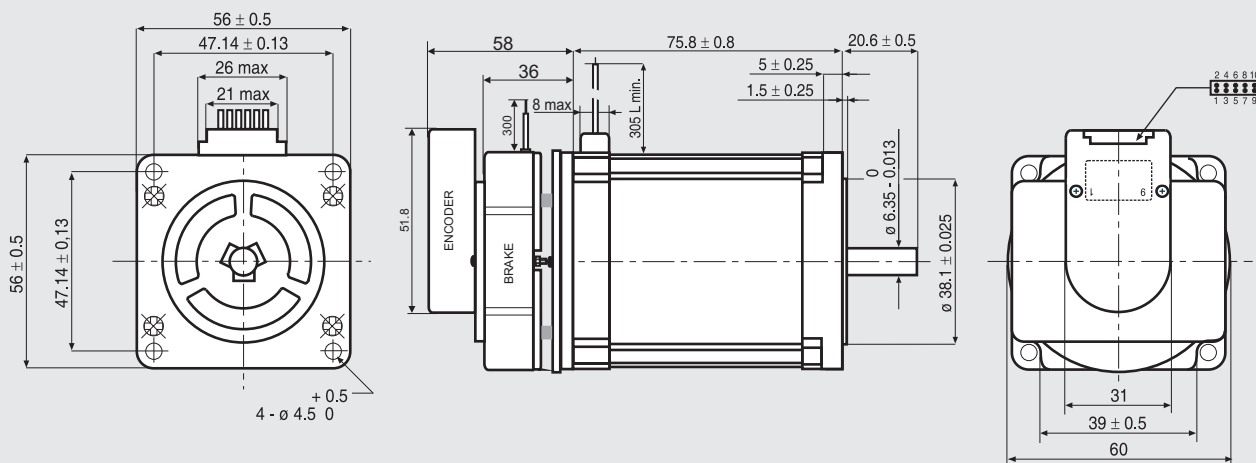


# EM 2H2M-04E0.B

## Dimensions (Unit:mm)



## SANYO DENKI MOTOR FEATURES

MODEL	EM 2H2M-04E0.B
SANYO DENKI MOTOR CODE	103-H7126-1710
BASIC STEP ANGLE	1.8° ± 0.09°
BIPOLAR PARALLEL CURRENT (Amp)	4.0
RESISTANCE (Ohm)	0.48
INDUCTANCE (mH)	2.2
BIPOLAR HOLDING TORQUE (Ncm)	165
ROTOR INERTIA (Kgm <sup>2</sup> × 10 <sup>-7</sup> )	360
THEORETICAL ACCELERATION (rad × sec. <sup>-2</sup> )	45800
BACK E.M.F. (V/Krpm)	31
MASS (Kg)	1.6
LEADS CODE	V

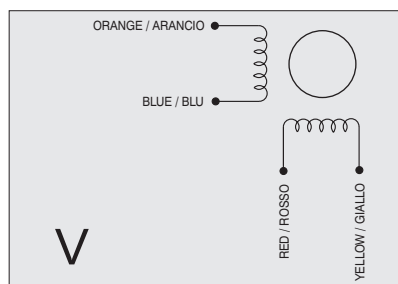
R.T.A. s.r.l. PAVIA (ITALY) SANYO DENKI CO., Ltd (JAPAN)

## ENCODER FEATURES

POWER SUPPLY VOLTAGE (Volt)	5 V <sub>DC</sub> ± 5%
CURRENT CONSUMPTION (mAmp)	50
HIGH LEVEL OUTPUT (Volt)	3.5 (TIP) - 2.4 (MIN) (I <sub>MAX</sub> =10 mA)
LOW LEVEL OUTPUT (Volt)	0.2 (TIP) - 0.4 (MAX) (I <sub>MAX</sub> =10 mA)
OUTPUT SIGNAL	Differential
RESOLUTION	400 cycles per revolution
MAXIMUM FREQUENCY (KHz)	100

## BRAKE FEATURES

STATIC TORQUE (Nm)	4.0
DUTY CYCLE	50% max.
VOLTAGE (Volt)	24 VDC
POWER (W)	11
RELEASE TIME (ms)	300



## ENCODER PIN-OUTS

PIN	DESCRIPTION
1	NO CONNECTION
2	+ DC (5 V)
3	GROUND
4	NO CONNECTION
5	CHANNEL A-

PIN	DESCRIPTION
6	CHANNEL A+
7	CHANNEL B-
8	CHANNEL B+
9	INDEX -
10	INDEX +

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Use for safety related functions is forbidden (EN 60204-1). Moreover, when the application arrangement is in such way that a motor fault or failure could generate a risk for property or human life, external independent safety protection system must be provided in the machine.



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