

**BATTERY-LESS
ABSOLUTE ENCODER**

Technical drawing of the motor connector assembly showing dimensions and components:

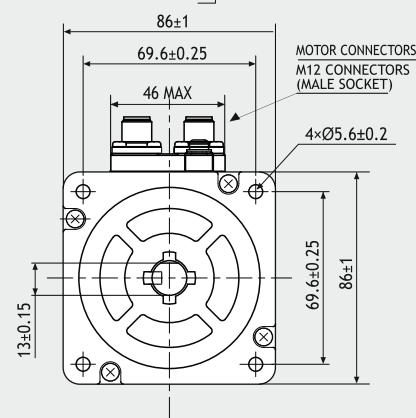
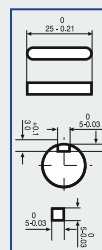
- Overall width: 172 ± 1.5
- Distance from left edge to motor connector: 28
- Motor connector: MOTOR CONNECTOR M12 CONNECTOR (MALE SOCKET)
- Screw for earth terminal: SCREW FOR EARTH TERMINAL M4x0.7
- Distance from motor connector to earth terminal: 8 ± 0.5
- Distance from earth terminal to right edge: 1.5 ± 0.25
- Distance from left edge to right edge: 23 MAX
- Distance from right edge to center of motor connector: 0 ± 0.018
- Distance from right edge to center of earth terminal: $\varnothing 73.025 \pm 0.025$
- Distance from right edge to center of motor connector: 27.5 ± 0.5 (EFFECTIVE LENGTH)

**Metal connector cables
for Motor & Encoder**

 R.T.A. motor cable: CVMSRMPMxxM
 R.T.A. encoder cable: CVESRMPMxxM
 R.T.A. 90° motor cable: CVMSRMP90PMxxM
 R.T.A. 90° encoder cable: CVESRMP90PMxxM

xx=01,03 or 05 cable lenght (m)

Ring nut tightening torque 0.6 Nm



ENCODER MOTOR	RM 3T3M-00HT
RESOLUTION	DRIVE RELATED
MULTI-TURN RESOLUTION	2 ¹⁶
CURRENT CONSUMPTION (mA)	60
HIGH LEVEL OUTPUT (Volt)	5 (TIP) - 4.75 (MIN)
LOW LEVEL OUTPUT (Volt)	0.25 (TIP) - 0.6 (MAX)
OUTPUT SIGNAL	BiSS-C/SSI
POWER SUPPLY VOLTAGE (Volt)	5 V _{PC} ± 10%

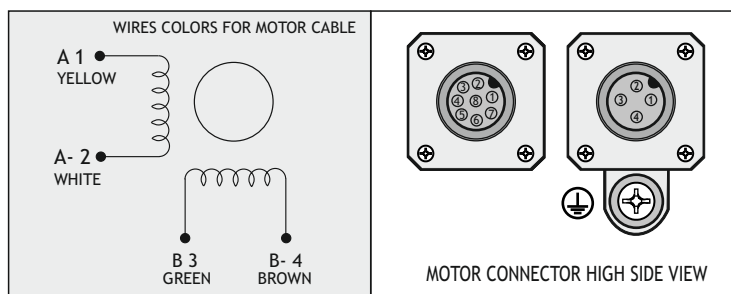
DESCRIPTION	X-PLUS AS4 C4 CON. PINS	M12 MOTOR PINS	RTA CABLE LEADS COLOR
CLOCK +	47	1	BLUE
CLOCK -	46	2	BROWN
DATA +	45	3	GREEN
DATA -	44	4	PURPLE
GND	48	5	BLACK
RESET	42	6	WHITE
NC	43	7	ORANGE
+ 5 VDC	41	8	RED

MODEL	RM 3T3M
BASIC STEP ANGLE	1.8 ± 0.09°
BIPOLAR CURRENT (A)	4
RESISTANCE (Ohm)	1
INDUCTANCE (mH)	7.9
BIPOLAR HOLDING TORQUE (Ncm)	920
ROTOR INERTIA (Kgm ² x 10 ⁻⁷)	4500
THEORETICAL ACCELERATION (rad x sec. ⁻²)	20500
BACK E.M.F. (V/Krpm)	241
MASS (Kg)	4.2
INTERNATIONAL STANDARDS	UL, CSA, CE, RoHS
INSULATION VOLTAGE (V)	250 V _{AC} (350 V _{DC})
PROTECTION DEGREE - INSULATION CLASS	IP 54 - CLASS F
LEADS CODE	V

DRIVE SETTING
400 steps/rev
I_{peak}=4 A

Motor Speed (Krpm)	230 Volt (V _{AC}) Torque (Nm)	115 Volt (V _{AC}) Torque (Nm)
0.15	7.2	6.8
0.3	7.0	6.5
0.6	6.5	5.8
0.9	6.0	4.8
1.2	5.5	3.5
1.5	5.0	2.5
1.8	4.5	1.8
2.1	4.0	1.2
2.4	3.5	-
2.7	3.0	-
3.0	2.5	-

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Only for R.T.A. 230 Vac X-PLUS AS4 drive



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