General Characteristics

Model number (on compressor nameplate)		**MTZ72HN4AVE**
Code number for Singlepack*		MTZ72-4VI
Code number for Industrial pack**		MTZ72-4VM
Drawing number		8502012g
Suction and discharge connections		Rotolock
Suction connection		1-3/4 " Rotolock
Discharge connection		1-1/4 " Rotolock
Suction connection with supplied sleeve		7/8 " ODF
Discharge connection with supplied sleeve		3/4 " ODF
Oil sight glass		Threaded
Oil equalisation connection		3/8" flare SAE
Oil drain connection		None
LP gauge port		Schrader
IPR valve		30 bar / 8 bar
Cylinders		2
Swept volume		120,94 cm3/rev
Displacement @ Nominal speed		21.0 m3/h @ 2900 rpm - 25.4 m3/h @ 3500 rpm
Net weight		40 kg
Oil charge		1,8 litre, POE - 160PZ
Maximum system test pressure Low Side / High side		25 bar(g) / 30 bar(g)
Maximum differential test pressure		30 bar
Maximum number of starts per hour		12
Refrigerant charge limit		5 kg
Approved refrigerants		R404A, R507A, R134a, R407C

Electrical Characteristics

Nominal voltage	380-400V/3/50Hz - 460V/3/60Hz
Voltage range	340-440 V @ 50Hz - 414-506 V @ 60Hz
Winding resistance (between phases) +/- 7% at 25ºC	1.9 #
Maximum Continuous Current (MCC)	15.5 A
Locked Rotor Amps (LRA)	80 A
Motor protection	Internal overload protector

Recommended Installation torques

Oil sight glass	50 Nm
Power connections / Earth connection	Nm / 2 Nm
Mounting bolts	15 Nm

Parts shipped with compressor

Mounting kit with grommets, bolts, nuts, sleeves and washers
Suction & Discharge solder sleeves, rotolock nuts and gaskets (shipped with rotolock version only)
Initial oil charge
Installation instructions

Approvals : CE certified, UL certified (file SA6873), -

*Singlepack: Compressor in cardboard box

**Industrial pack: 6 Unboxed compressors on pallet (order per multiples of 6)
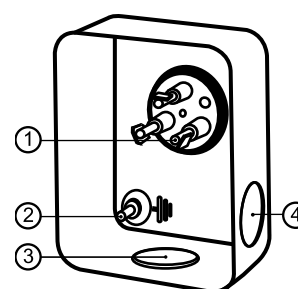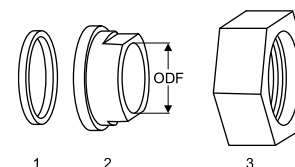
Dimensions

D=288 mm
H=413 mm
H1=265 mm
H2=74 mm

Terminal box

IP55 (with cable gland)

1:　　Spade connectors 1/4"
2:　　Earth M4-12
3:　　Knock-out Ø 21 mm (0.83")
4:　　Hole Ø 21 mm (0.83")

Rotolock accessories, suction side

	Code no.
Solder sleeve, P07 (1-3/4" Rotolock, 7/8" ODF)	8153013
Angle adapter, C07 (1-3/4" Rotolock, 7/8" ODF)	8168008
Rotolock valve, V07 (1-3/4" Rotolock, 7/8" ODF)	8168032
Gasket, 1-3/4"	8156132

Rotolock accessories, discharge side

	Code no.
Solder sleeve, P04 (1-1/4" Rotolock, 3/4" ODF)	8153008
Angle adapter, C04 (1-1/4" Rotolock, 3/4" ODF)	8168006
Rotolock valve, V04 (1-1/4" Rotolock, 3/4" ODF)	8168029
Gasket, 1-1/4"	8156131

Rotolock accessories, sets

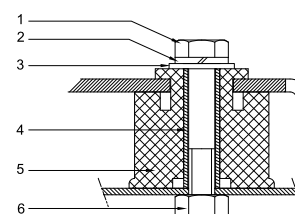|	Code no.
Angle adapter set, C07 (1-3/4"~7/8"), C04 (1-1/4"~3/4")	7703013
Valve set, V07 (1-3/4"~7/8"), V04 (1-1/4"~3/4")	7703006
Gasket set, 1", 1-1/4", 1-3/4", OSG gaskets black & white	8156009

Oil / lubricants

	Code no.
POE lubricant, 160PZ, 1 litre can	7754019
POE lubricant, 160PZ, 2 litre can	7754020

Crankcase heaters

	Code no.
PTC heater 27W, CE mark, UL	120Z0459
Belt type crankcase heater, 65 W, 230 V, CE mark, UL	7773107
Belt type crankcase heater, 65 W, 400 V, CE mark, UL	7773117
Belt type crankcase heater, 65 W, 460 V, CE mark, UL	120Z0466

