

TL4CN LBP/MBP Compressor R290 220-240V 50Hz

General

| | |
|-----------------------|---------------|
| Code number | 102H4490 |
| Approvals | EN 60335-2-34 |
| Compressors on pallet | 125 |

Application

| Application | LBP/MBP | | |
|--|---------|-----------|----|
| Frequency | Hz | 50 | 60 |
| Evaporating temperature | °C | -40 to 5 | - |
| Voltage range | V | 198 - 254 | - |
| Max. condensing temperature continuous (short) | °C | 55 (65) | - |
| Max. winding temperature continuous (short) | °C | 125 (135) | - |

Cooling requirements

| Frequency | Hz | 50 | | | 60 | | |
|-------------------------|----|----------------|----------------|-----|-----|-----|-----|
| Application | | LBP | MBP | HBP | LBP | MBP | HBP |
| 32°C | | F ₁ | F ₁ | - | - | - | - |
| 38°C | | F ₁ | F ₁ | - | - | - | - |
| 43°C | | F ₁ | F ₁ | - | - | - | - |
| Remarks on application: | | | | | | | |

Motor

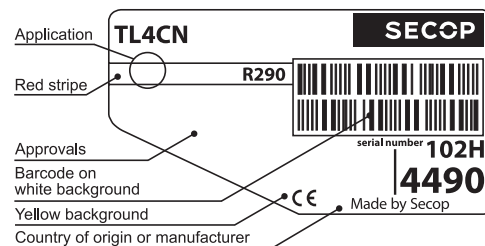
| Motor type | RSIR/CSIR | | |
|---|-----------|------|------|
| LRA (rated after 4 sec. UL984), HST LST | A | 5.8 | 4.8 |
| Cut in Current, HST LST | A | 5.8 | 8.7 |
| Resistance, main start winding (25°C) | Ω | 16.0 | 17.0 |

Design

| | | |
|-------------------------------------|-----------------|-------------------|
| Displacement | cm ³ | 3.86 |
| Oil quantity (type) | cm ³ | 280 (polyolester) |
| Maximum refrigerant charge | g | 150 |
| Free gas volume in compressor | cm ³ | 1690 |
| Weight without electrical equipment | kg | 7.5 |

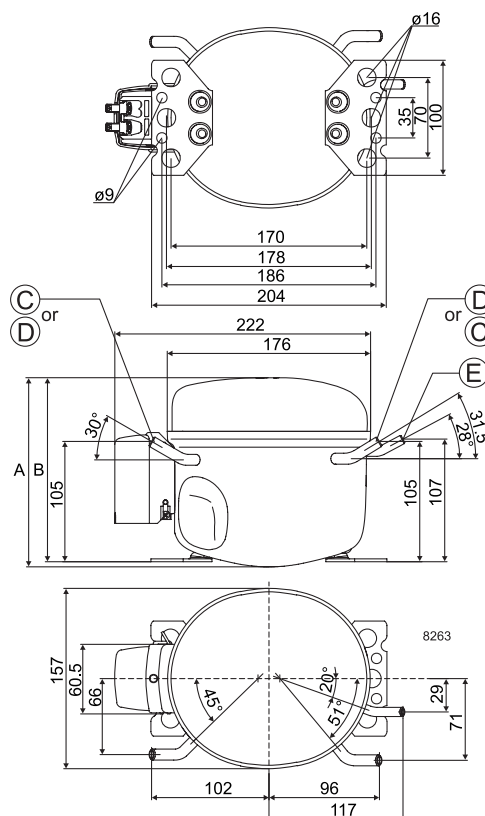
Dimensions

| | | | |
|----------------------|--------------------------|----|---------------------------|
| Height | mm | A | 173 |
| | | B | 169 |
| | | B1 | - |
| | | B2 | - |
| Suction connector | location/I.D. mm angle | C | 6.2 30° |
| | material comment | | Copper Rubber plug |
| Process connector | location/I.D. mm angle | D | 6.2 31.5° |
| | material comment | | Copper Rubber plug |
| Discharge connector | location/I.D. mm angle | E | 5.0 28° |
| | material comment | | Copper Rubber plug |
| Oil cooler connector | location/I.D. mm angle | F | - |
| | material comment | | - |
| Connector tolerance | I.D. mm | | ±0.09, on 5.0 +0.12/+0.20 |
| Remarks: | | | |



