

TLES7F

Energy-optimized Compressor

R134a

220-240V 50Hz

Data Sheet (Replaces CG.42.F1.02)

General

Compressor	TLES7F
Code number	102G4710

Application

Application	LBP
Evaporating temperature range °C	-35 to -10
Voltage range V/Hz	198 - 254 /50
Motor type	RSIR/CSIR
Max. ambient temperature °C	38*
Comp. cooling at ambient temp. 32°C	S
38°C	S

* run capacitor 4 µF compulsory in 38°C ambient temperature

Design

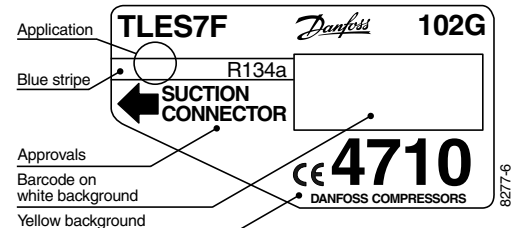
Displacement cm ³	6.49
Oil quantity cm ³	180
Maximum refrigerant charge g	400
Free gas vol. in compressor cm ³	1790
Weight without electrical equipment kg	7.8

Motor

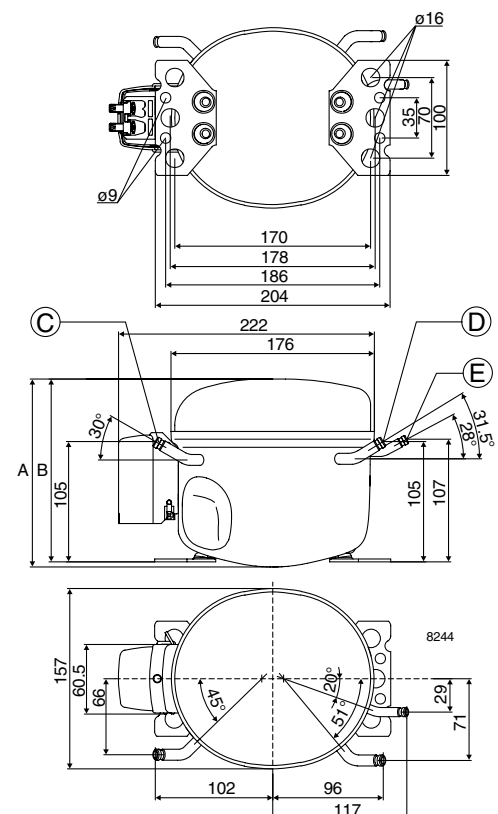
Motor size watt	140
LRA (rated after 4 sec. UL984) LST A	5.2
Cut-in current LST A	9.9
Resistance, main and start winding (25°C) Ω	13.9/15.3
Approvals	EN 60335-2-34 with Annex AA

Dimensions

Height mm	A	173
	B	169
Suction connector location/I.D. mm	C	6.2 ±0.09
Process connector location/I.D. mm	D	6.2 ±0.09
Discharge connector location/I.D. mm	E	5.0 +0.12/+0.20
Compressors on a pallet pcs.		125



- 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



Capacity (EN 12900/CECOMAF)

watt

Comp.\°C	-35	-30	-25	-23.3	-20	-15	-10
TLES7F	66	89	120	133	160	208	264

Capacity (ASHRAE)

watt

Comp.\°C	-35	-30	-25	-23.3	-20	-15	-10
TLES7F	81	109	148	163	197	256	326

Power consumption

watt

Comp.\°C	-35	-30	-25	-23.3	-20	-15	-10
TLES7F	89	107	127	134	148	170	192

Current consumption

A

Comp.\°C	-35	-30	-25	-23.3	-20	-15	-10
TLES7F	0.79	0.84	0.89	0.91	0.96	1.03	1.12

COP (EN 12900/CECOMAF)

W/W

Comp.\°C	-35	-30	-25	-23.3	-20	-15	-10
TLES7F	0.74	0.83	0.94	0.99	1.08	1.22	1.37

COP (ASHRAE)

W/W

Comp.\°C	-35	-30	-25	-23.3	-20	-15	-10
TLES7F	0.91	1.02	1.16	1.22	1.33	1.51	1.69

Test conditions

Condensing temperature

Ambient and suction gas temp.

Liquid temperature

Static cooling, 220V 50Hz,

PTC consumption incl.

EN 12900/CECOMAF

55°C

32°C

55°C

ASHRAE

55°C

32°C

32°C

Accessories

Devices	Fig.	TLES7F
PTC starting device	6.3 mm spades	a1
	4.8 mm spades	(pos.1)
PTC starting device	6.3 mm spades	a1
	4.8 mm spades	(pos.2)
Cover	b	103N2010
Cord relief	d	103N1010
Run capacitor 4 µF	6.3 mm spades	e
	4.8 mm spades	117-7117*
		117-7119*
Protection screen for PTC	g	103N0476
Mounting accessories		
Bolt joint for one compressor		118-1917
Bolt joint in quantities		118-1918
Snap-on in quantities		118-1919

* run capacitor 4 µF compulsory in 38°C ambient temperature

