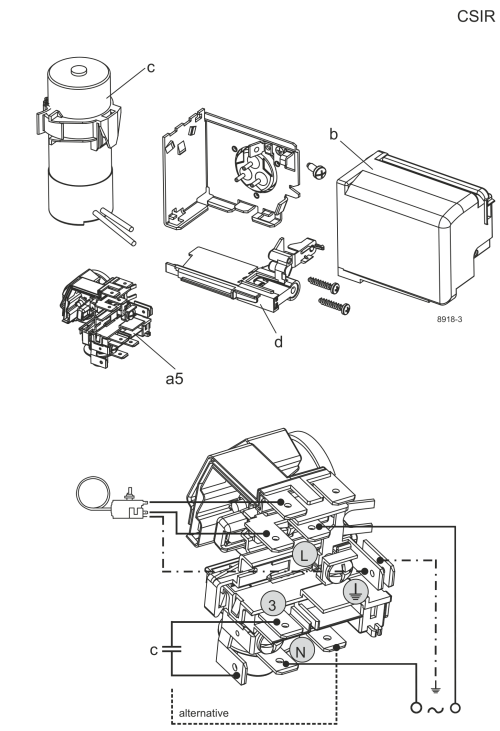
Configuration

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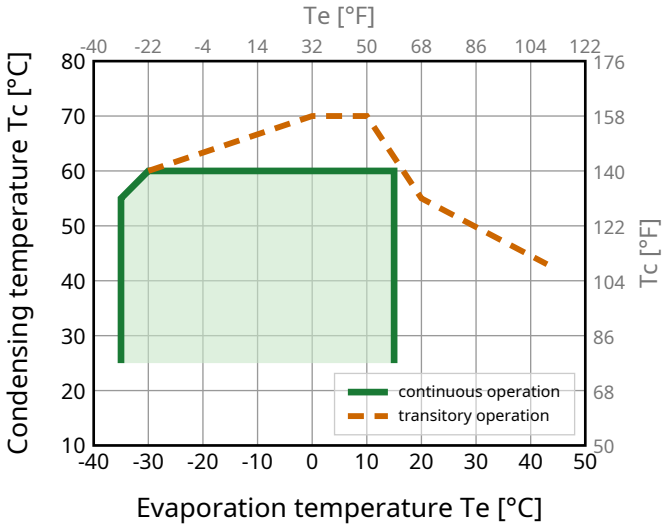
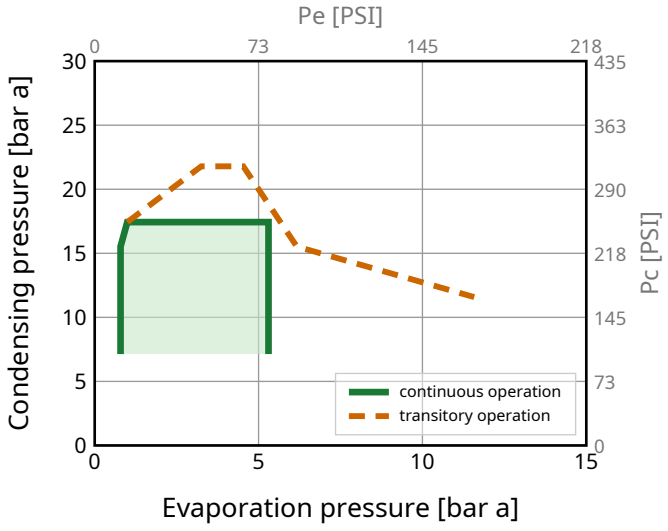
Components
a5 current relay (T0089/L6-S2) 117U7070
c start capacitor (80µF, 6.3mm) 117U5001
b, d cover + clamp + screws (5VA-compl.) 103N0600

