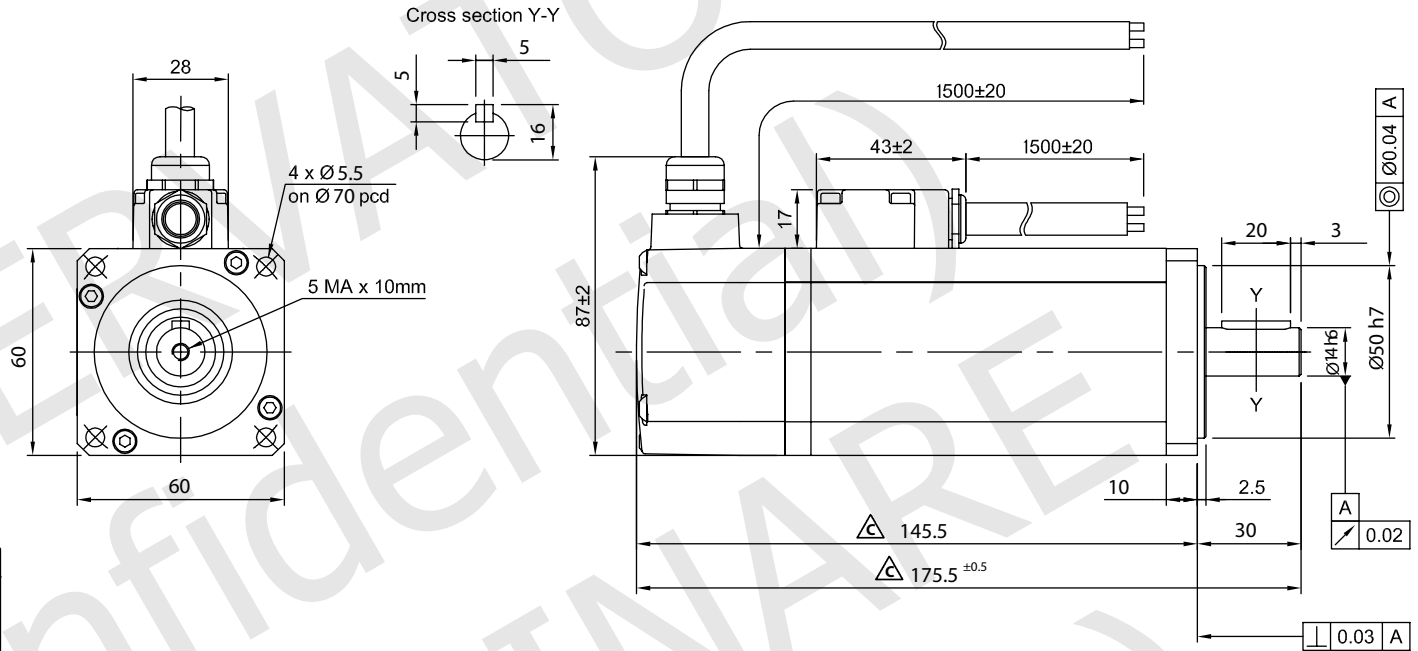


RoHS



**ENCODER SPECIFICATIONS**

ENCODER TYPE	Incremental
RESOLUTION	2048 ppr
ROTOR MOMENT OF INERTIA	0.01 Kg.m <sup>2</sup> x10 <sup>-4</sup>
POWER SUPPLY	5.00 Vdc
OUTPUT	Line driver

**MOTOR SPECIFICATIONS**

POLE PAIRS	4
APPLIED VOLTAGE	230 Vac
RATED POWER	400 W
STALL TORQUE	1.35 Nm
STALL CURRENT	2.12 A
RATED TORQUE	1.27 Nm
RATED CURRENT	2.00 Arms
PEAK TORQUE	4.05 Nm
PEAK CURRENT	8.50 Arms
RATED SPEED	3000 rpm
MAX SPEED	4000 rpm
TORQUE CONSTANT	0.635 Nm/Arms ±5%
VOLTAGE CONSTANT	40.70 Vrms/Krpm ±5%
LINE TO LINE RESISTANCE	7.15 ohm ±5%
LINE TO LINE INDUCTANCE	21.00 mH ±5%
ROTOR INERTIA	0.228 Kg.m <sup>2</sup> x10 <sup>-4</sup>
AMBIENT TEMPERATURE	+0°C ~ +40°C
WEIGHT	2.0 Kg.
PROTECTION	IP65
INSULATION CLASS	Class F, 155°
MAX RADIAL LOAD	250 N
MAX AXIAL LOAD	80 N

**WIRING DIAGRAM**

**MOTOR POWER**

CABLE AWG12	CABLE 4x1,5+(2x1)	CABLE 4x1	CABLE 4x0.5	CABLE 6x0.5	FUNCTION
black	1	black	green	1	U
blue	2	grey	white	2	V
red	3	brown	rown	3	W
yellow/green +shield	yellow/green +shield	yellow/green +shield	yellow/green +shield	yellow/green +shield	GND

**FEEDBACK SIGNALS**

cable 18x0.34 color	ENCODER signal	cable 18x0.34 color	ENCODER signal
red	SUPPLY+5V	brown	HALL U
black	GND	grey/brown	HALL U/
blue	CH A/	grey	HALL V
red/blue	CH A	grey/pink	HALL V/
green	CH B	white	HALL W
white/yellow	CH B/	violet	HALL W/
white/green	CH Z	yellow	PT or KTY+
white/gray	CH Z/	pink	PT or KTY-

**LABELS**

**Ever** ELECTRONICA the clever drive

CE Made in Italy

CODE **BA24SA0402E1010**

U <sub>N</sub>	230 Vac	n	3000r/min
Ke	40,7 V/Krpm	DUTY	S1
I <sub>N</sub>	2,00 A	InC	F
M <sub>N</sub>	1,27 Nm	IP code	65
M <sub>stat</sub>	1,35 Nm	S.N.	yyyyyyy
P <sub>N</sub>	400 W	DATE	xx/xx/xxxx

UNIT: mm  
 UNLESS OTHERWISE SPECIFIED TOLERANCES  
 DIMENSIONS : ±0.3 mm DEGREES : ±5%

DESIGN	Stm02171-02c
CHECK	
APPROVED	
DATE	28 / 11 / 2022

**BA24SA0402E1010**  
 AC BRUSHLESS MOTOR SPECIFICATION

REV	00a - First release.
	00b - Changed the 'Voltage Constant' value.
	00c / 01c / 02c - Updated the motor length and fix the encoder A and A- polarity.

**Ever** ELECTRONICA the clever drive

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