

Mbsm.pro, Danfoss, Compressor, 1/4hp++, hbp, 1/3 hp-, Fr10g, 134a, 103g6880,103g6890, 220v/1ph/50-60h

Category: compressor
written by www.mbsm.pro | 17 January 2024



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Refrigerants: R134a, Compressor power supply [V]: 220/1/50 220/1/60

Product details

Gross weight 10.6 Kg

Net weight 10.6 Kg

Gross weight 10.6 Kg

Net weight 10.6 Kg

Auxiliary winding resistance (start winding) for single-phase compressors [Ohm] 11.9

Auxiliary winding resistance (start winding) for single-phase compressors alt [Ohm] 11.9

Brand technique Reciprocating compressor

Capacity control Fixed speed

| | |
|--|----------------------|
| Colour | Black |
| Compressor power supply [V] | 220/1/50 220/1/60 |
| Configuration code | Single |
| Cut in current HST [A] | 10.9 A |
| Cut in current LST [A] | 15.1 A |
| Description | FR10G |
| Discharge connection angle [°] | 25 ° |
| Discharge connection comments | Al-cap |
| Discharge connection diameter [mm] | 6.2 mm |
| Discharge connection material | Cu-plated steel |
| Economizer | No |
| Family | FR |
| Free gas volume [cm ³] | 1350 cm ³ |
| Frequency [Hz] | 50/60 |
| Height from baseplate [mm] | 191 mm |
| High value of nominal voltage at 50Hz [V] | 230 V |
| High value of nominal voltage at 60Hz [V] | 230 V |
| High value of voltage range at 50Hz [V] | 254 V |
| High value of voltage range at 60Hz [V] | 254 V |
| In scope of WEEE and contain batteries | No |
| Length [mm] | 243 mm |
| Liquid injection | No |
| Low value of nominal voltage at 50Hz [V] | 220 V |
| Low value of nominal voltage at 60Hz [V] | 220 V |
| Low value of voltage range at 50Hz [V] | 198 V |
| Low value of voltage range at 60Hz [V] | 198 V |
| LRA HST 60Hz [A] | 10.9 A |
| LRA HST [A] | 10.9 A |
| LRA LST [A] | 10.5 A |
| Main winding resistance for single-phase compressors [Ohm] | 7.1 |
| Model number | FR10G |
| Motor type | CSIR RSIR |
| No. of phases (compressor) | 1 |
| No. of phases (fan) | 1 |
| Oil cooler connection comments | Rubber cap |
| Oil cooler connection diameter [mm] | 6.2 mm |
| Oil cooler connection material | Copper |
| Oil quantity [cm ³] | 450 cm ³ |
| Oil type | P0E |
| Packing format | Industrial pack |
| Phase | 1 |
| Process connection angle [°] | 30 ° |
| Process connection comments | Al-cap |
| Process connection diameter [mm] | 6.2 mm |

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|---|-----------------------------|
| Process connection material | Cu-plated steel |
| Product group | Hermetic compressors |
| Product Name Description | Reciprocating compressor FR |
| Refrigerant charge [kg] [Max] | 0.9 kg |
| RLA | 2.20 A |
| Rotational speed at 50Hz [rpm] | 2900 rpm |
| Rotational speed at 60Hz [rpm] | 3500 rpm |
| Suction connection angle [°] | 30 ° |
| Suction connection diameter [mm] | 8.2 mm |
| Suction connection material | Cu-plated steel |
| Swept volume [cm3] | 9.05 cm ³ |
| Technology | Reciprocating |
| Total height [mm] | 196 mm |
| Type | FR10 |
| Voltage 50Hz [V] | 220 V |
| Voltage 50Hz [V] [Max] | 240 V |
| Voltage 60Hz [V] | 220 V |
| Voltage 60Hz [V] [Max] | 240 V |
| Width [mm] | 156 mm |
| Winding temperature short term [°C] [Max] | 135 °C |
| Winding temperature stat [°C] [Max] | 125 °C |
| Auxiliary winding resistance (start winding) for single-phase compressors [Ohm] | 11.9 |
| Auxiliary winding resistance (start winding) for single-phase compressors alt [Ohm] | 11.9 |
| Brand technique | Reciprocating compressor |
| Capacity control | Fixed speed |
| Colour | Black |
| Compressor power supply [V] | 220/1/50 220/1/60 |
| Configuration code | Single |
| Cut in current HST [A] | 10.9 A |
| Cut in current LST [A] | 15.1 A |
| Description | FR10G |
| Discharge connection angle [°] | 25 ° |
| Discharge connection comments | Al-cap |
| Discharge connection diameter [mm] | 6.2 mm |
| Discharge connection material | Cu-plated steel |
| Economizer | No |
| Family | FR |
| Free gas volume [cm3] | 1350 cm ³ |
| Frequency [Hz] | 50/60 |
| Height from baseplate [mm] | 191 mm |
| High value of nominal voltage at 50Hz [V] | 230 V |
| High value of nominal voltage at 60Hz [V] | 230 V |
| High value of voltage range at 50Hz [V] | 254 V |
| High value of voltage range at 60Hz [V] | 254 V |