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

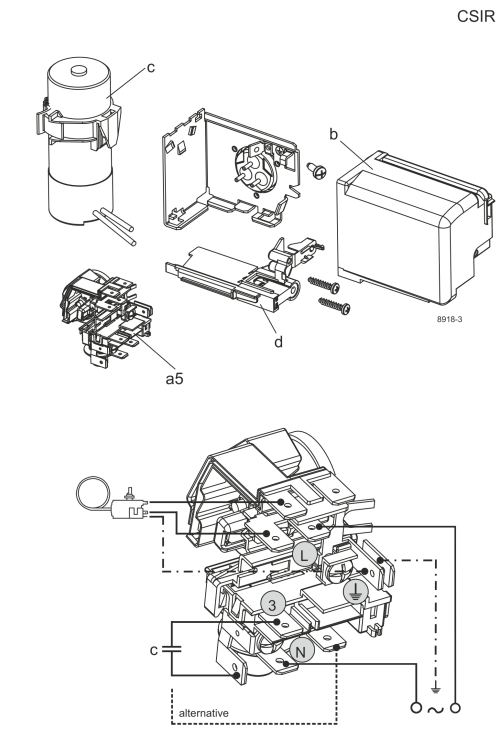
Configuration

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



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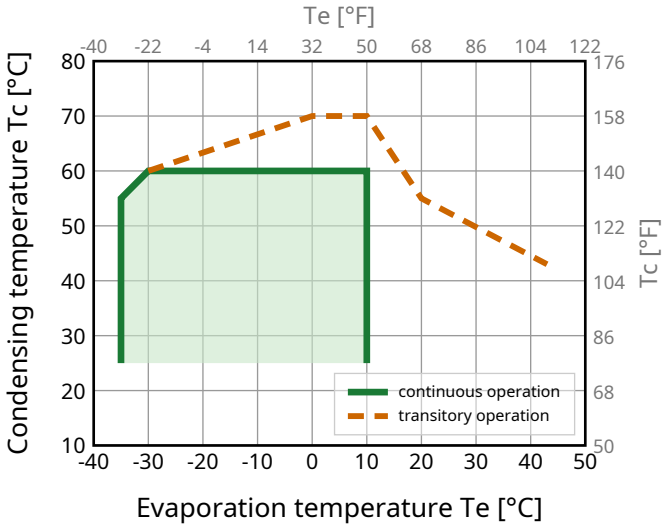
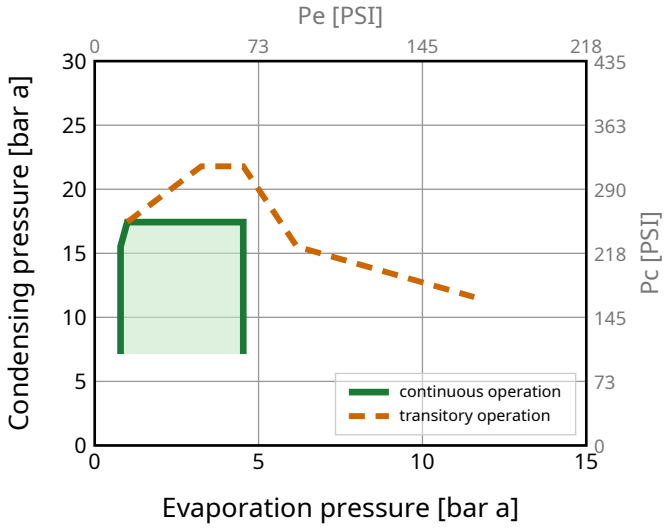
Components
a5 current relay (T0089/L6-S2) 117U7070
c start capacitor (80µF, 6.3mm) 117U5001
b, d cover + clamp + screws (5VA-compl.) 103N0600

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 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

