

TTE4F

Energy-optimized Compressor

R134a

115V 60Hz

Data Sheet (Replaces CD.42.W4.22)

General

| Compressor | | TTE4F |
|---------------------|----------------|-------------|
| Connector-material | Sealing | Code number |
| Copper-plated steel | Aluminium caps | |
| Copper-plated steel | Rubber plugs | 102G3440 |
| Copper | Rubber plugs | |

Application

| | | |
|---|--------------|------------------------|
| Application | | LBP |
| Evaporating temperature range | °F (°C) | -31 to 14 (-35 to -10) |
| Voltage range | V/Hz | 103 - 127 /60 |
| Motor type | | RSCR* |
| Max. ambient temperature | °F (°C) | 110 (43) |
| Comp. cooling at max. ambient temperature | 110°F (43°C) | S |

*run capacitor compulsory

Design

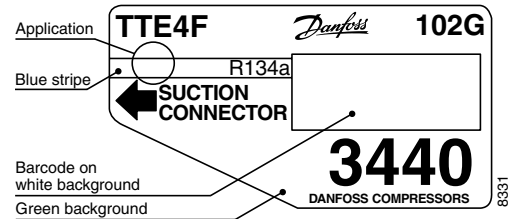
| | | |
|-------------------------------------|---------------------------|-------------|
| Displacement | cu.in. (cm ³) | 0.23 (3.86) |
| Oil quantity | fl.oz. (cm ³) | 6.1 (180) |
| Maximum refrigerant charge | oz. (g) | 14.0 (400) |
| Free gas vol. in compressor housing | fl.oz. (cm ³) | 60.6 (1790) |
| Weight without electrical equipment | lbs. (kg) | 16.5 (7.5) |

Motor

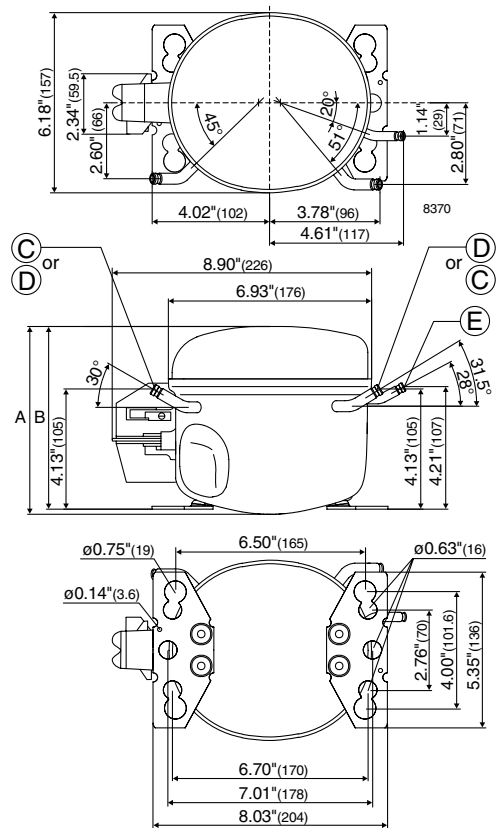
| | | |
|---|------|-----------------|
| Motor size | watt | 125 |
| LRA (rated after 4 sec. UL984) LST | A | 8.3 |
| Cut-in current LST | A | 17.7 |
| Resistance, main and start winding (77°F) Ω | | 4.2/4.0 |
| Approvals | | UL984/CSA-C22.2 |

Dimensions

| | | | |
|-------------------------|------------------------|---|-----------------------------|
| Height | in. (mm) | A | 6.81 (173) |
| | | B | 6.65 (169) |
| Suction connector | location/I.D. in. (mm) | C | 0.252-0.259 (6.5±0.09) |
| Process connector | location/I.D. in. (mm) | D | 0.252-0.259 (6.5±0.09) |
| Discharge connector | location/I.D. in. (mm) | E | 0.202-0.205 (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 temp. equal to ambient temperature)
- F₂ = Fan cooling 3.0 m/s necessary



Capacity (ASHRAE)

