

**MTZ28-1VI****Reciprocating compressor, MTZ28JE1AVE**

Refrigerants: R404A; R407C; R452A; R407A; R134a; R454C; R407F; R513A; R448A; R455A; R454A; R449A, Segment usage: Refrigeration MT, Compressor power supply [V]: 208-230/1/60, Packing format: Single pack

PRODUCT DETAILS

Gross weight	24.88 Kg
Net weight	23 Kg
Volume	37.73 Liter
EAN	5702428980555
Approval	CE UL UKCA
Auxiliary winding resistance (start winding) for single-phase compressors [Ohm]	1.84
Brand technique	Reciprocating compressor
Capacity control	Fixed speed
Capacity of capacitor A	25 µF
Capacity of capacitor B	135 µF
Capacity of capacitor C	25 µF
China RoHS compliance	Out of scope
Colour	Blue
Compressor power supply [V]	208-230/1/60
Configuration code	Single
Connection type	Rotolock
Cylinder	1
Description	MTZ028-1
Diameter [mm]	224 mm
Discharge connection height [mm]	68 mm
Discharge connection pipe size [in]	1/2 in
Discharge connection size [in]	1 in
Drawing number	8501020e
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

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Product Detail | Reciprocating compressor, MTZ28JE1AVE

PRODUCT DETAILS

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
High Side Volume	0.3 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	IP55 (with cable gland)
Low Side TS Max	50 °C
Low Side TS Min	-35 °C
Low Side Volume	7.5 L
Low value of nominal voltage at 60Hz [V]	208 V
Low value of voltage range at 60Hz [V]	187 V
LRA	81 A
Main winding resistance for single-phase compressors [Ohm]	0.68
Max pressure (PS) - high side	29.4 bar
Max pressure (PS) - low side	22.6 bar
MCC	25 A
Model number	MTZ28JE1AVE
Motor protection	Internal overload protector
Mounting torque [Nm]	15 N-m
Network power supply [V/Ph/Hz]	208-230/1/60
Number of starts per hour [Max]	12
Oil charge [L]	0.95 L
Oil equalization	3/8" flare SAE
Oil equalization torque [Nm]	30 N-m
Oil reference	175PZ
Packaging height [mm]	385 mm
Packaging length [mm]	330 mm
Packaging weight [Kg]	26 kg
Packaging width [mm]	295 mm
Packing format	Single pack
Packing quantity	1
Phase	1
Power connections	Spade
Product group	Hermetic compressors
Product Name Description	MTZ
REACH Candidate List substances	Lead (CAS no. 7439-92-1)
Refrigerant charge [kg] [Max]	2.5 kg
Refrigerants	R134a R404A R407A R407C R407F

PRODUCT DETAILS

	R448A
	R449A
	R452A
	R513A
	R454C
	R455A
	R454A
Rotational speed at 60Hz [rpm]	3500 rpm
SCIP dossier no.	5a332c1b-1d1b-4998-8115-d0929877ecb4
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]	263 mm
Suction connection material	-
Suction connection pipe size [in]	5/8 in
Suction connection size [in]	1 1/4 in
Swept volume [cm³]	48.06 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]	356 mm
Type	MTZ028
UK RoHS compliance	Out of scope
Voltage of capacitor A [V]	440 V
Voltage of capacitor B [V]	330 V
Voltage of capacitor C [V]	440 V
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



8153011 [🔗](#)

Connector, Solder Sleeve

Solder sleeve, P09 (1-1/4" rotolock, 5/8" ODF)

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Accessories

**120Z0575** [🔗](#)**Acoustic hood, Reciprocating**

Acoustic hood for one-cylinder compressor

**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

**8156130** [🔗](#)**Connector, GASKET**

Gasket, 1"

**8153007** [🔗](#)**Connector, Solder Sleeve**

Solder sleeve, P06 (1" rotolock, 1/2" ODF)

**8173002** [🔗](#)**Electrical component, Start capacitor**

Start capacitor 330V, 140 µF

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

Gasket, 1-1/4"

**8156001** [🔗](#)**Mounting, Compressor kit**

Mounting kit for one and two-cylinder compressor, including 3 grommets, 3 bolts

**8156134** [🔗](#)**Electrical component, Terminal box**

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

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Spare Parts

**7773106** [🔗](#)**Crankcase heater, Belt heater**

Belt type crankcase heater, 54 W, 230 V, CE mark, UL

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

PTC heater 27W, CE mark, UL

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

Oil sight glass with gaskets (black and white)

**7701154** [🔗](#)**Electrical component, Starting kit**CSR starting kit, 25 μ F, 25 μ F, 140 μ F**8173022** [🔗](#)**Electrical component, Relay**

Starting relay type RVA-6AMKL/3ARR3J4A4

**8168033** [🔗](#)**Connector, Rotolock service valve**

Rotolock valve, V09 (1-1/4" rotolock, 5/8" ODF)

**7703005** [🔗](#)**Connector, Valve set**

Valve set, V09 (1-1/4"~5/8"), V06 (1"~1/2")

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

POE lubricant, 175PZ, 1-litre can

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

Gasket for oil sight glass (black chloroprene)

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Spare Parts



8168031 [🔗](#)

Connector, Rotolock service valve

Rotolock valve, V06 (1" rotolock, 1/2" ODF)

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