Yellow warning label

- 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

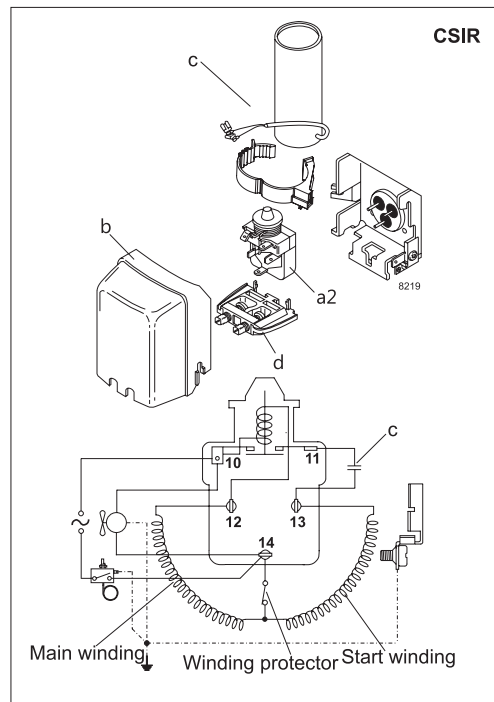
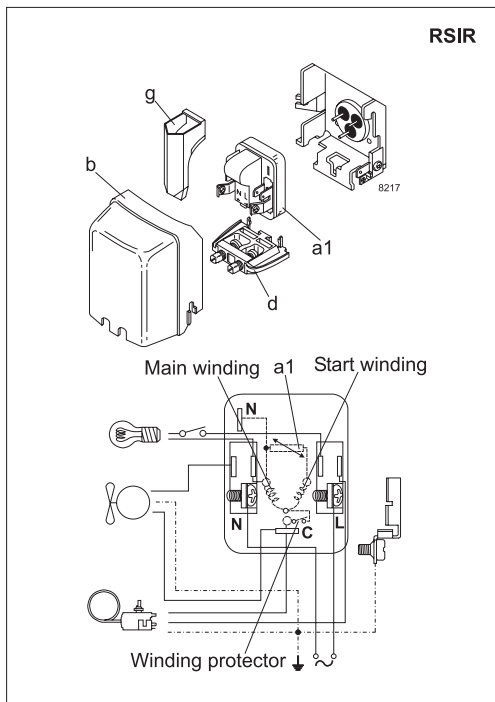


EN 12900 Household (CECOMAF)* 220V, 50Hz, 2 W PTC consumption incl., fan cooling F₁

| | | | | | | | | | | | | | | | | | |
|--------------------|-----|------|------|------|------|-------|------|------|------|------|------|------|------|-----|----|----|----|
| 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 | | 56.5 | 77.8 | 103 | 132 | 143 | 166 | 205 | 250 | 283 | 302 | 360 | 426 | | | | |
| Power cons. in W | | 87.9 | 101 | 114 | 127 | 131 | 139 | 151 | 162 | 169 | 172 | 181 | 188 | | | | |
| Current cons. in A | | 0.84 | 0.88 | 0.91 | 0.95 | 0.96 | 0.99 | 1.03 | 1.07 | 1.10 | 1.12 | 1.16 | 1.21 | | | | |
| COP in W/W | | 0.64 | 0.77 | 0.90 | 1.04 | 1.09 | 1.19 | 1.36 | 1.54 | 1.68 | 1.75 | 1.99 | 2.26 | | | | |

ASHRAE LBP* 220V, 50Hz, 2 W PTC consumption incl., fan cooling F₁

| | | | | | | | | | | | | | | | | | |
|--------------------|-----|------|------|------|------|-------|------|------|------|------|------|------|------|-----|----|----|----|
| 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 | | 64.7 | 88.5 | 117 | 149 | 162 | 188 | 232 | 283 | 320 | 341 | 406 | 480 | | | | |
| Power cons. in W | | 88.0 | 101 | 114 | 126 | 130 | 138 | 149 | 160 | 166 | 169 | 177 | 184 | | | | |
| Current cons. in A | | 0.85 | 0.88 | 0.91 | 0.95 | 0.96 | 0.98 | 1.02 | 1.06 | 1.09 | 1.11 | 1.15 | 1.20 | | | | |
| COP in W/W | | 0.73 | 0.88 | 1.03 | 1.18 | 1.24 | 1.36 | 1.55 | 1.77 | 1.93 | 2.01 | 2.29 | 2.61 | | | | |



| Accessories for | TL4CN | Figure | Code number |
|---------------------------|-------------------------|--------|-------------|
| PTC starting device | 6.3 mm spade connectors | a1 | 103N0011 |
| | 4.8 mm spade connectors | | 103N0018 |
| Starting relay | 6.3 mm spade connectors | a2 | 117U7004 |
| Start. capacitor 60 µF | 6.3 mm spade connectors | c | 117U5014 |
| Cover | | b | 103N2010 |
| Cord relief | | d | 103N1010 |
| Protection screen for PTC | | g | 103N0476 |

| Test conditions | EN 12900/CECOMAF* | ASHRAE LBP* |
|-------------------------|-------------------|-------------|
| Condensing temperature | 45°C | 43.3°C |
| Ambient temperature | 32°C | 32°C |
| Suction gas temperature | 32°C | 32°C |
| Liquid temperature | no subcooling | 32°C |

| 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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