Btu/h

| | | | | | | | |
|----------|-------|-------|-----|-------|-------|-------|-----|
| Comp.\°F | -30 | -20 | -13 | -10 | 0 | 10 | 14 |
| Comp.\°C | -34.4 | -28.9 | -25 | -23.3 | -17.8 | -12.2 | -10 |
| TTE4F | 164 | 269 | 356 | 397 | 553 | 740 | 825 |

Capacity (EN 12900/CECOMAF)

watt

| | | | | | | | |
|----------|-------|-------|-----|-------|-------|-------|-----|
| Comp.\°C | -34.4 | -28.9 | -25 | -23.3 | -17.8 | -12.2 | -10 |
| Comp.\°F | -30 | -20 | -13 | -10 | 0 | 10 | 14 |
| TTE4F | 39 | 65 | 85 | 95 | 132 | 177 | 197 |

Power consumption

watt

| | | | | | | | |
|----------|-------|-------|-----|-------|-------|-------|-----|
| Comp.\°F | -30 | -20 | -13 | -10 | 0 | 10 | 14 |
| Comp.\°C | -34.4 | -28.9 | -25 | -23.3 | -17.8 | -12.2 | -10 |
| TTE4F | 65 | 79 | 89 | 94 | 110 | 126 | 133 |

Current consumption

A

| | | | | | | | |
|----------|-------|-------|------|-------|-------|-------|------|
| Comp.\°F | -30 | -20 | -13 | -10 | 0 | 10 | 14 |
| Comp.\°C | -34.4 | -28.9 | -25 | -23.3 | -17.8 | -12.2 | -10 |
| TTE4F | 1.13 | 1.21 | 1.26 | 1.29 | 1.39 | 1.50 | 1.55 |

EER (ASHRAE)

Btu/Wh

| | | | | | | | |
|----------|-------|-------|------|-------|-------|-------|------|
| Comp.\°F | -30 | -20 | -13 | -10 | 0 | 10 | 14 |
| Comp.\°C | -34.4 | -28.9 | -25 | -23.3 | -17.8 | -12.2 | -10 |
| TTE4F | 2.54 | 3.40 | 3.98 | 4.23 | 5.04 | 5.86 | 6.19 |

COP (EN 12900/CECOMAF)

W/W

| | | | | | | | |
|----------|-------|-------|------|-------|-------|-------|------|
| Comp.\°C | -34.4 | -28.9 | -25 | -23.3 | -17.8 | -12.2 | -10 |
| Comp.\°F | -30 | -20 | -13 | -10 | 0 | 10 | 14 |
| TTE4F | 0.61 | 0.82 | 0.95 | 1.01 | 1.21 | 1.40 | 1.48 |

| | | |
|---|----------------|------------------|
| Test conditions | ASHRAE | EN 12900/CECOMAF |
| Condensing temperature | 130°F (54,4°C) | 55°C (131°F) |
| Ambient and suction gas temp. | 90°F (32°C) | 32°C (90°F) |
| Liquid temperature | 90°F (32°C) | 55°C (131°F) |
| Static cooling, with RC 15 µF, 115V 60Hz, PTC consumption incl. | | |

Accessories

| Devices | Fig. | TTE4F |
|---|---------------------|-------------------|
| PTC starting device (Texas Instr.) with reduced loss of energy | a1 | 117U6102 |
| | | TI 8EA 4B3 |
| PTC starting device (Siemens) with reduced loss of energy | a1 (alternative) | 117U6106 |
| | | J506-A120-A320 |
| Cover | b | 117U1026 |
| Run capacitor 15 µF (compulsory) | e | 117-7118 |
| Protector (Texas Instruments) | f | 117U3304 |
| | | TI-4TM302NFBYY-53 |
| Mounting accessories | Ø in. (mm) | |
| Bolt joint for one compressor | 5/8 (16) | 118-1946 |
| Bolt joint for one compressor | 3/4 (19) | 118-1949 |
| Snap-on for one compressor | 5/8 (16) | 118-1947 |

