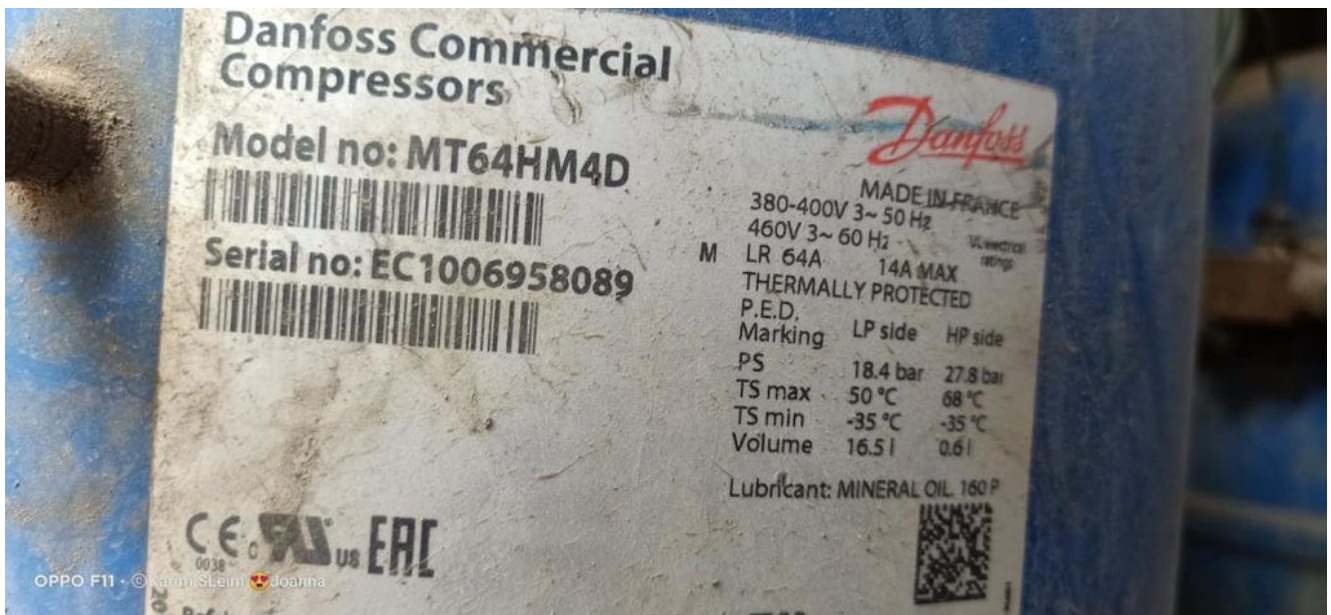
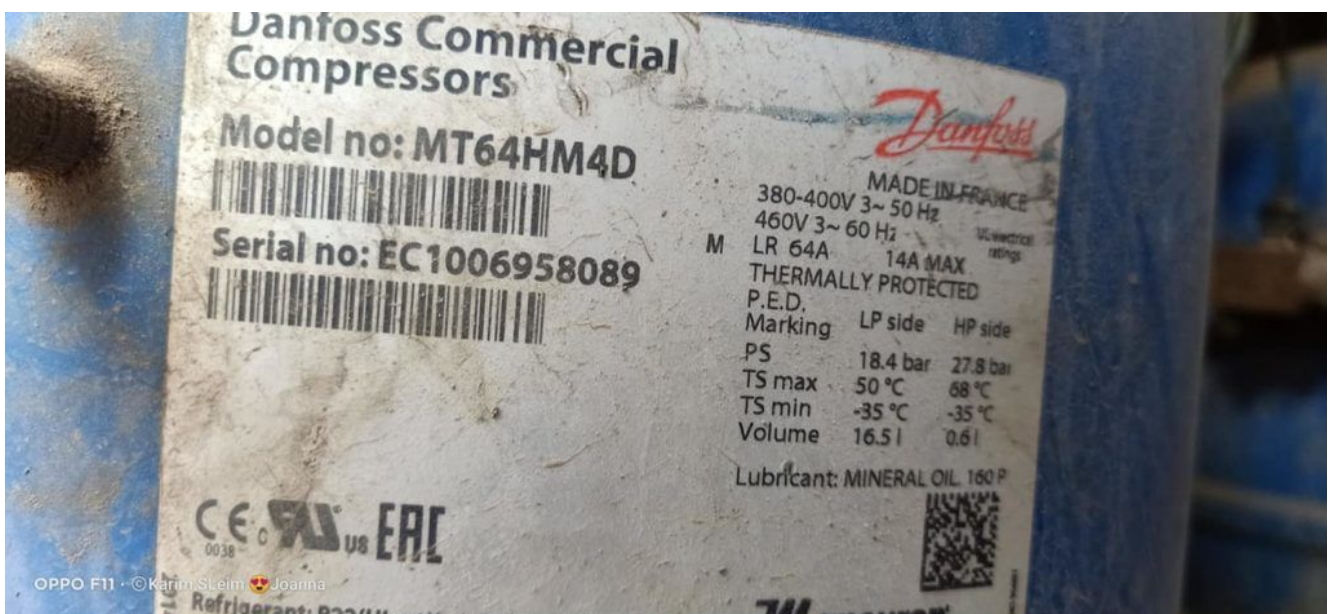