| | |
|--|--------------------------------|
| In scope of WEEE and contain batteries | No |
| Length [mm] | 243 mm |
| Liquid injection | No |
| Low value of nominal voltage at 50Hz [V] | 220 V |
| Low value of nominal voltage at 60Hz [V] | 220 V |
| Low value of voltage range at 50Hz [V] | 198 V |
| Low value of voltage range at 60Hz [V] | 198 V |
| LRA HST 60Hz [A] | 10.9 A |
| LRA HST [A] | 10.9 A |
| LRA LST [A] | 10.5 A |
| Main winding resistance for single-phase compressors [Ohm] | 7.1 |
| Model number | FR10G |
| Motor type | CSIR RSIR |
| No. of phases (compressor) | 1 |
| No. of phases (fan) | 1 |
| Oil cooler connection comments | Rubber cap |
| Oil cooler connection diameter [mm] | 6.2 mm |
| Oil cooler connection material | Copper |
| Oil quantity [cm3] | 450 cm ³ |
| Oil type | P0E |
| Packing format | Industrial pack |
| Phase | 1 |
| Process connection angle [°] | 30 ° |
| Process connection comments | Al-cap |
| Process connection diameter [mm] | 6.2 mm |
| Process connection material | Cu-plated steel |
| Product group | Hermetic compressors |
| Product Name Description | Reciprocating compressor FR |
| Refrigerant charge [kg] [Max] | 0.9 kg |
| RLA | 2.20 A |
| Rotational speed at 50Hz [rpm] | 2900 rpm |
| Rotational speed at 60Hz [rpm] | 3500 rpm |
| Suction connection angle [°] | 30 ° |
| Suction connection diameter [mm] | 8.2 mm |
| Suction connection material | Cu-plated steel |
| Swept volume [cm3] | 9.05 cm ³ |
| Technology | Reciprocating |
| Total height [mm] | 196 mm |
| Type | FR10 |
| Voltage 50Hz [V] | 220 V |
| Voltage 50Hz [V] [Max] | 240 V |
| Voltage 60Hz [V] | 220 V |
| Voltage 60Hz [V] [Max] | 240 V |

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|---|--------|
| Width [mm] | 156 mm |
| Winding temperature short term [°C] [Max] | 135 °C |
| Winding temperature stat [°C] [Max] | 125 °C |

103G6890 Model FR10G Danfoss Hermetic Compressors

Specifications

| | |
|---|----------------------|
| Colour | Black |
| Low value of nominal voltage at 50 Hz [V] | 208 |
| Low value of nominal voltage at 60 Hz [V] | 220 |
| Low value of voltage range at 60Hz [V] | 198 |
| Oil charge [L or Kg] | 450 |
| Packing format | Industrial pack |
| Packing quantity | 80 |
| Phase | 1 |
| Displacement (cm³) | 9.05 |
| Voltage/Frequency | 230V/1/50Hz |
| Application energy level | Universal compressor |
| Applications | HBP; LBP; MBP |
| Oil quantity [cm3] | 450 |
| Cover electrics | 103N2010 |
| Cover electrics Description | COVER TL,NL,FR-220V |
| Type designation | Compressor |
| Net weight | 10.60 |



