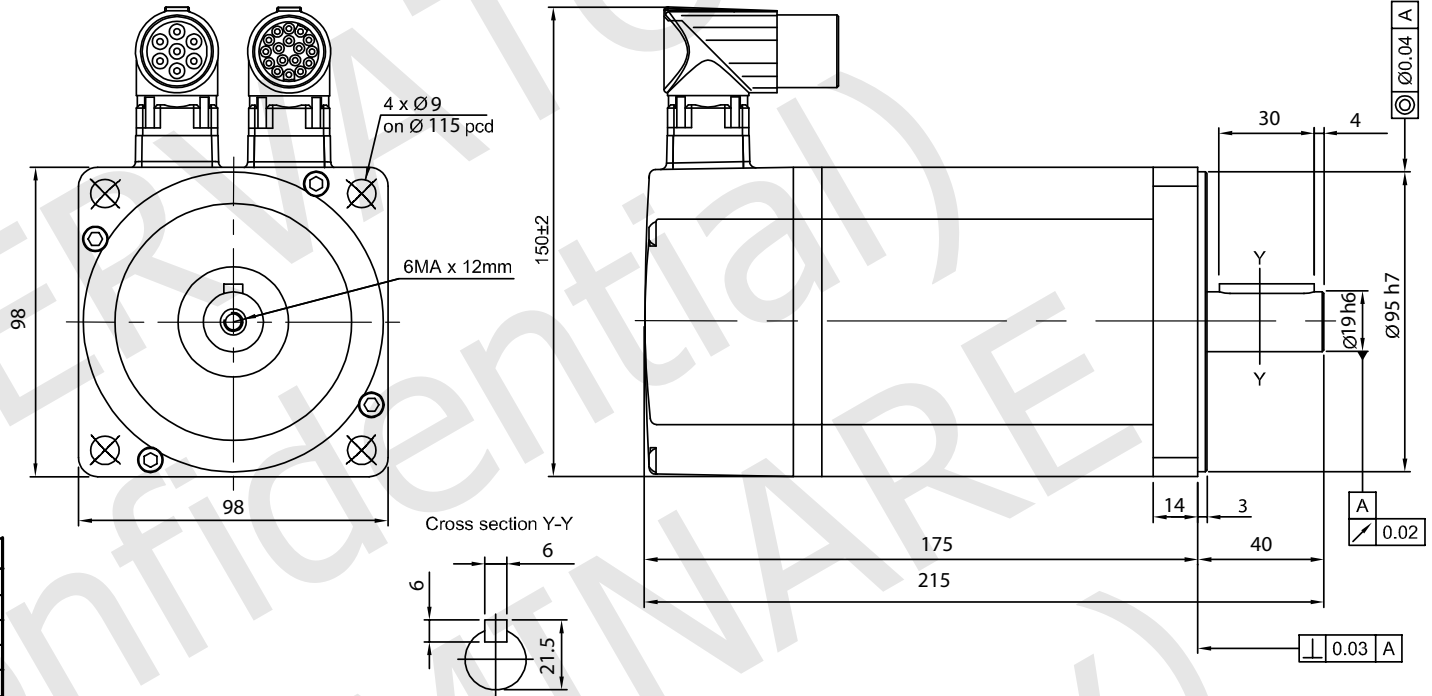
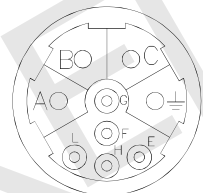


RoHS



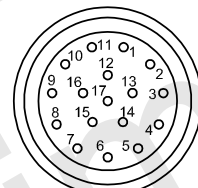
ENCODER SPECIFICATIONS	
ENCODER TYPE	Incremental quadrature
RESOLUTION	2048 ppr
ROTOR MOMENT OF INERTIA	0.01 Kg.m ² *10 ⁻⁴
POWER SUPPLY	5 Vdc
OUTPUT	Line driver
MOTOR SPECIFICATIONS	
POLE PAIRS	5
APPLIED VOLTAGE	230 Vac
RATED POWER	1050 W
STALL TORQUE	4.00 Nm
STALL CURRENT	5.10 A
RATED TORQUE	3.50 Nm
RATED CURRENT	4.50 Arms
PEAK TORQUE	12.00 Nm
PEAK CURRENT	16.3 Arms
RATED SPEED	3000 rpm
MAX SPEED	4000 rpm
TORQUE CONSTANT	0.82 Nm/Arms ±5%
VOLTAGE CONSTANT	50.00 Vrms/Krpm ±5%
LINE TO LINE RESISTANCE	1.40 ohm ±5%
LINE TO LINE INDUCTANCE	13.5 mH
ROTOR INERTIA	2.7 Kg.m ² *10 ⁻⁴
AMBIENT TEMPERATURE	+0°C ~ +40°C
WEIGHT	5.0 Kg.
PROTECTION	IP65
INSULATION CLASS	Class F, 155°
MAX RADIAL LOAD	600 N
MAX AXIAL LOAD	150 N

WIRING DIAGRAM



M23 male motor power connector

Pin	Signal
A	U
B	V
C	W
L	GND
E	n.c.
F	n.c.
G	n.c.
H	n.c.
L	n.c.



M23 male encoder connector

Pin	Signal
1	B
2	B-
3	Z
4	Hall U
5	Hall W
6	n.c.
7	GND 0v
8	PT or KTY+
9	PT or KTY-
10	+5Vdc
11	A-
12	A
13	Z-
14	n.c.
15	n.c.
16	Hall V
17	n.c.

LABELS

Ever
ELETRONICA
the clever drive

CE
Made in Italy

CODE **BA39SA1052E1B00**

U_N 230 Vac n 3000 r/min
 Ke 50.0 V/Krpm DUTY 51
 I_N 4.5 A InC F
 M_{IN} 3.5 Nm IP code 65
 M_{max} 4.0 Nm S.N. yyyyyyy
 P_N 1050 W DATE xx/xx/xxxx

BA39SA1052E1B00
AC BRUSHLESS MOTOR SPECIFICATION

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the clever drive

www.everelettronica.it

UNIT: mm	DESIGN	Stm02048-02a
UNLESS OTHERWISE SPECIFIED TOLERANCES	CHECK	
DIMENSIONS : ±0.3 mm DEGREES : ±5%	APPROVED	
DRAWING NOT TO SCALE	DATE	05/12/2022
REV	00a / 01a - First release.	
	02a - Fix the encoder A and A- polarity.	