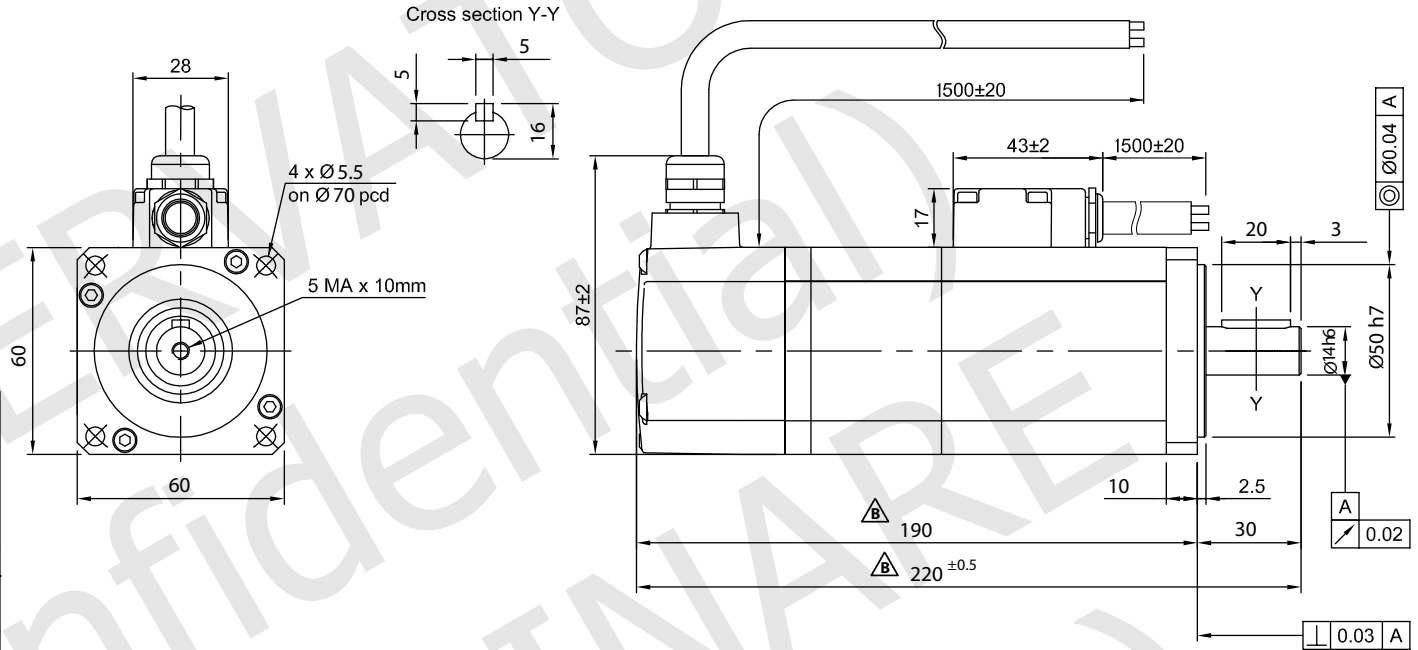


RoHS



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 ² x10 ⁻⁴
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	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	40.60 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 ² x10 ⁻⁴
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						FEEDBACK SIGNALS	
CABLE AWG12	CABLE 4x1,5+(2x1)	CABLE 4x1	CABLE 4x0,5	CABLE 6x0,5	FUNCTION	cable12x0,34 color	encoder signal
black	1	black	green	1	U	red	Vcc
blue	2	grey	white	2	V	green	Data
red	3	brown	brown	3	W	black	GND
yellow/green +shield	yellow/green +shield	yellow/green +shield	yellow/green +shield	yellow/green +shield	GND	brown	Clock
	black			5	-BRK	blue	Preset
	white			6	+BRK	grey	Config
						white	Clock/
						yellow	TS+
						pink	TS-
						red/blue	Data/

Labels

CODE **BA24SA0402A001F**

U _N	230 Vac	n	3000 r/min
Ke	40,6 V/Krpm	DUTY	51
I _N	2,00 A	InC	F
M _{stall}	1,27 Nm	IP code	65
M _{rated}	1,35 Nm	S.N.	yyyyyyyy
P _N	400 W	DATE	xx/xx/xxxx

UNIT: mm	DESIGN	Stm02174-01b
UNLESS OTHERWISE SPECIFIED TOLERANCES	CHECK	
DIMENSIONS : ±0.3 mm DEGREES : ±5%	APPROVED	
DRAWING NOT TO SCALE	DATE	19 / 10 / 2022

BA24SA0402A001F
AC BRUSHLESS MOTOR SPECIFICATION

REV	00a - First release.
	00b / 01b - Updated the motor length.

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