

SC10CLX LBP/MBP Compressor R404A/R507 220-240V 50/60Hz

General

| | |
|-----------------------|----------------------|
| Code number | 104L2533 |
| Approvals | EN 60335-2-34, UL984 |
| Compressors on pallet | 80 |

Application

| Application | LBP/MBP | | | |
|--|---------|-----------|-----------|--|
| Frequency | Hz | 50 | 60 | |
| Evaporating temperature | °C | -35 to 5 | -35 to -5 | |
| Voltage range | V | 198 - 254 | 198 - 254 | |
| Max. condensing temperature continuous (short) | °C | 50 (60) | 50 (60) | |
| Max. winding temperature continuous (short) | °C | 125 (135) | 125 (135) | |

Cooling requirements

| Frequency | Hz | 50 | | | 60 | | |
|-------------------------|----|----------------|----------------|-----|----------------|----------------|-----|
| Application | | LBP | MBP | HBP | LBP | MBP | HBP |
| 32°C | | F ₂ | F ₂ | - | F ₂ | F ₂ | - |
| 38°C | | F ₂ | F ₂ | - | F ₂ | F ₂ | - |
| 43°C | | - | - | - | - | - | - |
| Remarks on application: | | | | | | | |

Motor

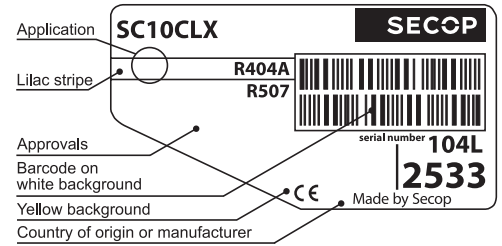
| Motor type | CSIR | | |
|---|------|------|------|
| LRA (rated after 4 sec. UL984), HST LST | A | 14.8 | - |
| Cut in Current, HST LST | A | 14.8 | - |
| Resistance, main start winding (25°C) | Ω | 5.0 | 13.7 |

Design

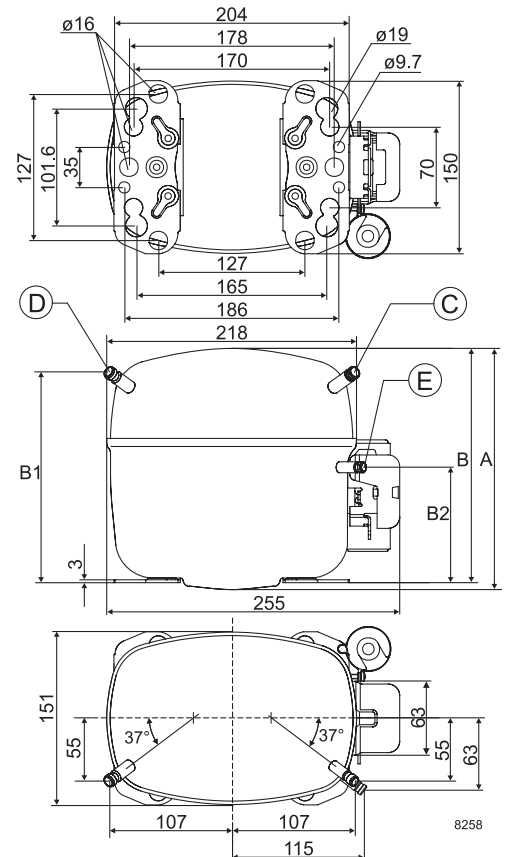
| | | |
|-------------------------------------|-----------------|-------------------|
| Displacement | cm ³ | 10.29 |
| Oil quantity (type) | cm ³ | 550 (polyolester) |
| Maximum refrigerant charge | g | 1300 |
| Free gas volume in compressor | cm ³ | 1460 |
| Weight without electrical equipment | kg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



ASHRAE LBP*

 230V, 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 | | | 274 | 399 | 537 | 587 | 690 | 862 | 1057 | 1200 | 1279 | | | | | | |
| Power cons. in W | | | 312 | 374 | 430 | 449 | 487 | 547 | 617 | 670 | 700 | | | | | | |
| Current cons. in A | | | 2.21 | 2.37 | 2.55 | 2.62 | 2.76 | 3.00 | 3.27 | 3.46 | 3.57 | | | | | | |
| COP in W/W | | | 0.88 | 1.07 | 1.25 | 1.31 | 1.42 | 1.57 | 1.71 | 1.79 | 1.83 | | | | | | |

