

TLY5FK

High Energy-optimized Compressor

R134a

220-240V 50Hz

General

Code number	102G4547
Approvals	EN 60335-2-34 w. Annex AA
Compressors on pallet	125

Application

Application	LBP		
Frequency	Hz	50	60
Evaporating temperature	°C	-35 to -10	-
Voltage range	V	198 - 254	-
Max. condensing temperature continuous (short)	°C	60 (70)	-
Max. winding temperature continuous (short)	°C	125 (135)	-

Cooling requirements

Frequency	Hz	50			60		
Application		LBP	MBP	HBP	LBP	MBP	HBP
32°C		S	-	-	-	-	-
38°C		S	-	-	-	-	-
43°C		S	-	-	-	-	-

Remarks on application: run capacitor 4 µF compulsory in 43°C ambient temperature

Motor

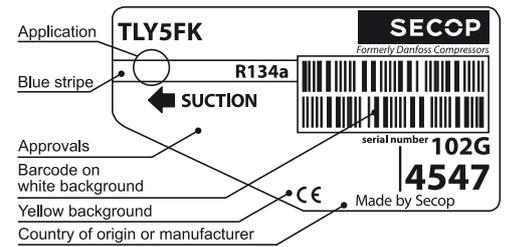
Motor type	RSCR/RSIR		
LRA (rated after 4 sec. UL984), HST LST	A	-	4.0
Cut in Current, HST LST	A	-	8.5
Resistance, main start winding (25°C)	Ω	18.9	15.3

Design

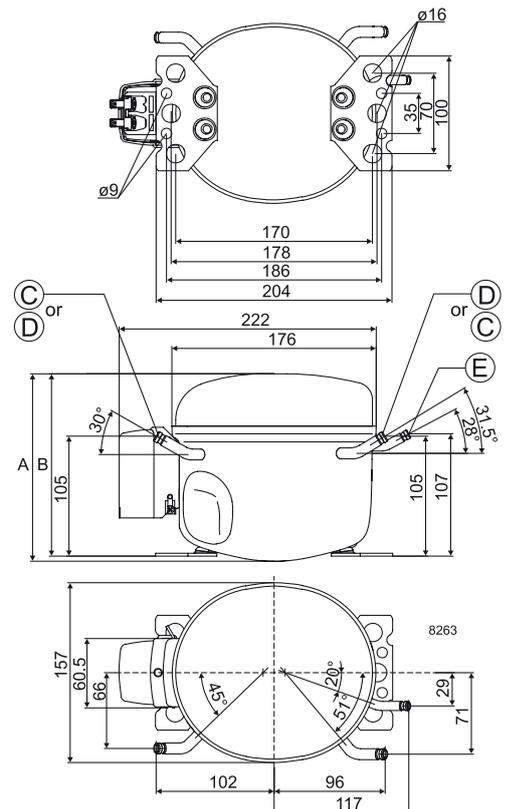
Displacement	cm ³	5.08
Oil quantity (type)	cm ³	180 (polyolester)
Maximum refrigerant charge	g	400
Free gas volume in compressor	cm ³	1790
Weight without electrical equipment	kg	7.6

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

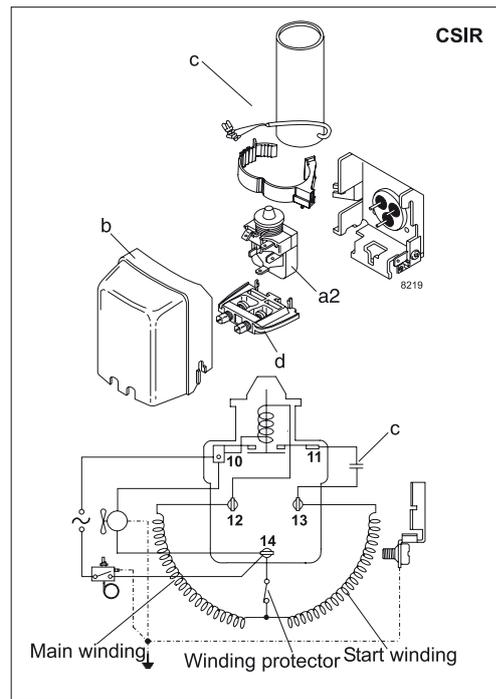
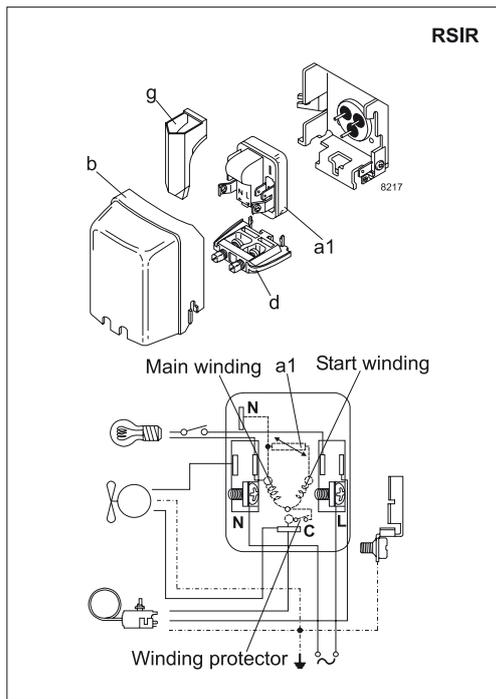


EN 12900 Household (CECOMAF) 220V, 50Hz, RC 4µF, PTC consumption incl., static cooling

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			49.9	71.5	98.0	108	130	169	216								
Power cons. in W			71.4	83.6	97.0	102	112	128	146								
Current cons. in A			0.43	0.49	0.55	0.57	0.62	0.68	0.76								
COP in W/W			0.70	0.85	1.01	1.06	1.17	1.32	1.48								

ASHRAE LBP 220V, 50Hz, RC 4µF, PTC consumption incl., 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			61.5	88.1	121	134	161	209	267								
Power cons. in W			71.4	83.6	97.0	102	112	128	146								
Current cons. in A			0.43	0.49	0.55	0.57	0.62	0.68	0.76								
COP in W/W			0.86	1.05	1.25	1.31	1.44	1.64	1.83								



Accessories for	TLY5FK	Figure	Code number
PTC starting device	6.3 mm spade connectors	a1 (pos. 1)	103N0011
	4.8 mm spade connectors		103N0018
ePTC starting device	4.8 mm spade connectors	a1 (pos. 2)	103N0050
	6.3 mm spade connectors		103N0016
PTC starting device	6.3 mm spade connectors	a1 (pos. 2)	103N0016
	4.8 mm spade connectors		103N0021
Cover		b	103N2010
Cord relief		d	103N1010
Run capacitor	6.3 mm spade connectors	e	117-7117
	4 µF (optional)		4.8 mm spade connectors
Protection screen for PTC		g	103N0476

Test conditions	EN 12900/ CECOMAF	ASHRAE
Condensing temperature	55°C	55°C
Ambient temperature	32°C	32°C
Suction gas temperature	32°C	32°C
Liquid temperature	no subcooling	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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