



Reciprocating compressor, MTZ36JG5AVE

**MTZ36-5VI**

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

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Product specifications

| Characteristic                                                                  | Value                            |
|---------------------------------------------------------------------------------|----------------------------------|
| Approval                                                                        | CE                               |
| Auxiliary winding resistance (start winding) for single-phase compressors [Ohm] | 4.23 Ohm                         |
| Brand technique                                                                 | Reciprocating compressor         |
| Capacity Control                                                                | Fixed speed                      |
| Capacity of capacitor A                                                         | 25.000 µF                        |
| Capacity of capacitor B                                                         | 135 µF                           |
| Capacity of capacitor C                                                         | 10.000 µF                        |
| CE mark                                                                         | Yes                              |
| China RoHS compliance                                                           | Yes with exemptions              |
| China RoHS exemption clause                                                     | 7.1, 7.3                         |
| Colour                                                                          | Blue                             |
| Compressor power supply [V]                                                     | 220-240/1/50                     |
| Configuration code                                                              | Single                           |
| Connection type                                                                 | Rotolock                         |
| Contains batteries                                                              | No                               |
| CoolselectorFilter                                                              | Active models                    |
| Cylinder                                                                        | 1                                |
| Description                                                                     | MTZ036-5                         |
| DG Indicator Profile                                                            | Not relevant for dangerous goods |
| Diameter [mm]                                                                   | 224 mm                           |

| Characteristic                            | Value                                |
|-------------------------------------------|--------------------------------------|
| Discharge connection height [mm]          | 68 mm                                |
| Discharge connection pipe size [in]       | 1/2 in                               |
| Discharge connection size [in]            | 1 in                                 |
| Drawing number                            | 8501020e                             |
| Economizer                                | No                                   |
| EU RoHS compliance                        | Yes with exemptions                  |
| EU RoHS exemption clause                  | 6(a)-I, 6(c)                         |
| 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                             |
| 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                          | 0.3 L                                |
| High value of nominal voltage at 50Hz [V] | 240 V                                |
| High value of voltage range at 50Hz [V]   | 264 V                                |
| Identical product                         | MTZ36-5VM                            |
| In scope of WEEE                          | No                                   |
| IP protection class                       | IP55 (with cable gland)              |
| Low Side TS Max                           | 50.0 °C                              |
| Low Side TS Min                           | -35.0 °C                             |



| Characteristic                                             | Value                       |
|------------------------------------------------------------|-----------------------------|
| 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                                                        | 60 A                        |
| Main winding resistance for single-phase compressors [Ohm] | 0.80 Ohm                    |
| Material Description                                       | Compressor MTZ36-5VI        |
| Max pressure (PS) - high side                              | 29.40 bar                   |
| Max pressure (PS) - low side                               | 22.60 bar                   |
| Maximum Operating Current [MOC]                            | 23.8 A                      |
| MCC                                                        | 22 A                        |
| Model number                                               | MTZ36JG5AVE                 |
| Motor protection                                           | Internal overload protector |
| Mounting torque [Nm]                                       | 15.00 N-m                   |
| Network power supply [V/Ph/Hz]                             | 220-240/1/50                |
| 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 level switch                                           | None                        |
| Oil reference                                              | 175PZ                       |
| Packaging height [mm]                                      | 385 mm                      |
| Packaging length [mm]                                      | 330 mm                      |
| Packaging weight [Kg]                                      | 27 kg                       |
| Packaging width [mm]                                       | 295 mm                      |
| Packing format                                             | Single pack                 |
| Packing quantity                                           | 1                           |
| Phase                                                      | 1                           |
| Power connections                                          | Spade                       |
| Product group                                              | Hermetic compressors        |

| Characteristic                    | Value                                                                                                                    |
|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| Product line                      | Commercial Compressors                                                                                                   |
| Product name                      | Reciprocating compressor MTZ                                                                                             |
| Product Type                      | MTZ036                                                                                                                   |
| REACH Candidate List substances   | Lead (CAS no. 7439-92-1), Diboron trioxide (B2O3, CAS no. 1303-86-2)                                                     |
| Refrigerant charge [kg] [Max]     | 2.50 kg                                                                                                                  |
| Refrigerants                      | R134a, R404A, R407A, R407C, R407F, R448A, R449A, R452A, R454C, R455A, R513A                                              |
| Rotational speed at 50Hz [rpm]    | 2900 rpm                                                                                                                 |
| SCIP dossier no.                  | 5a332c1b-1d1b-4998-8115-d0929877ecb4                                                                                     |
| 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] | 5/8 in                                                                                                                   |
| Suction connection size [in]      | 1-1/4 in                                                                                                                 |
| Swept volume [cm <sup>3</sup> ]   | 60.47 cm <sup>3</sup>                                                                                                    |
| 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]                 | 356.0 mm                                                                                                                 |
| U.S. EPA label                    | For installations using U.S. EPA restricted refrigerants, this product may be used for servicing existing equipment only |
| Voltage of capacitor A [V]        | 440.00 V                                                                                                                 |

| Characteristic             | Value    |
|----------------------------|----------|
| Voltage of capacitor B [V] | 330.00 V |
| Voltage of capacitor C [V] | 440.00 V |

General specifications

| Characteristic | Value                        |
|----------------|------------------------------|
| Gross weight   | 27.75 Kilogram               |
| Net weight     | 26 Kilogram                  |
| Volume         | 37.734 Liter                 |
| EAN/UPC        | 5702428583091                |
| Proposition 65 | Cancer and Reproductive Harm |

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