

**MT80-4VI****Reciprocating compressor, MT80HP4CVE**

Refrigerants: R22, Segment usage: Refrigeration MT, Compressor power supply [V]: 400/3/50 460/3/60, Packing format: Single pack

PRODUCT DETAILS

| | |
|--|--|
| Gross weight | 44.5 Kg |
| Net weight | 42 Kg |
| Volume | 61.54 Liter |
| EAN | 5702428839525 |
| Approval | CE UL UKCA |
| Brand technique | Reciprocating compressor |
| Capacity control | Fixed speed |
| China RoHS compliance | Out of scope |
| Colour | Blue |
| Compressor power supply [V] | 400/3/50 460/3/60 |
| Configuration code | Single |
| Connection type | Rotolock |
| Cylinder | 2 |
| Description | MT080-4 |
| Diameter [mm] | 288 mm |
| Discharge connection height [mm] | 74 mm |
| Discharge connection pipe size [in] | 3/4 in |
| Discharge connection size [in] | 1 1/4 in |
| Drawing number | 8502012g |
| Economizer | No |
| EU RoHS compliance | Yes with exemptions |
| EU RoHS exemption clause | 6(a), 6(a)-l, 7(a), 7(c)-l, 8(b), 9(b) |
| Factory HP [bar] | 25 bar |
| Factory LP [bar] | 25 bar |
| Family | MT |
| Fitting remark | (shipped with rotolock version only) |
| Fitting sleeve | ODF |
| Fitting standard | Rotolock |
| Frequency [Hz] | 50/60 |
| Gauge port HP | None |
| Gauge port LP | Schrader |
| Glass mounting | Threaded |
| Glass torque [Nm] | 50 N-m |
| GP LP torque [Nm] | 15 N-m |
| High Side TS Max | 150 °C |
| High Side TS Min | -35 °C |

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PRODUCT DETAILS

| | |
|---|--------------------------------------|
| High Side Volume | 0.6 L |
| High value of nominal voltage at 50Hz [V] | 400 V |
| High value of nominal voltage at 60Hz [V] | 460 V |
| High value of voltage range at 50Hz [V] | 460 V |
| High value of voltage range at 60Hz [V] | 506 V |
| In scope of WEEE and contain batteries | No |
| IP protection class | IP55 (with cable gland) |
| Low Side TS Max | 50 °C |
| Low Side TS Min | -35 °C |
| Low Side Volume | 16.5 L |
| Low value of nominal voltage at 50Hz [V] | 380 V |
| Low value of nominal voltage at 60Hz [V] | 460 V |
| Low value of voltage range at 50Hz [V] | 340 V |
| Low value of voltage range at 60Hz [V] | 414 V |
| LRA | 85 A |
| Max pressure (PS) - high side | 27.8 bar |
| Max pressure (PS) - low side | 18.4 bar |
| MCC | 18 A |
| Model number | MT80HP4CVE |
| Motor protection | Internal overload protector |
| Mounting torque [Nm] | 15 N·m |
| Network power supply [V/Ph/Hz] | 380-415/3/50 460/3/60 |
| Number of starts per hour [Max] | 12 |
| Oil charge [L] | 1.8 L |
| Oil equalization | 3/8" flare SAE |
| Oil equalization torque [Nm] | 30 N·m |
| Oil reference | 160P |
| Packaging height [mm] | 455 mm |
| Packaging length [mm] | 395 mm |
| Packaging weight [Kg] | 44 kg |
| Packaging width [mm] | 365 mm |
| Packing format | Single pack |
| Packing quantity | 1 |
| Phase | 3 |
| Power connections | Spade |
| Product group | Hermetic compressors |
| Product Name Description | MT |
| REACH Candidate List substances | Lead (CAS no. 7439-92-1) |
| Refrigerant charge [kg] [Max] | 5 kg |
| Refrigerants | R22 |
| Rotational speed at 50Hz [rpm] | 2900 rpm |
| Rotational speed at 60Hz [rpm] | 3500 rpm |
| SCIP dossier no. | 9b3fb119-9852-486a-92dd-53aa9c96fd3b |

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PRODUCT DETAILS

| | |
|--|---|
| Segment usage | Refrigeration MT |
| Shipped fittings | Suction and discharge solder sleeves, rotolock nuts, and gaskets |
| Shipped instructions | Installation instructions |
| Shipped mounting | Mounting kit with grommets, bolts, nuts, sleeves and washers |
| Shipped oil | Initial oil charge |
| Suction connection height [mm] | 265 mm |
| Suction connection material | - |
| Suction connection pipe size [in] | 1 1/8 in |
| Suction connection size [in] | 1 3/4 in |
| Swept volume [cm ³] | 135.78 cm ³ |
| Technology | Reciprocating |
| Test Dif [bar] [Max] | 30 bar |
| Test HP [bar] [Max] | 30 bar |
| Test LP [bar] [Max] | 25 bar |
| Torque earth [Nm] | 3 N-m |
| Torque power [Nm] | 3 N-m |
| Total height [mm] | 413 mm |
| Type | MT080 |
| UK RoHS compliance | Out of scope |
| Viscosity [cP] | 32 cP |
| Winding resistance for three-phase compressors with identical windings [Ohm] | 1.85 Ohm |
| Proposition 65 | WARNING: Cancer and Reproductive Harm www.p65warnings.ca.gov |

For Documents, Software, Visuals and more information, please use this link to visit the product page on Danfoss Product Store [↗](#)

Accessories



8156009 [↗](#)

Connector, GASKET

Gasket set, 1", 1-1/4", 1-3/4", OSG gaskets black and white



8156131 [↗](#)

Connector, GASKET

Gasket, 1-1/4"



120Z0764 [↗](#)

Mounting, Compressor kit

Mounting kit 2 cylinder HP

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Accessories**8156134****Electrical component, Terminal box**

Service kit for terminal box 80 x 96 mm, including 1 cover, 1 clamp

**120Z0576****Acoustic hood, Reciprocating**

Acoustic hood for two-cylinder compressor

**8153008****Connector, Solder Sleeve**

Solder sleeve, P04 (1-1/4" rotolock, 3/4" ODF)

**8153004****Connector, Solder Sleeve**

Solder sleeve, P02 (1-3/4" rotolock, 1-1/8" ODF)

**8156132****Connector, GASKET**

Gasket, 1-3/4"

Spare Parts**120Z0466****Crankcase heater, Belt heater**

Belt type crankcase heater, 65 W, 460 V, CE mark, UL

**7754001****Lubricant, 160P**

Mineral oil, 160P, 2-litre can

**7703009****Connector, Valve set**

Valve set, V02 (1-3/4"~1-1/8"), V04 (1-1/4"~3/4")

**8156019****Connector, Sight glass**

Oil sight glass with gaskets (black and white)

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Spare Parts

7773107 **Crankcase heater, Belt heater**

Belt type crankcase heater, 65 W, 230 V, CE mark, UL

8168029 **Connector, Rotolock service valve**

Rotolock valve, V04 (1-1/4" rotolock, 3/4" ODF)

120Z0459 **Crankcase heater, PTC heater**

PTC heater 27W, CE mark, UL

8168028 **Connector, Rotolock service valve**

Rotolock valve, V02 (1-3/4" rotolock, 1-1/8" ODF)

8156145 **Connector, GASKET**

Gasket for oil sight glass (black chloroprene)

7773117 **Crankcase heater, Belt heater**

Belt type crankcase heater, 65 W, 400 V, CE mark, UL

120Z0891 **Crankcase heater, Belt heater**

Belt type crankcase heater, 65 W, 400 V

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