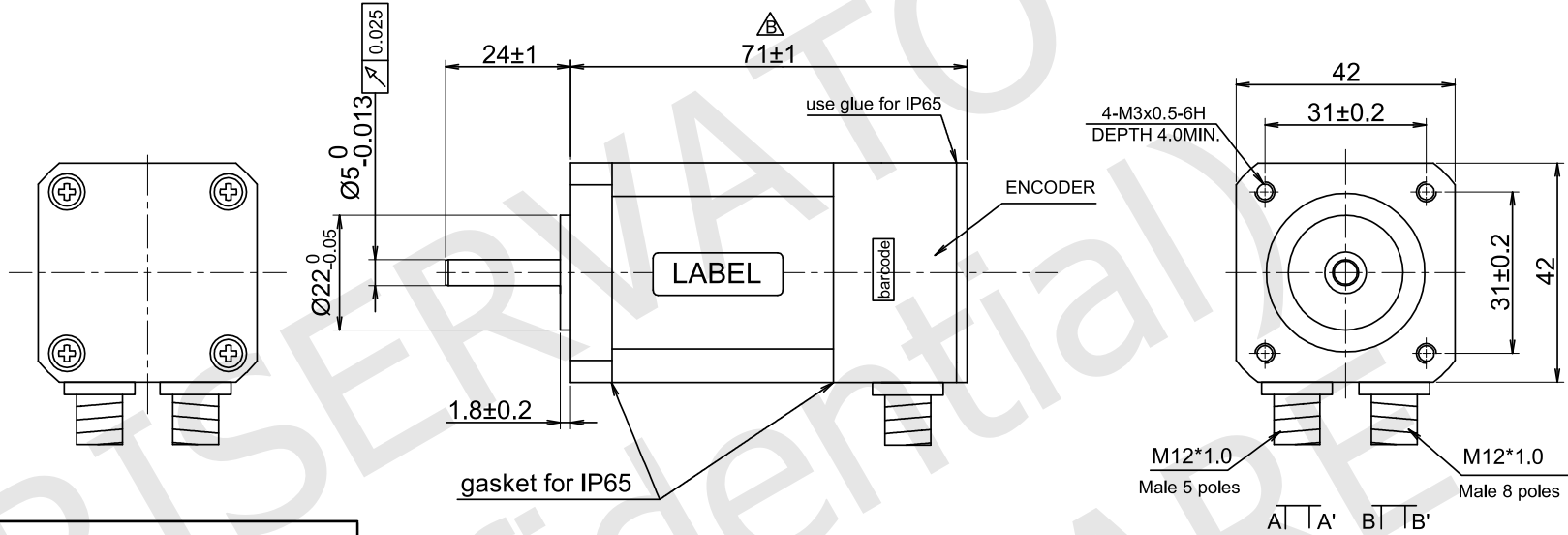


RoHS



**ENCODER SPECIFICATIONS**

ENCODER TYPE	Incremental quadrature
POWER SUPPLY	5.00 Vdc
RESOLUTION	1000 ppr
OUTPUT TYPE	Line driver

**MOTOR SPECIFICATIONS**

STEP ANGLE	$1.8^\circ \pm 5\%$
RATED CURRENT	1.80 Amps/Ph
HOLDING TORQUE	0.48 Nm Min.
RESISTANCE	$1.52 \text{ ohm} \pm 10\%$ at $25^\circ\text{C}$
INDUCTANCE	$3.70 \text{ mH} \pm 20\%$ at $1 \text{ kHz}$ , $1 \text{ Vrms}$
ROTOR INERTIA	$80 \text{ g.cm}^2$
INSULATION CLASS	Class B, $130^\circ\text{C}$
DIELECTRIC STRENGTH	$500 \text{ Vac}$ 1 minute
IP CODE	IP65 (except for the front shaft)
PULL OUT TORQUE	---
BACK EMF	---
DETENT TORQUE	---
WEIGHT	560 g. approx
TEMPERATURE RISE	80K Max.
OPERATING TEMPERATURE	$-20^\circ\text{C} \sim +50^\circ\text{C}$
STORAGE TEMPERATURE	$-20^\circ\text{C} \sim +70^\circ\text{C}$
SHAFT AXIAL LOAD	10 N
SHAFT RADIAL LOAD	21 N (ON FRONT SHAFT END)

**WIRING DIAGRAM**

MOTOR	ENCODER
1 A	1 +5Vdc
2 A/	2 GND
4 B	3 A
5 B/	4 A/
	5 B
	6 B/
	7 Z
	8 Z/

**EXCITING SEQUENCE(TWO PHASES) VS.DIRECTION OF ROTATION**

STEP	A	B	$\bar{A}$	$\bar{B}$	
1	+	+	-	-	
2	-	+	+	-	
3	-	-	+	+	
4	+	-	-	+	

CLOCK WISE VIEW FROM MOUNTING SIDE

**LABELS**

Code : MT17HE18018E4L1  
Cust. P/N:  
Ifmax: 1.80Arms Vfmax: 2.74 Vdc  
L: 3.70 mH Rs: 1.52 ohm  
Tmax: 130°C Lot #: Made in China  
Connect to driver only, see manual for details.

YYWWXXXXX (25 x 8)  
Stator barcode label

UNIT: mm  
UNLESS OTHERWISE SPECIFIED TOLERANCES  
DIMENSIONS :  $\pm 0.3 \text{ mm}$  DEGREES :  $\pm 5\%$

DESIGN	Stm02067-00b
CHECK	
APPROVED	
DATE	01 / 09 / 2020

**MT17HE18018E4L1**  
STEPPING MOTOR SPECIFICATION

**REV**

00a - First release.
00b - Modified the motor lenght.



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