

**MTZ18-5VI****Reciprocating compressor, MTZ18JA5AVE**

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

**PRODUCT DETAILS**

<b>Gross weight</b>	23.88 kg
<b>Net weight</b>	22 kg
<b>EAN</b>	5702428661706
<b>Approval standard</b>	CE UL R455A)
<b>Auxiliary winding resistance (start winding) for single-phase compressors [Ohm]</b>	3.83 Ohm
<b>Brand technique</b>	Reciprocating compressor
<b>Capacity control</b>	Fixed speed
<b>Capacity of capacitor A</b>	20 µF
<b>Capacity of capacitor B</b>	100 µF
<b>Capacity of capacitor C</b>	10 µF
<b>Colour</b>	Blue
<b>Compressor power supply [V/Ph/Hz]</b>	220-240/1/50
<b>Configuration code</b>	Single
<b>Connection type</b>	Rotolock
<b>Cylinder</b>	1
<b>Description</b>	MTZ018-5
<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>	8501021e
<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

## Product Detail | Reciprocating compressor, MTZ18JA5AVE

## PRODUCT DETAILS

Gauge port HP	None
Gauge port LP	Schrader
Generation code	A
Glass mounting	Threaded
Glass torque [Nm]	50 Nm
GP LP torque [Nm]	15 Nm
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 nominal voltage at 60Hz [V]	0 V
High value of voltage range at 50Hz [V]	264 V
High value of voltage range at 60Hz [V]	0 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 nominal voltage at 60Hz [V]	0 V
Low value of voltage range at 50Hz [V]	198 V
Low value of voltage range at 60Hz [V]	0 V
LRA	40 A
Main winding resistance for single-phase compressors [Ohm]	1.35 Ohm
MCC	10 A
Model number	MTZ18JA5AVE
Motor protection	Internal overload protector
Mounting torque [Nm]	15 Nm
Nominal cooling capacity at 50Hz	1.9 kW
Nominal cooling capacity at 60Hz	2.6 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 Nm
Oil reference	175PZ
Packaging height [mm]	385 mm
Packaging length [mm]	330 mm
Packaging weight [Kg]	24 kg
Packaging width [mm]	295 mm
Packing format	Single pack
Packing quantity	1
Phase	1

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## PRODUCT DETAILS

<b>Power connections</b>	Spade
<b>Refrigerant</b>	R134a R404A R407A R407C R407F R448A R449A R452A R513A R454C R455A
<b>Refrigerant charge [kg] [Max]</b>	3 kg
<b>Relief valve</b>	None
<b>Rotational speed at 50Hz [rpm]</b>	2900 rpm
<b>Rotational speed at 60Hz [rpm]</b>	0 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>	30.23 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>Voltage of capacitor A [V]</b>	440 V
<b>Voltage of capacitor B [V]</b>	330 V
<b>Voltage of capacitor C [V]</b>	440 V

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

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**Accessories**


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**8153007** [↗](#)**Adaptor**

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

**8156001** [↗](#)**Mounting kit**

Mounting kit 1 cyl high

**8156130** [↗](#)**Gasket, 1"**

Gasket, 1"

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

POE lubricant, 175PZ, 1-litre can

**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

**8173001** [↗](#)**Start capacitor**

Start capacitor 330V, 98 µF

**7701026** [↗](#)**PSC starting kit, 20 µF, 10 µF**

PSC starting kit, 20 µF, 10 µF

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

Acoustic hood for one-cylinder compressor

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

Discharge thermostat kit

**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, MTZ18JA5AVE****Accessories****120Z0639** [🔗](#)**POE lubricant, 175PZ,2.5L CAN**

POE lubricant, 175PZ,2.5L CAN

**8153010** [🔗](#)**Adaptor**

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

**Spare Parts****7703004** [🔗](#)**Valve set**

Packing format: Multi pack, Packing quantity: 4

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

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

**7701022** [🔗](#)**CSR starting kit, 20 µF, 10 µF, 98 µF**

CSR starting kit, 20 µF, 10 µF, 98 µF

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

Oil sight glass with gaskets (black and white)

**7701026** [🔗](#)**PSC starting kit, 20 µF, 10 µF**

PSC starting kit, 20 µF, 10 µF

**8173022** [🔗](#)**Starting relay type RVA-6AMKL/3ARR3J4A4**

Starting relay type RVA-6AMKL/3ARR3J4A4

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

VALVE SETS V06 1"-1/2"

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Spare Parts



**8168027** [🔗](#)

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

VALVE SETS V01 1"- 3/8"



**7701028** [🔗](#)

**CSR starting kit, prewired box, 20  $\mu$ F, 10  $\mu$ F, 98  $\mu$ F**

CSR starting kit, prewired box, 20  $\mu$ F, 10  $\mu$ F, 98  $\mu$ F



**8156145** [🔗](#)

**Gasket for oil sight glass (black chloroprene)**

Gasket for oil sight glass (black chloroprene)



**120Z0459** [🔗](#)

**PTC heater 27W, CE mark, UL**

PTC heater 27W, CE mark, UL

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