

Single Pack SC10CNX.2 115V 60Hz CSIR

Single pack code number: **195B4523**

| Position | Title | Code | Amount |
|----------|--|----------|--------|
| 1 | Compressor SC10CNX.2 | 104H7070 | 1 |
| 2 | Starting relay | 117U7020 | 1 |
| 3 | Starting capacitor (240µF 125V, 6.3mm) | 117U5023 | 1 |
| 4 | Cord relief | 103N1004 | 1 |
| 5 | Cover | 103N2008 | 1 |
| 6 | Bolt joint for one compressor M6 ø16mm | 118-1917 | 1 |

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SC10CNX.2 LBP/MBP Compressor R290 115V 60Hz

General

| | |
|-----------------------|----------|
| Code number | 104H7070 |
| Approvals | UL984 |
| Compressors on pallet | 80 |

Application

| Application | LBP/MBP | | | |
|--|---------|----|-----------|--|
| Frequency | Hz | 50 | 60 | |
| Evaporating temperature | °F | – | –49 to 45 | |
| Voltage range | V | – | 95 - 135 | |
| Max. condensing temperature continuous (short) | °F | – | 131 (149) | |
| Max. winding temperature continuous (short) | °F | – | 257 (275) | |

Cooling requirements

| | | | |
|-------------------------|-----|-----|-----|
| Frequency | Hz | 50 | 60 |
| Application | LBP | MBP | HBP |
| 90°F | – | – | – |
| 100°F | – | – | – |
| 110°F | – | – | – |
| Remarks on application: | | | |

Motor

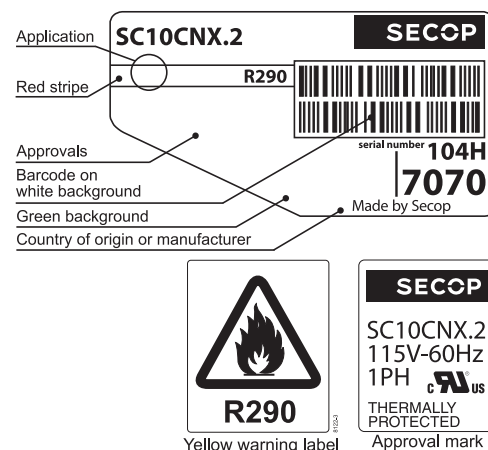
| | | | |
|---|------|------|-----|
| Motor type | CSIR | | |
| LRA (rated after 4 sec. UL984), HST LST | A | 41.9 | – |
| Cut in Current, HST LST | A | 41.9 | – |
| Resistance, main start winding (77°F) | Ω | 1.0 | 4.3 |

Design

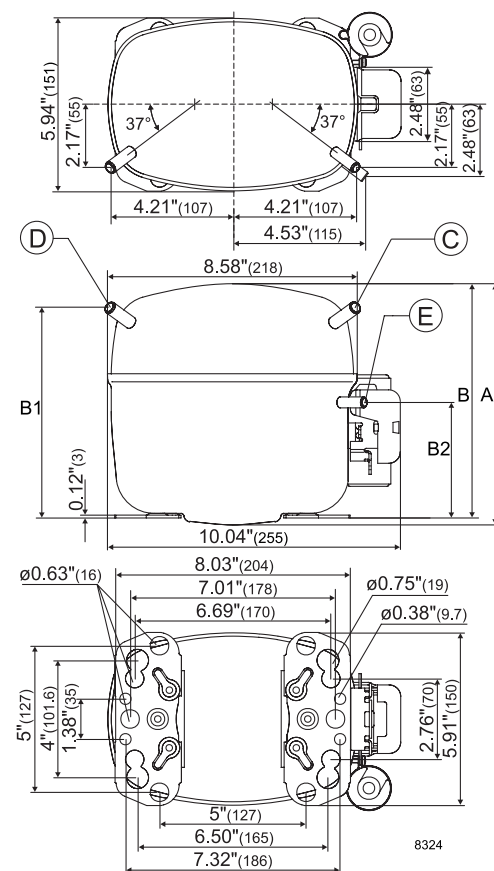
| | | |
|-------------------------------------|--------|--------------------|
| Displacement | cu.in | 0.63 |
| Oil quantity (type) | fl.oz. | 16.9 (polyolester) |
| Maximum refrigerant charge | oz. | 5.3 |
| Free gas volume in compressor | fl.oz. | 49.4 |
| Weight without electrical equipment | lbs. | 27.8 |

Dimensions

| | | | |
|----------------------|----------------------------|----|----------------------|
| Height | inch | A | 8.23 |
| | | B | 8.00 |
| | | B1 | 7.20 |
| | | B2 | 3.93 |
| 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 | | Copper Rubber plug |
| Oil cooler connector | location, I.D. in. angle | F | – |
| | material comment | | – |
| 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

