

Single Pack TL5F 220-240V 50Hz CSIR

Single pack code number: **195B4400**

| Position | Title | Code | Amount |
|----------|--|----------|--------|
| 1 | Compressor TL5F | 102G4501 | 1 |
| 2 | Starting relay | 117U6004 | 1 |
| 3 | Starting capacitor (60µF 220V, 6.3mm) | 117U5014 | 1 |
| 4 | Cord relief | 103N1010 | 1 |
| 5 | Cover | 103N2010 | 1 |
| 6 | Bolt joint for one compressor M6 ø16mm | 118-1917 | 1 |

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TL5F Standard Compressor R134a 220-240V 50Hz

General

| | |
|-----------------------|--------------------------------|
| Code number | 102G4501 |
| Approvals | EN 60335-2-34 w. Annex AA, CCC |
| Compressors on pallet | 125 |

Application

| Application | LBP | | |
|--|-----|------------|----|
| Frequency | Hz | 50 | 60 |
| Evaporating temperature | °C | -35 to -10 | — |
| Voltage range | V | 198 - 254 | — |
| Max. condensing temperature continuous (short) | °C | 60 (70) | — |
| Max. winding temperature continuous (short) | °C | 125 (135) | — |

Cooling requirements

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

Motor

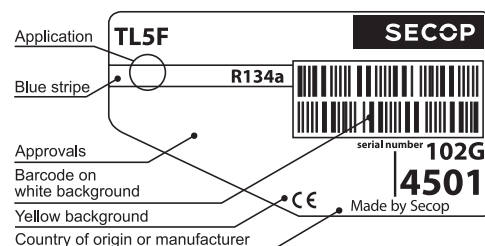
| Motor type | RSIR/CSIR | | |
|---|-----------|------|------|
| LRA (rated after 4 sec. UL984), HST LST | A | 5.1 | 4.3 |
| Cut in Current, HST LST | A | 5.1 | 8.6 |
| Resistance, main start winding (25°C) | Ω | 18.2 | 15.1 |

Design

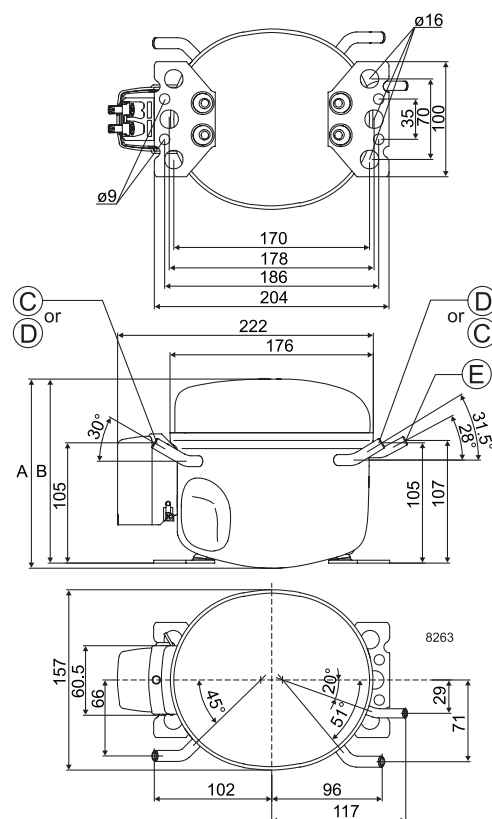
| | | |
|-------------------------------------|-----------------|-------------------|
| Displacement | cm ³ | 5.08 |
| Oil quantity (type) | cm ³ | 180 (polyolester) |
| Maximum refrigerant charge | g | 400 |
| Free gas volume in compressor | cm ³ | 1790 |
| Weight without electrical equipment | kg | 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: | | | |



