

**MTZ80-3VI****Reciprocating compressor, MTZ80HP3BVE**

Refrigerants: R404A; R407C; R452A; R407A; R134a; R454C; R407F; R513A; R448A;  
R454A; R455A; R449A, Segment usage: Refrigeration MT, Compressor power supply  
[V]: 200-230/3/60, Packing format: Single pack

**PRODUCT DETAILS**

Gross weight	43.08 Kg
Net weight	40.6 Kg
Volume	61.54 Liter
EAN	5702428887939
Approval	CE UL UKCA
Brand technique	Reciprocating compressor
Capacity control	Fixed speed
China RoHS compliance	Out of scope
Colour	Blue
Compressor power supply [V]	200-230/3/60
Configuration code	Single
Connection type	Rotolock
Cylinder	2
Description	MTZ080-3
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	8502011e
Economizer	No
EU RoHS compliance	Yes with exemptions
EU RoHS exemption clause	6(a), 6(a)-I, 7(a), 7(c)-I, 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]	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

## Product Detail | Reciprocating compressor, MTZ80HP3BVE

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High Side Volume	0.6 L
High value of nominal voltage at 60Hz [V]	230 V
High value of voltage range at 60Hz [V]	253 V
In scope of WEEE and contain batteries	No
IP protection class	IP54 (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 60Hz [V]	200 V
Low value of voltage range at 60Hz [V]	180 V
LRA	140 A
Max pressure (PS) - high side	29.4 bar
Max pressure (PS) - low side	22.6 bar
MCC	36 A
Model number	MTZ80HP3BVE
Motor protection	Internal overload protector
Mounting torque [Nm]	15 N-m
Network power supply [V/Ph/Hz]	208-230/3/60
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	Screw connectors 10-32 UNF x 9.5
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 R407F R448A R449A R452A R513A R454A R454C R455A
Rotational speed at 60Hz [rpm]	3500 rpm

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## Product Detail | Reciprocating compressor, MTZ80HP3BVE

## PRODUCT DETAILS

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 [cm <sup>3</sup> ]	135.78 cm <sup>3</sup>
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]	0.49 Ohm

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## Accessories



**120Z0761** [🔗](#)

**Mounting, Compressor kit**

Mounting kit 2 cylinder HP



**120Z0576** [🔗](#)

**Acoustic hood, Reciprocating**

Acoustic hood for two-cylinder compressor



**8156009** [🔗](#)

**Connector, Gasket**

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



**8153004** [🔗](#)

**Connector, Solder sleeve**

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

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## Accessories

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

Gasket, 1-1/4"

**8156135** **Electrical component, Terminal box**

Service kit for terminal box 96 x 115 mm, including 1 cover, 1 clamp

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

Discharge thermostat kit

**8173230** **Electrical component, T block**

T block connector 52 x 57 mm

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

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

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

Gasket, 1-3/4"

## Spare Parts

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

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

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

PTC heater 27W

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

Oil sight glass with gaskets (black and white)

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Spare Parts

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**120Z0638** [🔗](#)**Lubricant, 175PZ**

POE lubricant, 175PZ, 1-litre can

**8156145** [🔗](#)**Connector, Gasket**

Gasket for oil sight glass (black chloroprene)

**8168029** [🔗](#)**Connector, Rotolock service valve**

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

**7703009** [🔗](#)**Connector, Valve set**

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

**7773107** [🔗](#)**Crankcase heater, Belt heater**

Belt type crankcase heater, 65 W, 230 V

**120Z0639** [🔗](#)**Lubricant, 175PZ**

POE lubricant, 175PZ, 2.5L CAN

**7773109** [🔗](#)**Crankcase heater, Belt heater**

Belt type crankcase heater, 65 W, 110 V

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