

Model

Designation	KLE5.6GFTX	220-240V/50Hz 1~ 208-230V/60Hz 1~	Sales code:	106G5613
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Compressor design

Oil type	Polyolester	Refrigerant(s)	R134a, R513A, 0
Oil viscosity	19,2cSt	Displacement	5,6cm ³ / 0,34cu.in
Oil quantity	240cm ³ / 8,1fl.oz	Compressors on pallet	100
Refr. charge - tech. limit	250g / 8,8oz		
Free gas volume comp.	1535cm ³ / 51,9fl.oz		
Weight	9,5kg / 20,9lbs		
Motor protection	external		
Winding resistance main	10,7Ω (at 25°C)		
Winding resistance aux	17Ω (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 KLE5.6GFTX

	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	Electrical equipment is included and pre-assembled to compressor.	

Applications with KLE5.6GFTX

	Conf. 1	Conf. 2
Refrigerant	R134a	R134a
Application	LBP+MBP+HBP	LBP+MBP
System cooling	fan 3m/s	fan 3m/s
Hot gas defrost	OK	OK
Long interval pull down	OK	OK

Electrical data - Configurations with KLE5.6GFTX

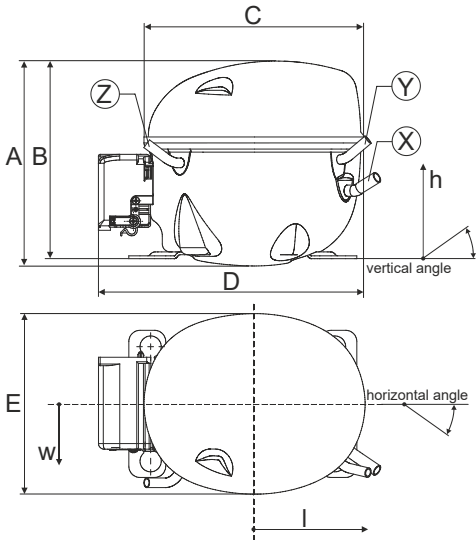
	Conf. 1	Conf. 2
Starting device type	relay	relay
Run capacitor	-/-	-/-
Start capacitor	80μF	80μF
LRA (locked rotor amps / 4s/ U(N))	11,4A	
RLA (rated load amps / 1s/ U(N))	1,2A	
Cut in current (U(N))	10,7A	

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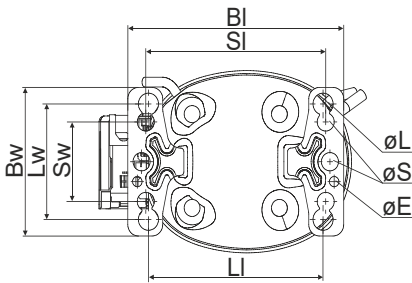
Compressor dimensions

Housing	A Height	182mm / 7,17in
	B Height	175mm / 6,89in
	C Length shell	198mm / 7,8in
	D Length w. cover	238mm / 9,37in
	E Width	160mm / 6,3in

Connectors		Suction X	Discharge Y	Process Z
Diameter	[mm]	øi 8,11-8,29	øi 6,11-6,29	øi 6,11-6,29
	[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	117/107/66	-88/101/71
	[in]	4,7/2,9/2,3	4,6/4,2/2,6	-3,5/4/2,8
Straight tube l.	[mm]	14	14	14
	[in]	0,5	0,5	0,5

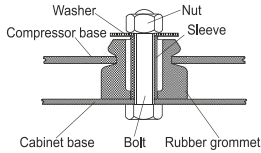


Compressor fixation

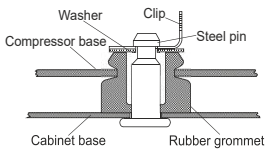


Baseplate	[mm]	[inch]
BI	204	8.03
Bw	132	5.2
øE	ø 9.7	ø 0.38
Large holes	[mm]	[inch]
LI	165	6.5
Lw	101.6	4
øL	ø 19	ø 0.75
Small holes	[mm]	[inch]
SI	170	6.7
Sw	70	2.76
øS	ø 16	ø 0.63

