



MTZ80-4VI

Reciprocating compressor, MTZ80HP4CVE

Refrigerants: R404A; R407C; R452A; R407A; R134a; R454C; R407F; R513A; R448A; R454A; R455A; R449A, Segment usage: Refrigeration MT, Compressor power supply [V]: 400/3/50 460/3/60, Packing format: Single pack

PRODUCT DETAILS

Gross weight	42.75 Kg
Net weight	40.42 Kg
Volume	61.54 Liter
EAN	5702428980487
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	MTZ080-4
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	MTZ
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	29.4 bar
Max pressure (PS) - low side	22.6 bar
MCC	18 A
Model number	MTZ80HP4CVE
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	175PZ
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	Reciprocating compressor MTZ
REACH Candidate List substances	Lead (CAS no. 7439-92-1)
Refrigerant charge [kg] [Max]	5 kg
Refrigerants	R134a R404A R407A R407C

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PRODUCT DETAILS

	R407F
	R448A
	R449A
	R452A
	R513A
	R454A
	R454C
	R455A
Rotational speed at 50Hz [rpm]	2900 rpm
Rotational speed at 60Hz [rpm]	3500 rpm
SCIP dossier no.	9b3fb119-9852-486a-92dd-53aa9c96fd3b
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 [cm³]	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	MTZ080
UK RoHS compliance	Out of scope
Winding resistance for three-phase compressors with identical windings [Ohm]	1.85 Ohm

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

Accessories

**120Z0638 ↗****Lubricant, 175PZ**

POE lubricant, 175PZ, 1-litre can

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

Acoustic hood for two-cylinder compressor

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Accessories

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

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

**7750009****Electrical component, Discharge thermostat kit**

Discharge thermostat kit

**120Z0639****Lubricant, 175PZ**

POE lubricant, 175PZ, 2.5L CAN

**120Z0764****Mounting, Compressor kit**

Mounting kit 2 cylinder HP

**8153008****Connector, Solder sleeve**

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

**8156009****Connector, Gasket**

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

**8156131****Connector, Gasket**

Gasket, 1-1/4"

**8153004****Connector, Solder sleeve**

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

**8156132****Connector, Gasket**

Gasket, 1-3/4"

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Spare Parts**8156019****Connector, Sight glass**

Oil sight glass with gaskets (black and white)

**8168029****Connector, Rotolock service valve**

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

**8168028****Connector, Rotolock service valve**

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

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

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

**120Z0466****Crankcase heater, Belt heater**

Belt type crankcase heater, 65 W, 460 V

**8156145****Connector, Gasket**

Gasket for oil sight glass (black chloroprene)

**7773107****Crankcase heater, Belt heater**

Belt type crankcase heater, 65 W, 230 V

**120Z0459****Crankcase heater, PTC heater**

PTC heater 27W

**7773117****Crankcase heater, Belt heater**

Belt type crankcase heater, 65 W, 400 V

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Spare Parts**120Z0891** **Crankcase heater, Belt heater**

Belt type crankcase heater, 65 W, 400 V

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