

SC21FTX Tropical Compressor R134a 208-230V 60Hz

General

| | |
|-----------------------|---------------|
| Code number | 104G8106 |
| Approvals | EN 60335-2-34 |
| Compressors on pallet | 80 |

Application

| Application | LBP | | |
|--|-----|----|-----------|
| Frequency | Hz | 50 | 60 |
| Evaporating temperature | °C | - | -35 to -5 |
| Voltage range | V | - | 187 - 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 | | - | - | - | F ₂ | - | - |
| 38°C | | - | - | - | F ₂ | - | - |
| 43°C | | - | - | - | F ₂ | - | - |
| Remarks on application: | | | | | | | |

Motor

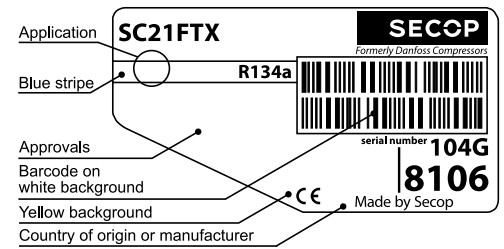
| Motor type | CSR | | |
|---|-----|------|------|
| LRA (rated after 4 sec. UL984), HST LST | A | 23.4 | - |
| Cut in Current, HST LST | A | 23.4 | - |
| Resistance, main start winding (25°C) | Ω | 3.4 | 14.4 |

Design

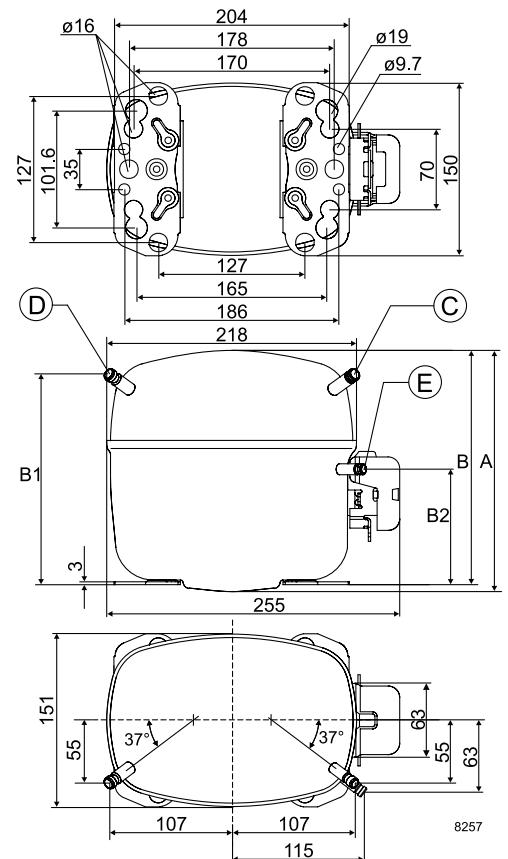
| | | |
|-------------------------------------|-----------------|-------------------|
| Displacement | cm ³ | 20.95 |
| Oil quantity (type) | cm ³ | 550 (polyolester) |
| Maximum refrigerant charge | g | 1300 |
| Free gas volume in compressor | cm ³ | 1460 |
| Weight without electrical equipment | kg | 14.0 |

Dimensions

| | | | |
|----------------------|--------------------------|----|--------------------------|
| Height | mm | A | 219 |
| | | B | 213 |
| | | B1 | 193 |
| | | B2 | 110 |
| Suction connector | location/I.D. mm angle | C | 10.2 37° |
| | material comment | | Cu-plated steel Al cap |
| Process connector | location/I.D. mm angle | D | 6.2 37° |
| | material comment | | Cu-plated steel Al cap |
| Discharge connector | location/I.D. mm angle | E | 6.2 37° |
| | 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 |
| Remarks: | | | |



- 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
- SG = Suction gas cooling normally sufficient
- = not applicable in this area

