

TL4GH Heat Pump Compressor R134a 220-240V 50/60Hz

General

Code number	102G4455
Approvals	EN 60335-2-34, UL984
Compressors on pallet	125

Application

Application	HBP			
Frequency	Hz	50	60	
Evaporating temperature	°C	-15 to 15	-15 to 15	
Voltage range	V	198 - 254	198 - 254	
Max. condensing temperature continuous (short)	°C	60 (70)	60 (70)	
Max. winding temperature continuous (short)	°C	125 (135)	125 (135)	

Cooling requirements

Frequency	Hz	50			60		
Application		LBP	MBP	HBP	LBP	MBP	HBP
32°C		-	-	F ₂	-	-	F ₂
38°C		-	-	F ₂	-	-	F ₂
43°C		-	-	F ₂	-	-	F ₂
Remarks on application:							

Motor

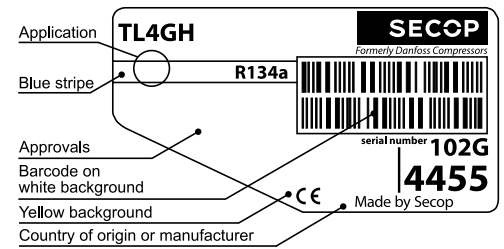
Motor type	CSIR		
LRA (rated after 4 sec. UL984), HST LST	A	5.7	-
Cut in Current, HST LST	A	5.7	-
Resistance, main start winding (25°C)	Ω	14.5	14.8

Design

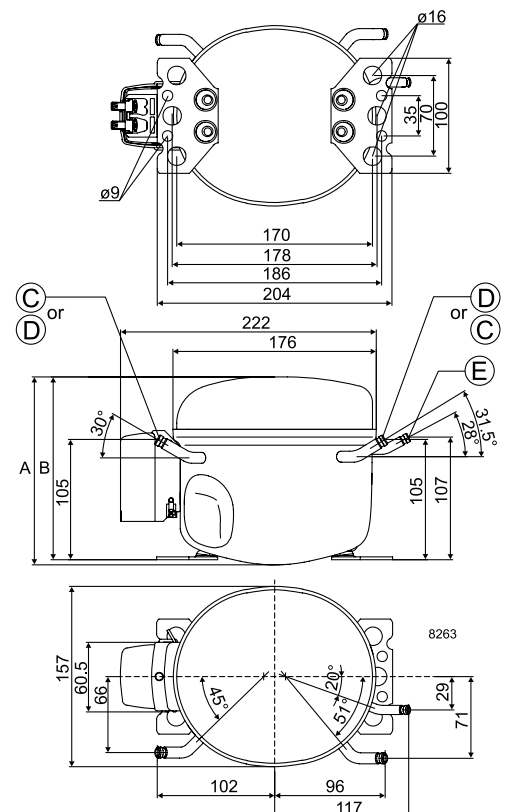
Displacement	cm ³	3.86
Oil quantity (type)	cm ³	280 (polyolester)
Maximum refrigerant charge	g	600
Free gas volume in compressor	cm ³	1690
Weight without electrical equipment	kg	7.5

Dimensions

Height	mm	A	173
		B	169
		B1	-
		B2	-
Suction connector	location/I.D. mm angle	C	6.2 30°
	material comment		Cu-plated steel Al cap
Process connector	location/I.D. mm angle	D	6.2 31.5°
	material comment		Cu-plated steel Al cap
Discharge connector	location/I.D. mm angle	E	5.0 28°
	material comment		Cu-plated steel Al cap
Oil cooler connector	location/I.D. mm angle	F	-
	material comment		-
Connector tolerance	I.D. mm		±0.09, on 5.0 +0.12/+0.20
Remarks:			



- S = Static cooling normally sufficient
- O = Oil cooling
- F₁ = Fan cooling 1.5 m/s (compressor compartment temperature equal to ambient temperature)
- F₂ = Fan cooling 3.0 m/s necessary
- SG = Suction gas cooling normally sufficient
- = not applicable in this area



