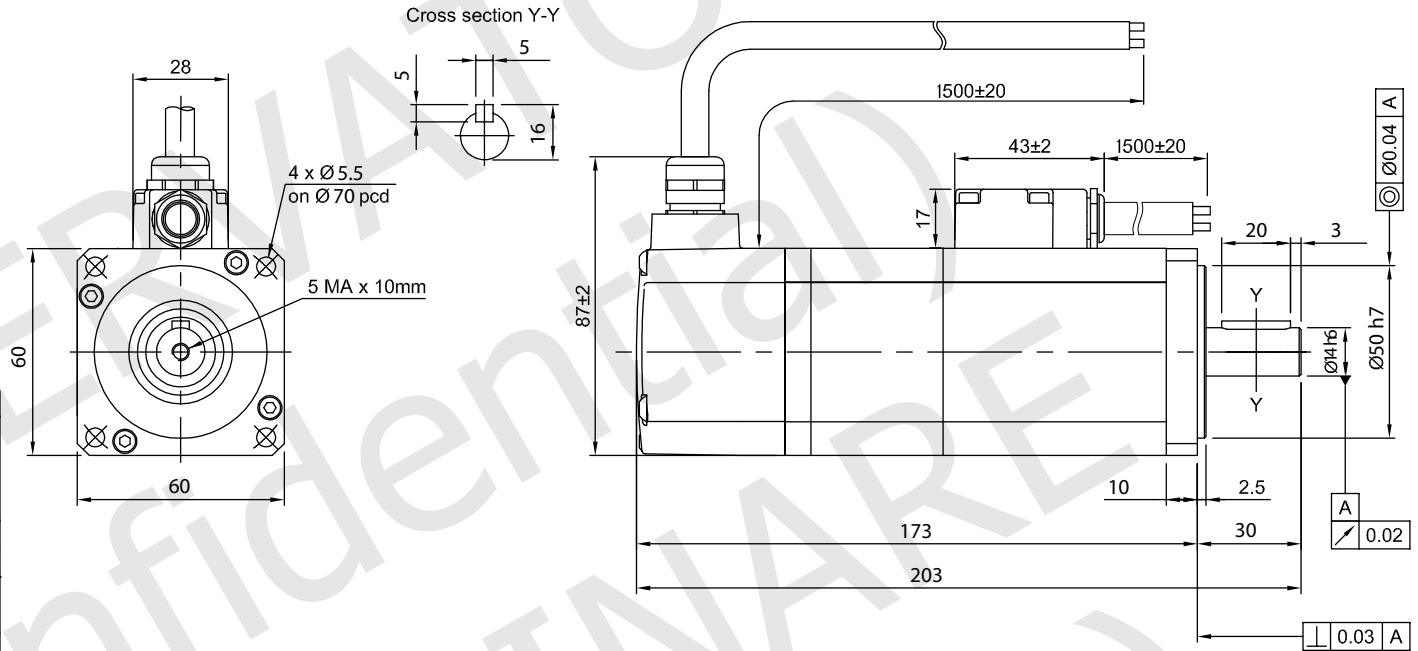


RoHS



BRAKE SPECIFICATIONS	
RATED VOLTAGE	24 Vdc
RATED CURRENT	0.46 A
HOLDING TORQUE	2 Nm
MAX SPEED	10000 rpm
MOMENT OF INERTIA	0.068 Kg.m <sup>2</sup> x10 <sup>-4</sup>

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	220 W
STALL TORQUE	0.75 Nm
STALL CURRENT	1.20 A
RATED TORQUE	0.72 Nm
RATED CURRENT	1.15 Arms
PEAK TORQUE	2.25 Nm
PEAK CURRENT	5.50 Arms
RATED SPEED	3000 rpm
MAX SPEED	4000 rpm

WIRING DIAGRAM MOTOR POWER AND BRAKE					
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	brown	3	W
yellow/green +shield	yellow/green +shield	yellow/green +shield	yellow/green +shield	yellow/green +shield	GND
	black			5	-BRK
	white			6	+BRK

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
UNIT: mm
DESIGN: Stm02168-02a
CHECK
APPROVED
DATE: 28 / 11 / 2022




Made in Italy

**CODE BA24SA0222E101F**

U <sub>N</sub>	230 Vac	n	3000r/min
Ke	40,7 V/Krpm	DUTY	S1
I <sub>N</sub>	1,15 A	InC	F
M <sub>N</sub>	0,72 Nm	IP code	65
M <sub>stat</sub>	0,75 Nm	S.N.	yyyyyyy
P <sub>N</sub>	220 W	DATE	xx/xx/xxxx

TORQUE CONSTANT	0.625 Nm/Arms ±5%
VOLTAGE CONSTANT	40.70 Vrms/Krpm ±5%
LINE TO LINE RESISTANCE	16.20 ohm ±5%
LINE TO LINE INDUCTANCE	43.00 mH ±5%
ROTOR INERTIA	0.157 Kg.m <sup>2</sup> x10 <sup>-4</sup>
AMBIENT TEMPERATURE	+0°C ~ +40°C
WEIGHT	2.15 Kg.
PROTECTION	IP65
INSULATION CLASS	Class F, 155°
MAX RADIAL LOAD	250 N
MAX AXIAL LOAD	80 N

UNLESS OTHERWISE SPECIFIED TOLERANCES	
DIMENSIONS : ±0.3 mm	DEGREES : ±5%
DRAWING NOT TO SCALE	

REV	DESCRIPTION
00a / 01a / 02a	First release.

# BA24SA0222E101F

## AC BRUSHLESS MOTOR SPECIFICATION



the clever drive

www.everelettronica.it