

SC18CLX.2 LBP Compressor R404A/R507 115V 60Hz

General

| | |
|-----------------------|----------|
| Code number | 104L2199 |
| Approvals | UL984 |
| Compressors on pallet | 60 |

Application

| Application | LBP | | | |
|--|-----|----|-----------|--|
| Frequency | Hz | 50 | 60 | |
| Evaporating temperature | °F | - | -49 to 14 | |
| Voltage range | V | - | 103 - 127 | |
| Max. condensing temperature continuous (short) | °F | - | 131 (140) | |
| Max. winding temperature continuous (short) | °F | - | 257 (275) | |

Cooling requirements

| Frequency | Hz | 50 | | | 60 | | |
|-------------|----|-----|-----|-----|----------------|-----|-----|
| Application | | LBP | MBP | HBP | LBP | MBP | HBP |
| 90°F | | - | - | - | F ₂ | - | - |
| 100°F | | - | - | - | F ₂ | - | - |
| 110°F | | - | - | - | F ₂ | - | - |

Remarks on application:

Low impedance electrical harness is needed to ensure sufficient starting voltage and to avoid fuse-cut-out. Pressure equalization is recommend to ensure smooth start. Minimum compressor pin voltage may not decrease below 94V in any situation of start or operation condition.

Motor

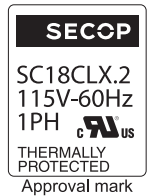
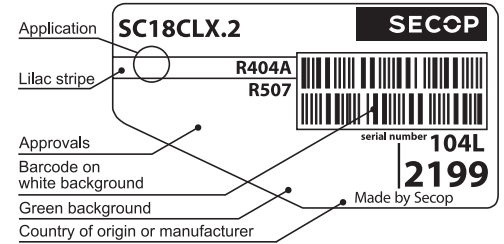
| Motor type | CSR | | |
|---|-----|------|-----|
| LRA (rated after 4 sec. UL984), HST LST | A | 63.0 | - |
| Cut in Current, HST LST | A | 63.0 | - |
| Resistance, main start winding (77°F) | Ω | 0.6 | 3.2 |

Design

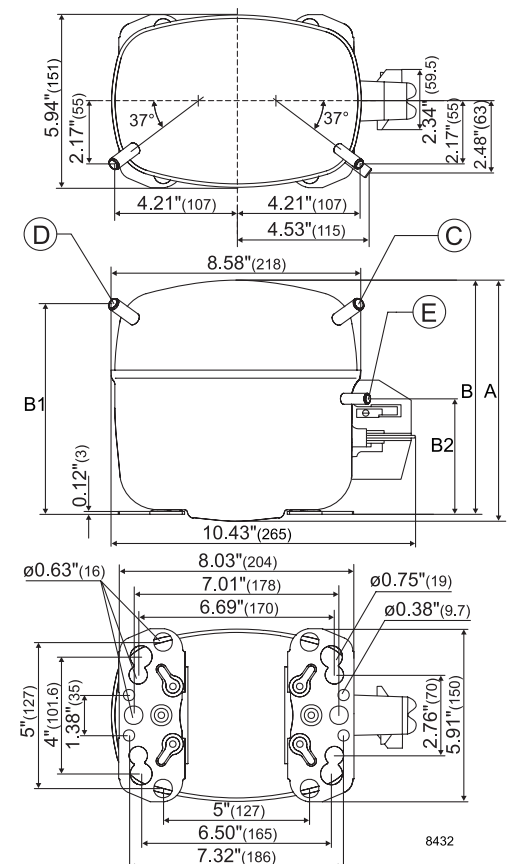
| | | |
|-------------------------------------|--------|--------------------|
| Displacement | cu.in | 1.08 |
| Oil quantity (type) | fl.oz. | 18.6 (polyolester) |
| Maximum refrigerant charge | oz. | 45.5 |
| Free gas volume in compressor | fl.oz. | 49.4 |
| Weight without electrical equipment | lbs. | 30.9 |

Dimensions

| | | | |
|------------------------|----------------------------|----|-----------------------|
| Height | inch | A | 8.62 |
| | | B | 8.39 |
| | | B1 | 7.60 |
| | | B2 | 4.33 |
| Suction connector | location, I.D. in. angle | C | 0.378-0.385 37° |
| | material comment | | Copper Rubber plug |
| Process connector | location, I.D. in. angle | D | 0.252-0.259 37° |
| | material comment | | Copper Rubber plug |
| Discharge connector | location, I.D. in. angle | E | 0.252-0.259 37° |
| | material comment | | CCopper Rubber plug |
| Oil cooler connector | location, I.D. in. angle | F | - |
| | material comment | | - |
| Remarks: Large Fusite® | | | |



