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Reciprocating compressor, MTZ80HP4AVE

# MTZ80-4VI

## Product details

<b>Gross weight</b>	44.5 kg
<b>Net weight</b>	42 kg
<b>EAN</b>	5702428980487
<b>Approval standard</b>	CE UL
<b>Brand technique</b>	Reciprocating compressor
<b>Capacity control</b>	Fixed speed
<b>Colour</b>	Blue
<b>Compressor power supply [V/Ph/Hz]</b>	400/3/50 460/3/60
<b>Configuration code</b>	Single

<b>Connection type</b>	Rotolock
<b>Cylinder</b>	2
<b>Description</b>	MTZ080-4
<b>Diameter [mm]</b>	288 mm
<b>Discharge connection height [mm]</b>	74 mm
<b>Discharge connection mounting torque [Nm]</b>	90 N-m
<b>Discharge connection pipe size [in]</b>	3/4 in
<b>Discharge connection rotolock size [in]</b>	1 1/4 in
<b>Discharge connection size [in]</b>	1 1/4 in
<b>Discharge connection sleeve pipe size [in]</b>	3/4 in
<b>Drawing number</b>	8502012g
<b>Economizer</b>	No
<b>Factory HP [bar]</b>	25 bar
<b>Factory LP [bar]</b>	25 bar
<b>Fitting remark</b>	(shipped with rotolock version only)
<b>Fitting sleeve</b>	ODF
<b>Fitting standard</b>	Rotolock
<b>Frequency [Hz]</b>	50/60

<b>Gauge port HP</b>	None
<b>Gauge port LP</b>	Schrader
<b>Generation code</b>	B
<b>Glass mounting</b>	Threaded
<b>Glass torque [Nm]</b>	50 N-m
<b>GP LP torque [Nm]</b>	15 N-m
<b>High side max pressure (Ps)</b>	29.4 bar
<b>High Side TS Max</b>	150 °C
<b>High Side TS Min</b>	-35 °C
<b>High Side Volume</b>	0.6 L
<b>High value of nominal voltage at 50Hz [V]</b>	400 V
<b>High value of nominal voltage at 60Hz [V]</b>	460 V
<b>High value of voltage range at 50Hz [V]</b>	460 V
<b>High value of voltage range at 60Hz [V]</b>	506 V
<b>IP protection class</b>	IP55 (with cable gland)
<b>Low side max pressure (Ps)</b>	22.6 bar
<b>Low Side TS Max</b>	50 °C
<b>Low Side TS Min</b>	-35 °C

<b>Low Side Volume</b>	16.5 L
<b>Low value of nominal voltage at 50Hz [V]</b>	380 V
<b>Low value of nominal voltage at 60Hz [V]</b>	460 V
<b>Low value of voltage range at 50Hz [V]</b>	340 V
<b>Low value of voltage range at 60Hz [V]</b>	414 V
<b>LRA</b>	80 A
<b>MCC</b>	18.5 A
<b>Model number</b>	MTZ80HP4AVE
<b>Motor protection</b>	Internal overload protector
<b>Mounting torque [Nm]</b>	15 N-m
<b>Nominal cooling capacity at 50Hz</b>	10.5 kW
<b>Nominal cooling capacity at 60Hz</b>	13.4 kW
<b>Number of starts per hour [Max]</b>	12
<b>Oil charge [L]</b>	1.8 L
<b>Oil equalization</b>	3/8" flare SAE
<b>Oil equalization torque [Nm]</b>	30 N-m
<b>Oil reference</b>	175PZ
<b>Packaging height [mm]</b>	455 mm

<b>Packaging length [mm]</b>	395 mm
<b>Packaging weight [Kg]</b>	44 kg
<b>Packaging width [mm]</b>	365 mm
<b>Packing format</b>	Single pack
<b>Packing quantity</b>	1
<b>Phase</b>	3
<b>Power connections</b>	Spade
<b>Refrigerant</b>	R134a R404A R407A R407C R407F R507A R448A R449A R452A R513A
<b>Refrigerant charge [kg] [Max]</b>	5 kg
<b>Relief valve</b>	30 bar/8 bar
<b>Rotational speed at 50Hz [rpm]</b>	2900 rpm
<b>Rotational speed at 60Hz [rpm]</b>	3500 rpm
<b>Segment usage</b>	Air conditioning Refrigeration MT

<b>Shipped fittings</b>	Suction and discharge solder sleeves, rotolock nuts, and gaskets
<b>Shipped instructions</b>	Installation instructions
<b>Shipped mounting</b>	Mounting kit with grommets, bolts, nuts, sleeves and washers
<b>Shipped oil</b>	Initial oil charge
<b>Suction connection height [mm]</b>	265 mm
<b>Suction connection mounting torque [Nm]</b>	110 N-m
<b>Suction connection pipe size [in]</b>	1 1/8 in
<b>Suction connection rotolock size [in]</b>	1 3/4 in
<b>Suction connection size [in]</b>	1 3/4 in
<b>Suction connection sleeve pipe size [in]</b>	1 1/8 in
<b>Swept volume [cm<sup>3</sup>]</b>	135.78 cm <sup>3</sup>
<b>Technology</b>	Reciprocating
<b>Test Dif [bar] [Max]</b>	30 bar
<b>Test HP [bar] [Max]</b>	30 bar
<b>Test LP [bar] [Max]</b>	25 bar
<b>Torque earth [Nm]</b>	3 N-m
<b>Torque power [Nm]</b>	3 N-m

<b>Total height [mm]</b>	413 mm
<b>Type</b>	MTZ
<b>Type designation</b>	Compressor
<b>Winding resistance for three-phase compressors with identical windings [Ohm]</b>	1.94 Ohm

**Proposition 65**

**WARNING:** Cancer and Reproductive Harm

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