- 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

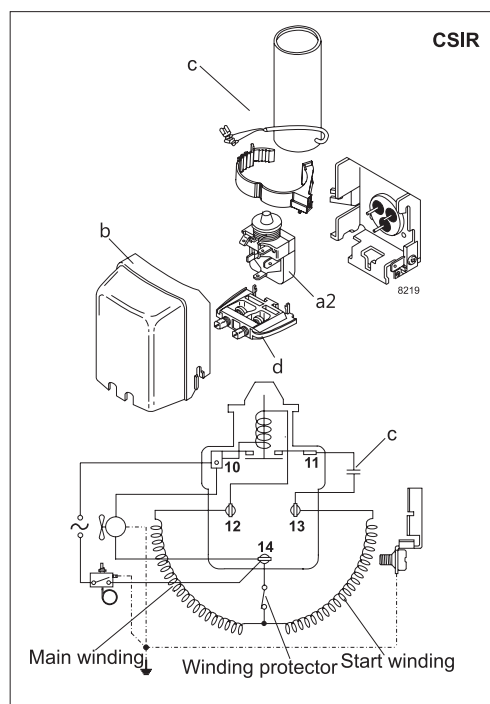
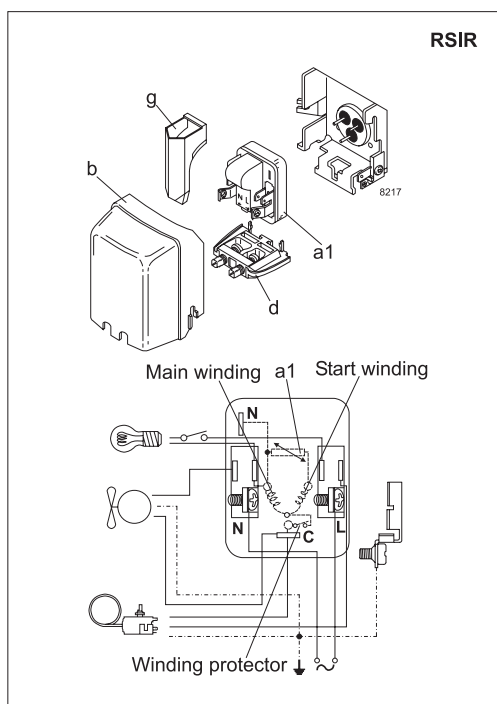


EN 12900 Household (CECOMAF) 220V, 50Hz, static cooling, PTC consumption incl.

| | | | | | | | | | | | | | | | | | |
|--------------------|-----|-----|------|------|------|-------|------|------|------|------|----|---|---|-----|----|----|----|
| 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 | | | 43 | 60 | 82 | 91 | 110 | 144 | 183 | | | | | | | | |
| Power cons. in W | | | 70 | 85 | 101 | 107 | 118 | 136 | 154 | | | | | | | | |
| Current cons. in A | | | 0.75 | 0.78 | 0.81 | 0.83 | 0.86 | 0.91 | 0.97 | | | | | | | | |
| COP in W/W | | | 0.61 | 0.70 | 0.81 | 0.85 | 0.93 | 1.06 | 1.19 | | | | | | | | |

ASHRAE LBP 220V, 50Hz, static cooling, PTC consumption incl.

| | | | | | | | | | | | | | | | | | |
|--------------------|-----|-----|------|------|------|-------|------|------|------|------|----|---|---|-----|----|----|----|
| 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 | | | 53 | 74 | 101 | 112 | 136 | 177 | 226 | | | | | | | | |
| Power cons. in W | | | 70 | 85 | 101 | 107 | 118 | 136 | 154 | | | | | | | | |
| Current cons. in A | | | 0.75 | 0.78 | 0.81 | 0.83 | 0.86 | 0.91 | 0.97 | | | | | | | | |
| COP in W/W | | | 0.75 | 0.86 | 1.00 | 1.05 | 1.15 | 1.30 | 1.47 | | | | | | | | |

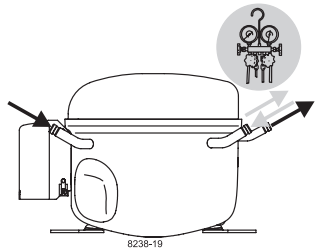


| Accessories for | TL4F | Figure | Code number |
|---------------------------|-------------------------|--------|-------------|
| PTC starting device | 6.3 mm spade connectors | a1 | 103N0011 |
| | 4.8 mm spade connectors | | 103N0018 |
| Starting relay | 6.3 mm spade connectors | a2 | 117U6004 |
| 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 |
|-------------------------|------------------|--------|
| Condensing temperature | 55°C | 55°C |
| Ambient temperature | 32°C | 32°C |
| Suction gas temperature | 32°C | 32°C |
| Liquid temperature | no subcooling | 32°C |

