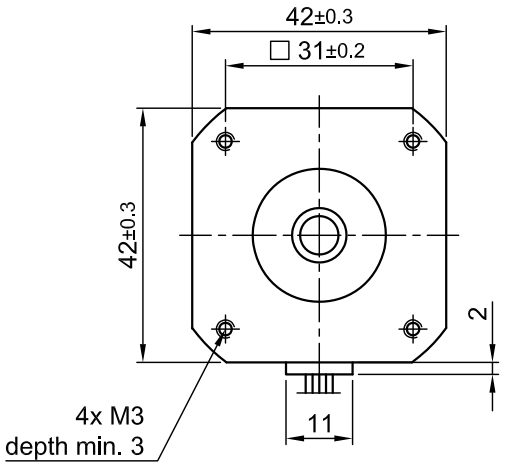
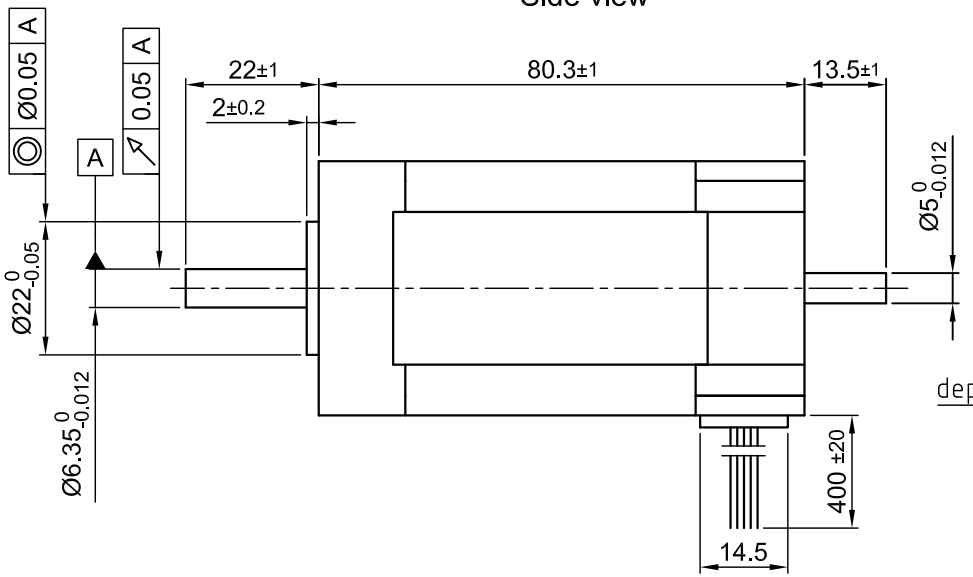
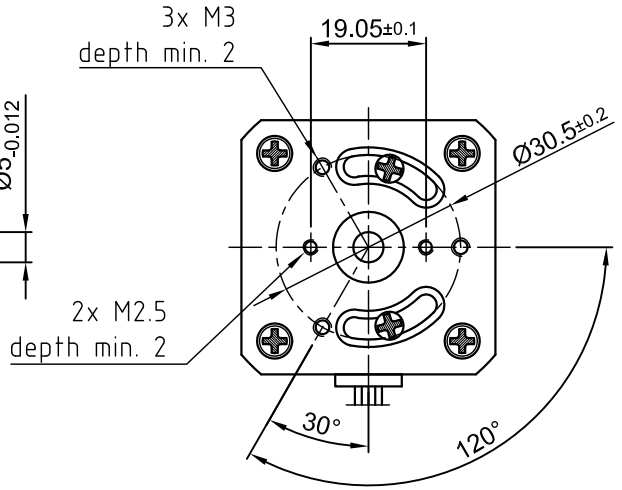
Front view and mounting



Side view

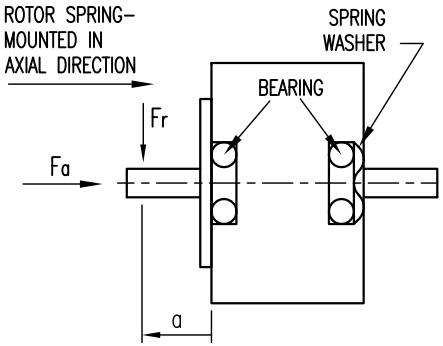


Rear view



SPECIFICATION / CONNECTION	STAR
NO. OF POL./PHASE	6/3
VOLTAGE RATED (VDC)	48
CURRENT RATED/PEAK (AMP)	2.4/ 7.2
RESISTANCE/LINE TO LINE (Ohms) @20°C	2.2 ±10%
INDUCTANCE/LINE TO LINE (mH) @1KHz	1.70 ±20%
TORQUE RATED/PEAK (Nm)	0.3/ 0.9
TORQUE CONSTANT (Nm/A)	0.125
POWER RATED (W)	94
SPEED RATED/NO LOAD (RPM)	3000/3750
ROTOR INERTIA (Kg-m^2)	8x10^{-6}
WEIGHT (Kg)	0.8

PERMISSIBLE RADIAL+AXIAL FORCE

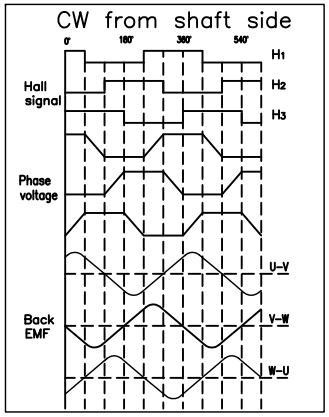


AXIAL-FORCE Fa (N)	Fa=10	
DISTANCE a (mm)	20	
RADIAL-FORCE Fr (N)	28	
	AXIAL	RADIAL
SHAFT PLAY (mm)	0.08	0.02
AT LOAD MAX: (N)	4.5	4.5

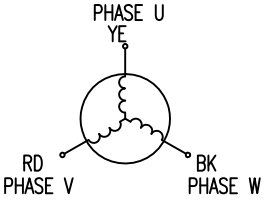
TEMPERATURE RISE: MAX.80°C	
AMBIENT TEMPERATURE -10°~ 50°C [14°F ~ 122°F]	
INSULATION RESISTANCE 100 MOhm (UNDER NORMAL TEMPERATURE AND HUMIDITY)	
INSULATION CLASS B 130° [266°F]	
DIELECTRIC STRENGTH 500VAC FOR 1 MIN. (BETWEEN THE MOTOR COILS AND THE MOTOR CASE)	
AMBIENT HUMIDITY MAX. 85% (NO CONDENSATION)	

WIRING DIAGRAM

	COLOR	FUNCTION	LEAD GAUGE
MOTOR 6 POL.	YE	U	UL1430 AWG20
	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

Nanotec® PLUG & DRIVE

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

APVD	G.S.	18.08.16	
CHKD			
DRN	A.S.	18.08.16	
SIGNATURE		DATE	

BRUSHLESS DC MOTOR

DWG.NO

DB43L048030-B