

Model

Designation	KLE5.6GFHX	115-127V/60Hz 1~	Sales code:	106G6603
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Compressor design

Oil type	Polyolester	Refrigerant(s)	R134a, R513A
Oil viscosity	19,2cSt	Displacement	5,6cm ³ / 0,34cu.in
Oil quantity	200cm ³ / 6,8fl.oz	Compressors on pallet	100
Refr. charge - tech. limit	300g / 10,6oz		
Free gas volume comp.	1605cm ³ / 54,3fl.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 KLE5.6GFHX

Conf. 1

Motor configuration	CSIR
Power supply (nominal)	115-127V/60Hz
Number of phases	1
Voltage range	95-140V
Approvals	UL
Starting torque	HST
Note	Recommended voltage range for HBP is 103-140V/60Hz

Applications with KLE5.6GFHX

Conf. 1

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

Electrical data - Configurations with KLE5.6GFHX

Conf. 1

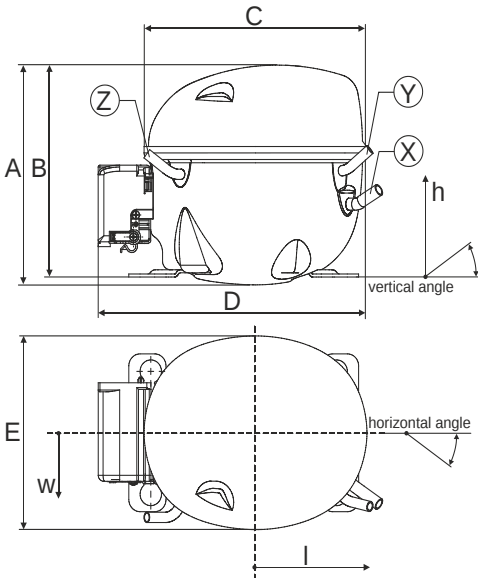
Starting device type	relay
Run capacitor	-/-
Start capacitor	80μF
LRA (locked rotor amps / 4s/ U(N))	31,1A
RLA (rated load amps / 1s/ U(N))	4,3A
Cut in current (U(N))	27,8A

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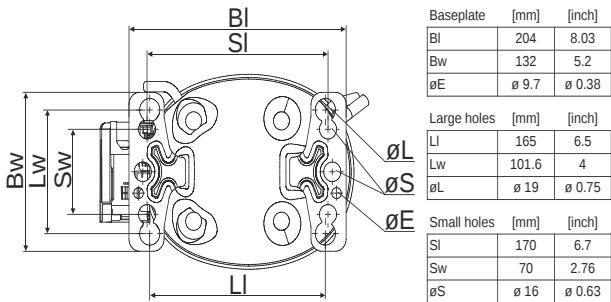
Compressor dimensions

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

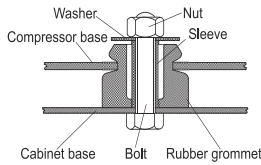
Connectors	Suction	Discharge	Process
	X	Y	Z
Diameter [mm]	øi 8,11-8,29	øi 6,41-6,59	øi 6,41-6,59
(i:inside, o:outside) [in]	øi 0,32-0,33	øi 0,25-0,26	øi 0,25-0,26
Material	copper	copper	copper
Horizontal angle ±2°	35°	13°	0°
Vertical angle ±2°	30°	40°	145°
Position l/h/w [mm]	119/73/59	117/107/66	-88/101/71
[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



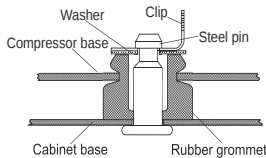
Compressor fixation



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

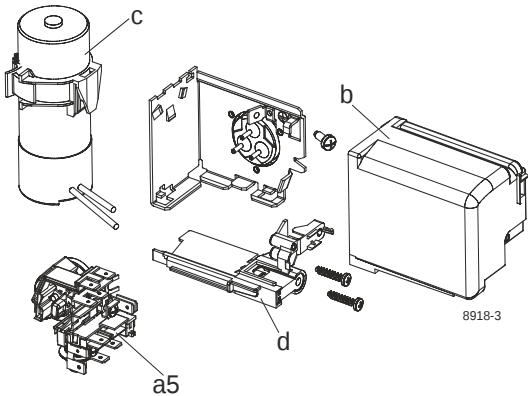
Application notes

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)