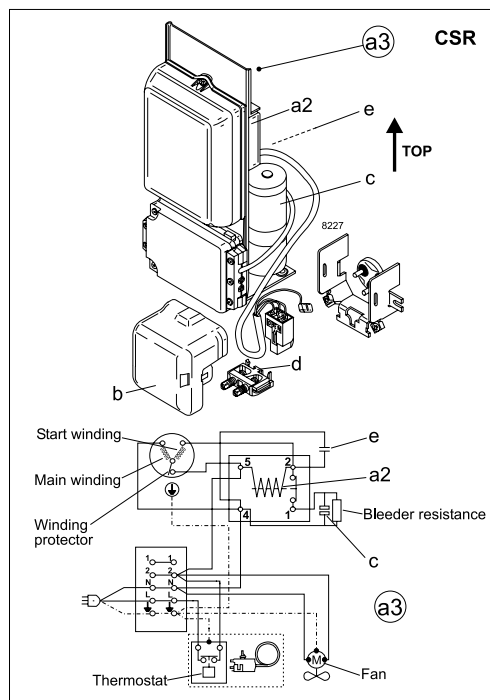


EN 12900 Household (CECOMAF) 220V, 60Hz, fan cooling F₂

| | | | | | | | | | | | | | | | | | |
|--------------------|-----|-----|------|------|------|-------|------|------|------|------|------|---|---|-----|----|----|----|
| 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 | | | 240 | 345 | 470 | 518 | 620 | 800 | 1012 | 1173 | 1262 | | | | | | |
| Power cons. in W | | | 342 | 409 | 475 | 499 | 545 | 621 | 707 | 770 | 805 | | | | | | |
| Current cons. in A | | | 1.66 | 1.95 | 2.25 | 2.36 | 2.58 | 2.93 | 3.30 | 3.55 | 3.69 | | | | | | |
| COP in W/W | | | 0.70 | 0.84 | 0.99 | 1.04 | 1.14 | 1.29 | 1.43 | 1.52 | 1.57 | | | | | | |

ASHRAE LBP 220V, 60Hz, fan cooling F₂

| | | | | | | | | | | | | | | | | | |
|--------------------|-----|-----|------|------|------|-------|------|------|------|------|------|---|---|-----|----|----|----|
| 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 | | | 296 | 425 | 580 | 639 | 766 | 988 | 1251 | 1450 | 1561 | | | | | | |
| Power cons. in W | | | 342 | 409 | 475 | 499 | 545 | 621 | 707 | 770 | 805 | | | | | | |
| Current cons. in A | | | 1.66 | 1.95 | 2.25 | 2.36 | 2.58 | 2.93 | 3.30 | 3.55 | 3.69 | | | | | | |
| COP in W/W | | | 0.87 | 1.04 | 1.22 | 1.28 | 1.40 | 1.59 | 1.77 | 1.88 | 1.94 | | | | | | |



| Accessories for | SC21FTX | Figure | Code number | Test conditions | EN 12900/CECOMAF | ASHRAE LBP |
|--------------------|----------------------|--------|-------------------------------|-----------------------------|------------------|------------|
| Starting device | 470 mm cable length | a3 | 117-7038 | Condensing temperature | 55°C | 55°C |
| | 550 mm cable length | | 117-7039 | Ambient temperature | 32°C | 32°C |
| | 1000 mm cable length | | 117-7043 | Suction gas temperature | 32°C | 32°C |
| Cover | | b | 103N2008 | Liquid temperature | 55°C | 32°C |
| Starting relay | | a2 | Components of starting device | Mounting accessories | | |
| Starting capacitor | | c | | Bolt joint for one comp. | Ø: 16 mm | 118-1917 |
| Run capacitor | | e | | Bolt joint in quantities | Ø: 16 mm | 118-1918 |
| Cord relief | | d | | Snap-on in quantities | Ø: 16 mm | 118-1919 |

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