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MOTOR TECHNICAL SPECIFICATION

M-06-STP

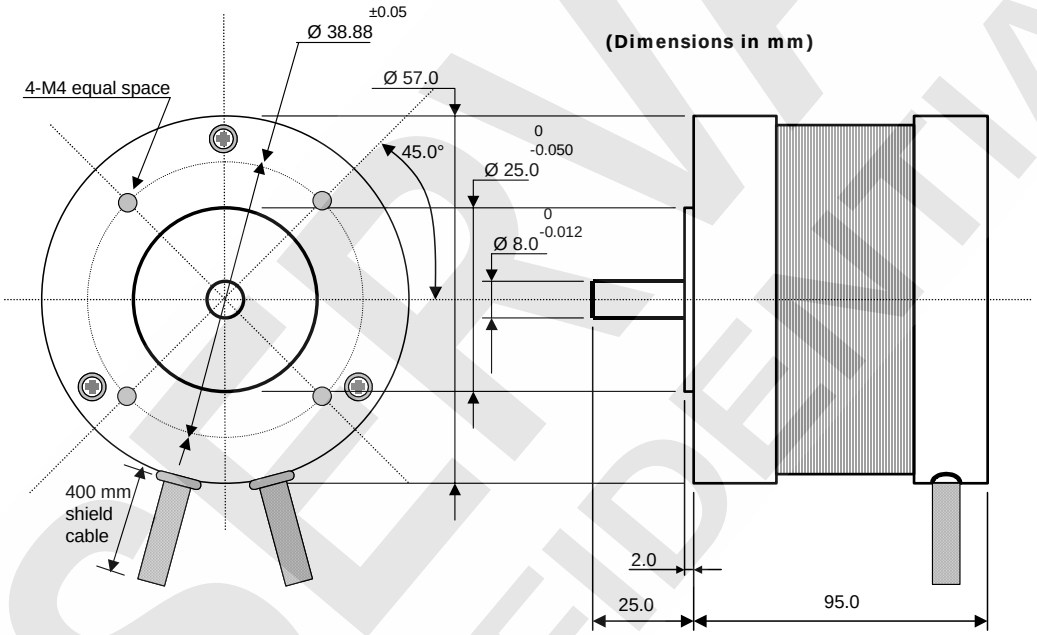
Red. : Bianchi Mario

Doc: **MT23FB38165M3 - 00**

Data : 09/03/2009

Motor Size	**2.3" - Ø 57 mm round flange**	Hall effect angle	**120° electrical angle**
Front shaft	**25.0 mm length Ø 8.00 mm**	Rear shaft	**None**
# of lead wires	**# 3 wires + # 5 hall sensor**	Winding type	**Delta**
Rated voltage	**36 Vdc**	# of poles	**# 4**
# of phases	**# 3**	Lead wires length	**400 mm**
Peak torque	**1.00 Nm**	Rated torque	**0.32 Nm**
Rotor power	**133 Watt**	Rated speed	**4000 rpm**
Peak current	**16.5 Amps**	Torque constant	**0.063 Nm/A**
Line to line resistance	**0.45 ohms**	Line to line inductance	**1.40 mH**
Back E.M.F.	**6.60 V/Krpm**	Rotor inertia	**173 g.cm²**
Insulation resistance	**100 Mohms, 500 Vdc**	Dielectric strength	**500 Vdc for one minute**
Insulation calss	**B**	Weight	**1.00 Kg**

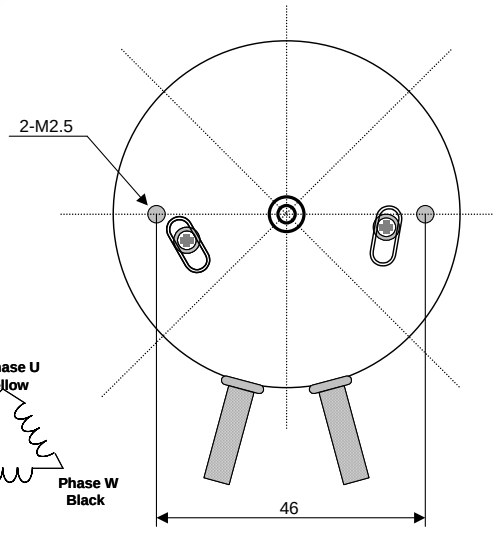
Mechanical drawings



Connection lead wires color diagram

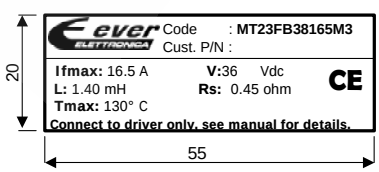
Lead #	Lead Gauge	Lead Color	Lead Function	Description
1	UL1007 26AWG	Yellow	Vcc	Supply voltage for Hall sensor
2		Blue	Hall A	
3		Orange	Hall B	
4		Brown	Hall C	
5		White	GND	Ground for Hall sensor
6	UL1007 20AWG	YELLOW	Phase U	
7		RED	Phase V	
8		BLACK	Phase W	

Rear flange



Motor Labelling

Label type: alluminum adhesive label



MOTOR SPECIFICATION: STM00640	**DATE:** March,9th 2009	**CUSTOMER APPROVAL:**	
EVER P/N: MT23FB38165M3		CUSTOMER CODE:	