

TLES8.7KK.3

Energy-optimized Compressor

R600a

220-240V 50Hz

General

Code number	102H4938
Approvals	EN 60335-2-34 with 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 at max. ambient temperature

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

Motor

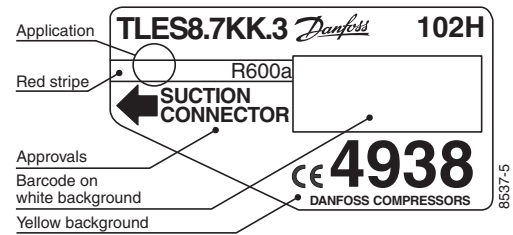
Motor type	RSIR/RSCR		
LRA (rated after 4 sec. UL984), HST LST	A	-	4.2
Cut in Current, HST LST	A	-	8.4
Resistance, main start winding (25°C)	Ω	17.9	17.7

Design

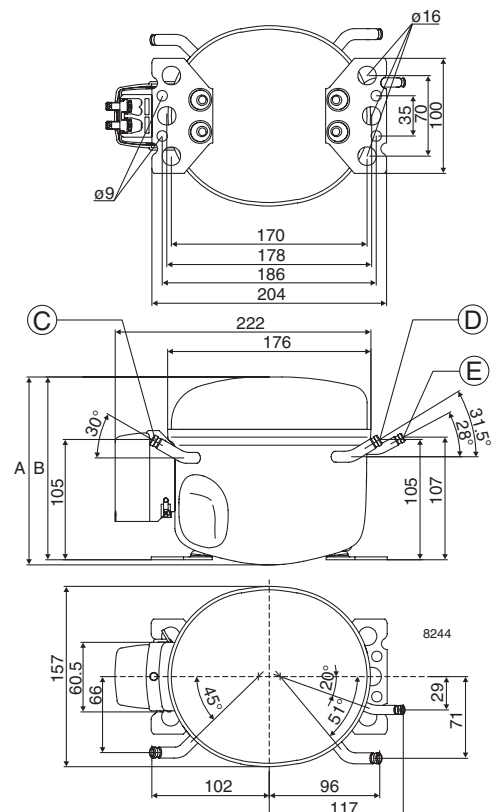
Displacement	cm ³	8.67
Oil quantity (type)	cm ³	180 (mineral)
Maximum refrigerant charge	g	150
Free gas volume in compressor	cm ³	1690
Weight without electrical equipment	kg	6.8

Dimensions

Height	mm	A	163
		B	159
		B1	-
		B2	-
Suction connector	location/I.D. mm angle	C	6.2 30°
	material comment		Cu-plated steel Al caps
Process connector	location/I.D. mm angle	D	6.2 31.5°
	material comment		Cu-plated steel Al caps
Discharge connector	location/I.D. mm angle	E	5.0 28°
	material comment		Cu-plated steel Al caps
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, 2 W 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			61.6	83.3	110	120	143	181	228								
Power cons. in W			80.8	93.8	107	111	120	133	149								
Current cons. in A			0.78	0.82	0.86	0.87	0.90	0.94	0.99								
COP in W/W			0.76	0.89	1.03	1.09	1.19	1.36	1.53								

EN 12900 Household (CECOMAF) 220V, 50Hz, RC 4µF, 2 W PTC consumption incl., static cooling

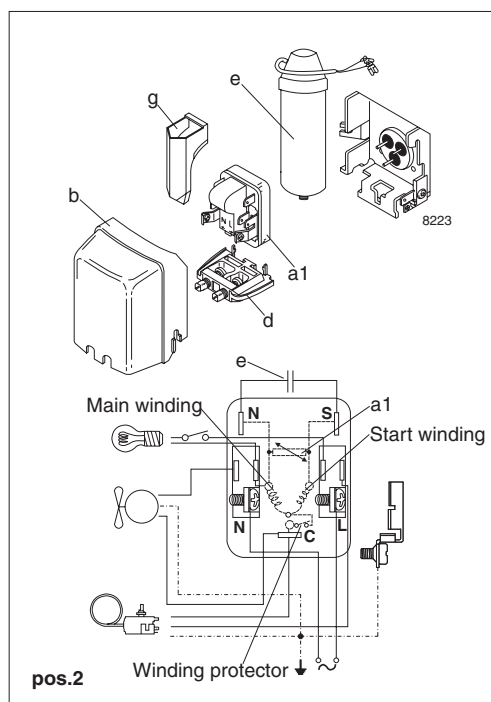
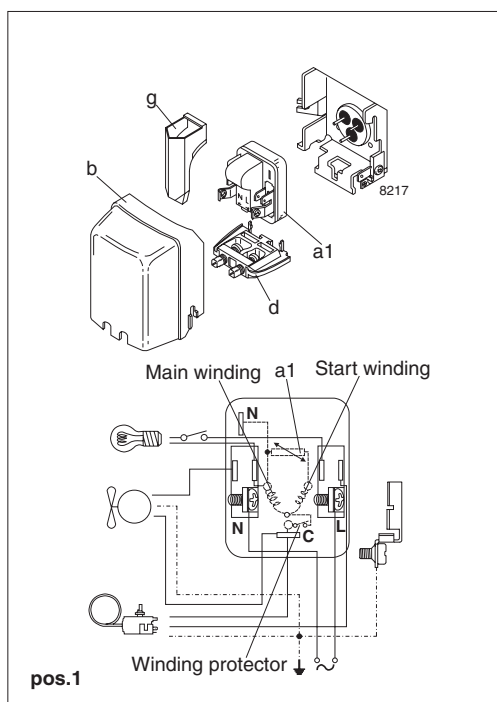
Evap. temp. in °C	-45	-40	-35	-30	-25	-23.3	-20	-15	-10	-6.7	-5	0	5	7.2	10	15	20
Capacity in W			61.6	83.3	110	120	143	181	228								
Power cons. in W			77.1	89.5	102	106	114	127	142								
Current cons. in A			0.53	0.58	0.62	0.63	0.66	0.71	0.75								
COP in W/W			0.80	0.93	1.08	1.14	1.25	1.43	1.61								

ASHRAE LBP 220V, 50Hz, 2 W 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			75.3	102	134	147	174	222	278								
Power cons. in W			81.0	93.8	106	111	119	133	148								
Current cons. in A			0.78	0.82	0.86	0.87	0.90	0.94	0.98								
COP in W/W			0.93	1.09	1.26	1.33	1.46	1.67	1.88								

ASHRAE LBP 220V, 50Hz, RC 4µF, 2 W 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			75.3	102	134	147	174	222	278								
Power cons. in W			77.3	89.4	101	105	114	127	141								
Current cons. in A			0.54	0.58	0.62	0.63	0.66	0.70	0.75								
COP in W/W			0.97	1.14	1.33	1.39	1.53	1.75	1.97								



Accessories	Figure	Code number
PTC starting device	a1 (pos.1)	6.3 mm spade connectors: 103N0011
		4.8 mm spade connectors: 103N0018
ePTC starting device	a1	4.8 mm spade connectors: 103N0050
PTC starting device	a1 (pos.2)	6.3 mm spade connectors: 103N0016
		4.8 mm spade connectors: 103N0021
Cover	b	103N2010
Cord relief	d	103N1010
Run capacitor 4 µF (optional)	e	6.3 mm spade connectors: 117-7117
		4.8 mm spade connectors: 117-7119
Protection screen for PTC	g	103N0476

Test conditions	EN 12900/CECOMAF	ASHRAE
Condensing temperature	55°C	54.4°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 compressor	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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