

## Single Pack TLS6F 220-240V 50Hz RSIR

Single pack code number: **195B4586**

| Position | Title                                      | Code     | Amount |
|----------|--|----------|--------|
| 1        | Compressor TLS6F                           | 102G4620 | 1      |
| 2        | PTC starting device (220V, 250hm, 4.8mm)   | 103N0018 | 1      |
| 3        | Cord relief                                | 103N1010 | 1      |
| 4        | Protection screen for PTC                  | 103N0476 | 1      |
| 5        | Cover                                      | 103N2010 | 1      |
| 6        | Bolt joint for one compressor   M6   ø16mm | 118-1917 | 1      |

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## TLS6F Standard Compressor R134a 220-240V 50Hz

### General

|                       |                           |
|-----------------------|---------------------------|
| Code number           | 102G4620                  |
| Approvals             | EN 60335-2-34 w. Annex AA |
| 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

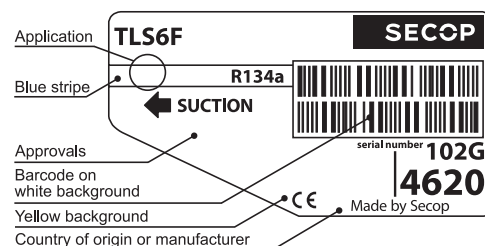
| Motor type                                | RSIR/CSIR |      |      |
|---|-----------|------|------|
| LRA (rated after 4 sec. UL984), HST   LST | A         | 5.8  | 4.7  |
| Cut in Current, HST   LST                 | A         | 5.8  | 8.7  |
| Resistance, main   start winding (25°C)   | Ω         | 16.0 | 17.0 |

### Design

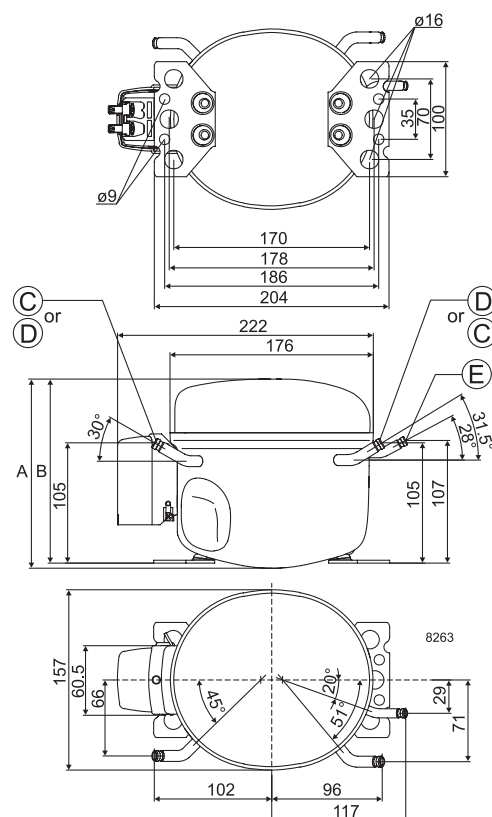
|                                     |                 |                   |
|-------------------------------------|-----------------|-------------------|
| Displacement                        | cm <sup>3</sup> | 5.70              |
| Oil quantity (type)                 | cm <sup>3</sup> | 180 (polyolester) |
| Maximum refrigerant charge          | g               | 400               |
| Free gas volume in compressor       | cm <sup>3</sup> | 1790              |
| Weight without electrical equipment | kg              | 7.3               |

### Dimensions

|                      |                          |                           |             |
|----------------------|--------------------------|---------------------------|-------------|
| Height               | mm                       | A                         | 173         |
|                      |                          | B                         | 169         |
|                      |                          | B1                        | –           |
|                      |                          | B2                        | –           |
| Suction connector    | location/I.D. mm   angle | C                         | 6.2   30°   |
|                      | material   comment       | Cu-plated steel   Al cap  |             |
| Process connector    | location/I.D. mm   angle | D                         | 6.2   31.5° |
|                      | material   comment       | Cu-plated steel   Al cap  |             |
| Discharge connector  | location/I.D. mm   angle | E                         | 5.0   28°   |
|                      | 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, on 5.0 +0.12/+0.20 |             |
| Remarks:             |                          |                           |             |



- S = Static cooling normally sufficient
- O = Oil cooling
- F<sub>1</sub> = Fan cooling 1.5 m/s (compressor compartment temperature equal to ambient temperature)
- F<sub>2</sub> = Fan cooling 3.0 m/s necessary
- SG = Suction gas cooling normally sufficient
- = not applicable in this area