# Danfoss, Compressor, 5 Hp, R22, Démontage, ouverture, DESTRUCTION

written by Lilianne | 28 January 2021



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# Danfoss, Reciprocating, compressors, MT / MTZ / NTZ, MT64HM4DVE, R22, 5HP / hp, 3,9KW, 15A

written by Lilianne | 28 January 2021

## MT64HM4DVE Compresseur Danfoss Meyo Paramètres détaillés:

Nombre nominal de chevaux: 5HP / hp

Puissance nominale: 3,9KW

Courant de démarrage à rotor bloqué: 67A

Courant de travail: 15A

Cylindrée: 107,71 cm<sup>3</sup> / tr

interface fileté d'aspiration: 1 "3/4

rangée Interface de filetage d'air: 1 "3/4

taille du tuyau d'aspiration: 7/8"

taille du tuyau d'échappement: 3/4 "

vitesse: 2900 tr / min

Poids net: 37 kg

## Detailed Product Description

<b>MT Series Refrigerant:</b>	R22	<b>Type:</b>	Hermetic Reciprocating Compressor
<b>Phase:</b>	1PH,3PH	<b>Applcation Temp::</b>	Middle High Temperature
<b>Horse Power:</b>	1.5HP To 13.3HP	<b>Frenquency:</b>	50HZ 60HZ
<b>Voltage:</b>	380-400 -460V	<b>Colour:</b>	Blue

<b>Usage:</b>	For Commercial Refrigeration And Air Conditioning
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**R22 Danfoss Maneurop Hermetic compressor MT64HM3DVE France  
Maneurop Piston Reciprocating compressor**

Danfoss Maneurop NTZ series compressors are hermetic reciprocating type and designed for low evaporating temperature applications. Refrigerant: R404A/R507A

Model: NTZ048/NTZ068/NTZ096/NTZ108/NTZ136/NTZ215/NTZ...

Danfoss Maneurop MT/MTZ series compressors are hermetic reciprocating type and designed for Medium and High evaporating temperature applications. Refrigerant R22, R407C, R134A, R404A

380-400V/3~/50Hz and 460V/3~/60Hz

Models: MT/MTZ018 MT/MTZ022 MT/MTZ028... MT/MTZ320

Danfoss Maneurop MPZ series compressors are hermetic reciprocating type and designed for Medium and High evaporating temperature applications. Refrigerant: R404A/R507A

Models: MPZ2038/MPZ2048/MPZ2054/MPZ2061/MPZ2068



## **Danfoss Maneurop Commercial Hermetic Scroll Compressor MT64HM4DVE**

### **Specification:**

Maneurop MT/MTZ series compressors are of the hermetic reciprocating type and are designed for Medium and high evaporating temperature applications.