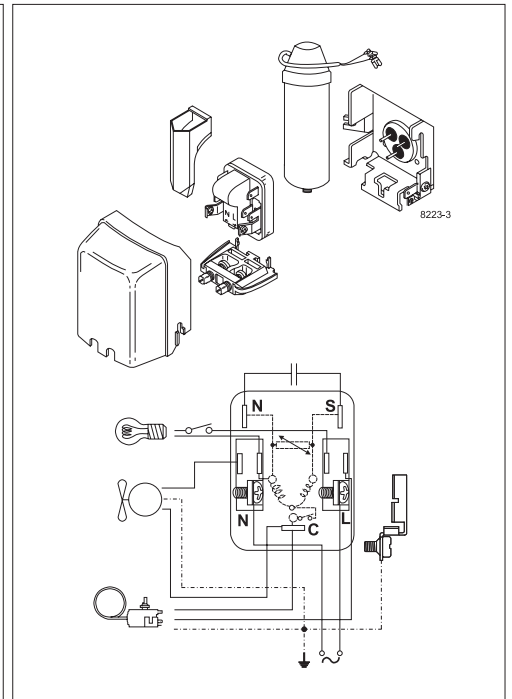
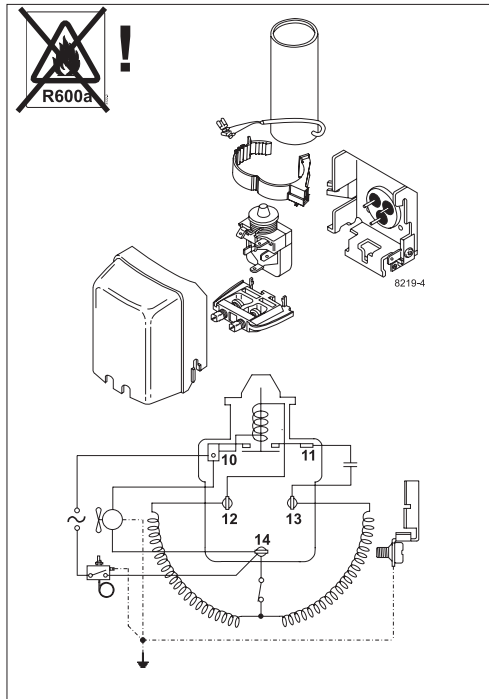
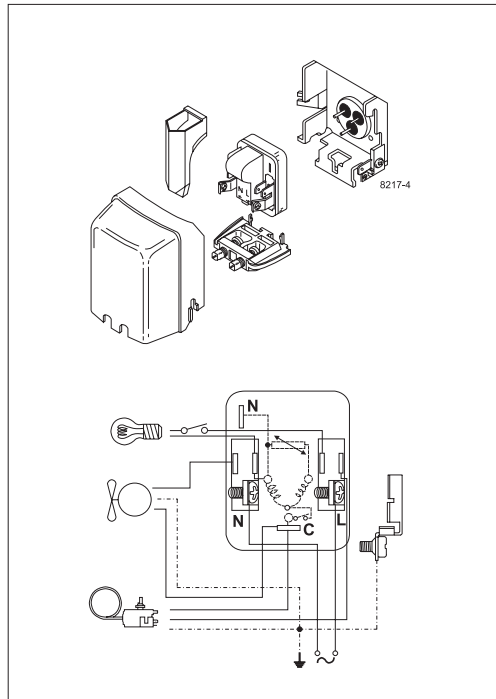
| Mounting accessories | | Code number |
|--------------------------|----------|-------------|
| Bolt joint for one comp. | Ø: 16 mm | 118-1917 |
| Bolt joint in quantities | Ø: 16 mm | 118-1918 |
| Snap-on in quantities | Ø: 16 mm | 118-1919 |

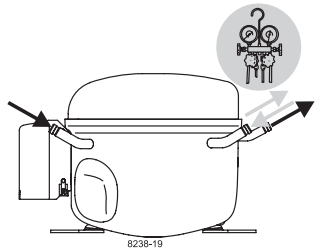
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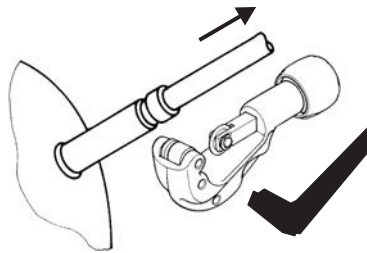
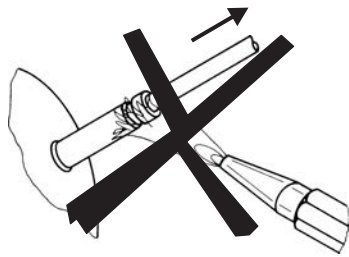
TL Compressors

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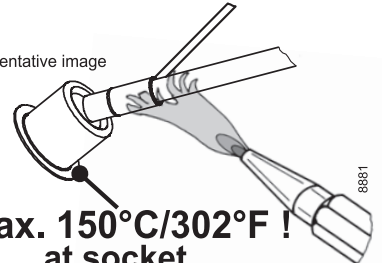


Service/Repair – R600a, R290



Brazing on Suction Connectors (Direct Intake)

representative image



! max. 150°C/302°F !
at socket
 brazing solder: phosphor (LP7) or silver

Refer to Product Bulletin:
Brazing on Suction Connectors
(Compressors with Direct Suction Intake)

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