

TL4G
Universal Compressor
R134a
220-240V 50/60Hz

General

Code number	102G4458
Approvals	EN 60335-2-34, UL984
Compressors on pallet	125

Application

Application		LBP/HBP	
Frequency	Hz	50	60
Evaporating temperature	°C	-30 to 15	-30 to -10
Voltage range	V	187 - 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	HPB	LBP	MBP	HPB
32°C		S	S	F ₂	S	S	—
38°C		S	S	F ₂	S	S	—
43°C		S	S	F ₂	S	S	—
Remarks on application:							

Motor

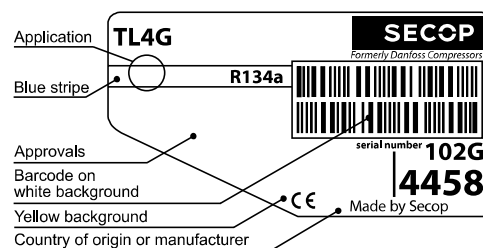
Motor type		RSIR/CSIR	
LRA (rated after 4 sec. UL984), HST LST	A	5.1	4.3
Cut in Current, HST LST	A	5.1	8.6
Resistance, main start winding (25°C)	Ω	18.2	15.1

Design

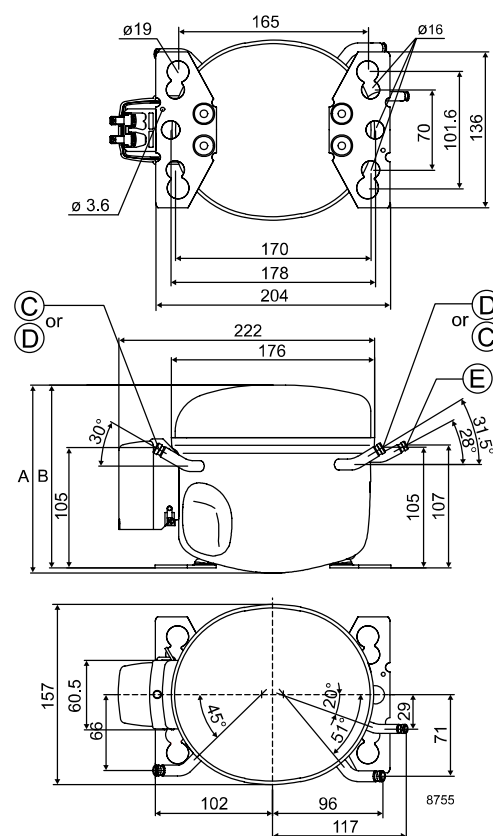
Displacement	cm ³	3.86
Oil quantity (type)	cm ³	280 (polyolester)
Maximum refrigerant charge	g	400
Free gas volume in compressor	cm ³	1690
Weight without electrical equipment	kg	7.5

Dimensions

Height	mm	A	173
		B	169
		B1	—
		B2	—
Suction connector	location/I.D. mm angle	C	6.5 30°
	material comment	Copper Rubber Plug	
Process connector	location/I.D. mm angle	D	6.5 31.5°
	material comment	Copper Rubber Plug	
Discharge connector	location/I.D. mm angle	E	5.0 28°
	material comment	Copper Rubber Plug	
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, static cooling

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				40.8	58.3	65.3	80.3	107	140	165	180	226	280	306	342	413	
Power cons. in W				71.7	82.7	86.6	94.2	106	118	126	130	142	154	159	165	176	
Current cons. in A				0.82	0.84	0.85	0.87	0.90	0.93	0.95	0.96	1.00	1.04	1.05	1.08	1.12	
COP in W/W				0.57	0.70	0.75	0.85	1.01	1.19	1.31	1.38	1.59	1.82	1.93	2.07	2.34	

