

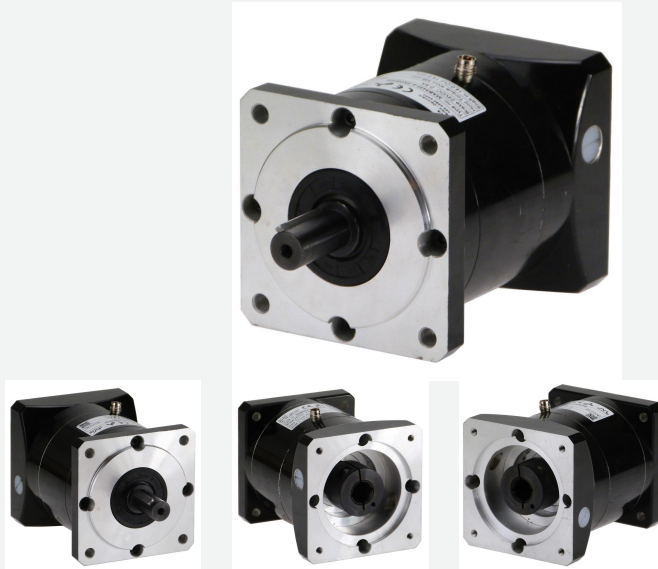


## MAB34M-4.0N05F05

Brake 24V for NEMA34, I14/O14mm, M8-con, 4.0Nm

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 is designed to be mounted on step- and servo motors from NEMA17 42x42mm to NEMA43 110x110mm. Brake can be mounted directly on JVL stepper motor and integrated stepper motor but also other brand that use NEMA standard. Shaft collars ring with 1 screw is used to tighten brake on motor shaft.

A high quality 24VDC electro-magnetic spring or magnetic brake is mounted inside the housing. Some brakes use hub connection to brake disc so it can be mounted on motors with axial play. Holding torque from 0.5Nm to 10Nm. A wide range of input and out diameter can be delivered from stock. Brakes are typically equipped with M8 4 pin male connector for 24V control voltage and high IP protection but can also be delivered with wire out. It is only recommended to use the brake only as a holding brake and not as an emergency brake.



### General information

<b>Description</b>	Brake 24V for NEMA34, I14/O14mm, M8-con, 4.0Nm,		
<b>Manufacture</b>	JVL	<b>Brake Holding torque [Nm]</b>	4
<b>Flange/Shaft</b>	NEMA34 14.00mm	<b>Flange Brake Front</b>	NEMA34 14.00mm
<b>Connector Brake</b>	M8 4-pin Male	<b>Shaft Type Output</b>	Round
<b>Brake current [A]</b>	0.175		
<b>Protection house</b>	IP42	<b>Protection shaft</b>	IP42
<b>Color</b>	Black	<b>Approval - ROHS-3</b>	Yes

