



BSM046-100-24

Description

The BMS series motors are brushless synchronous motors with permanent magnets. With compact design, lightweight, low inertia, high torque to weight ratio they are a very good solution for different type of applications.

Features

- 4 poles rotor with NeFeB magnets
- 3 phase winding
- housing made in aluminium

Advantages

- Compact construction
- Low torque ripple
- Zero cogging torque
- Low inertia
- High torque density
- Low weight

Applications

- Servo-systems
- Robots
- Factory automation

	Units	Value
Voltage	VDC	24
Stall torque ¹⁾	Nm	0.3
Nominal torque ²⁾	Nm	0.27
Nominal speed	rpm	4000
Nominal output power	W	113
Efficiency	%	>80
Torque constant	Nm/A	0.06
Back EMF constant	V/krpm	5.2
Resistance	Ohm	0.57
Inductance	mH	0.35
Inertia	kgcm ²	0.1
Poles		4
Cogging torque	Nm	0
Weight	kg	0.63
Phase connection		delta
Insulation class		F
Ambient temperature	°C	-57°C to +40°C
Protection grade		IP 50
Sensors		No

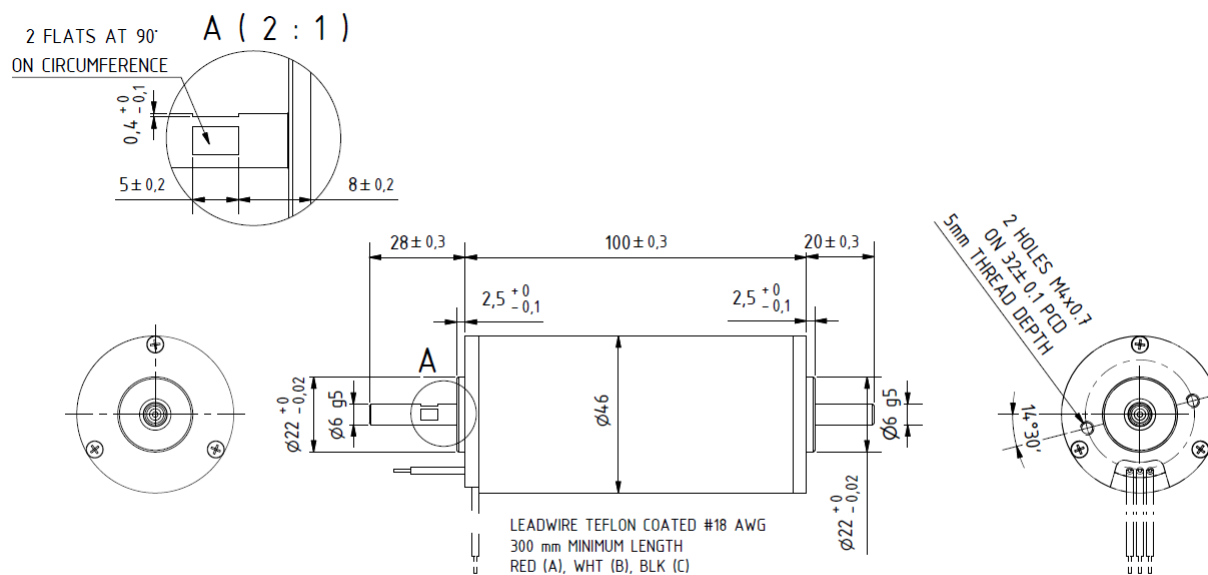
1) δ W winding temperature 20°C

2) continuous torque (S1), δ W winding temperature 130°C

Societatea pe acțiuni Icpe

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 Patria Bank - Sucursala Tineretului



Note:
*The bearings shall be filled about 1/3 of volume
with MOLYKOTE 33.

Dimensions in mm