

## TLES4.8KK.3 Energy-optimized Compressor R600a 220-240V 50Hz

### General

Code number	102H4598
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

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

### Motor

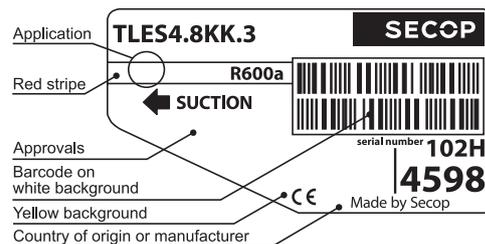
Motor type	RSIR/RSCR		
LRA (rated after 4 sec. UL984), HST   LST	A	-	1.9
Cut in Current, HST   LST	A	-	6.6
Resistance, main   start winding (25°C)	Ω	39.7	14.8

### Design

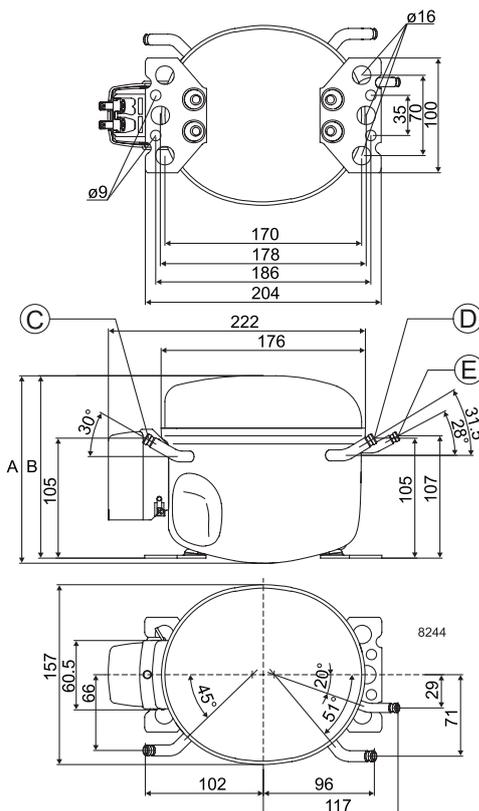
Displacement	cm <sup>3</sup>	4.78
Oil quantity (type)	cm <sup>3</sup>	180 (mineral)
Maximum refrigerant charge	g	150
Free gas volume in compressor	cm <sup>3</sup>	1690
Weight without electrical equipment	kg	6.4

### 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 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
- 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

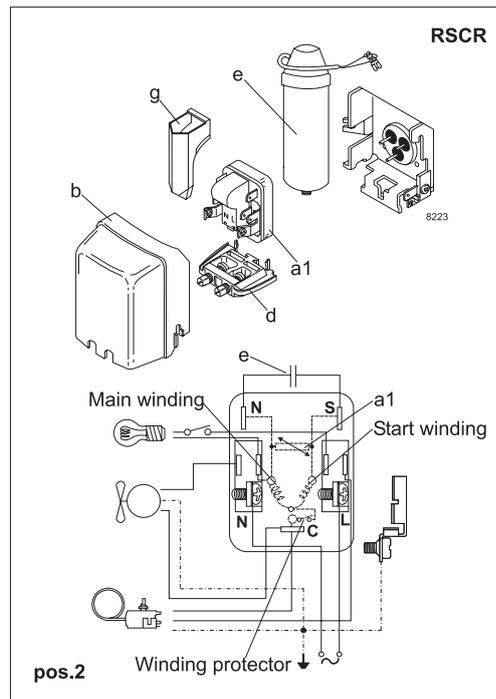
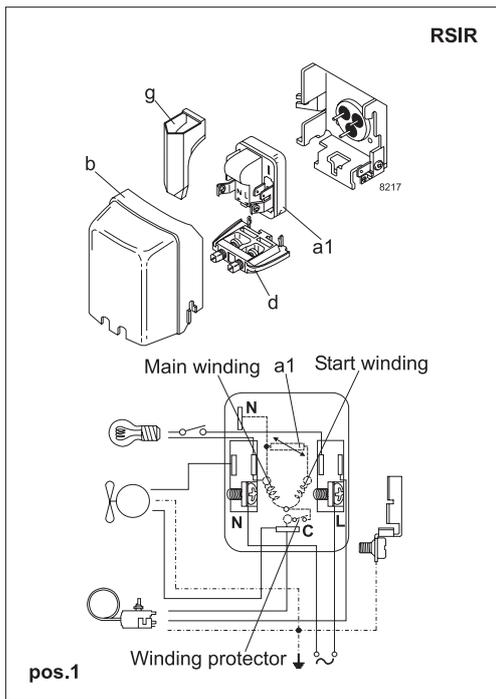


**EN 12900 Household (CECOMAF)** 220V, 50Hz, 2 W PTC consumption incl., static cooling

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			27.5	40.0	55.0	60.7	72.9	94.2	119								
Power cons. in W			41.1	48.1	55.0	57.4	62.1	69.6	77.9								
Current cons. in A			0.35	0.38	0.40	0.41	0.42	0.45	0.48								
COP in W/W			0.67	0.83	1.00	1.06	1.17	1.35	1.53								

**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			33.9	49.0	67.2	74.3	89.1	115	146								
Power cons. in W			41.2	48.1	54.9	57.3	61.9	69.3	77.5								
Current cons. in A			0.36	0.38	0.40	0.41	0.42	0.45	0.48								
COP in W/W			0.82	1.02	1.22	1.30	1.44	1.66	1.88								



Accessories for	TLES4.8KK.3	Figure	Code number	Test conditions	EN 12900/ CECOMAF	ASHRAE
PTC starting device	6.3 mm spade connectors	a1 (pos.1)	103N0011	Condensing temperature	55°C	54.4°C
	4.8 mm spade connectors		103N0018	Ambient temperature	32°C	32°C
PTC starting device	6.3 mm spade connectors	a1 (pos.2)	103N0016	Suction gas temperature	32°C	32°C
	4.8 mm spade connectors		103N0021	Liquid temperature	no subcooling	32°C
Cover		b	103N2010	<b>Mounting accessories</b>		
Cord relief		d	103N1010	Bolt joint for one comp.	Ø: 16 mm	118-1917
Run capacitor 4 µF (optional)	6.3 mm spade connectors	e	117-7117	Bolt joint in quantities	Ø: 16 mm	118-1918
	4.8 mm spade connectors		117-7119	Snap-on in quantities	Ø: 16 mm	118-1919
Protection screen for PTC		g	103N0476	<b>Code number</b>		

Nidec GA Compressors accepts no responsibility for possible errors in catalogs, brochures, and other printed material. Nidec GA Compressors reserves the right to alter its products without notice. This also applies to products already on order provided that such alterations can be made without subsequential changes being necessary to specifications already agreed. All trademarks in this material are the property of the respective companies. Secop and the Secop logotype are trademarks of Nidec Global Appliance Germany GmbH. All rights reserved. [www.secop.com](http://www.secop.com)