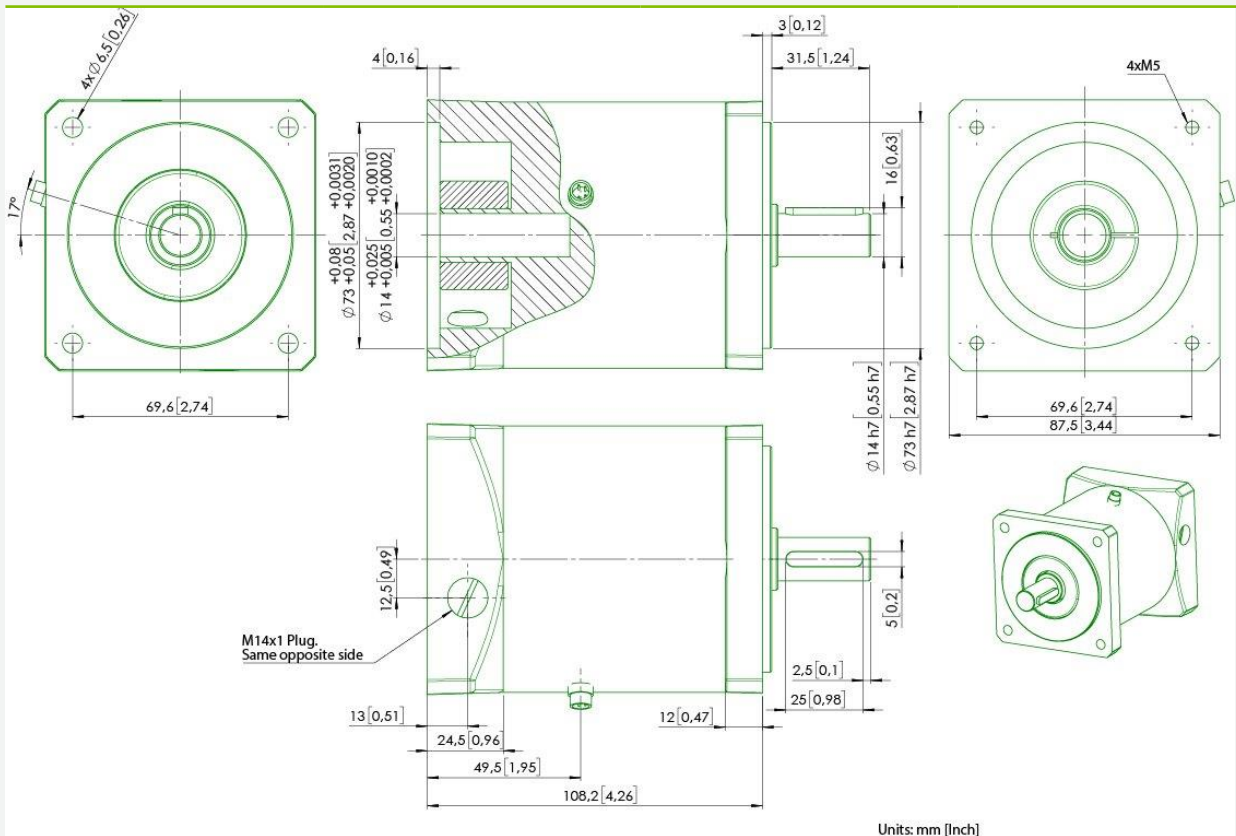


## MAB34M-4.0N05F05

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### Mechanical information

<b>Brake Holding torque [Nm]</b>	4	<b>Brake current [A]</b>	0.175
<b>Flange/Shaft</b>	NEMA34 14.00mm	<b>Flange Brake Front</b>	NEMA34 14.00mm
<b>Shaft input lenght max [mm]</b>		<b>Shaft length Front [mm]</b>	
<b>Brake input shaft diameter [mm]</b>	14.00	<b>Brake output shaft diameter [mm]</b>	14.00
<b>Shaft Key included</b>	Key NOT included	<b>Shaft Key Dimension</b>	
<b>Brake Velocity [rpm]</b>		<b>Brake Velocity Max [rpm]</b>	
<b>Radial load [N]</b>		<b>Axial load [N]</b>	
<b>Radial load distance [mm]</b>		<b>Axial play force [N]</b>	
<b>Axial play [mm]</b>			
<b>Front bearing type</b>		<b>Rear bearing type</b>	
<b>Brake length [mm]</b>	108.5	<b>Max Brake Cycles</b>	80000
<b>Noise &lt;[db]</b>		<b>Color</b>	Black
<b>Weight gross [kg]</b>	1.66		
<b>CAD 2D [PDF]</b>	Download	<b>CAD 3D [STEP]</b>	Download
<b>CAD 2D [DWG]</b>		<b>CAD 3D [DWG]</b>	
<b>CAD 3D [IGES]</b>		<b>CAD 3D [EASM]</b>	
<b>Datasheet - pdf</b>	No	<b>Tariff no</b>	84836080



<b>Brake Collar bolt</b>	M4	<b>Brake Collar max torque [Nm]</b>	3.4
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## **MAB34M-4.0N05F05**

Brake 24V for NEMA34, I14/O14mm, M8-con, 4.0Nm

### **Mechanical information**

**Brake Collar tool ( Hex )** 3.0

**Transfer Torque max**

**Temperature ambient**  
[°C]

**Temperature max [°C]**



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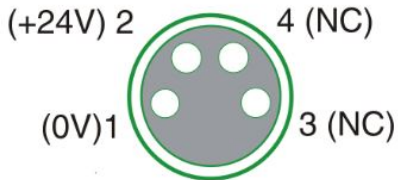
## MAB34M-4.0N05F05

Brake 24V for NEMA34, I14/O14mm, M8-con, 4.0Nm

### Connector information

**Connector Brake** M8 4-pin Male

#### Picture connections



Socket front view

TT2156GB

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

**Brake Cable included** No



## MAB34M-4.0N05F05

Brake 24V for NEMA34, I14/O14mm, M8-con, 4.0Nm

### Torque, force and Power information

Brake Holding torque      4  
[Nm]