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	
Bolt joint ø1/4" ø19mm	118-1949	
Snap-on ø7,3 ø16mm	118-1947	118-1919

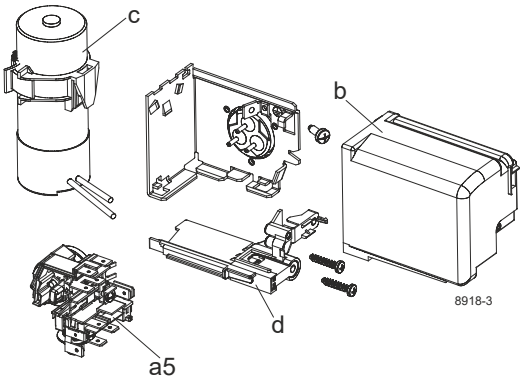
Application notes

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)

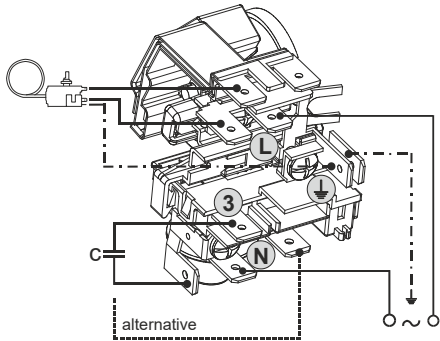
Model					
Designation	KLE5.6GFTX	220-240V/50Hz	Conf. 1	Sales code:	106G5613

Configuration	Electrical accessories / wiring diagram				
Motor configuration	CSIR	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				

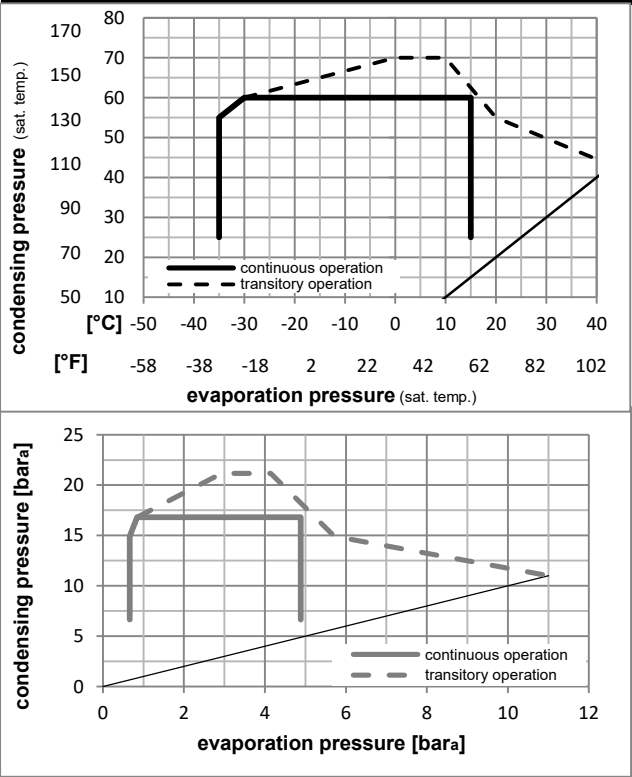


Ambient/ machine room temperatures minimum /maximum

Ambient temperature range:	10 - 43°C / 50 - 110°F
Machine room temperature range:	10 - 48°C / 50 - 119°F
Compressor cooling:	fan 3m/s



Operation pressure range



Components (incl. and pre. assembl.)

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

Alternative comp.

