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MOTOR TECHNICAL SPECIFICATION

M-06-STP

Red. : Bianchi Mario

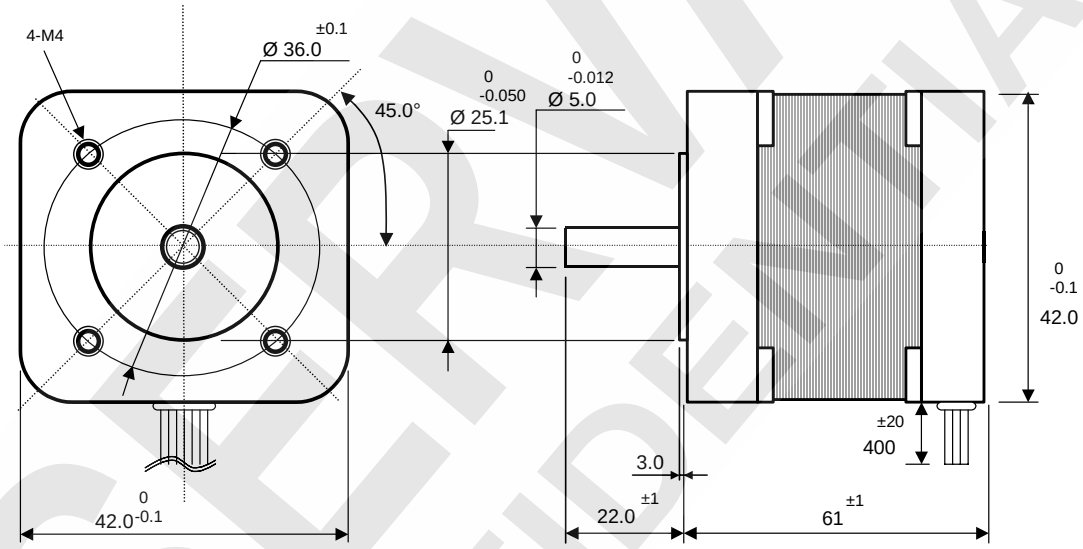
Doc: **MT17FB24106M3 - 00**

Date : 17/06/2015

Motor Size	**1.7" – 42 mm square flange**	# of poles	**# 8**
Front Shaft	**22.0 mm length – Ø 5.0 mm**	# of phases	**# 3**
Body length	**61 mm**	Winding type	**Delta**
# of Lead Wire	**#3 Wires + #5 for hall sensor**	Rear Shaft	**None**
Rated Torque	**0.125 Nm**	Lead Wire Length	**400 mm**
Rated speed	**4000 rpm**	Rated power	**52.5 W**
Line to line resistance	**0.80 ohm**	Line to line inductance	**1.20 mH**
Back E.M.F. constant	**2.71 Vrms/krpm**	Torque constant	**0.036 Nm/A**
Peak torque	**0.38 Nm**	Peak current	**10.6 Amps**
Rated voltage	**24 Vdc**	Rotor inertia	**48 g.cm²**
Continuous stall torque	**0.150 Nm**	Hall effect angle	**120 electrical degrees**
Insulation class	**B**	Number of Hall sensors	**# 3**

Mechanical drawings

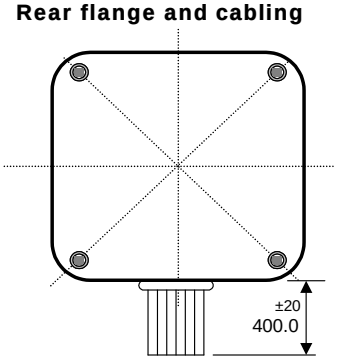
(Dimensions in mm)



Connection lead wires color diagram

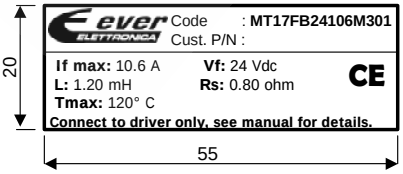
Lead # and pin-out	Lead Gauge	Lead Color	Lead Function	Description
1	UL1430 26AWG	Red	Vcc	Supply voltage for Hall sensor
2		Blue	Hall A	
3		Green	Hall B	
4		White	Hall C	
5		Black	GND	Ground for Hall sensor
6	UL1430 20AWG	YELLOW	Phase U	
7		RED	Phase V	
8		BLACK	Phase W	

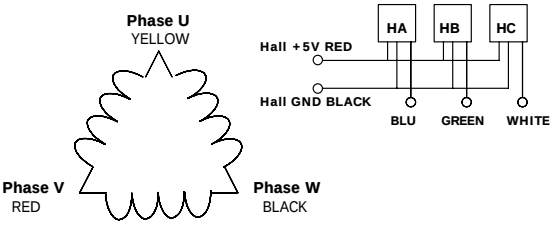
Rear flange and cabling



Motor Labelling

Label type: alluminum adhesive label





	MOTOR SPECIFICATION: STM00820	**DATE:** June, 17th 2015	**CUSTOMER APPROVAL:**
	EVER P/N: MT17FB24106M3		CUSTOMER CODE: