MAB23X-05 Datasheet

Brake 24V for NEMA23, I10/O10, M8 w/5m, 1.5Nm



MAB Electromagnetic Holding Brakes

- 24 VDC holding brake for step and servo motors, NEMA17 to NEMA43
- Holds the shaft at power off or in vertical linear applications
- Released when 24 VDC is applied
- Holding torque from 0.5 Nm to 10 Nm
- Fits JVL motors and other NEMA standard motors
- Mounted with a one-screw shaft collar; hub versions allow axial play
- M8 4-pin connector or wire out, high IP protection
- Wide range of input and output shaft diameters from stock
- For holding only, not as an emergency brake



General information

Description	NEMA23 First gen 1.5 Nm, IØ10/OØ10 mm M8 w/ 5 m
Manufacture	JVL
Brake Holding torque [Nm]	1.5
Introduction	The brake is used when it is desired to hold the motor shaft fixed at power off, or when the motor is used in a vertical linear application. When 24 VDC is connected, the brake will be deactivated and the motor can turn freely. The electronic brake i
Flange/Shaft	NEMA23 10.00mm
Flange Brake Front	NEMA23 10.00mm
Connector Brake	M8 4-pin Male
Shaft Type Output	
Brake current [A]	
Protection house	
Protection shaft	
Color	Black
Approval - ROHS-3	Yes
Country Of Origin	DK
Tariff no	84836080

General information

Tariff no US	

Mechanical information

Brake Holding torque [Nm]	1.5
Brake current [A]	
Flange/Shaft	NEMA23 10.00mm
Flange Brake Front	NEMA23 10.00mm
Shaft input lenght max [mm]	
Shaft length Front [mm]	
Brake input shaft diameter [mm]	10.00
Brake output shaft diameter [mm]	10.00
Shaft Key included	
Shaft Key Dimension	
Brake Velocity [rpm]	3000
Brake Velocity Max [rpm]	10000
Radial load Max [N]	140
Axial load [N]	50
Radial load distance [mm]	
Axial play force [N]	
Axial play [mm]	
Front bearing type	
Rear bearing type	
Brake length [mm]	57
Max Brake Cycles	
Noise <[db]	
Color	Black
Weight net [kg]	0.43
Weight gross [kg]	0.457
CAD 2D [PDF]	Download
CAD 3D [STEP]	Download
CAD 2D [DWG]	
CAD 3D [DWG]	
CAD 3D [IGES]	

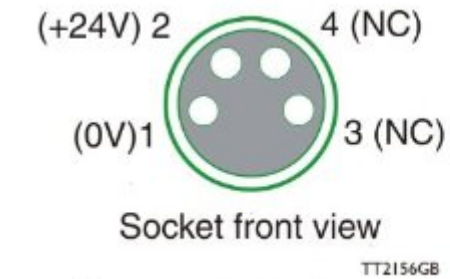
Mechanical information

CAD 3D [EASM]	
Datasheet - pdf	
Tariff no	84836080
Country Of Origin	DK
Dimension pdf	
Brake Collar bolt	
Brake Collar max torque [Nm]	
Brake Collar tool (Hex)	
Transfer Torque max	
Temperature ambient [°C]	
Temperature max [°C]	

Connector information

Connector Brake	M8 4-pin Male

Picture connections



Pin 1 blue = 0 VDC, Pin 2 brown = +24 VDC, Pin 3 white = NC, Pin 4 black = NC.

