

**MTZ28-4VI****Reciprocating compressor, MTZ28JE4AVE**

Refrigerant: R134a; R404A; R407A; R407C; R407F; R448A; R449A; R452A; R454C; R455A; R513A, Segment usage: Air conditioning; Refrigeration MT, Compressor power supply [V/Ph/Hz]: 400/3/50 460/3/60

**PRODUCT DETAILS**

<b>Gross weight</b>	25.94 kg
<b>Net weight</b>	24.09 kg
<b>EAN</b>	5702428980548
<b>Approval standard</b>	CE UL R455A)
<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>	1
<b>Description</b>	MTZ028-4
<b>Diameter [mm]</b>	224 mm
<b>Discharge connection height [mm]</b>	68 mm
<b>Discharge connection mounting torque [Nm]</b>	80 Nm
<b>Discharge connection pipe size [in]</b>	3/8 in
<b>Discharge connection rotolock size [in]</b>	1 in
<b>Discharge connection size [in]</b>	1 in
<b>Discharge connection sleeve pipe size [in]</b>	3/8 in
<b>Drawing number</b>	8501024e
<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>	A
<b>Glass mounting</b>	Threaded
<b>Glass torque [Nm]</b>	50 Nm
<b>GP LP torque [Nm]</b>	15 Nm

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## Product Detail | Reciprocating compressor, MTZ28JE4AVE

## PRODUCT DETAILS

<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>	0.3 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>	7.5 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>	29 A
<b>MCC</b>	7.5 A
<b>Model number</b>	MTZ28JE4AVE
<b>Motor protection</b>	Internal overload protector
<b>Mounting torque [Nm]</b>	15 Nm
<b>Nominal cooling capacity at 50Hz</b>	3.4 kW
<b>Nominal cooling capacity at 60Hz</b>	4.7 kW
<b>Number of starts per hour [Max]</b>	12
<b>Oil charge [L]</b>	0.95 L
<b>Oil equalization</b>	3/8" flare SAE
<b>Oil equalization torque [Nm]</b>	30 Nm
<b>Oil reference</b>	175PZ
<b>Packaging height [mm]</b>	385 mm
<b>Packaging length [mm]</b>	330 mm
<b>Packaging weight [Kg]</b>	26 kg
<b>Packaging width [mm]</b>	295 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 R448A R449A R452A

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## PRODUCT DETAILS

	R513A
	R454C
	R455A
<b>Refrigerant charge [kg] [Max]</b>	2.5 kg
<b>Relief valve</b>	None
<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>	263 mm
<b>Suction connection mounting torque [Nm]</b>	80 Nm
<b>Suction connection pipe size [in]</b>	1/2 in
<b>Suction connection rotolock size [in]</b>	1 in
<b>Suction connection size [in]</b>	1 in
<b>Suction connection sleeve pipe size [in]</b>	1/2 in
<b>Swept volume [cm<sup>3</sup>]</b>	48.06 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 Nm
<b>Torque power [Nm]</b>	3 Nm
<b>Total height [mm]</b>	333 mm
<b>Type</b>	MTZ
<b>Type designation</b>	Compressor
<b>Winding resistance for three-phase compressors with identical windings [Ohm]</b>	6.3 Ohm

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

## Accessories



**8156009** [🔗](#)

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

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

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**Product Detail | Reciprocating compressor, MTZ28JE4AVE****Accessories**

**120Z0639** [↗](#)  
**POE lubricant, 175PZ, 2.5L CAN**  
POE lubricant, 175PZ, 2.5L CAN



**8153007** [↗](#)  
**Adaptor**  
Solder sleeve, P06 (1" rotolock, 1/2" ODF)



**7750009** [↗](#)  
**Discharge thermostat kit**  
Discharge thermostat kit



**8156130** [↗](#)  
**Gasket, 1"**  
Gasket, 1"



**8156134** [↗](#)  
**Service kit for terminal box 80 x 96 mm, including 1 cover, 1 clamp**  
Service kit for terminal box 80 x 96 mm, including 1 cover, 1 clamp



**8153010** [↗](#)  
**Adaptor**  
Solder sleeve, P01 (1" rotolock, 3/8" ODF)



**120Z0638** [↗](#)  
**POE lubricant, 175PZ, 1-litre can**  
POE lubricant, 175PZ, 1-litre can



**120Z0575** [↗](#)  
**Acoustic hood for one-cylinder compressor**  
Acoustic hood for one-cylinder compressor

**Spare Parts**

**8168027** [↗](#)  
**Rotolock valve, V01 (1" rotolock, 3/8" ODF), Service kit**  
VALVE SETS V01 1"- 3/8"

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Spare Parts

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**8156019** [🔗](#)**Oil sight glass with gaskets (black and white)**Oil sight glass with gaskets (black and white)

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**8156145** [🔗](#)**Gasket for oil sight glass (black chloroprene)**Gasket for oil sight glass (black chloroprene)

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**7705006** [🔗](#)**MCI**Electronic soft start kit, MCI 15 C

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**7773106** [🔗](#)**Belt type crankcase heater, 54 W, 230 V, CE mark, UL**Belt type crankcase heater, 54 W, 230 V, CE mark, UL

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**7773013** [🔗](#)**Belt type crankcase heater, 54 W, 400 V, UL**Belt type crankcase heater, 54 W, 400 V, UL

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**8168031** [🔗](#)**Rotolock valve, V06 (1" rotolock, 1/2" ODF), Service kit**VALVE SETS V06 1"-1/2"

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**120Z0459** [🔗](#)**PTC heater 27W, CE mark, UL**PTC heater 27W, CE mark, UL

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**7703004** [🔗](#)**Valve set**Packing format: Multi pack, Packing quantity: 4

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