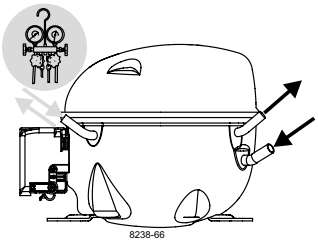
R513A, 230 V/60 Hz, CSIR, fan 3m/s

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



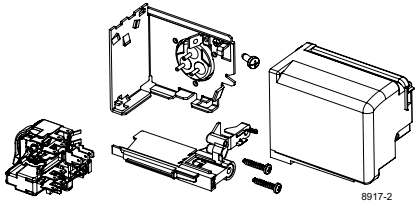
KL Compressors

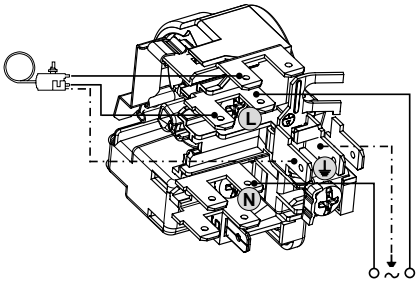
SECOP

Keep electrical equipment clear from oil, chemicals, and water

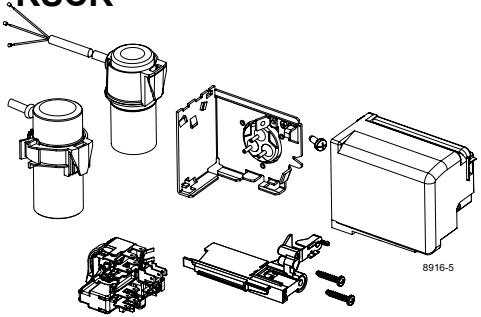
When operated with a flammable refrigerant, only spark-proof starting equipment is allowed.

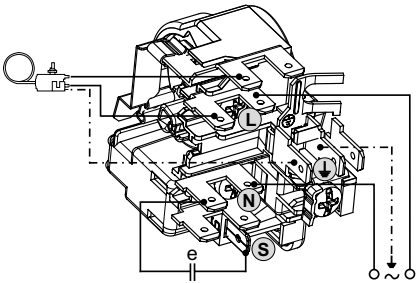
RSIR



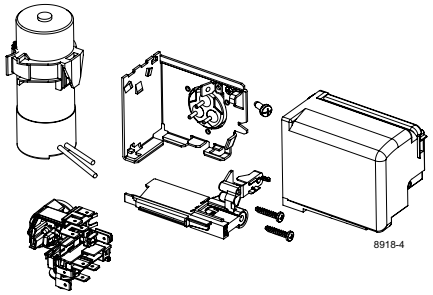


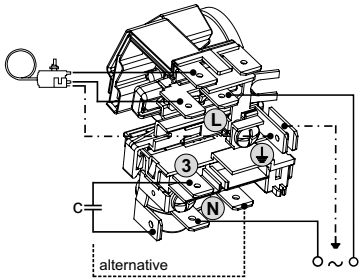
RSCR

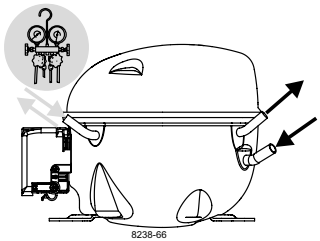




CSIR







KL Compressors

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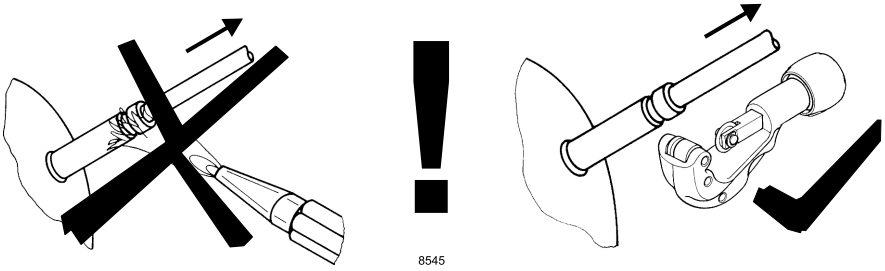
Service/Repair – R290, R600a, R170, R1270, R1234yf

(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**