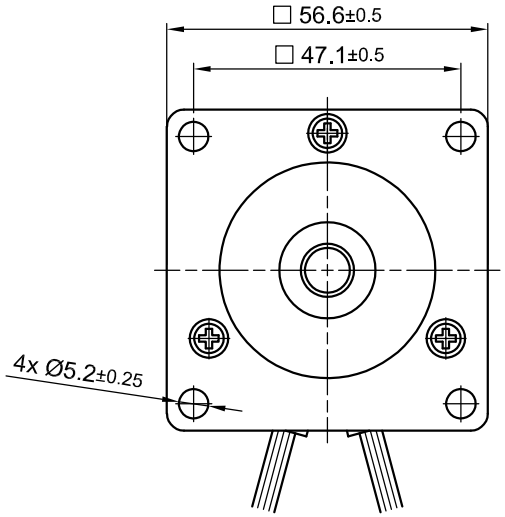
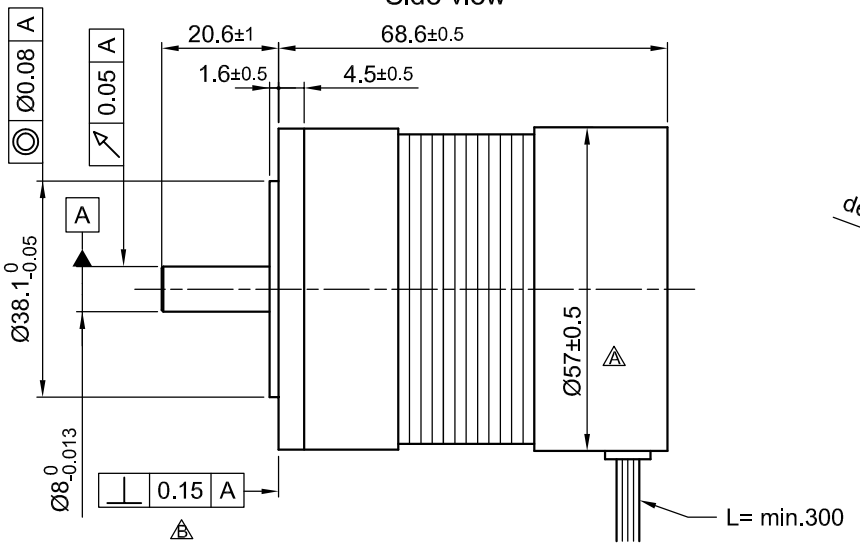
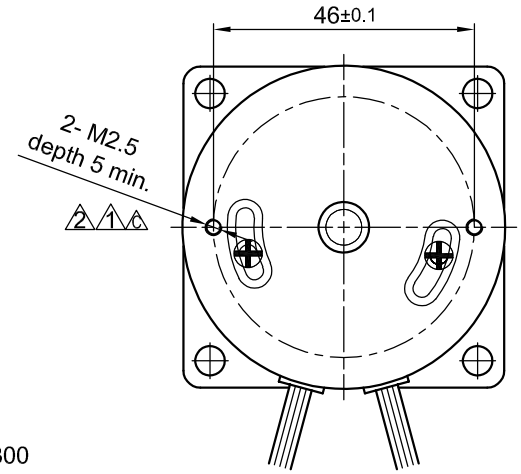
Front view and mounting



Side view

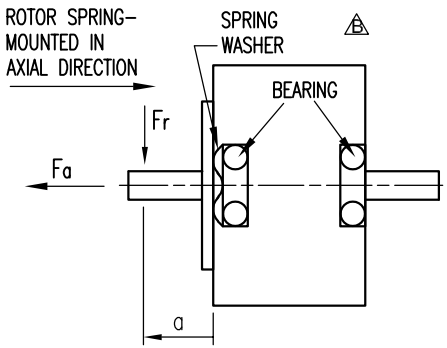


Rear view



SPECIFICATION / CONNECTION	STAR
NO. OF POL./PHASE	6/3
VOLTAGE RATED (VDC)	24
CURRENT RATED/PEAK (AMP)	8/ 24
RESISTANCE/PHASE TO PHASE (Ohms) @20°C	0.24 ±10%
INDUCTANCE/PHASE TO PHASE (mH) @1KHz	0.29 ±20%
TORQUE RATED/PEAK (Nm) [lb-in]	0.37/1.11 [3.27/9.82]
TORQUE CONSTANT (Nm/A)/BACK-EMF (Vrms/kRPM)	0.046/ 3.8
POWER RATED (W)	135
SPEED RATED/NO LOAD (RPM)	3500/5000
ROTOR INERTIA ($Kg-m^2$) [$lb-in^2$]	$10.5x10^{-6}$ [0.0358]
WEIGHT (Kg) [lb]	0.65 [1.43]

PERMISSIBLE RADIAL+AXIAL FORCE

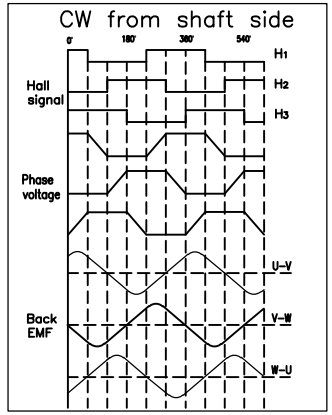


AXIAL-FORCE Fa (N)	Fa=15	
DISTANCE a (mm)	20	
RADIAL-FORCE Fr (N)	75	
	AXIAL	RADIAL
SHAFT PLAY (mm)	0.025	0.025
AT LOAD MAX: (N)	40	4.6

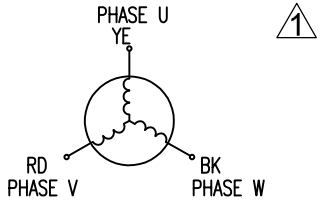
TEMPERATURE RISE: MAX.80°C
AMBIENT TEMPERATURE -10°~ 50°C [14°F ~ 122°F]
INSULATION RESISTANCE 100 MOhm (UNDER NORMAL TEMPERATURE AND HUMIDITY)
INSULATION CLASS B 130° [266°F]
DIELECTRIC STRENGTH 500VAC FOR 1 MIN. (BETWEEN THE MOTOR COILS AND THE MOTOR CASE)
AMBIENT HUMIDITY MAX. 85% (NO CONDENSATION)

WIRING DIAGRAM

	COLOR	FUNCTION	LEAD GAUGE
MOTOR 6 POL.	YE	U	UL1332 AWG18
	RD	V	
	BK	W	
HALL 18 IMPL. REV.	RD	+5V	UL1430 AWG26
	BU	H1	
	GN	H2	
	WH	H3	
	BK	GND	



STAR CONNECTION



REV	DESCRIPTION	DATE	DRN
2	change tol./revise draw.	30.05.17	A.S.
1	CORR. HALL ASSIGNM.	13.06.14	J.D.
C	CHANGE VIEW	21.02.14	J.D.

Nanotec® PLUG & DRIVE

Surface specification DIN ISO 1302	General tolerances DIN ISO 2768- cH	Work piece edge DIN ISO 13715

APVD	G.S.	26.09.13
CHKD		
DRN	A.S.	26.09.13
SIGNATURE		DATE

BRUSHLESS DC MOTOR

DWG.NO

DB59M024035-A