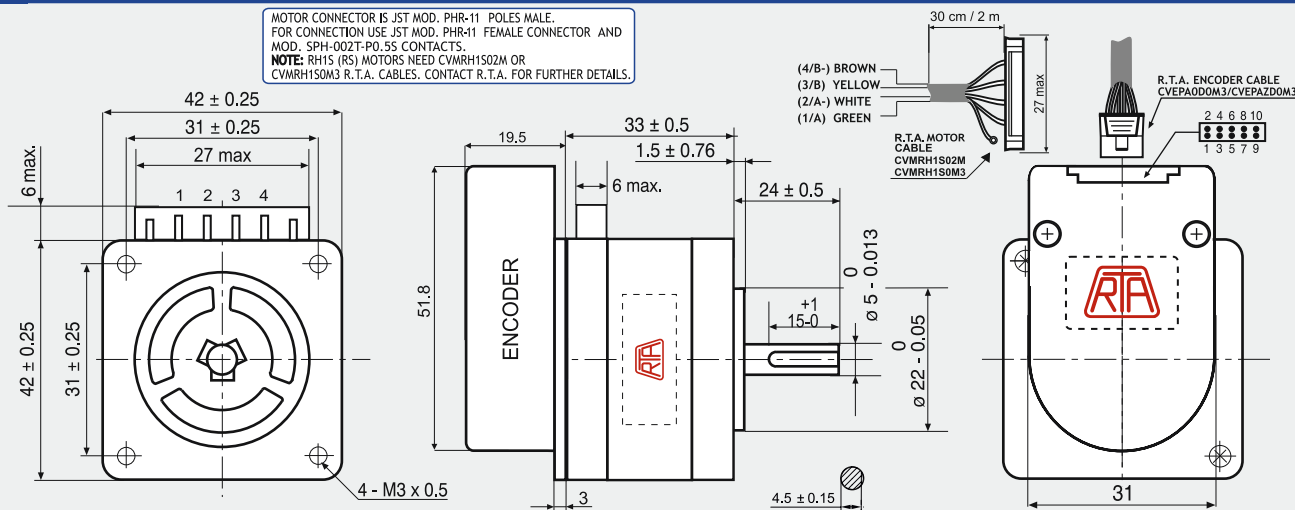


# RH 1S0M-OXX0

## Dimensions (Unit:mm)

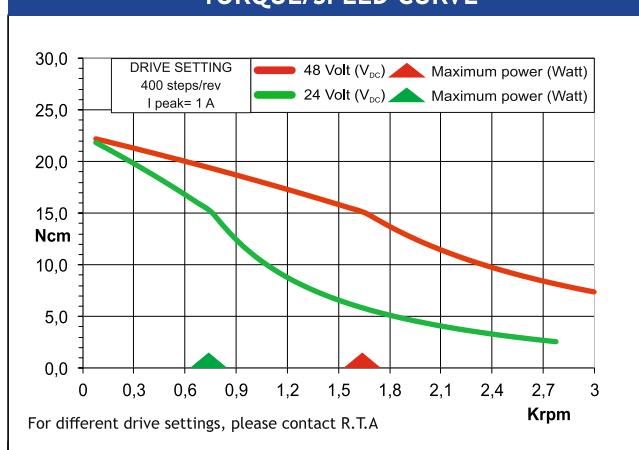


ENCODER OPTIONS:	RH 1S0M-04D0	RH 1S0M-04E0	RH 1S0M-0HE0
RESOLUTION	400 cpr	400 cpr	4000 cpr
INDEX	No	Yes	Yes
CURRENT CONSUMPTION (mA)	50	50	85
HIGH LEVEL OUTPUT (Volt)	5 (TIP) - 4.75 (MIN) ( $I_{max}=25mA$ )	3.4 (TIP) - 2.4 (MIN) ( $I_{max}=20mA$ )	3.4 (TIP) - 2.4 (MIN) ( $I_{max}=20mA$ )
LOW LEVEL OUTPUT (Volt)	0.25 (TIP) - 0.6 (MAX) ( $I_{max}=25mA$ )	0.2 (TIP) - 0.4 (MAX) ( $I_{max}=20mA$ )	0.2 (TIP) - 0.4 (MAX) ( $I_{max}=20mA$ )
OUTPUT SIGNAL	Differential	Differential	Differential
MAXIMUM FREQUENCY (KHz)	100	100	720
POWER SUPPLY VOLTAGE (Volt)	$5 V_{DC} \pm 10\%$	$5 V_{DC} \pm 10\%$	$5 V_{DC} \pm 10\%$

## FEATURES

MODEL	RH 1S0M
BASIC STEP ANGLE	1.8°
BIPOLAR CURRENT (A)	1.0
UNIPOLAR CURRENT (A)	
RESISTANCE (Ohm)	3.6
INDUCTANCE (mH)	7
BIPOLAR HOLDING TORQUE (Ncm)	29
UNIPOLAR HOLDING TORQUE (Ncm)	
ROTOR INERTIA ( $Kgm^2 \times 10^{-7}$ )	31
THEORETICAL ACCELERATION ( $rad \times sec^{-2}$ )	93500
BACK E.M.F. (V/Krpm)	29
MASS (Kg)	0.23
PROTECTION DEGREE	IP40
LEADS CODE	V

## TORQUE/SPEED CURVE



## RTA MOTOR CABLE COLORS

DESCRIPTION	COLOR
CHANNEL A	GREEN
CHANNEL A-	WHITE
CHANNEL B	YELLOW
CHANNEL B-	BROWN

## ENCODER PIN-OUT

DESCRIPTION	04D0 PINS	04E0/0HE0 PINS	R.T.A. CABLE LEADS COLOR
CHANNEL A+	6	6	GREEN
CHANNEL A-	5	5	PURPLE
CHANNEL B+	8	8	BLUE
CHANNEL B-	7	7	BROWN
+ DC (5V)	2	2	RED
GROUND	3	3	BLACK
INDEX+	/	10	ORANGE
INDEX-	/	9	WHITE

R.T.A. CABLE (30 cm) CVEPA0D0M3 CVEPAZD0M3

Suggested R.T.A. drive series: BSD, CSD, FLEX-DRIVE



R.T.A. s.r.l.  
Via E. Mattei - Fraz- Divisa  
27020 Marcignago (PV) (Italy)  
T +39.0382.929.855  
F +39.0382.929.150  
www.rta.it

R.T.A. Deutschland GmbH  
Bublitzter Strasse 34, 40599  
Duesseldorf (Germany)  
T +49.211.749.668.60  
F +49.211.749.668.66  
www.rta-deutschland.de

R.T.A. IBERICA  
C/Generalitat 22, Local 1  
08850 Gava - Barcelona (Spain)  
T +34 936.388.805  
F +34 936.334.595  
www.rta-iberica.es

R.T.A. INDIA Pvt  
Teerth Business Center 3<sup>rd</sup> Floor, Unit No. 7,  
Block EL-15, MIDC Bhosari Pimpri-Chinchwd,  
Pune 411026 (India)  
Tel. +91 9422507445  
www.rta-india.in