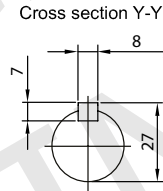
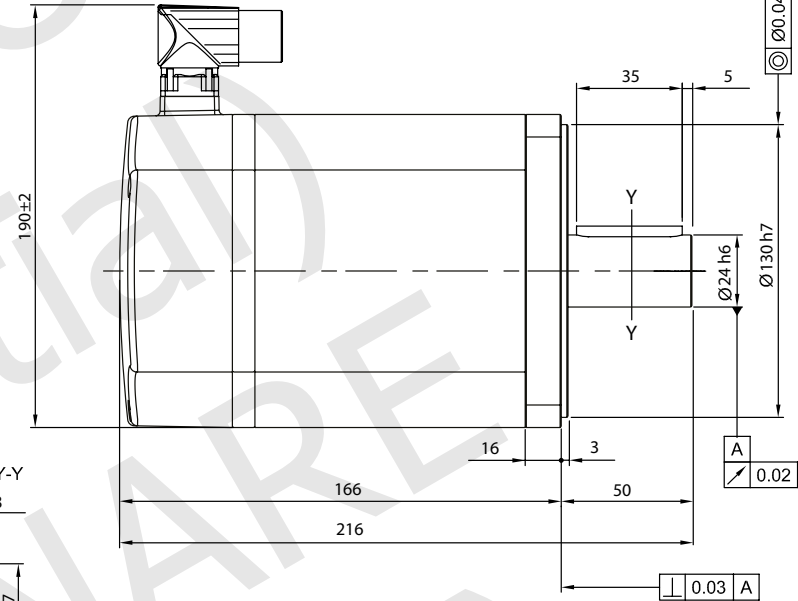
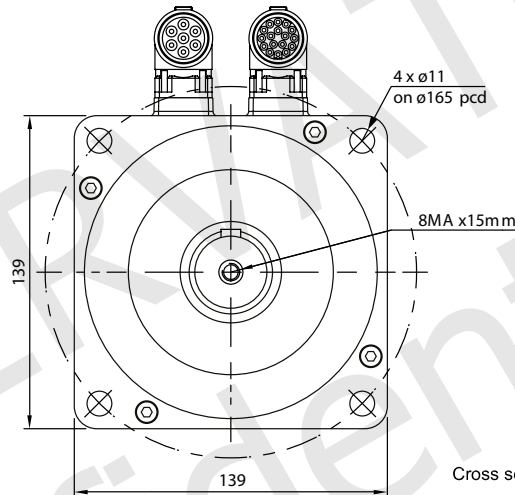
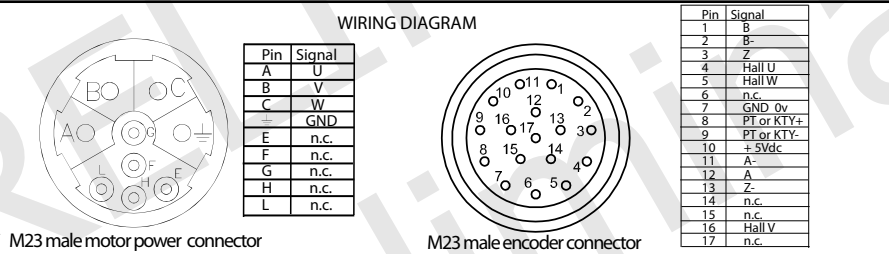


RoHS



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	1400 W
STALL TORQUE	6.00 Nm
STALL CURRENT	6.80 A
RATED TORQUE	4.50 Nm
RATED CURRENT	5.20 Arms
PEAK TORQUE	18.00 Nm
PEAK CURRENT	20.5 Arms
RATED SPEED	3000 rpm
MAX SPEED	4000 rpm
TORQUE CONSTANT	0.87 Nm/Arms ±5%
VOLTAGE CONSTANT	49.50 Vrms/Krpm ±5%
LINE TO LINE RESISTANCE	0.70 ohm ±5%
LINE TO LINE INDUCTANCE	7.8 mH
ROTOR INERTIA	6.1 Kg.m ² *10 ⁻⁴
AMBIENT TEMPERATURE	+0°C ~ +40°C
WEIGHT	4.5 Kg.
PROTECTION	IP65
INSULATION CLASS	Class F, 155°
MAX RADIAL LOAD	1200 N
MAX AXIAL LOAD	500 N



LABELS

CODE BA55SA1402E1B00

U_N 230 Vac n 3000 r/min
 Ke 49.5 V/Krpm DUTY S1
 I_N 5.2 A InC F
 M_N 4.5 Nm IP code 65
 M_{stat} 6.0 Nm S.N. yyyyyyy
 P_N 1400 W DATE xx/xx/xxxx

UNIT: mm	DESIGN	Stm02201-02a
UNLESS OTHERWISE SPECIFIED TOLERANCES	CHECK	
DIMENSIONS : ±0.3 mm DEGREES : ±5%	APPROVED	
DRAWING NOT TO SCALE	DATE	20 / 10 / 2022

BA55SA1402E1B00
AC BRUSHLESS MOTOR SPECIFICATION

REV	Description
00a	First release.
01a	Fix the resistance and inductance values.
02a	Fix the encoder A and A- polarity and fix the mechanical dimensions of key.

Ever
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