

Single Pack KLE4.0GFTX 220-240V 50Hz / 208-230V 60Hz LS CSIR

Single pack code number: **195B4817**

Position	Title	Code	Amount
1	Compressor KLE4.0GFTX	106G5408	1
2	Starting relay (QLZ-4.6A, overload protector T1189/L6)	117U7073	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

Designation	KLE4.0GFTX	220-240V/50Hz 1~ 208-230V/60Hz 1~	Sales code:	106G5408
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Compressor design

Oil type	Polyolester	Refrigerant(s)	R134a, R513A
Oil viscosity	19,2cSt	Displacement	4cm ³ / 0,24cu.in
Oil quantity	240cm ³ / 8,1fl.oz	Compressors on pallet	100
Refr. charge - tech. limit	250g / 8,8oz		
Free gas volume comp.	1560cm ³ / 52,7fl.oz		
Weight	8,9kg / 19,6lbs		
Motor protection	external		
Winding resistance main	13,1Ω (at 25°C)		
Winding resistance aux	25,3Ω (at 25°C)		
Max. winding temp.	125°C / 257°F		
Max. discharge temp.	130°C / 266°F		
Additional note	Good robustness against liquid intake. Ice-cube maker optimization - indirect suction intake.		



General - Configurations with KLE4.0GFTX

	Conf. 1	Conf. 2
Motor configuration	CSIR	CSIR
Power supply (nominal)	220-240V/50Hz	208-230V/60Hz
Number of phases	1	1
Voltage range	187-254V	198-253V
Approvals	VDE, CB, UL	VDE, CB, UL
Starting torque	HST	HST
Note	Compressor with low height version.	

Applications with KLE4.0GFTX

	Conf. 1	Conf. 2
Refrigerant	R134a	R134a
Application	LBP+MBP+HBP	LBP+MBP
System cooling	static	static
Hot gas defrost	OK	OK
Long interval pull down	OK	OK

Electrical data - Configurations with KLE4.0GFTX

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

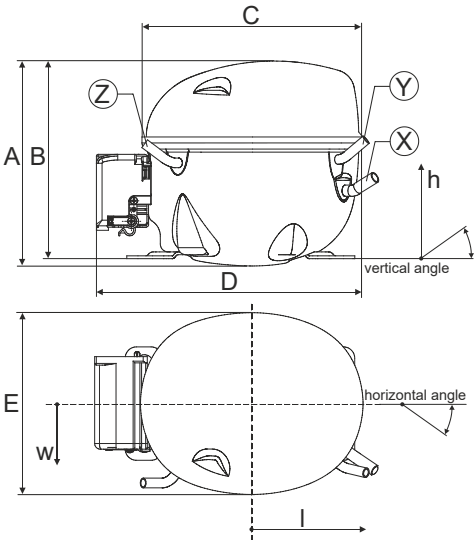
Model

Designation	KLE4.0GFTX	220-240V/50Hz 1~ 208-230V/60Hz 1~	Sales code:	106G5408
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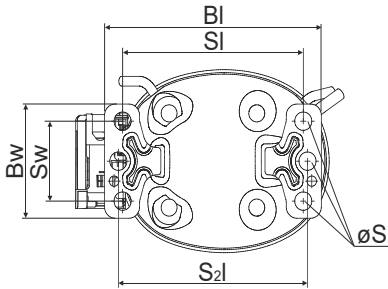
Compressor dimensions

Housing	A Height	174mm / 6,85in
	B Height	167mm / 6,57in
	C Length shell	194mm / 7,64in
	D Length w. cover	235,1mm / 9,26in
	E Width	151mm / 5,94in

Connectors	Suction X	Discharge Y	Process 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	114/107/63	-87/101/71
	[in] 4,7/2,9/2,3	4,5/4,2/2,5	-3,4/4/2,8
Straight tube l.	[mm] 14	14	14
	[in] 0,5	0,5	0,5