There are 26 different models with displacement ranging from 30-543cm<sup>3</sup>/rev.

Our Maneurop compressors are for 50Hz, motor code is 4, can be used for R22/R407C/R134a/R404A/R507

1. Piston /reciprocating type compressors.
2. Voltage is 50Hz
3. The refrigerant are R22/R407C/R134a/R404A/R507
4. There are MT/MTZ series
5. Original from France.
6. Capacity: 1.5HP~13HP, High efficiency, Low noise

1. MT series for R134a
2. MTZ series for R407c/134a

1. 50 Hz

2. Imported from France.

3. R22 Rated condition: 50Hz/400V

superheat: 11.1K

subcooling 8.3K condensing temp: 54.4°C

4. R407C Rated condition : 50Hz 400V

superheat:11.1K

subcooling 8.3K condensing temp:54.4°C

evaporating temp.7.2°C

refrigeration and power input±5%

We can supply more Danfoss compressor models as below:

MODEL (R22)	MODEL (R404A)	NTZ series
MT18-4VM	MTZ18-4VM	NTZ048A4LR1A
MT22-4VM	MTZ22-4VM	NTZ068A4LR1A
MT28-4VM	MTZ28-4VM	NTZ096A4LR1A
MT32-4VM	MTZ32-4VM	NTZ108A4LR1A
MT36-4VM	MTZ36-4VM	NTZ136A4LR1A
MT40-4VM	MTZ40-4VM	NTZ215A4LR1A
MT44-4VM	MTZ44-4VM	NTZ271A4LR1A
MT50-4VM	MTZ50-4VM	□
MT56-4VM	MTZ56-4VM	□
MT64-4VM	MTZ64-4VM	□
MT72-4VM	MTZ72-4VM	□
MT80-4VM	MTZ80-4VM	□
MT100-4VM	MTZ100-4VM	□
MT125-4VM	MTZ125-4VM	□
MT144-4VM	MTZ144-4VM	□
MT160-4VM	MTZ160-4VM	

Model NO.	Nom HP	Displ. Cc/rev	Capacity R404a(w)	
			-10	-5
MTZ18-4VI	1.5	30.2	1580	2110
MTZ18-5VI	1.5	30.2	1580	2110
MTZ22-4VI	1.8	38.12	2270	2920
MTZ22-5VI	1.8	38.12	2270	2920
MTZ28-4VI	2.3	48.06	2880	3720
MTZ28-5VI	2.3	48.06	2880	3720
MTZ32-4VI	2.7	53.86	3230	4220
MTZ32-5VI	2.7	53.86	3230	4220
MTZ36-4VI	3	60.47	3800	4870
MTZ36-5VI	3	60.47	3800	4870
MTZ40-4VI	3.3	67.89	4280	5490
MTZ45-4VI	3.8	76.22	4420	5840
MTZ51-4VI	4.2	85.64	5290	6920
MTZ57-4VI	4.8	96.13	6060	7880
MTZ65-4VI	5.4	107.71	7080	9130
MTZ73-4VI	6.1	120.94	7960	10230
MTZ81-4VI	6.8	135.78	9160	11720
MTZ100-4VI	8.3	171.26	10390	13500
MTZ125-4VI	10.4	215.44	13650	17500
MTZ144-4VI	12	241.87	15740	20120
MTZ160-4VI	13.3	271.55	17690	22520

Compresseur à piston Danfoss Maneurop MT22JC5PVE (2.0HP / 1PH)

