

**MTZ28-5VI****Reciprocating compressor, MTZ28JE5AVE**

Refrigerants: R404A; R407C; R452A; R407A; R134a; R454C; R407F; R513A; R448A; R455A; R449A, Segment usage: Refrigeration MT, Compressor power supply [V/Ph/Hz]: 220-240/1/50

PRODUCT DETAILS

Gross weight	24.88 Kg
Net weight	23 Kg
Volume	37.73 Liter
EAN	5702428661553
Approval standard	CE UL CCC (except R407A R407F)
Auxiliary winding resistance (start winding) for single-phase compressors [Ohm]	3.26
Brand technique	Reciprocating compressor
Capacity control	Fixed speed
Capacity of capacitor A	20 µF
Capacity of capacitor B	100 µF
Capacity of capacitor C	10 µF
Colour	Blue
Compressor power supply [V/Ph/Hz]	220-240/1/50
Configuration code	Single
Connection type	Rotolock
Cylinder	1
Description	MTZ028-5
Diameter [mm]	224 mm
Discharge connection height [mm]	68 mm
Discharge connection pipe size [in]	3/8 in
Discharge connection size [in]	1 in
Drawing number	8501021e
Economizer	No
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
Gauge port HP	None
Gauge port LP	Schrader
Generation code	A

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Product Detail | Reciprocating compressor, MTZ28JE5AVE

PRODUCT DETAILS

Glass mounting	Threaded
Glass torque [Nm]	50 N-m
GP LP torque [Nm]	15 N-m
High side max pressure (Ps)	29.4 bar
High Side TS Max	150 °C
High Side TS Min	-35 °C
High Side Volume	0.3 L
High value of nominal voltage at 50Hz [V]	240 V
High value of voltage range at 50Hz [V]	264 V
IP protection class	IP55 (with cable gland)
Low side max pressure (Ps)	22.6 bar
Low Side TS Max	50 °C
Low Side TS Min	-35 °C
Low Side Volume	7.5 L
Low value of nominal voltage at 50Hz [V]	220 V
Low value of voltage range at 50Hz [V]	198 V
LRA	51 A
Main winding resistance for single-phase compressors [Ohm]	1.07
MCC	20 A
Model Number	MTZ28JE5AVE
Motor protection	Internal overload protector
Mounting torque [Nm]	15 N-m
Network power supply [V/Ph/Hz]	220-240/1/50 208-230/1/60
Nominal cooling capacity at 50Hz	3.4 kW
Nominal cooling capacity at 60Hz	4.7 kW
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
Refrigerant charge [kg] [Max]	2.5 kg
Refrigerants	R134a R404A R407A R407C R407F R448A

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Product Detail | Reciprocating compressor, MTZ28JE5AVE

PRODUCT DETAILS

	R449A
	R452A
	R454C
	R455A
	R513A
Relief valve	None
Rotational speed at 50Hz [rpm]	2900 rpm
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]	1/2 in
Suction connection size [in]	1 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]	333 mm
Type	MTZ028
Voltage of capacitor A [V]	440 V
Voltage of capacitor B [V]	330 V
Voltage of capacitor C [V]	440 V

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

Accessories



120Z0760 [🔗](#)

Mounting, Compressor kit

Mounting kit 1 cylinder low



7750009 [🔗](#)

Electrical component, Discharge thermostat kit

Discharge thermostat kit

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Accessories

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

POE lubricant, 175PZ, 2.5L CAN

**7701026** [🔗](#)**Electrical component, Starting kit**

PSC starting kit, 20 µF, 10 µF

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

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

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

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

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

Acoustic hood for one-cylinder compressor

**8153010** [🔗](#)**Connector, Solder Sleeve**

Solder sleeve, P01 (1" rotolock, 3/8" ODF)

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

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

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

POE lubricant, 175PZ, 1-litre can

**8173001** [🔗](#)**Electrical component, Start capacitor**

Start capacitor 330V, 98 µF

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

Gasket, 1"

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Spare Parts

**8168031** [↗](#)**Connector, Rotolock service valve**

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

**7773106** [↗](#)**Heater, Crankcase heater**

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

**8168027** [↗](#)**Connector, Rotolock service valve**

Rotolock valve, V01 (1" rotolock, 3/8" ODF)

**7701022** [↗](#)**Electrical component, Starting kit**

CSR starting kit, 20 µF, 10 µF, 98 µF

**7703004** [↗](#)**Connector, Valve set**

Valve set, V06 (1"~1/2"), V01 (1"~3/8")

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

Gasket for oil sight glass (black chloroprene)

**7701028** [↗](#)**Electrical component, Starting kit**

CSR starting kit, prewired box, 20 µF, 10 µF, 98 µF

**8173022** [↗](#)**Electrical component, Relay**

Starting relay type RVA-6AMKL/3ARR3J4A4

**7701026** [↗](#)**Electrical component, Starting kit**

PSC starting kit, 20 µF, 10 µF

**120Z0459** [↗](#)**Heater, PTC heater**

PTC heater 27W, CE mark, UL

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Spare Parts



8156019 [🔗](#)

Connector, Sight glass

Oil sight glass with gaskets (black and white)

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