- 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

115V, 60Hz, fan cooling F₂

| | | | | | | | | | | | | | | | | | |
|--------------------|-----|------|------|------|------|------|------|-------|-------|----|----|----|----|----|----|----|----|
| Evap. temp. in °F | -49 | -40 | -30 | -20 | -13 | -10 | 0 | 10 | 14 | 20 | 30 | 40 | 41 | 45 | 50 | 59 | 68 |
| Capacity in BTU/h | | 739 | 1810 | 2755 | 3386 | 3656 | 4598 | 5663 | 6143 | | | | | | | | |
| Power cons. in W | | 408 | 565 | 700 | 784 | 818 | 924 | 1024 | 1064 | | | | | | | | |
| Current cons. in A | | 6.66 | 7.44 | 8.22 | 8.76 | 8.99 | 9.75 | 10.51 | 10.81 | | | | | | | | |
| EER in BTU/Wh | | 1.81 | 3.20 | 3.93 | 4.32 | 4.47 | 4.97 | 5.53 | 5.77 | | | | | | | | |

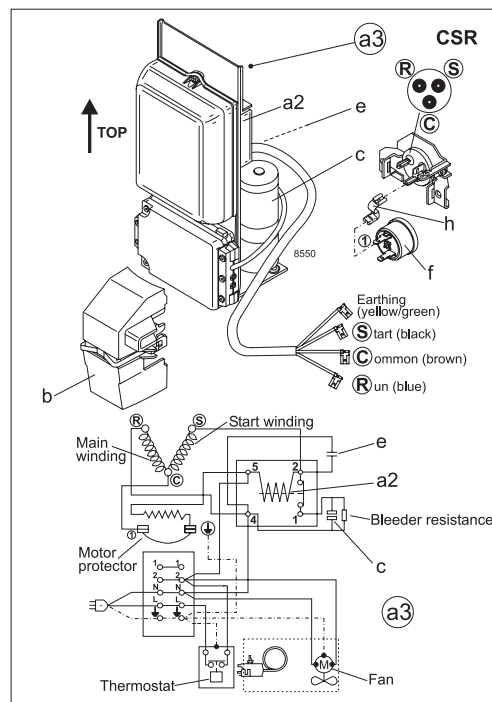
ASHRAE LBP*

115V, 60Hz, fan cooling F₂

| | | | | | | | | | | | | | | | | | |
|--------------------|-----|------|------|------|------|------|------|-------|-------|----|----|----|----|----|----|----|----|
| Evap. temp. in °F | -49 | -40 | -30 | -20 | -13 | -10 | 0 | 10 | 14 | 20 | 30 | 40 | 41 | 45 | 50 | 59 | 68 |
| Capacity in BTU/h | | 1368 | 2199 | 3013 | 3611 | 3881 | 4874 | 6062 | 6609 | | | | | | | | |
| Power cons. in W | | 467 | 593 | 700 | 768 | 795 | 883 | 970 | 1005 | | | | | | | | |
| Current cons. in A | | 6.89 | 7.55 | 8.20 | 8.65 | 8.84 | 9.48 | 10.11 | 10.37 | | | | | | | | |
| EER in BTU/Wh | | 2.93 | 3.71 | 4.30 | 4.70 | 4.88 | 5.52 | 6.25 | 6.57 | | | | | | | | |

EN 12900 Household (CECOMAF)* 115V, 60Hz, fan cooling F₂

| | | | | | | | | | | | | | | | | | |
|--------------------|-----|------|------|------|------|------|------|-------|-------|----|----|----|----|----|----|----|----|
| Evap. temp. in °F | -49 | -40 | -30 | -20 | -13 | -10 | 0 | 10 | 14 | 20 | 30 | 40 | 41 | 45 | 50 | 59 | 68 |
| Capacity in BTU/h | | 1114 | 1856 | 2570 | 3086 | 3318 | 4162 | 5163 | 5621 | | | | | | | | |
| Power cons. in W | | 458 | 589 | 701 | 771 | 799 | 890 | 979 | 1015 | | | | | | | | |
| Current cons. in A | | 6.86 | 7.54 | 8.21 | 8.67 | 8.87 | 9.53 | 10.18 | 10.44 | | | | | | | | |
| EER in BTU/Wh | | 2.43 | 3.15 | 3.67 | 4.00 | 4.15 | 4.68 | 5.28 | 5.54 | | | | | | | | |



| Accessories for | SC18CLX.2 | Figure | Code number | Test conditions | ASHRAE LBP | ASHRAE LBP* | EN 12900/CECOMAF* |
|--|-----------------------|--------|-------------|-----------------------------|------------|--------------------|-------------------|
| Starting device assembly | | | | Condensing temp. | 130°F | 110°F | 113°F |
| CSR | 23.6 in. cable length | a3 | 117-7069 | Ambient temperature | 90°F | 90°F | 90°F |
| CSIR | 23.6 in. cable length | | - | Suction gas temp. | 90°F | 90°F | 90°F |
| | | | | Liquid temperature | 90°F | 90°F | no subcooling |
| Cover | | b | 117U1021 *) | Mounting accessories | | Code number | |
| Protector | | f | 117U3212 *) | Bolt joint for one comp. | Ø: 5/8 in. | 118-1917 | |
| Protector holder | | h | 117U0439 *) | Bolt joint in quantities | Ø: 5/8 in. | 118-1918 | |
| *) Remarks: Cover, protector, protector holder parts of compressor | | | | Snap-on in quantities | Ø: 5/8 in. | 118-1919 | |

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