

## Single Pack FR6DL 220-240V 50Hz CSIR

Single pack code number: **195B4040**

| Position | Title                                      | Code     | Amount |
|----------|--|----------|--------|
| 1        | Compressor FR6DL                           | 103U2680 | 1      |
| 2        | Starting relay                             | 117U6010 | 1      |
| 3        | Starting capacitor (80µF 220V, 6.3mm)      | 117U5015 | 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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**FR6DL**  
**MBP/HBP Compressor**  
**R404A/R507**  
**220-240V 50Hz**

## General

|                       |               |
|-----------------------|---------------|
| Code number           | 103U2680      |
| Approvals             | EN 60335-2-34 |
| Compressors on pallet | 80            |

## Application

| Application                                    |    | MBP/HBP   |    |
|--|----|-----------|----|
| Frequency                                      | Hz | 50        | 60 |
| Evaporating temperature                        | °C | -20 to 15 | —  |
| Voltage range                                  | V  | 198 - 254 | —  |
| Max. condensing temperature continuous (short) | °C | 50 (60)   | —  |
| Max. winding temperature continuous (short)    | °C | 125 (135) | —  |

### Cooling requirements

| Cooling requirements    |    |     |                |                |     |     |     |
|-------------------------|----|-----|----------------|----------------|-----|-----|-----|
| Frequency               | Hz | 50  |                |                | 60  |     |     |
| Application             |    | LBP | MBP            | HBP            | LBP | MBP | HBP |
| 32°C                    |    | –   | F <sub>2</sub> | F <sub>2</sub> | –   | –   | –   |
| 38°C                    |    | –   | F <sub>2</sub> | F <sub>2</sub> | –   | –   | –   |
| 43°C                    |    | –   | –              | –              | –   | –   | –   |
| Remarks on application: |    |     |                |                |     |     |     |

## Motor

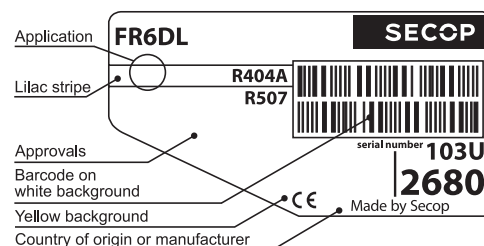
| Motor type                                | CSIR |      |      |
|---|------|------|------|
| LRA (rated after 4 sec. UL984), HST   LST | A    | 10.0 | –    |
| Cut in Current, HST   LST                 | A    | 10.0 | –    |
| Resistance, main   start winding (25°C)   | Ω    | 7.3  | 12.0 |

## Design

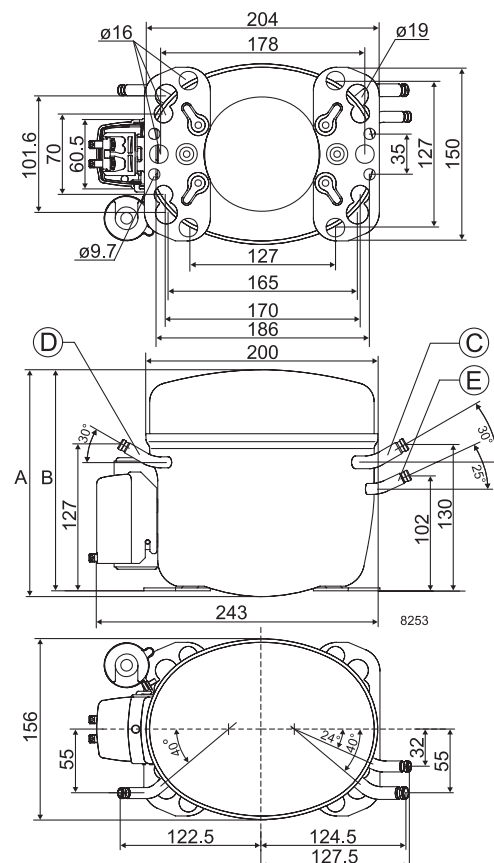
|                                     |                 |                   |
|-------------------------------------|-----------------|-------------------|
| Displacement                        | cm <sup>3</sup> | 6.23              |
| Oil quantity (type)                 | cm <sup>3</sup> | 450 (polyolester) |
| Maximum refrigerant charge          | g               | 850               |
| Free gas volume in compressor       | cm <sup>3</sup> | 1350              |
| Weight without electrical equipment | kg              | 10.5              |

## Dimensions

| Dimensions           |                          | mm                       |           |
|----------------------|--------------------------|--------------------------|-----------|
| Height               |                          | A                        | 196       |
|                      |                          | B                        | 191       |
|                      |                          | B1                       | –         |
|                      |                          | B2                       | –         |
| Suction connector    | location/I.D. mm   angle | C                        | 8.2   30° |
|                      | material   comment       | Cu-plated steel   Al cap |           |
| Process connector    | location/I.D. mm   angle | D                        | 6.2   30° |
|                      | material   comment       | Cu-plated steel   Al cap |           |
| Discharge connector  | location/I.D. mm   angle | E                        | 6.2   25° |
|                      | 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                    |           |
| 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