Compresseur à piston Danfoss Maneurop MT22JC4AVE (2.0HP / 3PH)  
Compresseur à piston Danfoss Maneurop MT28JC5PVE (2.3HP / 1PH)  
Compresseur à piston Danfoss Maneurop MT22JC4AVE (2.0HP / 3PH)  
Compresseur à piston Danfoss Maneurop MT28JC5PVE (2.3HP / 1PH)  
Compresseur à piston Danfoss Maneurop 3PH (2.3HP / 1PH) 2.6HP / 1PH)  
Compresseur à piston Danfoss Maneurop MT32JF4DVE (2.6HP / 3PH);  
Compresseur à piston Danfoss Maneurop MT36JG5CVE (3.0HP / 1PH)  
Compresseur à piston Danfoss Maneurop MT36JG4FVE (3.0HP / 3PH)  
Compresseur à piston Danfoss Maneurop MT40JH4EVE (3.3HP / 3PH)  
Danfoss Maneurop Compresseur à piston MT36JG4FVE (3.0HP / 3PH)  
Compresseur à piston Danfoss Maneurop MT40JH4EVE (3.3HP / 3PH)  
Danfoss Maneurop Compresseur à piston MT36JG4FVE (3.0HP / 3PH)  
Compresseur à piston Danfoss Maneurop MT40JH4EVE (3.3HP / 3PH)  
Compresseur à piston Danfoss Maneurop 3KFHB4 (3.6PH) 4.0HP / 3PH)  
Compresseur à piston Danfoss Maneurop MT56HL4BVE (4. 6HP / 3PH)  
Compresseur à piston Danfoss Maneurop MT64HM4DVE (5.3HP / 3PH)  
Compresseur à piston Danfoss Maneurop MT72HN4AVE (6.0HP / 3PH)  
Compresseur à piston Danfoss Maneurop MT80HP4AVE (6.6HP / 3PH)  
Compresseur à piston Danfoss Maneurop MT72HN4AVE (6.0HP / 3PH)  
Compresseur à piston Danfoss Maneurop MT80HP4AVE (6.6HP / 3PH)  
Compresseur à piston Danfoss Maneurop4.0 Compresseur à piston MT144HV4AVE (12,0HP / 3PH)  
Compresseur à piston Danfoss Maneurop MT160HW4EVE (13.3HP / 3PH)  
Compresseur à piston Danfoss Maneurop MTZ22JC5VE (2.0HP / 1PH); [R134A, R404]  
Compresseur à piston Danfoss Maneurop MTZ22JC4AVE (2.0HP / 3PH); [R134A, R404]  
Compresseur à piston Danfoss Maneurop MTZ28JE5AVE (2,3 HP / 1PH); [R134A, R404]  
Compresseur à piston Danfoss Maneurop MTZ28JE4AVE (2,3 HP / 3PH); [R134A, R404]  
Compresseur à piston Danfoss Maneurop MTZ32JF5AVE (2,6 CV / 1PH); [R134A, R404]  
Compresseur à piston Danfoss Maneurop MTZ32JF4BVE (2.6HP / 3PH); [R134A, R404]  
Compresseur à piston Danfoss Maneurop MTZ36JG5AVE (3.0HP / 1PH); [R134A, R404]  
Compresseur à piston Danfoss Maneurop MTZ36JG4BVE (3.0HP / 3PH); [R134A, R404]  
Compresseur à piston Danfoss Maneurop MTZ40JH4AVE (3,3 CV / 3PH); [R134A, R404]  
Compresseur à piston Danfoss Maneurop MTZ50HK4CVE (4,0 CV / 3PH); [R134A, R404]  
Compresseur à piston Danfoss Maneurop