 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 | | 204 | 571 | 1007 | 1359 | 1523 | 2133 | 2848 | 3167 | 3682 | 4649 | 5762 | 5882 | 6378 | | | |
| Power cons. in W | | 193 | 262 | 325 | 366 | 383 | 434 | 479 | 495 | 517 | 548 | 572 | 573 | 580 | | | |
| Current cons. in A | | 4.99 | 5.21 | 5.44 | 5.60 | 5.67 | 5.92 | 6.17 | 6.28 | 6.44 | 6.71 | 7.00 | 7.02 | 7.14 | | | |
| EER in BTU/Wh | | 1.06 | 2.18 | 3.10 | 3.71 | 3.98 | 4.91 | 5.95 | 6.40 | 7.12 | 8.48 | 10.08 | 10.26 | 10.99 | | | |

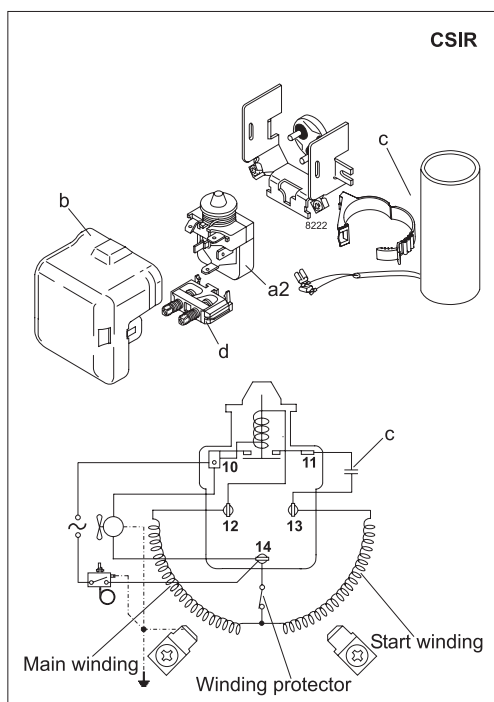
ASHRAE HBP/MBP

 115V, 60Hz, fan cooling F₂

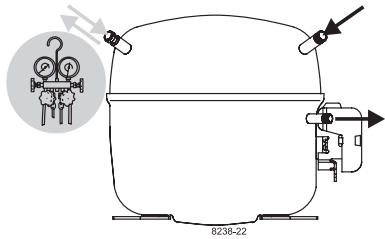
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|--------------------|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|----|----|----|
| Evap. temp. in °F | -49 | -40 | -30 | -20 | -13 | -10 | 0 | 10 | 14 | 20 | 30 | 40 | 41 | 45 | 50 | 59 | 68 |
| Capacity in BTU/h | | 181 | 509 | 896 | 1209 | 1355 | 1896 | 2530 | 2812 | 3269 | 4123 | 5104 | 5210 | 5646 | | | |
| Power cons. in W | | 193 | 262 | 325 | 366 | 383 | 434 | 479 | 495 | 517 | 548 | 572 | 573 | 580 | | | |
| Current cons. in A | | 4.99 | 5.21 | 5.44 | 5.60 | 5.67 | 5.92 | 6.17 | 6.28 | 6.44 | 6.71 | 7.00 | 7.02 | 7.14 | | | |
| EER in BTU/Wh | | 0.94 | 1.94 | 2.76 | 3.30 | 3.54 | 4.37 | 5.28 | 5.68 | 6.32 | 7.52 | 8.93 | 9.09 | 9.73 | | | |

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

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|--------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----|----|----|
| Evap. temp. in °F | -49 | -40 | -30 | -20 | -13 | -10 | 0 | 10 | 14 | 20 | 30 | 40 | 41 | 45 | 50 | 59 | 68 |
| Capacity in W | 53 | 125 | 219 | 332 | 423 | 465 | 623 | 808 | 890 | 1022 | 1269 | 1552 | 1583 | 1708 | | | |
| Power cons. in W | 160 | 217 | 275 | 328 | 362 | 375 | 417 | 453 | 466 | 483 | 506 | 521 | 522 | 526 | | | |
| Current cons. in A | 4.95 | 5.08 | 5.24 | 5.40 | 5.53 | 5.58 | 5.77 | 5.96 | 6.04 | 6.17 | 6.38 | 6.61 | 6.63 | 6.73 | | | |
| COP in W/W | 0.33 | 0.58 | 0.80 | 1.01 | 1.17 | 1.24 | 1.49 | 1.78 | 1.91 | 2.12 | 2.51 | 2.98 | 3.03 | 3.25 | | | |

