



## MTZ144-4VI 🗷

## Reciprocating compressor, MTZ144HV4AVE

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

## PRODUCT DETAILS

72.75 Kg
69 Kg
122.411 Liter
5702428888288
CE
UL
Reciprocating compressor
Fixed speed
Blue
400/3/50 460/3/60
Single
Rotolock
4
MTZ144-4
352 mm
125 mm
3/4 in
1 1/4 in
8504011e
No
25 bar
25 bar
MTZ
(shipped with rotolock version only)
ODF
Rotolock
50/60
None
Schrader
No
Threaded
50 N-m
15 N-m
29.4 bar
150 ℃
-35 °C
1.2 L



PRODUCT DETAILS	
High value of nominal voltage at	400 V
50Hz [V]	
High value of nominal voltage at	460 V
60Hz [V]	
High value of voltage range at 50Hz	460 V
[V]	
High value of voltage range at 60Hz	506 V
[V]	
IP protection class	IP54 (with cable gland)
Low side max pressure (Ps)	22.6 bar
Low Side TS Max	50 ℃
Low Side TS Min	-35 °C
Low Side Volume	31 L
Low value of nominal voltage at	380 V
50Hz [V]	
Low value of nominal voltage at	460 V
60Hz [V]	
Low value of voltage range at 50Hz	340 V
[V]	
Low value of voltage range at 60Hz	414 V
[V]	
LRA	130 A
MCC	36 A
Model Number	MTZ144HV4AVE
Motor protection	Internal overload protector
Mounting torque [Nm]	50 N-m
Network power supply [V/Ph/Hz]	380-415/3/50 460/3/60
Nominal cooling capacity at 50Hz	18.5 kW
Nominal cooling capacity at 60Hz	23.6 kW
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
Refrigerant charge [kg] [Max]	10 kg
Refrigerants	R134a
	R404A
	R407A
	R407C
	R407F
	R448A
	R449A
	R452A



## **PRODUCT DETAILS**

	R513A	
Relief valve	30 bar/8 bar	
Rotational speed at 50Hz [rpm]	2900 rpm	
Rotational speed at 60Hz [rpm]	3500 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]	233 mm	
Suction connection material	-	
Suction connection pipe size [in]	1 1/8 in	
Suction connection size [in]	1 3/4 in	
Swept volume [cm3]	241.87 cm <sup>3</sup>	
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]	540 mm	
Туре	MTZ144	
Winding resistance for three-	1.15 Ohm	
phase compressors with identical		
windings [Ohm]		

For Documents, Software, Visuals and more information, please use this link to visit the product page on Danfoss Product Store 🖸

# Accessories



# 8156135 🗷

# **Electrical component, Terminal box**

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



# 120Z0577 🗷

## **Acoustic hood, Reciprocating**

Acoustic hood for four-cylinder compressor



## 8173230 🗷

# **Electrical component, T block**

T block connector 52 x 57 mm

#### For more information, please use this link to visit the product page on Danfoss Product Store 🗅



#### **Accessories**



## 120Z0639 🗷

Lubricant, 175PZ

POE lubricant, 175PZ,2.5L CAN



## 8153008 🗷

**Connector, Solder Sleeve** 

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



## 8153004 🗷

**Connector, Solder Sleeve** 

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



## 8156007 🗷

Mounting, Compressor kit

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



## 7750009 🗷

Electrical component, Discharge thermostat kit

Discharge thermostat kit



#### 8156009 12

Connector, GASKET

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



# 8156131 🗷

Connector, GASKET

Gasket, 1-1/4"



## 8156132 🗷

Connector, GASKET

Gasket, 1-3/4"



## 120Z0638 <sup>12</sup>

Lubricant, 175PZ

POE lubricant, 175PZ, 1-litre can



#### **Spare Parts**



## 7705007 🗷

Electrical component, MCI

Electronic soft start kit, MCI 25 C



## **7773118** 🗷

Heater, Belt heater

Belt type crankcase heater, 75 W, 400 V, CE mark, UL



#### 8156145 🗷

Connector, GASKET

Gasket for oil sight glass (black chloroprene)



## 7773108 🗷

Heater, Belt heater

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



#### 8168028 🗷

Connector, Rotolock service valve

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



# 8156019 🗷

Connector, Sight glass

Oil sight glass with gaskets (black and white)



## 7703009 🗷

Connector, Valve set

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



## 120Z0464 🗷

Heater, Belt heater

Belt type crankcase heater, 75 W, 460 V, CE mark, UL



## 8168029 🗷

Connector, Rotolock service valve

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

#### For more information, please use this link to visit the product page on Danfoss Product Store 🗷



## **Spare Parts**



**120Z0459** ☑ Heater, PTC heater

PTC heater 27W, CE mark, UL