

# TLES7.5KK.3

## Energy-optimized Compressor

### R600a

### 220-240V 50Hz

#### General

Code number	102H4838
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

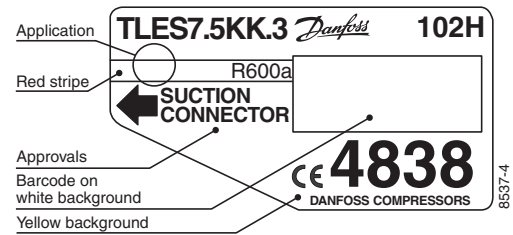
Motor type	RSIR/RSCR		
LRA (rated after 4 sec. UL984), HST   LST	A	-	3.5
Cut in Current, HST   LST	A	-	7.8
Resistance, main   start winding (25°C)	Ω	23.6	17.8

#### Design

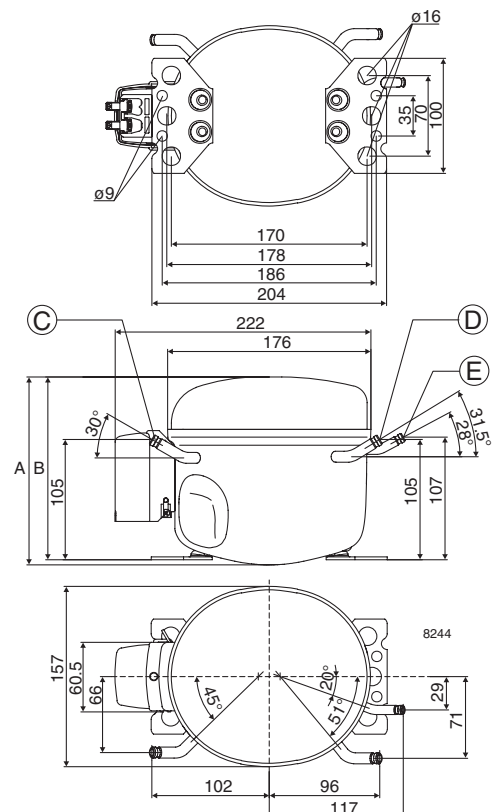
Displacement	cm <sup>3</sup>	7.48
Oil quantity (type)	cm <sup>3</sup>	180 (mineral)
Maximum refrigerant charge	g	150
Free gas volume in compressor	cm <sup>3</sup>	1690
Weight without electrical equipment	kg	6.7

#### 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
- F<sub>1</sub> = Fan cooling 1.5 m/s (compressor compartment temperature equal to ambient temperature)
- F<sub>2</sub> = 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			52.6	71.1	94.0	103	122	155	194								
Power cons. in W			69.8	81.0	92.0	95.7	103	115	128								
Current cons. in A			0.66	0.70	0.73	0.74	0.77	0.80	0.84								
COP in W/W			0.75	0.88	1.02	1.07	1.18	1.35	1.52								

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

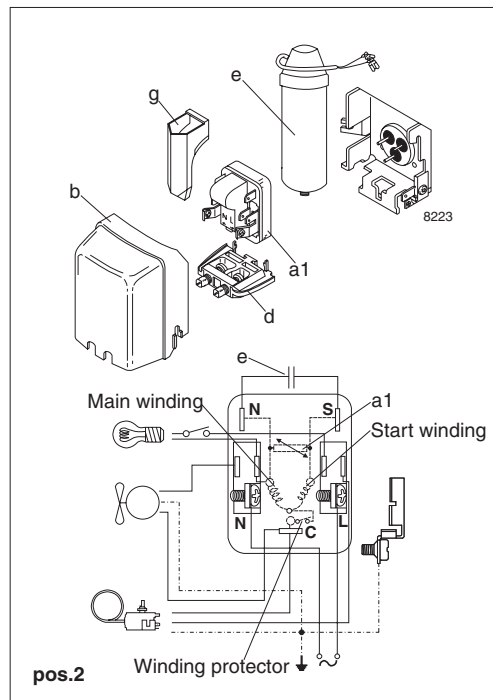
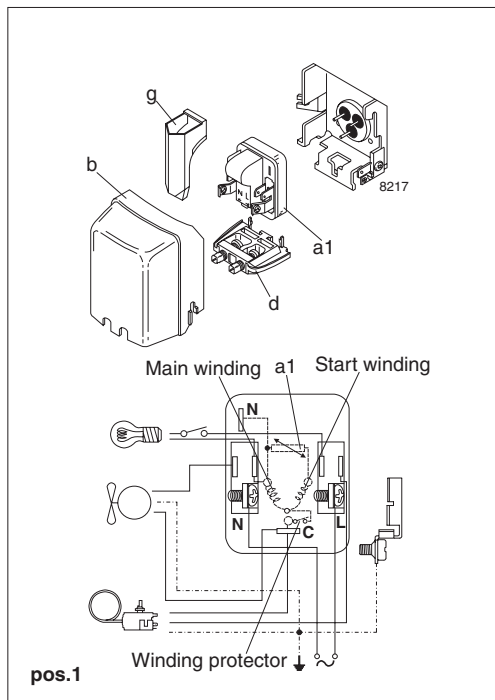
Evap. temp. in °C	-45	-40	-35	-30	-25	-23.3	-20	-15	-10	-6.7	-5	0	5	7.2	10	15	20
Capacity in W			52.6	71.1	94.0	103	122	155	194								
Power cons. in W			66.6	77.3	87.8	91.4	98.6	110	123								
Current cons. in A			0.43	0.47	0.50	0.51	0.54	0.57	0.61								
COP in W/W			0.79	0.92	1.07	1.12	1.24	1.41	1.59								

**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			64.3	86.9	115	126	149	189	237								
Power cons. in W			69.9	81.0	91.8	95.5	103	115	128								
Current cons. in A			0.66	0.70	0.73	0.74	0.77	0.80	0.84								
COP in W/W			0.92	1.07	1.25	1.32	1.45	1.65	1.86								

**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			64.3	86.9	115	126	149	189	237								
Power cons. in W			66.8	77.3	87.7	91.2	98.2	110	122								
Current cons. in A			0.43	0.47	0.50	0.51	0.54	0.57	0.61								
COP in W/W			0.96	1.12	1.31	1.38	1.51	1.73	1.95								



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	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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