MTZ56HL4BVE (4,6 CV / 3PH); [R134A, R404] Compresseur à piston Danfoss Maneurop MTZ64HM4CVE (5,3 HP / 3PH); [R134A, R404] Compresseur à piston Danfoss Maneurop MTZ72HN4AVE (6,0 CV / 3PH); [R134A, R404] Compresseur à piston Danfoss Maneurop MTZ80HP4AVE (6,6 CV / 3PH); [R134A, R404] Compresseur à piston Danfoss Maneurop MTZ100HS4VE (8,3 CV / 3 PH); [R134A, R404] Compresseur à piston Danfoss Maneurop MTZ125HU4VE (10.0HP / 3PH); [R134A, R404] Compresseur à piston Danfoss Maneurop MTZ144HV4AVE (12,0 HP / 3PH); [R134A, R404] Compresseur à piston Danfoss Maneurop MTZ160HE4AVE (13,3 HP / 3PH); [R134A, R404] Compresseur à piston Danfoss Maneurop NTZ048A4LR1A (2.0HP / 3PH); [R134A, R404, R507] Compresseur à piston Danfoss Maneurop NTZ068A4LR1A (3,5 CV / 3PH); [R134A, R404, R507] Compresseur à piston Danfoss Maneurop NTZ096A4LR1A (4,5 CV / 3PH); [R134A, R404, R507] Compresseur à piston Danfoss Maneurop NTZ108A4LR1A (5,0 CV / 3PH); [R134A, R404, R507] Compresseur à piston Danfoss Maneurop NTZ136A4LR1A (6,5 CV / 3PH); [R134A, R404, R507] Compresseur à piston Danfoss Maneurop NTZ215A4LR1A (10,0 HP / 3PH); [R134A, R404, R507] Compresseur à piston Danfoss Maneurop NTZ271A4LR1A (13.0HP / 3PH); [R134A, R404, R507] COMPRESSEUR MANEUROP 2.0HP MT22 MANEUROPE 2.0HP MT22 COMPRESSEUR MANEUROP COMPRESSEUR MTZ-22JE-4VE R404A MANEUROPE 2.30HP MT28JE-5PVE MT28-5VI / MT28-5VM COMPRESSEUR MANEUROP 2.30HP MT28JE-5PVE MT28-5VI / MT28-5VM COMPRESSEUR MANEUROPEUR 2.30H5 / R404A) COMPRESSEUR MANEUROP 2.8HP MTZ32-5VM (R134a / R404A / R507) COMPRESSEUR MANEUROP MT32JF5MVE 2-3 / 4HP ((R22) COMPRESSEUR MANEUROP 3.0HP MT36JG4FVE (MT36-4VI / MT36-4VM) (R22) COMPRESSEUR 3.0HP COMPRESSEUR MT36 MANEUROP 3.3HP MT40JH4EVE COMPRESSEUR MANEUROP 3.3HP MTZ40-JH4AVE COMPRESSEUR (R407A / C / F / R134A / R404A / R507) Compresseur MANEUROP MTZ-36-JG4AVE (R407C / R134a / R404A-R407C / R134a / R404A) -Compresseur JH4AVE (R134a / R404A) – Compresseur 3.3HP 3PH MANEUROP MTZ-44-HJ4AVE (R134a / R404A) – 3. 5HP 3PH MANEUROP 4HP MTZ-50HK-4CVE (MTZ50-4VI / MTZ50-4VM) COMPRESSEUR (R134A / R404A) MANEUROP MTZ56HL3BVE R407c, R134a, R507a, R404a compresseur MANEUROP MT-64-4VM COMPRESSEUR MANEUR 64-4VM COMPRESSEUR MANEUR

