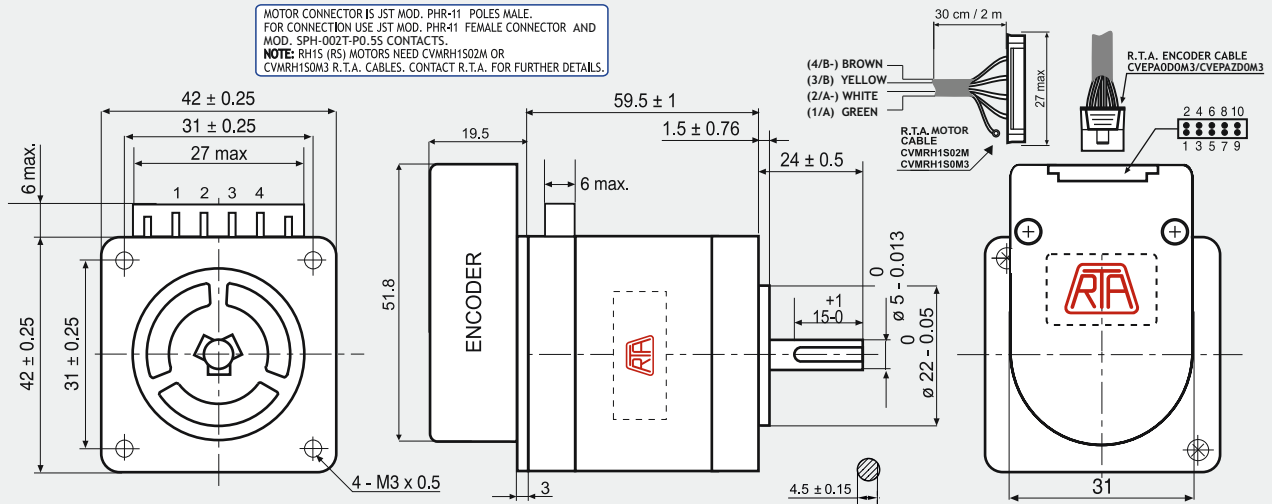


# RH 1S3M-OXX0

## Dimensions (Unit:mm)

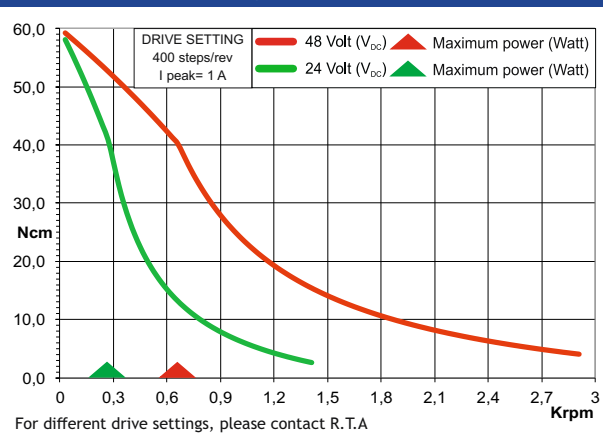


ENCODER OPTIONS:	RH 1S3M-04D0	RH 1S3M-04E0	RH 1S3M-0HE0
RESOLUTION	400 cpr	400 cpr	4000 cpr
INDEX	No	Yes	Yes
CURRENT CONSUMPTION (mA)	50	50	85
HIGH LEVEL OUTPUT (Volt)	5 (TIP) - 4.75 (MIN) (I <sub>max</sub> =25mA)	3.4 (TIP) - 2.4 (MIN) (I <sub>max</sub> =20mA)	3.4 (TIP) - 2.4 (MIN) (I <sub>max</sub> =20mA)
LOW LEVEL OUTPUT (Volt)	0.25 (TIP) - 0.6 (MAX) (I <sub>max</sub> =25mA)	0.2 (TIP) - 0.4 (MAX) (I <sub>max</sub> =20mA)	0.2 (TIP) - 0.4 (MAX) (I <sub>max</sub> =20mA)
OUTPUT SIGNAL	Differential	Differential	Differential
MAXIMUM FREQUENCY (KHz)	100	100	720
POWER SUPPLY VOLTAGE (Volt)	5 V <sub>DC</sub> ± 10%	5 V <sub>DC</sub> ± 10%	5 V <sub>DC</sub> ± 10%

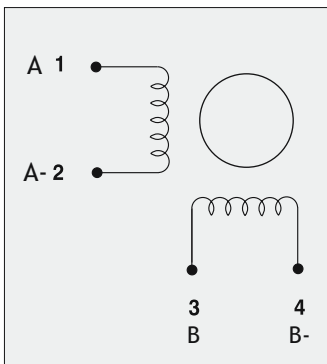
## FEATURES

MODEL	RH 1S3M
BASIC STEP ANGLE	1.8°
BIPOLAR CURRENT (A)	1.0
UNIPOLAR CURRENT (A)	
RESISTANCE (Ohm)	6.5
INDUCTANCE (mH)	16
BIPOLAR HOLDING TORQUE (Ncm)	80
UNIPOLAR HOLDING TORQUE (Ncm)	
ROTOR INERTIA (Kg·m <sup>2</sup> × 10 <sup>-7</sup> )	94
THEORETICAL ACCELERATION (rad × sec. <sup>-2</sup> )	85100
BACK E.M.F. (V/Krpm)	80
MASS (Kg)	0.51
PROTECTION DEGREE	IP40
LEADS CODE	V

## TORQUE/SPEED CURVE



R.T.A.s.r.l. PA VIA (ITALY) SANYO DENKI CO., Ltd (JAPAN)



## 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



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