

DLX7.5KK.1 High Energy-optimized Compressor R600a 220-240V 50Hz

General

| | |
|-----------------------|-----------------------------|
| Code number | 102H4854 |
| Approvals | EN 60335-2-34 with Annex AA |
| Compressors on pallet | 100 |

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 | 105 (115) | - |

Cooling requirements

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

Motor

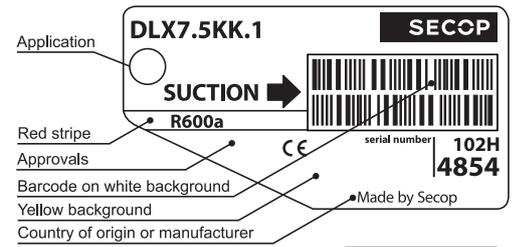
| Motor type | RSCR | | |
|-------------------------------------------|------|------|------|
| LRA (rated after 4 sec. UL984), HST LST | A | - | 2.5 |
| Cut in Current, HST LST | A | - | 6.0 |
| Resistance, main start winding (25°C) | Ω | 28.7 | 23.8 |

Design

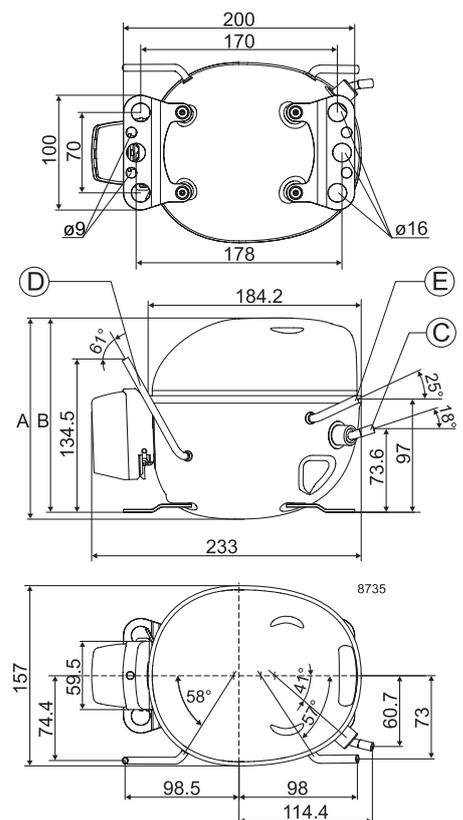
| | | |
|-------------------------------------|-----------------|---------------|
| Displacement | cm ³ | 7.48 |
| Oil quantity (type) | cm ³ | 155 (mineral) |
| Maximum refrigerant charge | g | 150 |
| Free gas volume in compressor | cm ³ | 1400 |
| Weight without electrical equipment | kg | 9.3 |

Dimensions

| | | | |
|-----------------------------------------------------------------------|--------------------------|-------------------------------------------------|-----------|
| Height | mm | A | 175 |
| | | B | 169 |
| | | B1 | - |
| | | B2 | - |
| Suction connector | location/I.D. mm angle | C | 6.2 30° |
| | material comment | Cu-plated steel Rubber plug | |
| Process connector | location/I.D. mm angle | D | 4.5 61° |
| | material comment | Copper Rubber plug | |
| Discharge connector | location/I.D. mm angle | E | 5.0 25° |
| | 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/+0.22 on 4.5 +0.10/-0.20 | |
| Remarks: Suction connector bent to 30°, process connector bent to 30° | | | |



- 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

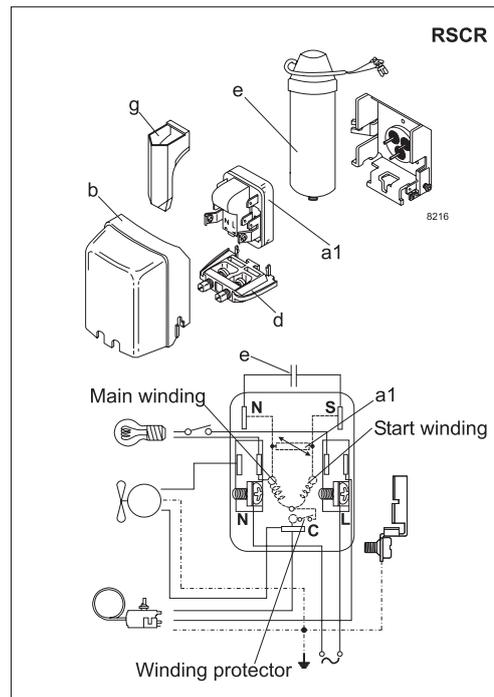


EN 12900 Household (CECOMAF) 220V, 50Hz, RC 2.5 µF, ePTC consumption incl., static cooling

| | | | | | | | | | | | | | | | | | |
|--------------------|-----|-----|------|------|------|-------|------|------|------|------|----|---|---|-----|----|----|----|
| 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 | | | 52.2 | 71.6 | 95.0 | 104 | 123 | 156 | 195 | | | | | | | | |
| Power cons. in W | | | 46.3 | 55.2 | 64.2 | 66.9 | 72.9 | 82.5 | 93.1 | | | | | | | | |
| Current cons. in A | | | 0.22 | 0.26 | 0.30 | 0.31 | 0.34 | 0.39 | 0.43 | | | | | | | | |
| COP in W/W | | | 1.13 | 1.30 | 1.48 | 1.55 | 1.69 | 1.89 | 2.10 | | | | | | | | |

ASHRAE LBP 220V, 50Hz, RC 2.5 µF, ePTC consumption incl., static cooling

| | | | | | | | | | | | | | | | | | |
|--------------------|-----|-----|------|------|------|-------|------|------|------|------|----|---|---|-----|----|----|----|
| 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 | | | 64.0 | 87.7 | 116 | 127 | 150 | 191 | 239 | | | | | | | | |
| Power cons. in W | | | 46.4 | 55.2 | 63.8 | 67.6 | 72.7 | 82.2 | 92.7 | | | | | | | | |
| Current cons. in A | | | 0.22 | 0.26 | 0.30 | 0.31 | 0.34 | 0.38 | 0.43 | | | | | | | | |
| COP in W/W | | | 1.38 | 1.59 | 1.82 | 1.88 | 2.07 | 2.32 | 2.57 | | | | | | | | |



| Accessories for | DLX7.5KK.1 | Figure | Code number |
|-----------------------------------|-------------------------|--------|-------------|
| PTC starting device | 6.3 mm spade connectors | a1 | 103N0016 |
| | 4.8 mm spade connectors | | 103N0021 |
| ePTC starting device | 4.8 mm spade connectors | | 103N0055 |
| Cover | | b | 103N0491 |
| Run capacitor 2.5 µF (compulsory) | 6.3 mm spade connectors | e | - |
| | 4.8 mm spade connectors | | 117-7139 |
| Cord relief | | d | 103N1010 |
| Protection screen for PTC | | g | 103N0476 |

| Test conditions | EN 12900/CECOMAF | ASHRAE LBP |
|-------------------------|------------------|------------|
| Condensing temperature | 55°C | 54.4°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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