COMPRESSEUR MT72-4VM COMPRESSEUR MANEUROP MT-80-4VM (6.5HP)  
 Compresseur MANEUROP 6.6HP MT81HP4AVE COMPRESSEUR MANEUROP  
 MTZ80HM4DVE COMPRESSEUR MANEUROP 8.5HP MT100-4VM COMPRESSEUR  
 MANEUROPE 10HP MT100-4VM (MT100HS4DVE) COMPRESSEUR 10HP  
 MT100-4VM (MT100HS4DVE) COMPRESSEUR MT12M10 MANHOP 4-  
 COMPRESSEUR 10HP R22) COMPRESSEUR MANEUROP 10HP MTZ125HW4AVE  
 (R404A / R134A / R507 / R407C) COMPRESSEUR MANEUROPE 12HP  
 MT144-4VM COMPRESSEUR MANEUROPE 13.3HP MT160-4VM (MT160HW4DVE)  
 COMPRESSEUR MANZVMER 10 COMPRESSEUR MANZVM4 (MT160HW4DVE) / 2  
 ' ) SER. KIT POUR MT-28 MANEUROP 7703009 (1-1 / 8 ' & 3/4 ' ) SER.

## Product details

<b>Gross weight</b>	41.5 kg
<b>Net weight</b>	39 kg
<b>EAN</b>	5702428661973

<b>Approval standard</b>	CCC CE UL
<b>Brand technique</b>	Reciprocating compressor
<b>Capacity control</b>	Fixed speed
<b>Colour</b>	Blue
<b>Compressor power supply [V/Ph/Hz]</b>	400/3/50 460/3/60
<b>Configuration code</b>	Single

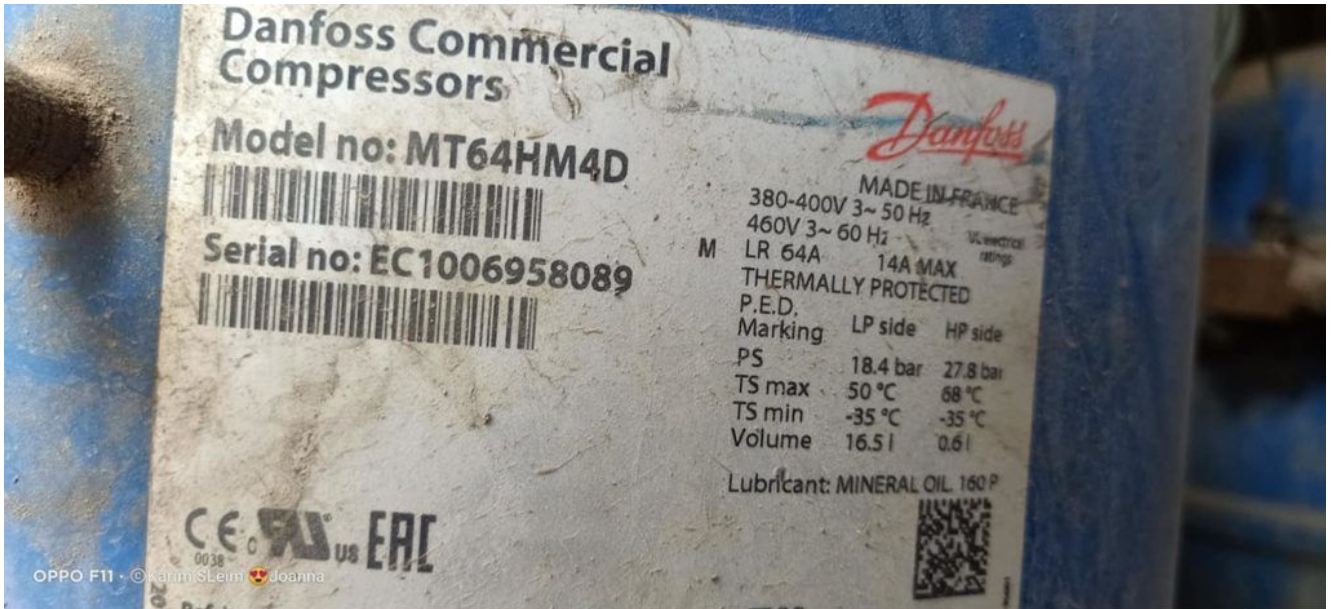
<b>Connection type</b>	Rotolock
<b>Cylinder</b>	2
<b>Description</b>	MT064-4
<b>Diameter [mm]</b>	288 mm
<b>Discharge connection height [mm]</b>	74 mm
<b>Discharge connection mounting torque [Nm]</b>	90 Nm
<b>Discharge connection pipe size [in]</b>	3/4 in
<b>Discharge connection rotolock size [in]</b>	1 1/4 in
<b>Discharge connection size [in]</b>	1 1/4 in
<b>Discharge connection sleeve pipe size [in]</b>	3/4 in
<b>Drawing number</b>	8502012g
<b>Economizer</b>	No
<b>Factory HP [bar]</b>	25 bar
<b>Factory LP [bar]</b>	25 bar
<b>Fitting remark</b>	(shipped with rotolock version only)
<b>Fitting sleeve</b>	ODF
<b>Fitting standard</b>	Rotolock
<b>Frequency [Hz]</b>	50/60
<b>Gauge port HP</b>	None
<b>Gauge port LP</b>	Schrader
<b>Generation code</b>	E
<b>Glass mounting</b>	Threaded
<b>Glass torque [Nm]</b>	50 Nm
<b>GP LP torque [Nm]</b>	15 Nm
<b>High side max pressure (Ps)</b>	27.8 bar
<b>High Side TS Max</b>	150 °C

