



Reciprocating compressor, MTZ22JC4BVE

**MTZ22-4VI** [↗](#)

Refrigerants: R404A; R407C; R452A; R407A; R134a; R454C; R407F; R513A; R448A; R455A; R454A; R449A, Segment usage: Refrigeration MT, Compressor power supply [V]: 400/3/50 460/3/60, Packing format: Single pack

**Where to buy** [↗](#)

Product specifications

| Characteristic                      | Value                            |
|-------------------------------------|----------------------------------|
| Approval                            | CE, UL                           |
| Brand technique                     | Reciprocating compressor         |
| Capacity Control                    | Fixed speed                      |
| CE evaluated                        | Yes                              |
| China RoHS compliance               | Yes with exemptions              |
| China RoHS exemption clause         | 7.1, 7.3                         |
| 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                            | 1                                |
| Description                         | MTZ022-4                         |
| DG Indicator Profile                | Not relevant for dangerous goods |
| Diameter [mm]                       | 224 mm                           |
| Discharge connection height [mm]    | 68 mm                            |
| Discharge connection pipe size [in] | 3/8 in                           |
| Discharge connection size [in]      | 1 in                             |
| Drawing number                      | 8501024e                         |



| Characteristic                            | Value                                |
|-------------------------------------------|--------------------------------------|
| 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]                            | 50/60                                |
| 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                          | 0.3 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                         | MTZ22-4VM                            |
| 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                             |
| Low Side Volume                           | 7.5 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                                      | 20 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]          | 4.4 A                         |
| MCC                                      | 6 A                           |
| Model number                             | MTZ22JC4BVE                   |
| Motor protection                         | Internal overload protector   |
| Mounting torque [Nm]                     | 15.00 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]                           | 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]                    | 25 kg                         |
| Packaging width [mm]                     | 295 mm                        |
| Packing format                           | Single pack                   |
| Packing quantity                         | 1                             |
| Phase                                    | 3                             |
| Power connections                        | Spade                         |
| Product group                            | Hermetic compressors          |
| Product line                             | Commercial Compressors        |



| Characteristic                                                | Value                                                                                                                    |
|---------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| Product name                                                  | Reciprocating compressor MTZ                                                                                             |
| Product Type                                                  | MTZ022                                                                                                                   |
| 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, R454A                                       |
| Rotational speed at 50Hz [rpm]                                | 2900 rpm                                                                                                                 |
| Rotational speed at 60Hz [rpm]                                | 3500 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]                             | 1/2 in                                                                                                                   |
| Suction connection size [in]                                  | 1 in                                                                                                                     |
| Swept volume [cm3]                                            | 38.12 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]                                             | 333.0 mm                                                                                                                 |
| U.S. EPA label                                                | For installations using U.S. EPA restricted refrigerants, this product may be used for servicing existing equipment only |
| Winding resistance for three-phase compressors with identical | 11.84 Ohm                                                                                                                |



| Characteristic | Value |
|----------------|-------|
| windings [Ohm] |       |

General specifications

| Characteristic | Value                        |
|----------------|------------------------------|
| Gross weight   | 24.88 Kilogram               |
| Net weight     | 23 Kilogram                  |
| Volume         | 37.62 Liter                  |
| EAN/UPC        | 5702428980562                |
| Proposition 65 | Cancer and Reproductive Harm |

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