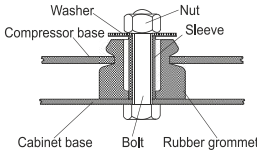


Compressor fixation

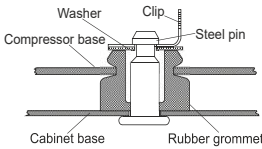


Baseplate	[mm]	[inch]
BI	204	8.03
Bw	100	3.94
Small holes		
SI	170	6.7
Sw	70	2.76
S2l	178	7
øS	ø 16	ø 0.63

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

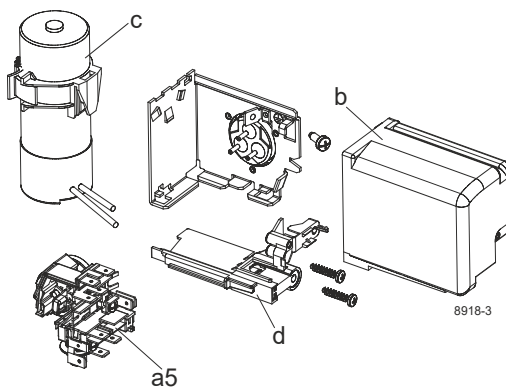
Designation	KLE4.0GFTX	220-240V/50Hz	Conf. 1	Sales code:	106G5408
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Configuration

Motor configuration	CSIR
Power supply (nominal)	220-240V/50Hz 1~
Refrigerant	R134a
Application	LBP+MBP+HBP
Voltage range	187-254V
Starting torque	HST
Approvals	VDE
	CB
	UL

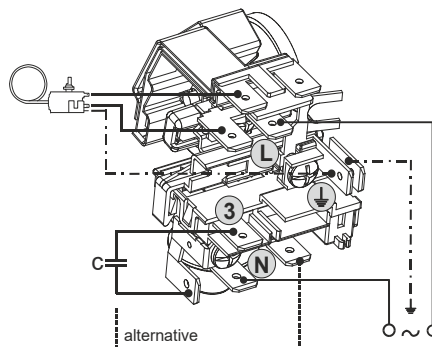
Electrical accessories / wiring diagram

CSIR

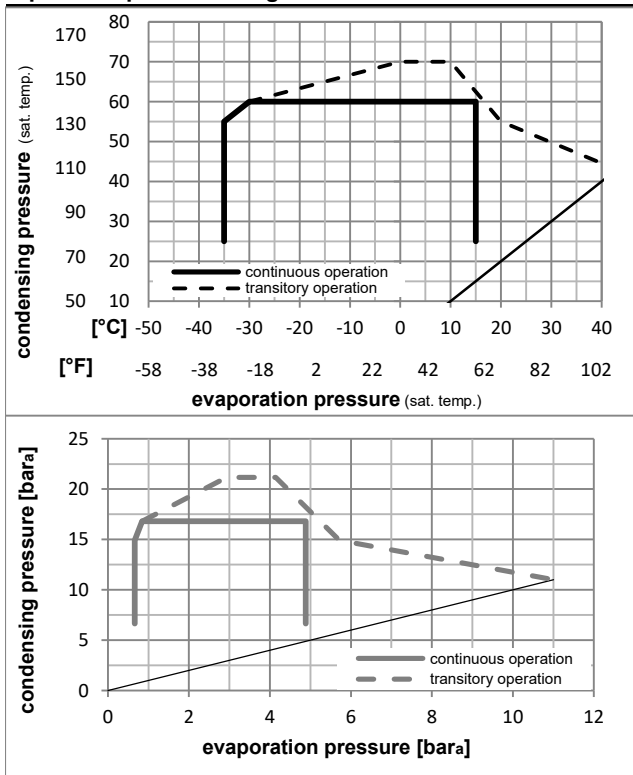


Ambient/ machine room temperatures minimum /maximum

Ambient temperature range:	10 - 43°C / 50 - 110°F
Machine room temperature range:	10 - 48°C / 50 - 119°F
Compressor cooling:	static