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 | | | 202 | 306 | 428 | 474 | 571 | 738 | 930 | 1071 | 1149 | 1399 | 1682 | | | | |
| Power cons. in W | | | 260 | 304 | 353 | 370 | 404 | 455 | 503 | 533 | 548 | 585 | 614 | | | | |
| Current cons. in A | | | 2.01 | 2.16 | 2.32 | 2.38 | 2.50 | 2.70 | 2.92 | 3.08 | 3.16 | 3.42 | 3.69 | | | | |
| COP in W/W | | | 0.78 | 1.01 | 1.21 | 1.28 | 1.42 | 1.62 | 1.85 | 2.01 | 2.10 | 2.39 | 2.74 | | | | |

EN 12900 Household (CECOMAF)

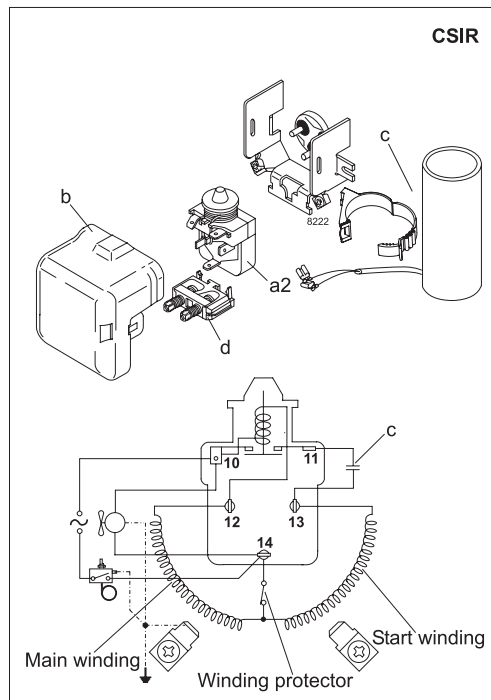
 230V, 60Hz, fan cooling F₂

| | | | | | | | | | | | | | | | | | |
|--------------------|-----|-----|------|------|------|-------|------|------|------|------|------|---|---|-----|----|----|----|
| 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 | | | 224 | 335 | 455 | 499 | 588 | 738 | 906 | 1028 | 1096 | | | | | | |
| Power cons. in W | | | 304 | 370 | 430 | 450 | 489 | 552 | 623 | 677 | 707 | | | | | | |
| Current cons. in A | | | 2.19 | 2.36 | 2.55 | 2.62 | 2.77 | 3.02 | 3.30 | 3.50 | 3.61 | | | | | | |
| COP in W/W | | | 0.74 | 0.90 | 1.06 | 1.11 | 1.20 | 1.34 | 1.45 | 1.52 | 1.55 | | | | | | |

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 | | | 166 | 255 | 360 | 400 | 483 | 625 | 789 | 910 | 977 | 1190 | 1430 | | | | |
| Power cons. in W | | | 258 | 302 | 352 | 369 | 404 | 457 | 508 | 540 | 556 | 597 | 631 | | | | |
| Current cons. in A | | | 2.00 | 2.15 | 2.32 | 2.38 | 2.51 | 2.72 | 2.94 | 3.10 | 3.19 | 3.45 | 3.73 | | | | |
| COP in W/W | | | 0.64 | 0.84 | 1.02 | 1.08 | 1.20 | 1.37 | 1.55 | 1.68 | 1.76 | 1.99 | 2.27 | | | | |



| Accessories for | SC10CLX | Figure | Code number | Test conditions | EN 12900/CECOMAF | ASHRAE LBP* |
|---------------------------|-------------------------|--------|-------------|-----------------------------|--------------------|-------------|
| PTC starting device | 6.3 mm spade connectors | a1 | - | Condensing temperature | 45°C | 43.3°C |
| | 4.8 mm spade connectors | | - | Ambient temperature | 32°C | 32°C |
| Starting relay | 6.3 mm spade connectors | a2 | 117U6005 | Suction gas temperature | 32°C | 32°C |
| Cover | | b | 103N2008 | 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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