

**MTZ144-3VI****Reciprocating compressor, MTZ144HV3VE**

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

**PRODUCT DETAILS**

<b>Gross weight</b>	72.75 Kg
<b>Net weight</b>	69 Kg
<b>Volume</b>	100.75 Liter
<b>EAN</b>	5702428888295
<b>Approval</b>	CE UL UKCA
<b>Brand technique</b>	Reciprocating compressor
<b>Capacity control</b>	Fixed speed
<b>China RoHS compliance</b>	Out of scope
<b>Colour</b>	Blue
<b>Compressor power supply [V]</b>	200-230/3/60
<b>Configuration code</b>	Single
<b>Connection type</b>	Rotolock
<b>Cylinder</b>	4
<b>Description</b>	MTZ144-3
<b>Diameter [mm]</b>	352 mm
<b>Discharge connection height [mm]</b>	125 mm
<b>Discharge connection pipe size [in]</b>	3/4 in
<b>Discharge connection size [in]</b>	1 1/4 in
<b>Drawing number</b>	8504011e
<b>Economizer</b>	No
<b>EU RoHS compliance</b>	Yes with exemptions
<b>EU RoHS exemption clause</b>	6(a), 6(a)-I, 7(a), 7(c)-I, 8(b), 9(b)
<b>Factory HP [bar]</b>	25 bar
<b>Factory LP [bar]</b>	25 bar
<b>Family</b>	MTZ
<b>Fitting remark</b>	(shipped with rotolock version only)
<b>Fitting sleeve</b>	ODF
<b>Fitting standard</b>	Rotolock
<b>Frequency [Hz]</b>	60
<b>Gauge port HP</b>	None
<b>Gauge port LP</b>	Schrader
<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 TS Max</b>	150 °C
<b>High Side TS Min</b>	-35 °C

## Product Detail | Reciprocating compressor, MTZ144HV3VE

## PRODUCT DETAILS

High Side Volume	1.2 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	31 L
Low value of nominal voltage at 60Hz [V]	200 V
Low value of voltage range at 60Hz [V]	180 V
LRA	259 A
Max pressure (PS) - high side	29.4 bar
Max pressure (PS) - low side	22.6 bar
MCC	64 A
Model number	MTZ144HV3VE
Motor protection	Internal overload protector
Mounting torque [Nm]	50 N-m
Network power supply [V/Ph/Hz]	208-230/3/60
Number of starts per hour [Max]	12
Oil charge [L]	3.9 L
Oil equalization	3/8" flare SAE
Oil equalization torque [Nm]	30 N-m
Oil reference	175PZ
Packaging height [mm]	720 mm
Packaging length [mm]	570 mm
Packaging weight [Kg]	72 kg
Packaging width [mm]	400 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	MTZ
REACH Candidate List substances	Lead (CAS no. 7439-92-1)
Refrigerant charge [kg] [Max]	10 kg
Refrigerants	R134a R404A R407A R407C R407F R448A R449A R452A R513A
Rotational speed at 60Hz [rpm]	3500 rpm
SCIP dossier no.	6971587b-85b6-4808-886d-274e8a9998d4
Segment usage	Refrigeration MT

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**Product Detail | Reciprocating compressor, MTZ144HV3VE**
**PRODUCT DETAILS**

<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>	233 mm
<b>Suction connection material</b>	-
<b>Suction connection pipe size [in]</b>	1 1/8 in
<b>Suction connection size [in]</b>	1 3/4 in
<b>Swept volume [cm<sup>3</sup>]</b>	241.87 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>	540 mm
<b>Type</b>	MTZ144
<b>UK RoHS compliance</b>	Out of scope
<b>Winding resistance for three-phase compressors with identical windings [Ohm]</b>	0.28 Ohm
<b>Proposition 65</b>	WARNING: Cancer and Reproductive Harm <a href="http://www.p65warnings.ca.gov">www.p65warnings.ca.gov</a>

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

**Accessories**

**8153004** [↗](#)
**Connector, Solder Sleeve**

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


**120Z0577** [↗](#)
**Acoustic hood, Reciprocating**

Acoustic hood for four-cylinder compressor


**8173230** [↗](#)
**Electrical component, T block**

T block connector 52 x 57 mm

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**Product Detail | Reciprocating compressor, MTZ144HV3VE****Accessories****8153008** [🔗](#)**Connector, Solder Sleeve**

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

**8156131** [🔗](#)**Connector, GASKET**

Gasket, 1-1/4"

**8156132** [🔗](#)**Connector, GASKET**

Gasket, 1-3/4"

**7750009** [🔗](#)**Electrical component, Discharge thermostat kit**

Discharge thermostat kit

**8156009** [🔗](#)**Connector, GASKET**

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

**8156007** [🔗](#)**Mounting, Compressor kit**

Mounting kit for four-cylinder compressor and MS, including 4 grommets, 4 bolts

**8156135** [🔗](#)**Electrical component, Terminal box**

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

**Spare Parts****7773110** [🔗](#)**Crankcase heater, Belt heater**

Belt type crankcase heater, 75 W, 110 V, CE mark, UL

**8168028** [🔗](#)**Connector, Rotolock service valve**

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

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**Product Detail | Reciprocating compressor, MTZ144HV3VE****Spare Parts****7703009** [🔗](#)**Connector, Valve set**

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

**7773108** [🔗](#)**Crankcase heater, Belt heater**

Belt type crankcase heater, 75 W, 230 V, CE mark, UL

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

Gasket for oil sight glass (black chloroprene)

**8156019** [🔗](#)**Connector, Sight glass**

Oil sight glass with gaskets (black and white)

**120Z0459** [🔗](#)**Crankcase heater, PTC heater**

PTC heater 27W, CE mark, UL

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

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

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

POE lubricant, 175PZ, 1-litre can

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