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

Model

Designation **KLE5.6GFTX** **220-240V/50Hz** Conf. 1 Sales code: **106G5613**

Optimization + standard conditions

R134a, 220V/50Hz, CSIR, fan 3m/s, VDE, CB, UL

Evaporating pressure (saturation temperature)					Condensing pressure (saturation temperature)						Power consumption			
Return gas temp.					Liquid temp.						Current consumption			
Cooling capacity					COP		EER		P1		I		Ref. mass flow	
pe	pc	RGT	Tliq	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[kcal/Wh]	[W]	[A]	ṁ		
[°C]	[°F]											[kg/h]		
-23	54	32	32	156,4	534	134,6	1,32	4,51	1,14	118,5	1,22	3,04	ASHRAE LBP	
-10	130	90	90											
-7	54	35	46	335,5	1146	288,7	1,92	6,55	1,65	174,9	1,37	7,32	ASHRAE MBP	
20	130	95	115											
7,2	54	35	46	601,5	2054	517,6	2,74	9,35	2,36	219,7	1,53	13,34	ASHRAE HBP	
45	130	95	115											
-35	40	20	40	81,5	278	70,1	0,98	3,36	0,85	82,8	1,15	1,79	EN12900 LBP	
-31	104	68	104											
-10	45	20	45	289,8	990	249,4	1,92	6,56	1,65	150,8	1,30	6,78	EN12900 MBP	
14	113	68	113											
5	50	20	50	513,1	1752	441,6	2,52	8,62	2,17	203,2	1,47	12,93	EN12900 HBP	
41	122	68	122											

Performance tables

R134a, 220V/50Hz, CSIR, fan 3m/s, VDE, CB, UL

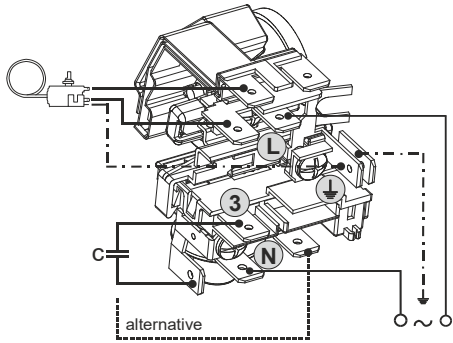
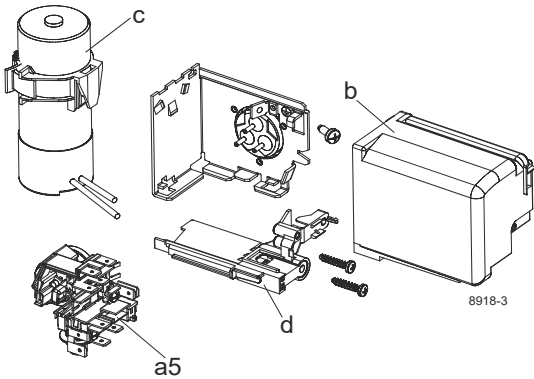
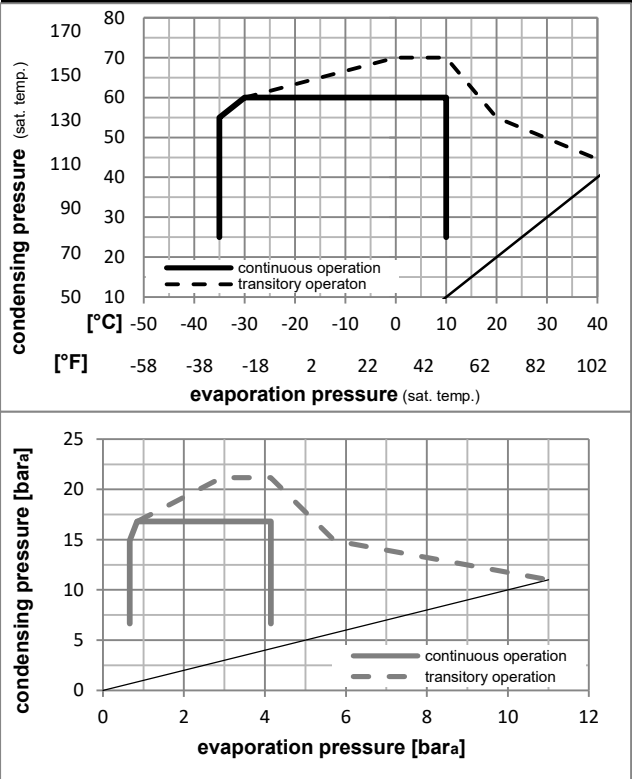
	pe		Cooling capacity			COP	EER		P1	I	m
	[°C]	[°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[kcal/Wh]	[W]	[A]	[kg/h]
[°C / °F]	-35	-31	76,7	262	66,0	0,93	3,18	0,80	82,3	1,15	1,65
cond. pressure	-25	-13	135,0	461	116,2	1,23	4,21	1,06	109,5	1,20	2,93
pc= 45/113	-15	5	234,2	800	201,5	1,71	5,84	1,47	137,0	1,26	5,10
return gas temp.	-10	14	300,6	1027	258,7	1,99	6,81	1,72	150,8	1,30	6,58
RGT= 32/90	0	32	470,6	1607	405,0	2,64	9,00	2,27	178,5	1,38	10,41
liquid temp	5	41	575,3	1965	495,1	2,99	10,21	2,57	192,4	1,43	12,81
Tliq= 45/113	15	59	827,6	2827	712,3	3,76	12,85	3,24	220,0	1,54	18,75
[°C / °F]	-35	-31	62,9	215	54,1	0,81	2,78	0,70	77,2	1,13	1,50
cond. pressure	-25	-13	114,7	392	98,7	1,02	3,47	0,88	112,7	1,20	2,74
pc= 55/131	-15	5	201,0	686	173,0	1,36	4,66	1,17	147,4	1,29	4,84
return gas temp	-10	14	258,7	883	222,6	1,57	5,37	1,35	164,4	1,34	6,25
RGT= 32/90	0	32	406,4	1388	349,7	2,06	7,02	1,77	197,7	1,45	9,94
liquid temp	5	41	497,7	1700	428,3	2,33	7,95	2,00	213,9	1,51	12,26
Tliq= 55/131	15	59	718,4	2453	618,2	2,93	10,00	2,52	245,3	1,64	18,04