EN 12900 Household (CECOMAF) 220V, 50Hz, fan cooling F₂

Evap. temp. in °C	-45	-40	-35	-30	-25	-23.3	-20	-15	-10	-6.7	-5	0	5	7.2	10	15	20
Capacity in W								104	140	167	182	230	287	315	353	429	
Power cons. in W								109	121	129	134	146	159	164	171	181	
Current cons. in A								0.97	1.01	1.03	1.05	1.09	1.12	1.14	1.16	1.20	
COP in W/W								0.96	1.16	1.29	1.36	1.57	1.81	1.92	2.07	2.37	

EN 12900 Household (CECOMAF) 220V, 60Hz, fan cooling F₂

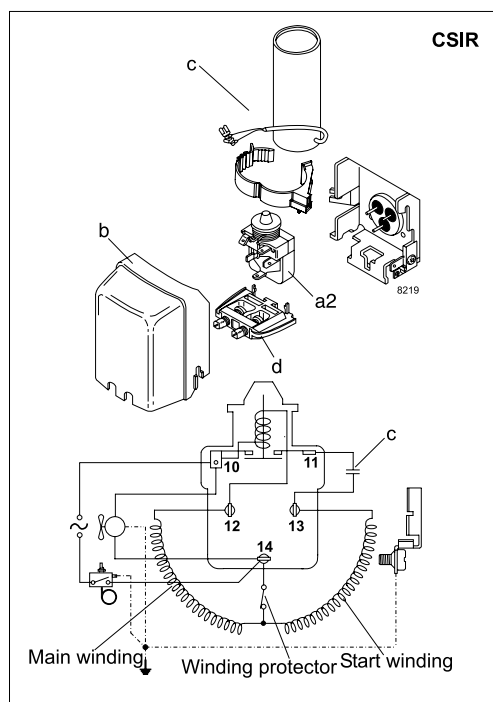
Evap. temp. in °C	-45	-40	-35	-30	-25	-23.3	-20	-15	-10	-6.7	-5	0	5	7.2	10	15	20
Capacity in W								118	160	191	208	264	328	360	403	489	
Power cons. in W								123	139	150	156	174	193	202	213	232	
Current cons. in A								0.89	0.95	1.00	1.02	1.09	1.16	1.19	1.23	1.31	
COP in W/W								0.96	1.15	1.27	1.33	1.51	1.70	1.78	1.90	2.11	

ASHRAE HBP 220V, 50Hz, fan cooling F₂

Evap. temp. in °C	-45	-40	-35	-30	-25	-23.3	-20	-15	-10	-6.7	-5	0	5	7.2	10	15	20
Capacity in W								129	173	206	225	285	356	391	439	535	
Power cons. in W								109	121	129	134	146	159	164	171	181	
Current cons. in A								0.97	1.01	1.03	1.05	1.09	1.12	1.14	1.16	1.20	
COP in W/W								1.18	1.43	1.60	1.68	1.95	2.24	2.38	2.57	2.95	

ASHRAE HBP 220V, 60Hz, fan cooling F₂

Evap. temp. in °C	-45	-40	-35	-30	-25	-23.3	-20	-15	-10	-6.7	-5	0	5	7.2	10	15	20
Capacity in W								146	198	236	257	327	408	447	501	609	
Power cons. in W								123	139	150	156	174	193	202	213	232	
Current cons. in A								0.89	0.95	1.00	1.02	1.09	1.16	1.19	1.23	1.31	
COP in W/W								1.19	1.43	1.57	1.65	1.88	2.11	2.22	2.36	2.63	



Accessories for	TL4GH	Figure	Code number
PTC starting device	6.3 mm spade connectors	a1	-
	4.8 mm spade connectors		-
Starting relay	6.3 mm spade connectors	a2	117U6000
Start. capacitor 60 µF	6.3 mm spade connectors	c	117U5014
Cover		b	103N2011
Cord relief		d	103N1010
Protection screen for PTC		g	-

Test conditions	EN 12900/CECOMAF	ASHRAE HBP
Condensing temperature	55°C	55°C
Ambient temperature	32°C	32°C
Suction gas temperature	32°C	32°C
Liquid temperature	55°C	32°C

Mounting accessories		Code number
Bolt joint for one comp.	Ø: 16 mm	118-1917
Bolt joint in quantities	Ø: 16 mm	118-1918
Snap-on in quantities	Ø: 16 mm	118-1919

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