Miscellaneous accessories

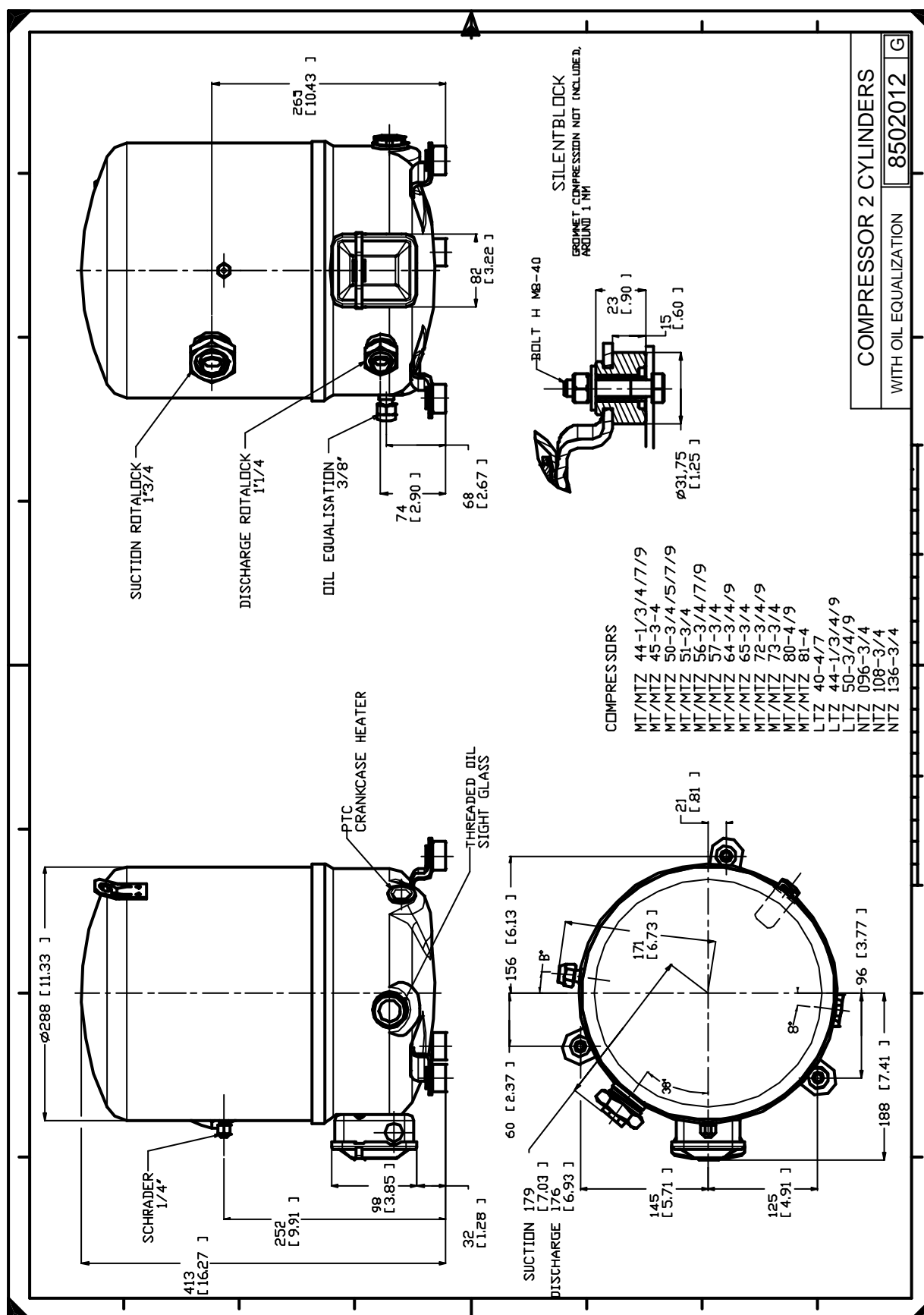|	Code no.
Electronic soft start kit, MCI 15 C	7705006
Acoustic hood for 2 cylinder compressor	120Z0472
Oil equalisation nut	8153127

Spare parts

	Code no.
Mounting kit for 1 and 2 cylinder compressor, including 3 grommets, 3 bolts	8156001
Oil sight glass with gaskets (black & white)	8156019
Gasket for oil sight glass (black chloroprene)	8156145
Service kit for terminal box 80 x 96 mm, including 1 cover, 1 clamp	8156134

Gaskets, sleeves and nuts

1: Gasket
2: Solder sleeve
3: Rotolock nut

Mounting kit

1: Bolt (3x)
2: Lock washer (3x)
3: Flat washer (3x)
4: Sleeve (3x)
5: Grommet (3x)
6: Nut (3x)

COMPRESSOR 2 CYLINDERS

WITH OIL EQUALIZATION

8502012 | G

SILENTBLOCK

GROMMET COMPRESSION NOT INCLUDED, AROUND 1 MM

BOLT H M8-40

SUCTION ROTALOCK 1"3/4

DISCHARGE ROTALOCK 1"1/4

OIL EQUALISATION 3/8"

263 [10.43]
82 [3.22]
74 [2.90]
68 [2.67]
23 [.90]
15 [.60]
Ø31,75 [1.25]

COMPRESSORS

MT/MTZ 44-1/3/4/7/9
MT/MTZ 45-3-4
MT/MTZ 50-3/4/5/7/9
MT/MTZ 51-3/4
MT/MTZ 56-3/4/7/9
MT/MTZ 57-3/4
MT/MTZ 64-3/4/9
MT/MTZ 65-3/4
MT/MTZ 72-3/4/9
MT/MTZ 73-3/4
MT/MTZ 80-4/9
MT/MTZ 81-4
LTZ 40-4/7
LTZ 44-1/3/4/9
LTZ 50-3/4/9
NTZ 096-3/4
NTZ 108-3/4
NTZ 136-3/4

PTC CRANKCASE HEATER

THREADED OIL SIGHT GLASS

SCHRADER 1/4"

Ø288 [11.33]
413 [16.27]
252 [9.91]
98 [3.85]
32 [1.28]

SUCTION 179 [7.03]
DISCHARGE 176 [6.93]

21 [.81]
156 [6.13]
171 [6.73]
96 [3.77]
60 [2.37]
145 [5.71]
125 [4.91]
188 [7.41]
8°

Maneurop
RECIPROCATING COMPRESSORS