Model				
Designation	KLE5.6GFTX	208-230V/60Hz	Conf. 2	Sales code: 106G5613
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			

Ambient/ machine room temperatures minimum /maximum

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b, d	cover + clamp + screws(5VA-compl.)	103N0600

Alternative comp.

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

Model

Designation **KLE5.6GFTX** **208-230V/60Hz** Conf. 2 Sales code: **106G5613**

Optimization + standard conditions

R134a, 230V/60Hz, CSIR, fan 3m/s, VDE, CB, UL

Evaporating pressure (saturation temperature)					Condensing pressure (saturation temperature)						Power consumption																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
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Performance tables

R134a, 230V/60Hz, CSIR, fan 3m/s, 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	92,3	315	79,4	1,01	3,46	0,87	91,2	1,08	1,99		
cond. pressure	-25	-13	165,3	565	142,3	1,30	4,43	1,12	127,3	1,15	3,58		
pc= 45/113	-15	5	278,6	951	239,7	1,73	5,90	1,49	161,3	1,23	6,07		
return gas temp.	-10	14	353,6	1208	304,3	1,99	6,78	1,71	178,1	1,27	7,74		
RGT= 32/90	0	32	547,6	1870	471,2	2,57	8,79	2,21	212,8	1,38	12,11		
liquid temp	5	41	669,1	2285	575,8	2,89	9,88	2,49	231,2	1,44	14,90		
Tliq= 45/113	15	59	968,2	3307	833,3	3,57	12,18	3,07	271,5	1,57	21,93		
[°C / °F]	-35	-31	72,1	246	62,1	0,78	2,66	0,67	92,6	1,08	1,72		
cond. pressure	-25	-13	141,6	484	121,9	1,05	3,60	0,91	134,3	1,16	3,39		
pc= 55/131	-15	5	242,5	828	208,7	1,40	4,79	1,21	172,9	1,26	5,84		
return gas temp	-10	14	308,1	1052	265,1	1,61	5,49	1,38	191,8	1,31	7,45		
RGT= 32/90	0	32	476,4	1627	410,0	2,07	7,08	1,78	229,8	1,43	11,65		
liquid temp	5	41	581,9	1987	500,8	2,33	7,96	2,01	249,6	1,50	14,34		
Tliq= 55/131	15	59	842,3	2877	724,9	2,88	9,85	2,48	292,0	1,65	21,16		