

SC10CL LBP/MBP Compressor R404A/R507 220-240V 50Hz

General

| | |
|-----------------------|---------------|
| Code number | 104L2523 |
| Approvals | EN 60335-2-34 |
| Compressors on pallet | 80 |

Application

| Application | LBP/MBP | | |
|--|---------|-----------|----|
| Frequency | Hz | 50 | 60 |
| Evaporating temperature | °C | -35 to -5 | - |
| Voltage range | V | 198 - 254 | - |
| Max. condensing temperature continuous (short) | °C | 55 (60) | - |
| 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 | F ₂ | - | - | - | - |
| 38°C | | F ₂ | F ₂ | - | - | - | - |
| 43°C | | - | - | - | - | - | - |
| Remarks on application: | | | | | | | |

Motor

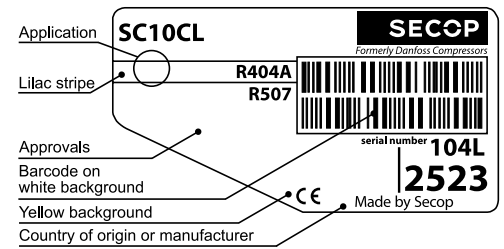
| Motor type | CSIR | | |
|---|------|------|------|
| LRA (rated after 4 sec. UL984), HST LST | A | 12.6 | - |
| Cut in Current, HST LST | A | 12.6 | - |
| Resistance, main start winding (25°C) | Ω | 6.7 | 11.8 |

Design

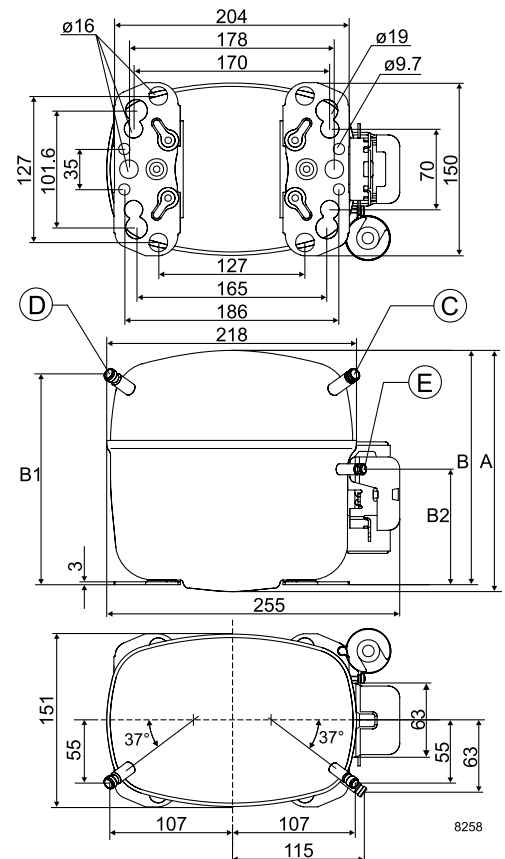
| | | |
|-------------------------------------|-----------------|-------------------|
| Displacement | cm ³ | 10.29 |
| Oil quantity (type) | cm ³ | 550 (polyolester) |
| Maximum refrigerant charge | g | 1300 |
| Free gas volume in compressor | cm ³ | 1460 |
| Weight without electrical equipment | kg | 13.1 |

Dimensions

| | | | |
|----------------------|--------------------------|--------------------------|-----------|
| Height | mm | A | 209 |
| | | B | 203 |
| | | B1 | 183 |
| | | B2 | 100 |
| Suction connector | location/I.D. mm angle | C | 8.2 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

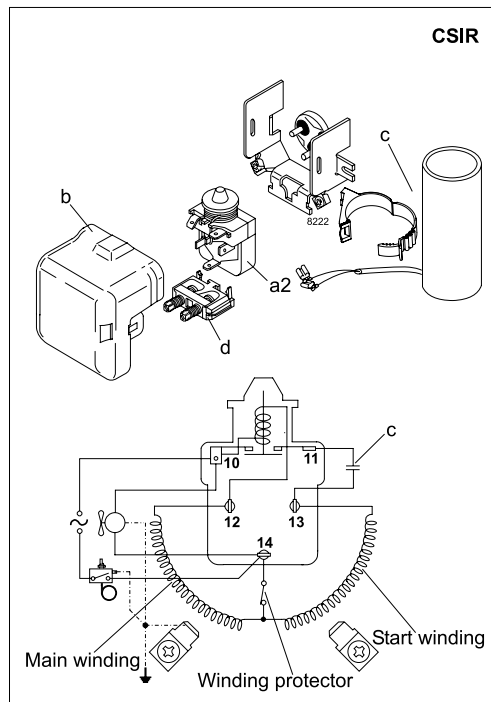


EN 12900 Household (CECOMAF) 220V, 50Hz, fan cooling F₂

| | | | | | | | | | | | | | | | | | |
|--------------------|-----|-----|------|------|------|-------|------|------|------|------|------|---|---|-----|----|----|----|
| 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 | | | 168 | 258 | 365 | 405 | 489 | 634 | 800 | 923 | 991 | | | | | | |
| Power cons. in W | | | 243 | 294 | 350 | 370 | 410 | 471 | 530 | 566 | 584 | | | | | | |
| Current cons. in A | | | 1.91 | 2.05 | 2.22 | 2.27 | 2.39 | 2.59 | 2.81 | 2.96 | 3.04 | | | | | | |
| COP in W/W | | | 0.69 | 0.88 | 1.04 | 1.09 | 1.19 | 1.35 | 1.51 | 1.63 | 1.70 | | | | | | |

ASHRAE LBP* 220V, 50Hz, 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 | | | 195 | 300 | 424 | 470 | 569 | 737 | 932 | 1071 | 1154 | | | | | | |
| Power cons. in W | | | 243 | 294 | 350 | 370 | 410 | 471 | 530 | 566 | 584 | | | | | | |
| Current cons. in A | | | 1.91 | 2.05 | 2.22 | 2.27 | 2.39 | 2.59 | 2.81 | 2.96 | 3.04 | | | | | | |
| COP in W/W | | | 0.80 | 1.02 | 1.21 | 1.27 | 1.39 | 1.57 | 1.76 | 1.89 | 1.98 | | | | | | |



| Accessories for | SC10CL | Figure | Code number | Test conditions | EN 12900/CECOMAF | ASHRAE LBP* |
|---------------------------|-------------------------|--------|-------------|-----------------------------|------------------|--------------------|
| PTC starting device | 6.3 mm spade connectors | a1 | – | Condensing temperature | 45°C | 45°C |
| | 4.8 mm spade connectors | | – | Ambient temperature | 32°C | 32°C |
| Starting relay | 6.3 mm spade connectors | a2 | 117U6003 | Suction gas temperature | 32°C | 32°C |
| Cover | | b | 103N2009 | Liquid temperature | no subcooling | 32°C |
| Start. capacitor 80 µF | 6.3 mm spade connectors | c | 117U5017 | | | |
| Cord relief | | d | 103N1004 | | | |
| Protection screen for PTC | | g | – | | | |
| | | | | Mounting accessories | | Code number |
| | | | | Bolt joint for one comp. | Ø: 16 mm | 118-1917 |
| | | | | Bolt joint in quantities | Ø: 16 mm | 118-1918 |
| | | | | Snap-on in quantities | Ø: 16 mm | 118-1919 |

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