<b>High Side TS Min</b>	-35 °C
<b>High Side Volume</b>	0.6 L
<b>High value of nominal voltage at 50Hz [V]</b>	400 V
<b>High value of nominal voltage at 60Hz [V]</b>	460 V
<b>High value of voltage range at 50Hz [V]</b>	460 V
<b>High value of voltage range at 60Hz [V]</b>	506 V
<b>IP protection class</b>	IP55 (with cable gland)
<b>Low side max pressure (Ps)</b>	18.4 bar
<b>Low Side TS Max</b>	50 °C
<b>Low Side TS Min</b>	-35 °C
<b>Low Side Volume</b>	16.5 L
<b>Low value of nominal voltage at 50Hz [V]</b>	380 V
<b>Low value of nominal voltage at 60Hz [V]</b>	460 V
<b>Low value of voltage range at 50Hz [V]</b>	340 V
<b>Low value of voltage range at 60Hz [V]</b>	414 V
<b>LRA</b>	64 A
<b>MCC</b>	14 A
<b>Model number</b>	MT64HM4DVE
<b>Motor protection</b>	Internal overload protector
<b>Mounting torque [Nm]</b>	15 Nm
<b>Nominal cooling capacity 60 kBTU/h</b>	64.51 kBtu/h
<b>Nominal cooling capacity at 50Hz</b>	14.4 kW
<b>Nominal cooling capacity at 60Hz</b>	18.9 kW