Brake Cable included

Torque, force and Power information

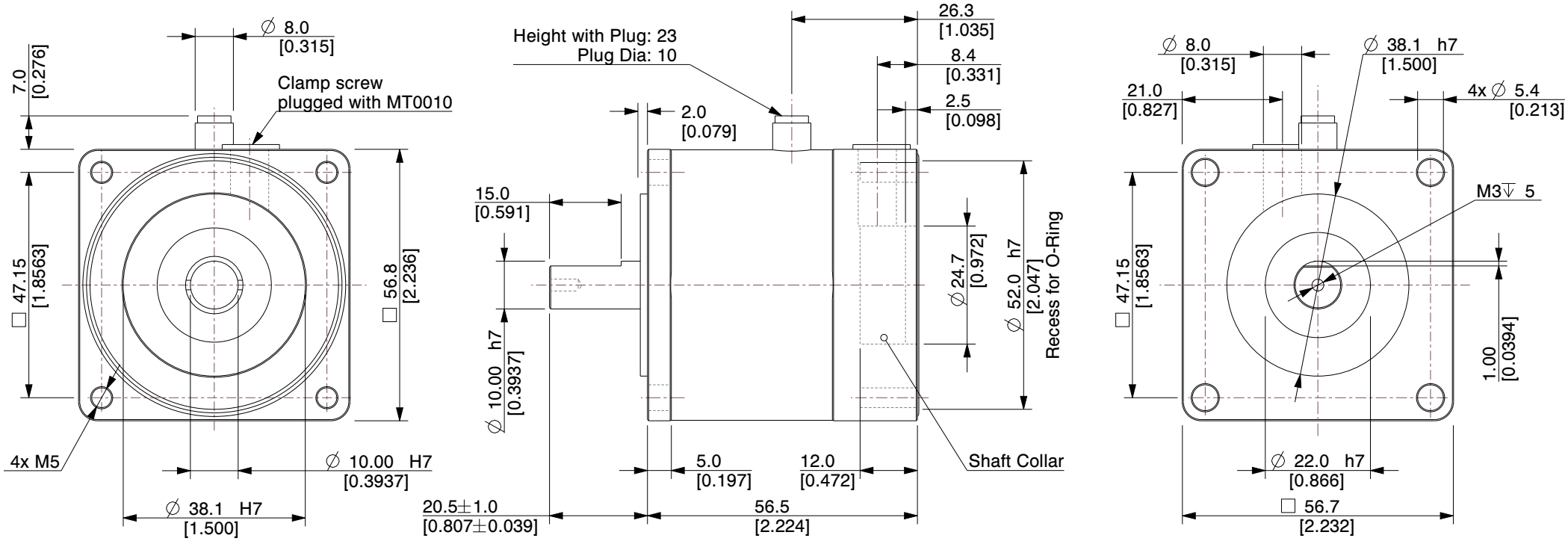
Brake Holding torque [Nm]	1.5
Brake Nom. Torque Tolerance	+/-20%

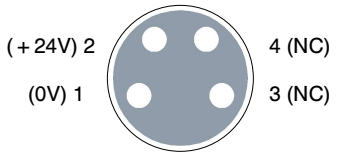
Electrical information

Brake current [A]	
Pull-in Voltage	
Main supply [V]	DC 24
Drop-out Voltage	

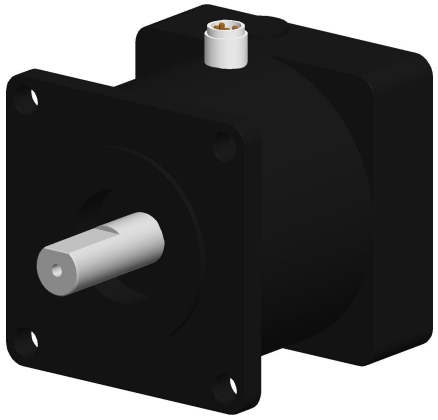
Downloads and links

CAD 2D [PDF]	Download
CAD 3D [STEP]	Download
WEB page	Link
REACH SVHC document	REACH-SVHC Statement





SOCKET FRONT VIEW



NOTES:
1. Shaft Collar Screw Torque (M3): 2 Nm.
2. Max transfer torque: 2.8 Nm
3. Brake torque: 1.5 Nm
4. Cable WI1000-M8F4A05N (5m) is delivered with the brake.

ELECTRONIC BRAKE SPECIFICATIONS			
Rated Speed	3000 RPM	Voltage	24VDC ± 10%
Max. Speed	10,000 RPM	Current	450 mA
Connector	M8. Pin2+, Pin1-, Pin3 and 4 NC. Male 4-pin.	Holding Torque	1.5 Nm
Approval	VDE0580 and CE	Weight (ex. cable)	0.430 Kg
Surface	Black Anodized Aluminium	Protection	IP55/IP66

JVL A/S
Bregnerødvej 127
DK-3460 Birkerød
Denmark
JVL
www.jvl.dk

PART NUMBER:
MAB23X-05

PART DESCRIPTION:
BRAKE 24V for NEMA23
ID10/OD10 1.5Nm

A4 | SCALE NTS | UNIT MM [Inch]

Unless specifically stated otherwise, this drawing is the property of JVL A/S and no feature embodied herein may be disclosed except as previously authorized