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

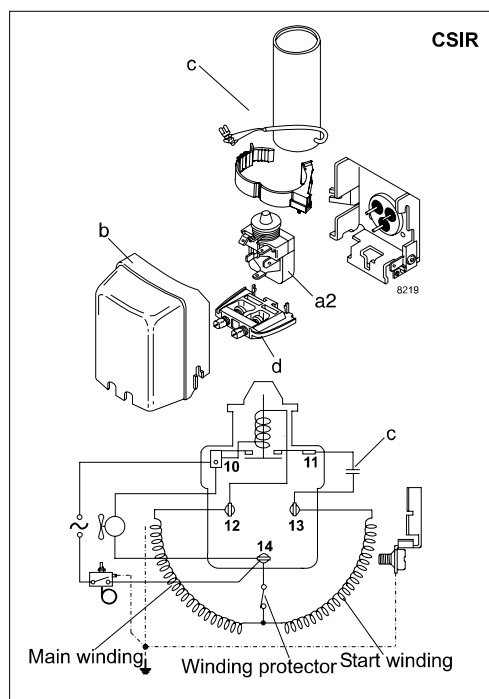
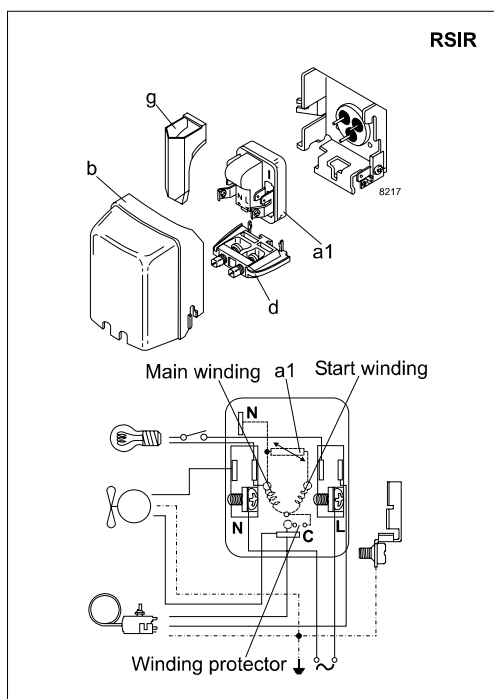
Evap. temp. in °C	-45	-40	-35	-30	-25	-23.3	-20	-15	-10	-6.7	-5	0	5	7.2	10	15	20
Capacity in W				48.4	69.5	77.8	95.7	127	166								
Power cons. in W				74.2	86.8	91.6	101	117	135								
Current cons. in A				0.70	0.74	0.76	0.79	0.84	0.90								
COP in W/W				0.65	0.80	0.85	0.94	1.09	1.23								

ASHRAE LBP 220V, 50Hz, static cooling

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				50.3	71.9	80.5	99.2	133	173	205	222	280	347	380	425	515	
Power cons. in W				71.7	82.7	86.6	94.2	106	118	126	130	142	154	159	165	176	
Current cons. in A				0.82	0.84	0.85	0.87	0.90	0.93	0.95	0.96	1.00	1.04	1.05	1.08	1.12	
COP in W/W				0.70	0.87	0.93	1.05	1.25	1.47	1.63	1.71	1.97	2.26	2.39	2.57	2.92	

ASHRAE LBP 220V, 60Hz, static cooling

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				59.6	85.8	96.0	118	157	205								
Power cons. in W				74.2	86.8	91.6	101	117	135								
Current cons. in A				0.70	0.74	0.76	0.79	0.84	0.90								
COP in W/W				0.80	0.99	1.05	1.17	1.34	1.52								



Accessories for	TL4G	Figure	Code number
PTC starting device	6.3 mm spade connectors	a1	103N0011
	4.8 mm spade connectors		103N0018
Starting relay	6.3 mm spade connectors	a2	117U6004
Start, capacitor 60 µF	6.3 mm spade connectors	c	117U5014
Cover		b	103N2011
Cord relief		d	103N1010
Protection screen for PTC		g	103N0476

Test conditions	EN 12900/ CECOMAF	ASHRAE LBP
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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