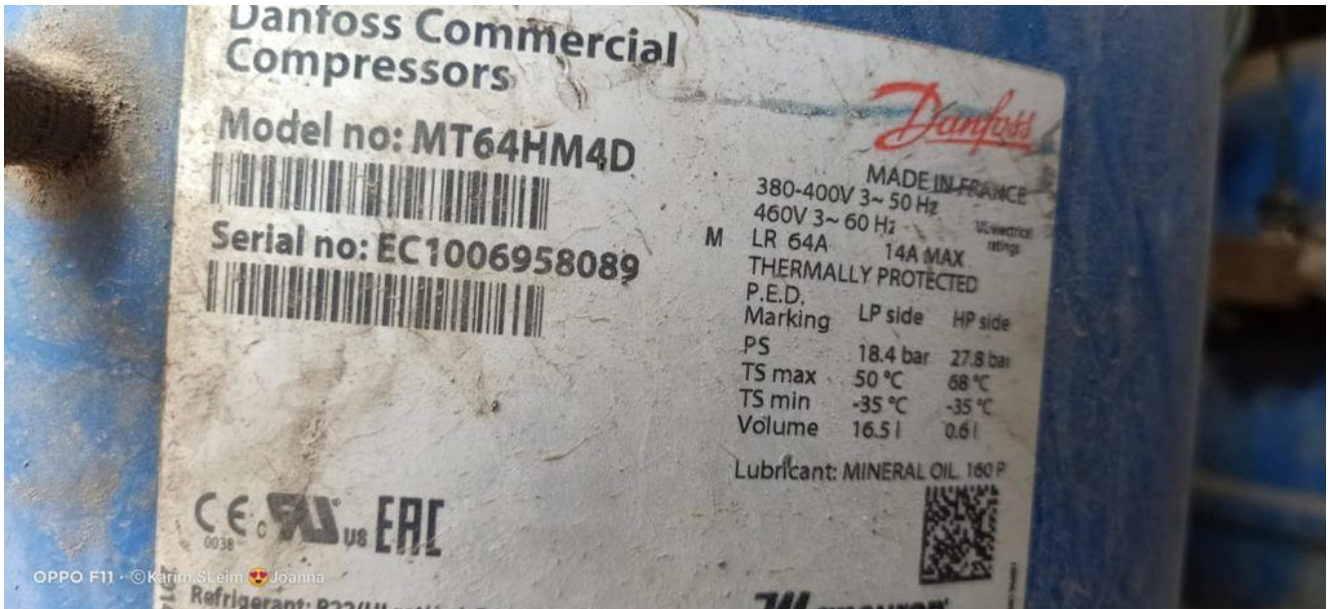
<b>Number of starts per hour [Max]</b>	12
<b>Oil charge [L]</b>	1.8 L
<b>Oil equalization</b>	3/8" flare SAE
<b>Oil equalization torque [Nm]</b>	30 Nm
<b>Oil reference</b>	160P
<b>Packaging height [mm]</b>	550 mm
<b>Packaging length [mm]</b>	1150 mm
<b>Packaging weight [Kg]</b>	254 kg
<b>Packaging width [mm]</b>	800 mm
<b>Packing format</b>	Industrial pack
<b>Packing quantity</b>	6
<b>Phase</b>	3
<b>Power connections</b>	Spade
<b>Refrigerant</b>	R22
<b>Refrigerant charge [kg] [Max]</b>	5 kg
<b>Relief valve</b>	30 bar/8 bar
<b>Rotational speed at 50Hz [rpm]</b>	2900 rpm
<b>Rotational speed at 60Hz [rpm]</b>	3500 rpm
<b>Segment usage</b>	Air conditioning Refrigeration MT
<b>Shipped fittings</b>	Suction and discharge solder sleeves, rotolock nuts and gaskets
<b>Shipped instructions</b>	Installation instructions
<b>Shipped mounting</b>	Mounting kit with grommets, bolts, nuts, sleeves and washers
<b>Shipped oil</b>	Initial oil charge
<b>Suction connection height [mm]</b>	265 mm

<b>Suction connection mounting torque [Nm]</b>	110 Nm
<b>Suction connection pipe size [in]</b>	7/8 in
<b>Suction connection rotolock size [in]</b>	1 3/4 in
<b>Suction connection size [in]</b>	1 3/4 in
<b>Suction connection sleeve pipe size [in]</b>	7/8 in
<b>Swept volume [cm<sup>3</sup>]</b>	107.71 cm <sup>3</sup>
<b>Technology</b>	Reciprocating
<b>Test dif [bar] [Max]</b>	30 bar
<b>Test HP [bar] [Max]</b>	30 bar
<b>Test LP [bar] [Max]</b>	25 bar
<b>Torque earth [Nm]</b>	3 Nm
<b>Torque power [Nm]</b>	3 Nm
<b>Total height [mm]</b>	413 mm
<b>Type</b>	MT
<b>Type designation</b>	Compressor
<b>Viscosity [cP]</b>	32 cP
<b>Winding resistance for three-phase compressors with identical windings [Ohm]</b>	2.44 Ohm





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