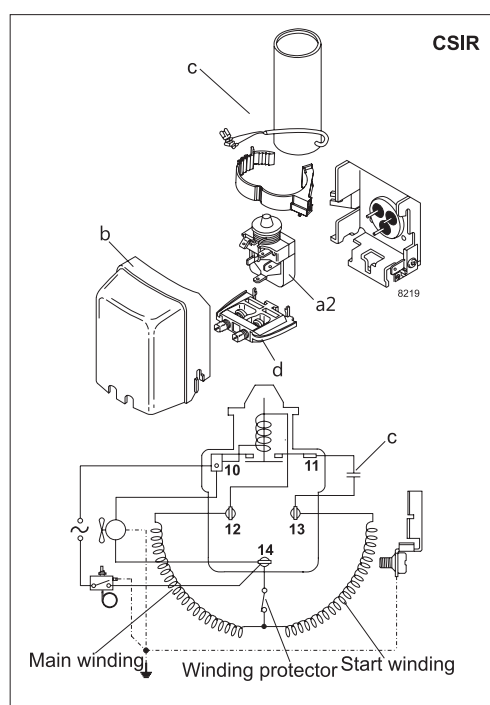
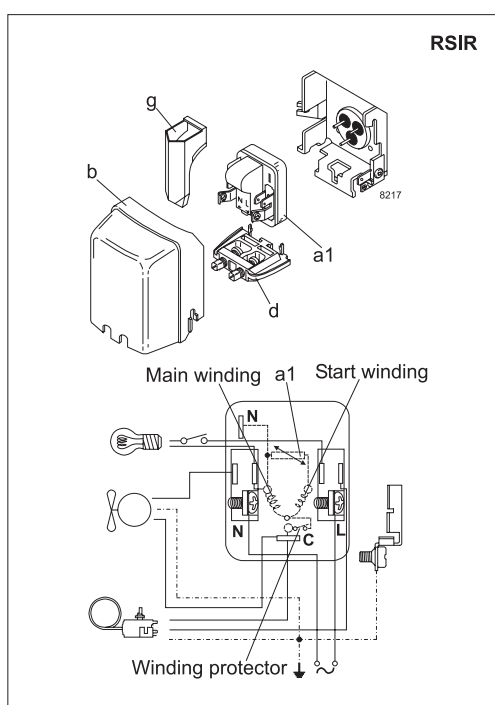


**EN 12900 Household (CECOMAF)** 220V, 50Hz, static cooling, PTC consumption incl.

|                    |     |     |      |      |      |       |      |      |      |      |    |   |   |     |    |    |    |
|--------------------|-----|-----|------|------|------|-------|------|------|------|------|----|---|---|-----|----|----|----|
| 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      |     |     | 58   | 77   | 104  | 115   | 139  | 183  | 235  |      |    |   |   |     |    |    |    |
| Power cons. in W   |     |     | 84   | 101  | 119  | 125   | 138  | 159  | 181  |      |    |   |   |     |    |    |    |
| Current cons. in A |     |     | 0.78 | 0.82 | 0.86 | 0.88  | 0.92 | 0.99 | 1.08 |      |    |   |   |     |    |    |    |
| COP in W/W         |     |     | 0.69 | 0.76 | 0.87 | 0.92  | 1.01 | 1.15 | 1.30 |      |    |   |   |     |    |    |    |

**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      |     |     | 71   | 95   | 128  | 142   | 172  | 226  | 290  |      |    |   |   |     |    |    |    |
| Power cons. in W   |     |     | 84   | 101  | 119  | 125   | 138  | 159  | 181  |      |    |   |   |     |    |    |    |
| Current cons. in A |     |     | 0.78 | 0.82 | 0.86 | 0.88  | 0.92 | 0.99 | 1.08 |      |    |   |   |     |    |    |    |
| COP in W/W         |     |     | 0.85 | 0.94 | 1.08 | 1.13  | 1.24 | 1.42 | 1.60 |      |    |   |   |     |    |    |    |



| Accessories for           | TLS6F                   | 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/<br>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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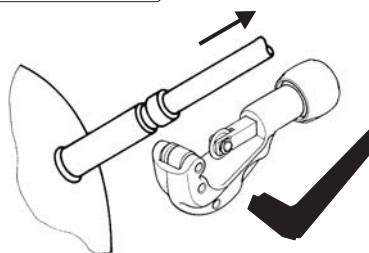
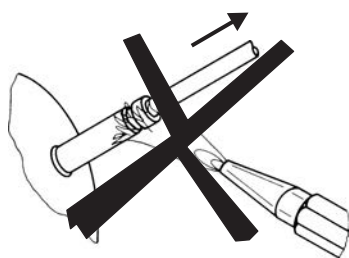




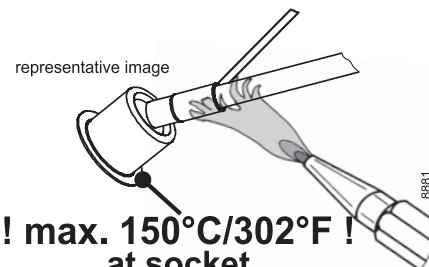
# TL Compressors

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## Service/Repair – R600a, R290



## Brazing on Suction Connectors (Direct Intake)



**! 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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