Operation pressure range



Components

a5	current relay (T1189/L6-S3)	117U7073
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 **KLE4.0GFTX** **220-240V/50Hz** Conf. 1 Sales code: **106G5408**

Optimization + standard conditions

R134a, 220V/50Hz, CSIR, static, VDE, CB, UL

Evaporating pressure (saturation temperature)					Condensing pressure (saturation temperature)						Power consumption																																																																			
Return gas temp.					Current consumption						Ref. mass flow																																																																			
Liquid temp.					Cooling capacity						COP				EER				P1				I				m																																																			
pe					pc					RGT					Tliq					[W]					[Btu/h]					[kcal/h]					[W/W]					[Btu/Wh]					[kcal/Wh]					[W]					[A]					[kg/h]																		
[°C]					-23	54	32	32	101,4					346					87,3					1,14					3,90					0,98					88,8					1,15					1,97					ASHRAE LBP																								
[°F]					-10	130	90	90																																																																						
[°C]					-7	54	35	46	221,7					757					190,8					1,77					6,03					1,52					125,5					1,23					4,84					ASHRAE MBP																								
[°F]					20	130	95	115																																																																						
[°C]					7,2	54	35	46	398,3					1360					342,8					2,58					8,81					2,22					154,4					1,31					8,84					ASHRAE HBP																								
[°F]					45	130	95	115																																																																						
[°C]					-35	40	20	40	46,0					157					39,6					0,72					2,47					0,62					63,5					1,10					1,01					EN12900 LBP																								
[°F]					-31	104	68	104																																																																						
[°C]					-10	45	20	45	191,3					653					164,6					1,74					5,93					1,49					110,1					1,20					4,48					EN12900 MBP																								
[°F]					14	113	68	113																																																																						
[°C]					5	50	20	50	339,4					1159					292,1					2,36					8,07					2,03					143,6					1,28					8,55					EN12900 HBP																								
[°F]					41	122	68	122																																																																						

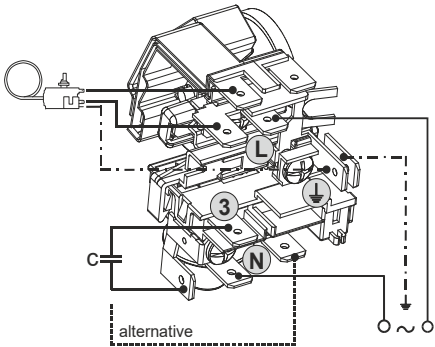
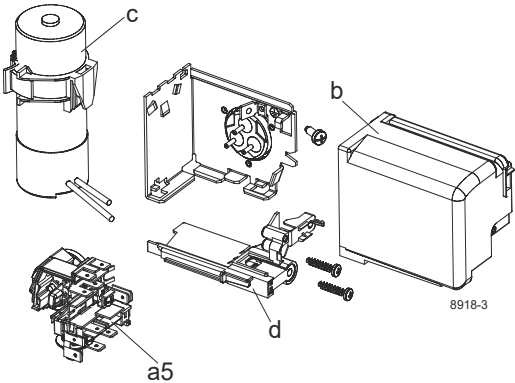
Performance tables