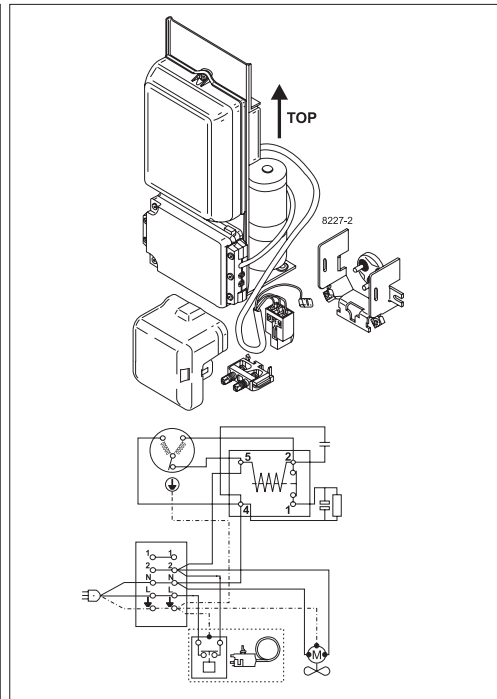
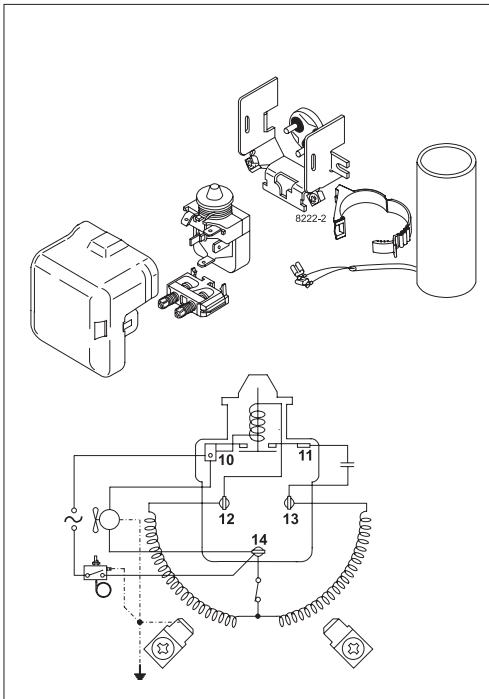
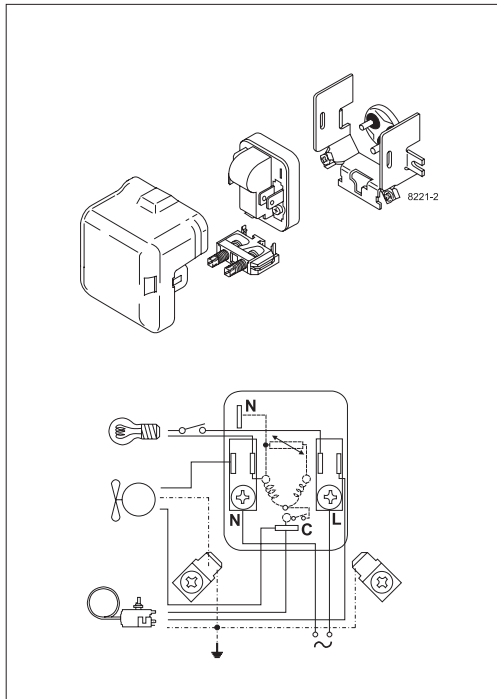


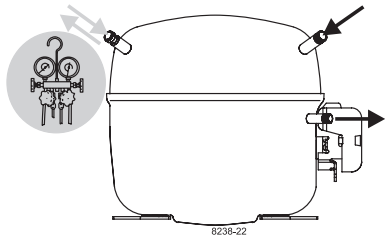
| Accessories for SC10CNX.2 | | Figure | Code number | Test conditions | ASHRAE LBP | ASHRAE HBP/MBP | EN 12900/CECOMAF* |
|---------------------------|-------------------------|--------|-------------|--------------------|------------|----------------|-------------------|
| PTC starting device | 1/4 in. spade connect. | — | — | Condensing temp. | 130°F | 130°F | 113°F |
| | 3/16 in. spade connect. | | — | Ambient temp. | 90°F | 90°F | 90°F |
| Starting relay | 1/4 in. spade connect. | a2 | 117U7020 | Suction gas temp | 90°F | 95°F | 90°F |
| Cover | | b | 103N2008 | Liquid temperature | 90°F | 115°F | no subcooling |
| Start. capacitor 240 µF | 1/4 in. spade connect. | c | 117U5023 | | | | |
| Cord relief | | d | 103N1004 | | | | |
| Protection screen for PTC | | — | — | | | | |
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SC Compressors

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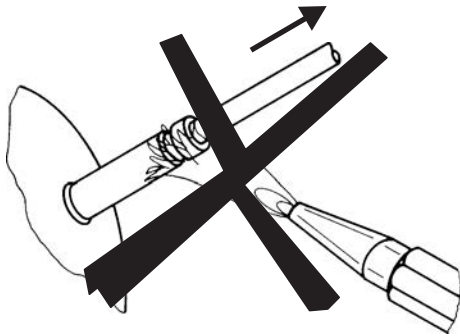




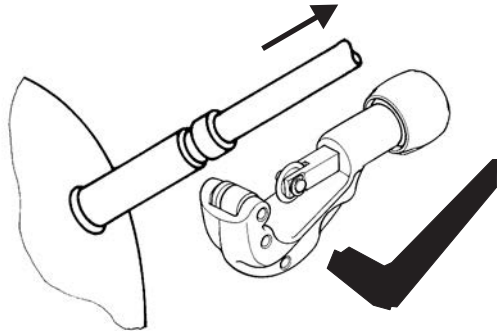
SC Compressors

Service/Repair – R290

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