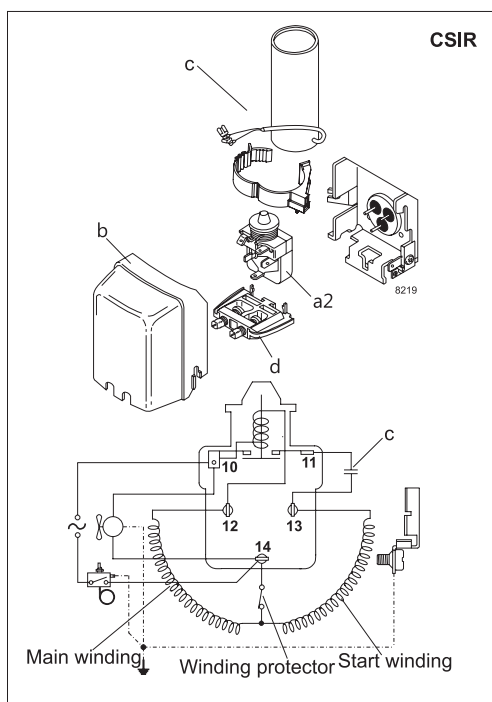


**EN 12900 Household (CECOMAF)**220V, 50Hz, fan cooling F<sub>2</sub>

|                    |     |     |     |     |     |       |      |      |      |      |      |      |      |      |      |      |    |
|--------------------|-----|-----|-----|-----|-----|-------|------|------|------|------|------|------|------|------|------|------|----|
| 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      |     |     |     |     |     |       | 317  | 385  | 471  | 538  | 576  | 698  | 840  | 907  | 999  | 1177 |    |
| Power cons. in W   |     |     |     |     |     |       | 290  | 321  | 354  | 377  | 388  | 423  | 456  | 469  | 485  | 509  |    |
| Current cons. in A |     |     |     |     |     |       | 1.91 | 1.99 | 2.10 | 2.19 | 2.23 | 2.37 | 2.51 | 2.56 | 2.62 | 2.70 |    |
| COP in W/W         |     |     |     |     |     |       | 1.09 | 1.20 | 1.33 | 1.43 | 1.48 | 1.65 | 1.84 | 1.93 | 2.06 | 2.31 |    |

**ASHRAE LBP\***220V, 50Hz, fan cooling F<sub>2</sub>

|                    |     |     |     |     |     |       |      |      |      |      |      |      |      |      |      |      |    |
|--------------------|-----|-----|-----|-----|-----|-------|------|------|------|------|------|------|------|------|------|------|----|
| 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      |     |     |     |     |     |       | 370  | 449  | 550  | 628  | 673  | 818  | 986  | 1065 | 1176 | 1389 |    |
| Power cons. in W   |     |     |     |     |     |       | 290  | 321  | 354  | 377  | 388  | 423  | 456  | 469  | 485  | 509  |    |
| Current cons. in A |     |     |     |     |     |       | 1.91 | 1.99 | 2.10 | 2.19 | 2.23 | 2.37 | 2.51 | 2.56 | 2.62 | 2.70 |    |
| COP in W/W         |     |     |     |     |     |       | 1.27 | 1.40 | 1.56 | 1.67 | 1.73 | 1.94 | 2.16 | 2.27 | 2.42 | 2.73 |    |



| Accessories for           | FR6DL                   | Figure      | Code number | Test conditions  | EN 12900/CECOMAF | ASHRAE LBP* |                      |  |             |                          |          |          |                          |          |          |                       |          |          |
|---------------------------|-------------------------|-------------|-------------|--|------------------|-------------|----------------------|--|-------------|--------------------------|----------|----------|--------------------------|----------|----------|-----------------------|----------|----------|
| PTC starting device       | 6.3 mm spade connectors | a1          | —           | Condensing temperature   | 45°C             | 45°C        |                      |  |             |                          |          |          |                          |          |          |                       |          |          |
|                           | 4.8 mm spade connectors |             | —           | Ambient temperature  | 32°C             | 32°C        |                      |  |             |                          |          |          |                          |          |          |                       |          |          |
| Starting relay            | 6.3 mm spade connectors | a2          | 117U6010    | Suction gas temperature  | 32°C             | 32°C        |                      |  |             |                          |          |          |                          |          |          |                       |          |          |
| Cover                     |                         | b           | 103N2010    | Liquid temperature   | no subcooling    | 32°C        |                      |  |             |                          |          |          |                          |          |          |                       |          |          |
| Start. capacitor 80 µF    | 6.3 mm spade connectors | c           | 117U5015    | <table><tr><th colspan="2">Mounting accessories</th><th>Code number</th></tr><tr><td>Bolt joint for one comp.</td><td>Ø: 16 mm</td><td>118-1917</td></tr><tr><td>Bolt joint in quantities</td><td>Ø: 16 mm</td><td>118-1918</td></tr><tr><td>Snap-on in quantities</td><td>Ø: 16 mm</td><td>118-1919</td></tr></table> |                  |             | 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 |
| 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    |             |  |                  |             |                      |  |             |                          |          |          |                          |          |          |                       |          |          |
| Cord relief               |                         | d           | 103N1010    |  |                  |             |                      |  |             |                          |          |          |                          |          |          |                       |          |          |
| Protection screen for PTC |                         | g           | —           |  |                  |             |                      |  |             |                          |          |          |                          |          |          |                       |          |          |

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