R134a, 220V/50Hz, CSIR, static, VDE, CB, UL

	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	43,4	148	37,4	0,69	2,34	0,59	63,3	1,10	0,94
cond. pressure	-25	-13	86,8	296	74,7	1,05	3,57	0,90	82,9	1,14	1,88
pc= 45/113	-15	5	154,2	527	132,7	1,52	5,20	1,31	101,2	1,18	3,36
return gas temp.	-10	14	198,5	678	170,8	1,80	6,15	1,55	110,1	1,20	4,34
RGT= 32/90	0	32	310,9	1062	267,6	2,43	8,31	2,09	127,7	1,24	6,88
liquid temp	5	41	380,4	1299	327,4	2,78	9,51	2,40	136,6	1,26	8,47
Tliq= 45/113	15	59	548,6	1874	472,1	3,54	12,09	3,05	154,9	1,31	12,43
[°C / °F]	-35	-31	35,4	121	30,5	0,59	2,01	0,51	60,0	1,10	0,84
cond. pressure	-25	-13	73,8	252	63,5	0,87	2,97	0,75	84,9	1,15	1,76
pc= 55/131	-15	5	132,4	452	114,0	1,23	4,19	1,06	107,8	1,19	3,19
return gas temp	-10	14	170,8	583	147,0	1,44	4,91	1,24	118,8	1,22	4,13
RGT= 32/90	0	32	268,7	918	231,3	1,92	6,55	1,65	140,0	1,27	6,57
liquid temp	5	41	329,4	1125	283,5	2,19	7,48	1,88	150,5	1,30	8,12
Tliq= 55/131	15	59	477,3	1630	410,8	2,78	9,50	2,40	171,5	1,36	11,99

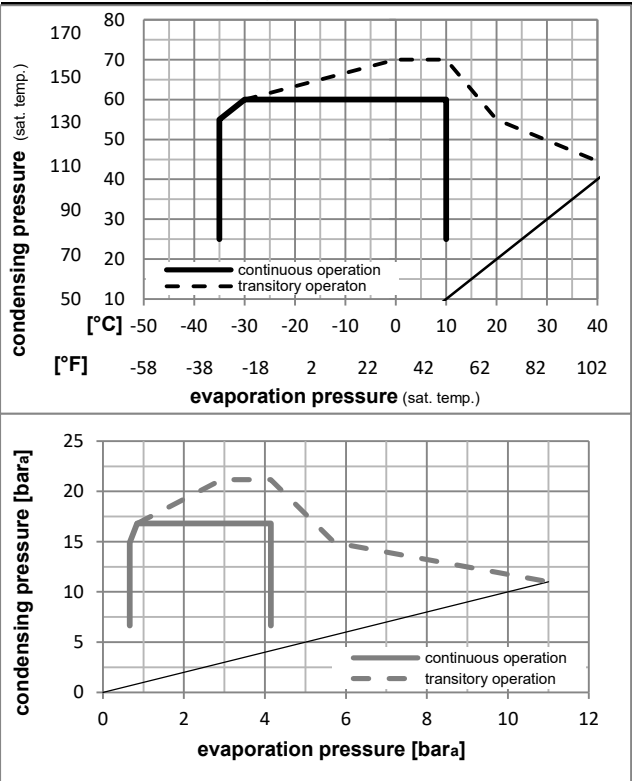
Model				
Designation	KLE4.0GFTX	208-230V/60Hz	Conf. 2	Sales code: 106G5408

Configuration		Electrical accessories / wiring diagram	
Motor configuration	CSIR	CSIR	
Power supply (nominal)	208-230V/60Hz 1~		
Refrigerant	R134a		
Application	LBP+MBP		
Voltage range	198-253V		
Starting torque	HST		
Approvals	VDE		
	CB		
	UL		



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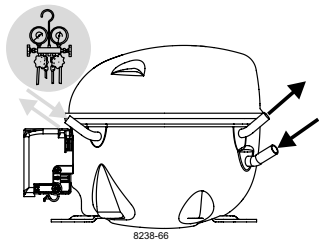
Model

Designation **KLE4.0GFTX** **208-230V/60Hz** Conf. 2 Sales code: **106G5408**

Optimization + standard conditions

R134a, 230V/60Hz, CSIR, static, VDE, CB, UL

Evaporating pressure (saturation temperature)					Condensing pressure (saturation temperature)						Power consumption			
					Return gas temp.						Current consumption			
					Liquid temp.						Ref. mass flow			
					Cooling capacity						COP			
					EER						P1			
					[W]						I			
					[Btu/h]						ṁ			
					[kcal/h]						[kg/h]			
					[W/W]						[W]			
					[Btu/Wh]						[A]			
					[kcal/Wh]						[kg/h]			
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KL Compressors