## MAB34M-4.0N05F05

Brake 24V for NEMA34, I14/O14mm, M8-con, 4.0Nm

### Electrical information

**Brake current** 0.175  
[A]

**Pull-in Voltage**

**Main supply** DC 24  
[V]

**Drop-out Voltage**



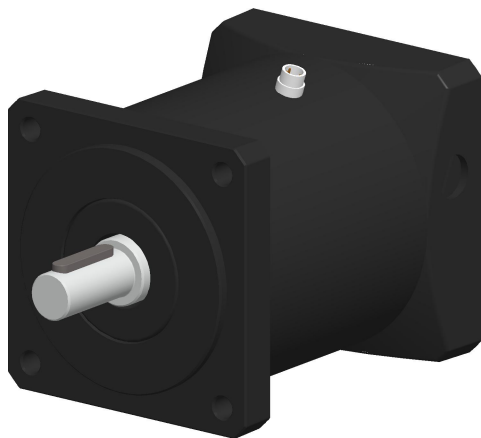
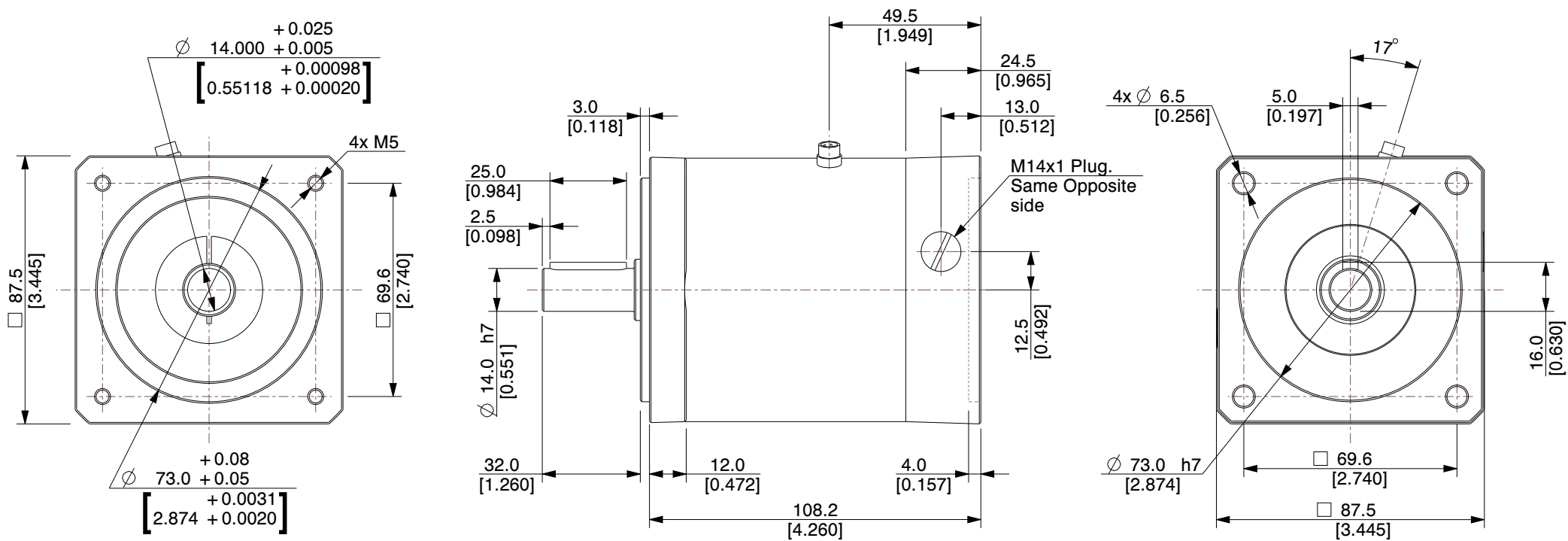
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## MAB34M-4.0N05F05

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### Cable information

Item number	Mount on	Cable con 1 +Con 1 angle	Cable application	Wires no totally	Cable length [m]
Item description		Cable con 2 +Con 2 angle	Cable flexibilty	Wire [mm2]	Connector 1 LED




**NOTES:**

1. Shaft Collar Screw Torque (M4): 4 Nm.

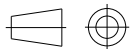
ELECTRONIC BRAKE SPECIFICATIONS			
Rated Speed	-	Voltage	24VDC
Max. Speed	-	Current	0.5 A
Connector	M8. Pin2+, Pin1-, Pin3 and 4 NC. Male 4-pin.	Holding Torque	4.0 ± 10% Nm
Approval	-	Weight (ex. cable)	2.02 Kg
Surface	-	Protection	IP42

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**PART NUMBER:**  
**MAB34M-4.0N05F05**

**PART DESCRIPTION:**  
**BRAKE 24V for NEMA34**  
**ID14/OD14 4.0 ± 10% Nm**

	<b>A4</b>	SCALE	NTS
		UNIT	MM [Inch]

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