



Reciprocating compressor, MTZ144HV4AVE

MTZ144-4VI

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

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Product specifications

Characteristic	Value
Approval	CE, UL, UKCA
Brand technique	Reciprocating compressor
Capacity Control	Fixed speed
CE mark	Yes
China RoHS compliance	Yes with exemptions
China RoHS exemption clause	7.1, 7.3, 8.1, 8.3.1
Colour	Blue
Compressor power supply [V]	400/3/50 460/3/60
Configuration code	Single
Connection type	Rotolock
Contains batteries	No
CoolselectorFilter	Active models
Cylinder	4
Description	MTZ144-4
DG Indicator Profile	Not relevant for dangerous goods
Diameter [mm]	352 mm
Discharge connection height [mm]	125 mm
Discharge connection pipe size [in]	3/4 in
Discharge connection size [in]	1-1/4 in
Drawing number	8504011e



Characteristic	Value
Economizer	No
EU RoHS compliance	Yes with exemptions
EU RoHS exemption clause	6(a)-I, 6(c), 7(a), 7(c)-I
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]	50/60
Gauge port HP	None
Gauge port LP	Schrader
Glass mounting	Threaded
Glass torque [Nm]	50 N-m
GP LP torque [Nm]	15 N-m
High Side TS Max	150.0 °C
High Side TS Min	-35.0 °C
High Side Volume	1.2 L
High value of nominal voltage at 50Hz [V]	400 V
High value of nominal voltage at 60Hz [V]	460 V
High value of voltage range at 50Hz [V]	440 V
High value of voltage range at 60Hz [V]	506 V
Identical product	MTZ144-4VM
In scope of WEEE	No
IP protection class	IP54 (with cable gland)
Low Side TS Max	50.0 °C
Low Side TS Min	-35.0 °C
Low Side Volume	31.0 L
Low value of nominal voltage at 50Hz [V]	380 V



Characteristic	Value
Low value of nominal voltage at 60Hz [V]	460 V
Low value of voltage range at 50Hz [V]	340 V
Low value of voltage range at 60Hz [V]	414 V
LRA	130 A
Material Description	COMPRESSOR OSG-EQUAL MULTIREF
Max pressure (PS) - high side	29.40 bar
Max pressure (PS) - low side	22.60 bar
Maximum Operating Current [MOC]	30.5 A
MCC	36 A
Model number	MTZ144HV4AVE
Motor protection	Internal overload protector
Mounting torque [Nm]	50.00 N-m
Network power supply [V/Ph/Hz]	380-415/3/50 460/3/60
Number of starts per hour [Max]	12
Oil charge [L]	3.90 L
Oil equalization	3/8" flare SAE
Oil equalization torque [Nm]	30 N-m
Oil level switch	None
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 line	Commercial Compressors



Characteristic	Value
Product name	Reciprocating compressor MTZ
Product Type	MTZ144
REACH Candidate List substances	Lead (CAS no. 7439-92-1), Diboron trioxide (B2O3, CAS no. 1303-86-2)
Refrigerant charge [kg] [Max]	10.00 kg
Refrigerants	R134a, R404A, R407A, R407C, R407F, R448A, R449A, R452A, R513A
Rotational speed at 50Hz [rpm]	2900 rpm
Rotational speed at 60Hz [rpm]	3500 rpm
SCIP dossier no.	6971587b-85b6-4808-886d-274e8a9998d4
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 ³
Technology	Reciprocating
Test dif [bar] [Max]	30 bar
Test HP [bar] [Max]	30.0 bar
Test LP [bar] [Max]	25.0 bar
Torque earth [Nm]	3.00 N-m
Torque power [Nm]	3.00 N-m
Total height [mm]	540.0 mm
U.S. EPA label	For installations using U.S. EPA restricted refrigerants, this product may be used for servicing existing equipment only
UL mark	Yes



Characteristic	Value
Winding resistance for three-phase compressors with identical windings [Ohm]	1.15 Ohm

General specifications

Characteristic	Value
Gross weight	72.75 Kilogram
Net weight	69 Kilogram
Volume	122.411 Liter
EAN/UPC	5702428888288
Proposition 65	Cancer and Reproductive Harm

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