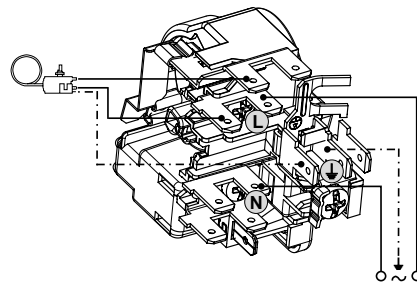
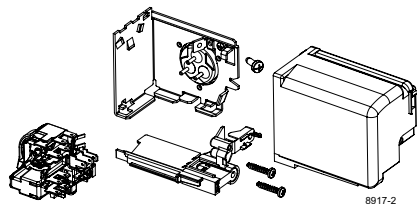
SECCP

Keep electrical equipment clear from oil, chemicals, and water

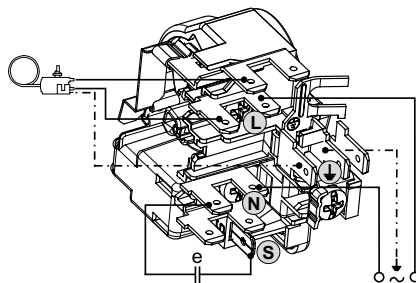
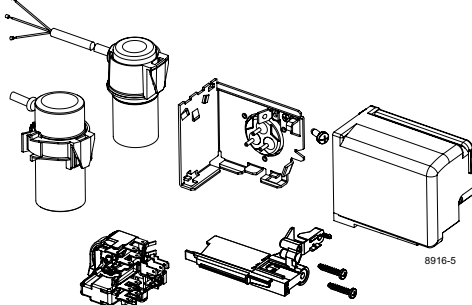


When operated with a flammable refrigerant, only spark-proof starting equipment is allowed.

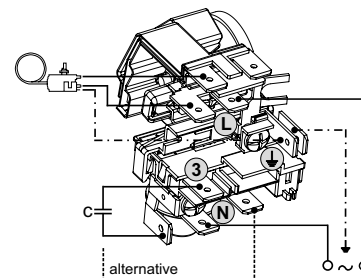
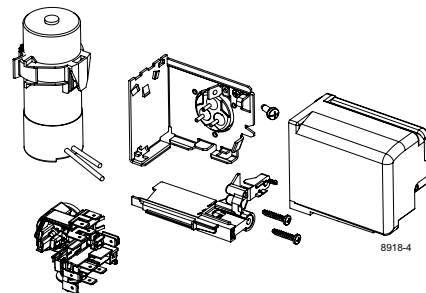
RSIR

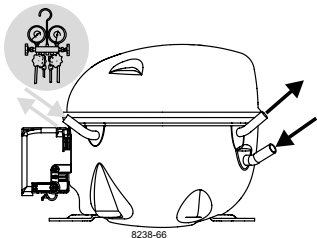


RSCR



CSIR





KL Compressors

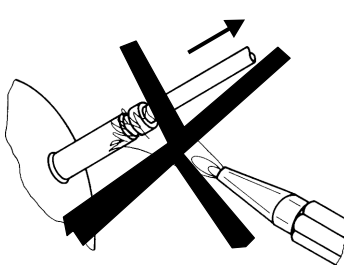
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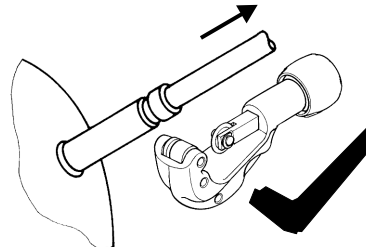


When operated with a flammable refrigerant, only spark-proof starting equipment is allowed.

Service/Repair – R290, R600a, R170, R1270, R1234yf (applies to all flammable refrigerants)



8545



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.seccp.com**