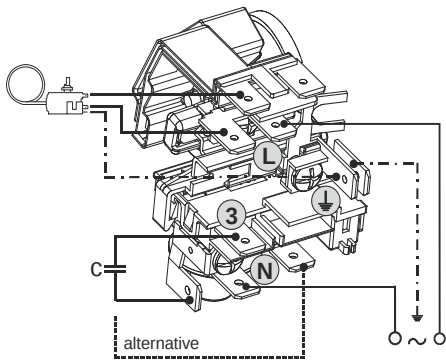
Model					
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Configuration		Electrical accessories / wiring diagram			
Motor configuration	CSIR	CSIR			
Power supply (nominal)	115-127V/60Hz 1~				
Refrigerant	R134a				
Application	LBP+MBP+HBP				
Voltage range	95-140V				
Starting torque	HST				
Approvals	UL				

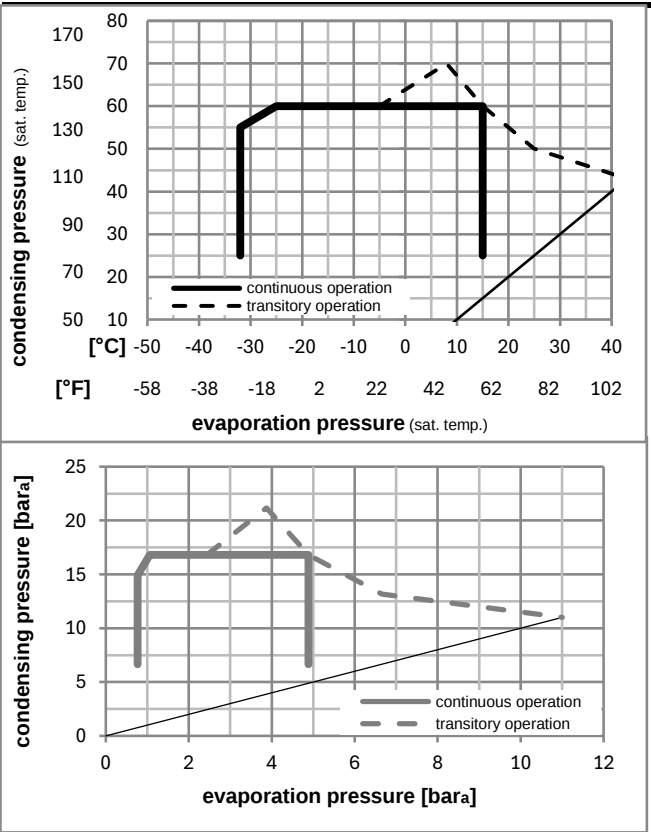


Ambient/ machine room temperatures minimum /maximum

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

a5	current relay (T1248/L6)	117U7083
c	start capacitor (240μF)	117U5002
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

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Optimization + standard conditions			R134a, 120V/60Hz, CSIR, fan 3m/s, UL		

	Evaporating pressure (saturation temperature)					Condensing pressure (saturation temperature)					Power consumption				
	pe	pc	Return gas temp.			Cooling capacity					COP	EER	Current consumption		
			RGT	Tliq	Liquid temp.								P1	I	Ref. mass flow
[°C]	[°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[kcal/Wh]	[W]	[A]	[kg/h]					

Performance tables							R134a, 120V/60Hz, CSIR, fan 3m/s, 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]	-23	-10	185,1	632	159,3	1,23	4,21	1,06	150,1	2,44	4,01
cond. pressure	-23	-10	185,1	632	159,3	1,23	4,21	1,06	150,1	2,44	4,01
pc= 45/113	-15	5	286,3	978	246,4	1,62	5,55	1,40	176,3	2,59	6,24
return gas temp.	-9	15	372,0	1270	320,1	1,93	6,58	1,66	193,2	2,69	8,14
RGT= 32/90	0	32	558,8	1908	480,9	2,51	8,58	2,16	222,4	2,89	12,36
liquid temp	7,2	45	742,6	2536	639,1	3,01	10,29	2,59	246,4	3,06	16,59
Tliq= 45/113	15	59	986,8	3370	849,2	3,59	12,24	3,09	275,2	3,28	22,35
[°C / °F]	-23	-10	156,7	535	134,8	1,05	3,59	0,91	149,0	2,44	3,75
cond. pressure	-23	-10	156,7	535	134,8	1,05	3,59	0,91	149,0	2,44	3,75
pc= 55/131	-15	5	245,1	837	210,9	1,34	4,56	1,15	183,3	2,64	5,90
return gas temp	-9	15	319,6	1092	275,1	1,55	5,31	1,34	205,7	2,78	7,73
RGT= 32/90	0	32	482,5	1648	415,2	1,98	6,75	1,70	244,3	3,05	11,80
liquid temp	7,2	45	643,8	2199	554,1	2,34	7,98	2,01	275,5	3,28	15,92
Tliq= 55/131	15	59	859,7	2936	739,9	2,75	9,40	2,37	312,3	3,56	21,59