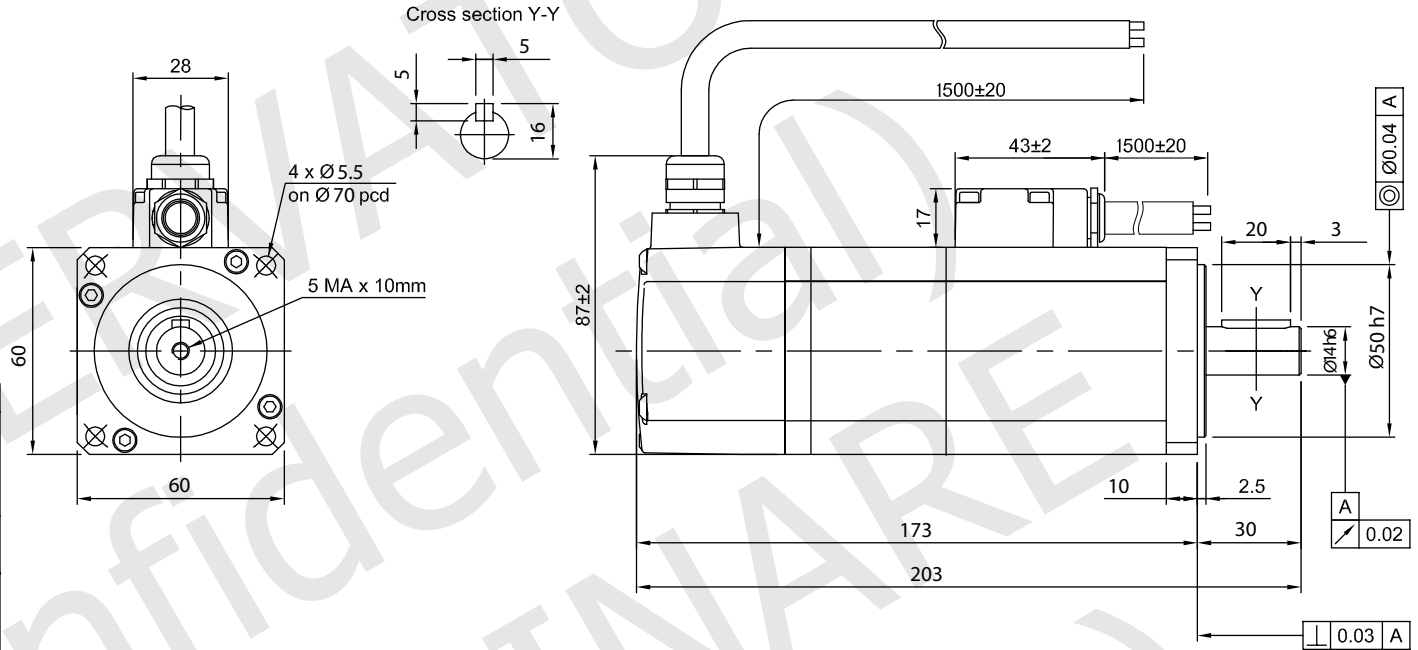


RoHS



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	Absolute multiturn
SINGLE TURN RESOLUTION	17 bits
MULTI TURN RESOLUTION	16 bits
POWER SUPPLY	5.00 Vdc
OUTPUT	BISS-C

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
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

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

cable12x0,34 color	Encoder signal
red	Vcc
green	Data
black	GND
brown	Clock
blue	Preset
grey	Config
white	Clock/
yellow	TS+
pink	TS-
red/blue	Data/

LABELS

Code: **BA24SA0222A001F**

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.	yyyyyy
P <sub>N</sub>	220 W	DATE	xx/xx/xxxx

Y

UNIT: mm	DESIGN	Stm02170-01a
UNLESS OTHERWISE SPECIFIED TOLERANCES	CHECK	
DIMENSIONS : ±0.3 mm DEGREES : ±5%	APPROVED	
DRAWING NOT TO SCALE	DATE	17 / 10 / 2022

**BA24SA0222A001F**  
AC BRUSHLESS MOTOR SPECIFICATION

REV	DESCRIPTION
00a / 01a	First release.

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