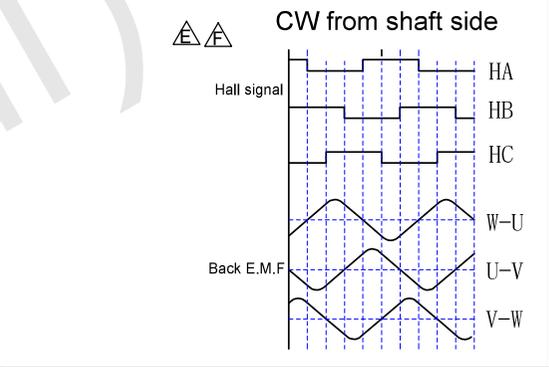
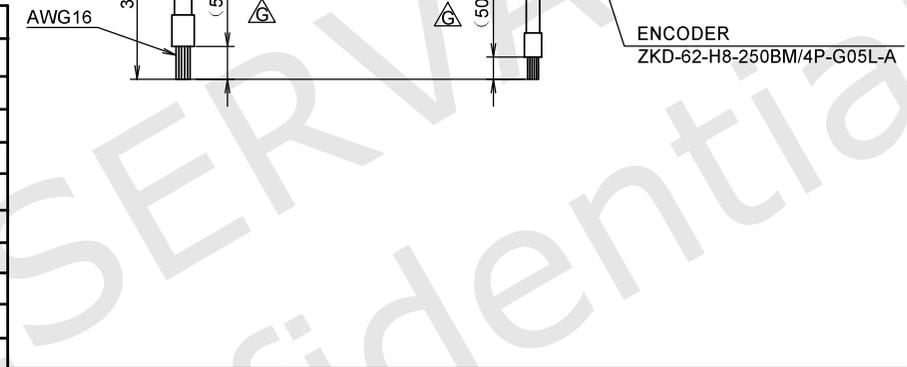


ENCODER SPECIFICATIONS	
ENCODER TYPE	Incremental quadrature
POWER SUPPLY	5.00 Vdc
RESOLUTION	2500 ppr
OUTPUT TYPE	Line driver
MOTOR SPECIFICATIONS	
RATED VOLTAGE	48 Vdc
POLES	10
PHASES	3
RATED CURRENT	12 A
PEAK CURRENT	25 A
RATED POWER	400 W
RATED TORQUE	1.27 Nm
PEAK TORQUE	2.54 Nm
RATED SPEED	3000 rpm ±10%
PEAK SPEED	4000 rpm ±10%
INSULATION CLASS	Class F, 155°C
IP CODE	IP54
DIELECTRIC STRENGTH	600 Vac / 5 mA / 1 s
INSULATION RESISTANCE	>=50 Mohm / 600Vdc
LINE TO LINE RESISTANCE	0.18 ohm ±0.1
LINE TO LINE INDUCTANCE	0.75 mH ±20%
ROTOR INERTIA	210 g.cm ²
BACK EMF	7.40 Vrms/Krpm
OPERATING TEMPERATURE	-20°C ~ +55°C
STORAGE TEMPERATURE	---
WEIGHT	1400 g. approx
MAX SHAFT AXIAL LOAD	60 N
MAX SHAFT RADIAL LOAD	220 N



Define	Colour	Define	Colour
B	GRN	HA-	BLU/WHT
A	GRY	HB-	BRN/WHT
Z	YEL	HC	ORG
HA	BLU	HC-	ORG/WHT
HB	BRN	5V	RED
B/	GRN/WHT	0V	BLK
A/	GRY/WHT	shield	---
Z/	YEL/WHT		

LABELS

(15)

(40)

UNIT: mm	DESIGN	Stm02047-00h
UNLESS OTHERWISE SPECIFIED TOLERANCES	CHECK	
DIMENSIONS : ±0.3 mm DEGREES : ±5%	APPROVED	Matteo C. - 19 / 02 / 2024
ORTHOGRAPHIC PROJECTION	DATE	19 / 02 / 2024

MT24HB4N400D301
DC BRUSHLESS MOTOR SPECIFICATION

REV	Description
00a	- First release.
00b	- Exchanged on drawing the U and V phase sequence.
00c	- Modified as the samples motors.
00d	- Modify according to new mould.
00e	- Modify inductance, hall sensor, waveform diagram, winding type, etc.
00f / 00g	- Modify as the real motor and add the 50mm leadwires indication.
00h	- Exchange encoder signals A and B.