

TLS6F

Standard Compressor

R134a

220-240V 50Hz

Data Sheet (Replaces CG.42.G1.02)

General

| | |
|-------------|----------|
| Compressor | TLS6F |
| Code number | 102G4620 |

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 |

Design

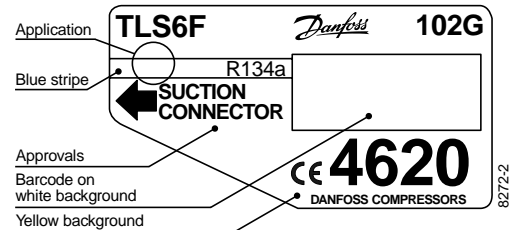
| | | |
|-------------------------------------|-----------------|------|
| Displacement | cm ³ | 5.70 |
| Oil quantity | cm ³ | 180 |
| Maximum refrigerant charge | g | 400 |
| Free gas vol. in compressor | cm ³ | 1790 |
| Weight without electrical equipment | kg | 7.3 |

Motor

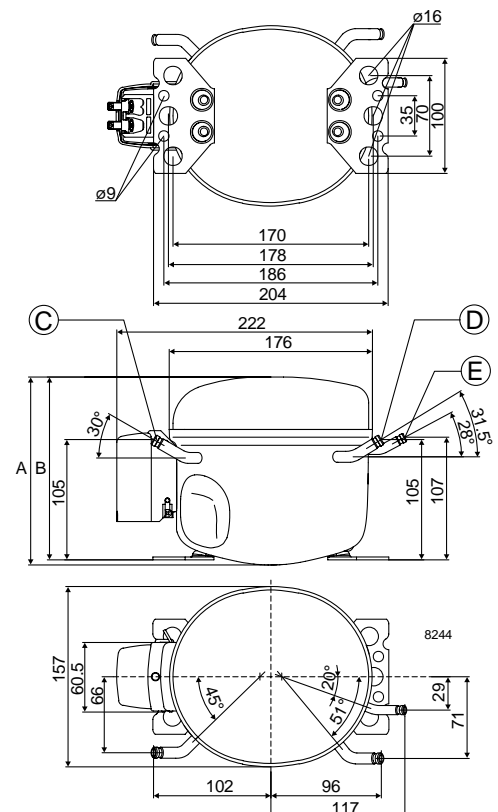
| | | |
|---|------|-----------------------------|
| Motor size | watt | 125 |
| alternative motor | | 110 |
| LRA (rated after 4 sec. UL984) LST/HST | A | 4.7/5.8 |
| alternative motor | | 4.3/5.1 |
| Cut-in current LST/HST | A | 8.7/5.8 |
| alternative motor | | 8.6/5.1 |
| Resistance, main and start winding (25°C) | Ω | 16.0/17.0 |
| alternative motor | | 18.2/15.1 |
| 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 |
| TLS6F | 58 | 77 | 104 | 115 | 139 | 183 | 235 |

Capacity (ASHRAE)

watt

| | | | | | | | |
|----------|-----|-----|-----|-------|-----|-----|-----|
| Comp. °C | -35 | -30 | -25 | -23.3 | -20 | -15 | -10 |
| TLS6F | 71 | 95 | 128 | 142 | 172 | 226 | 290 |

Power consumption

watt

| | | | | | | | |
|----------|-----|-----|-----|-------|-----|-----|-----|
| Comp. °C | -35 | -30 | -25 | -23.3 | -20 | -15 | -10 |
| TLS6F | 84 | 101 | 119 | 125 | 138 | 159 | 181 |

Current consumption

A

| | | | | | | | |
|----------|------|------|------|-------|------|------|------|
| Comp. °C | -35 | -30 | -25 | -23.3 | -20 | -15 | -10 |
| TLS6F | 0.78 | 0.82 | 0.86 | 0.88 | 0.92 | 0.99 | 1.08 |

COP (EN 12900/CECOMAF)

W/W

| | | | | | | | |
|----------|------|------|------|-------|------|------|------|
| Comp. °C | -35 | -30 | -25 | -23.3 | -20 | -15 | -10 |
| TLS6F | 0.69 | 0.76 | 0.87 | 0.92 | 1.01 | 1.15 | 1.30 |

COP (ASHRAE)

W/W

| | | | | | | | |
|----------|------|------|------|-------|------|------|------|
| Comp. °C | -35 | -30 | -25 | -23.3 | -20 | -15 | -10 |
| TLS6F | 0.85 | 0.94 | 1.08 | 1.13 | 1.24 | 1.42 | 1.60 |

Test conditions
 Condensing temperature 55°C
 Ambient and suction gas temp. 32°C
 Liquid temperature 55°C
 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. | TLS6F |
|---|------|----------------------|
| PTC starting device 6.3 mm spades 4.8 mm spades | a1 | 103N0011 103N0018 |
| Starting relay | a2 | 117U6004 |
| Cover | b | 103N2010 |
| Starting capacitor 60 µF | c | 117U5014 |
| Cord relief | d | 103N1010 |
| 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 |

