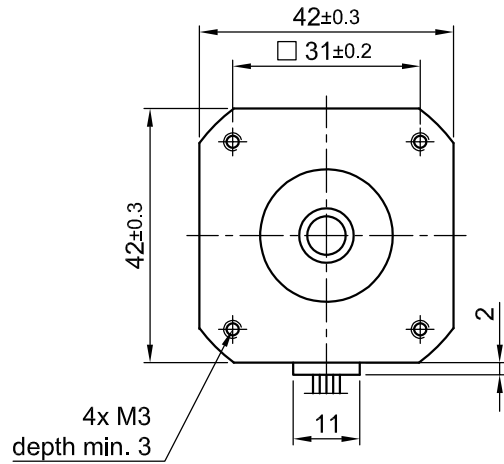
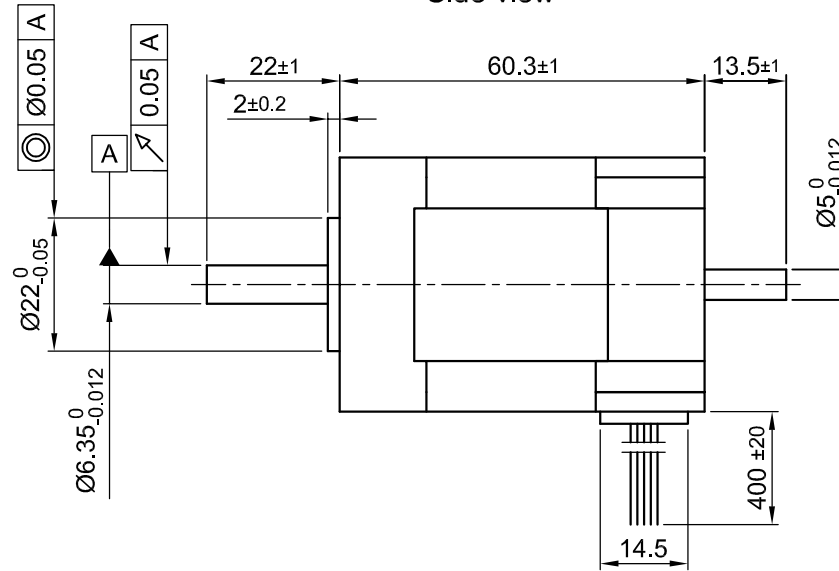


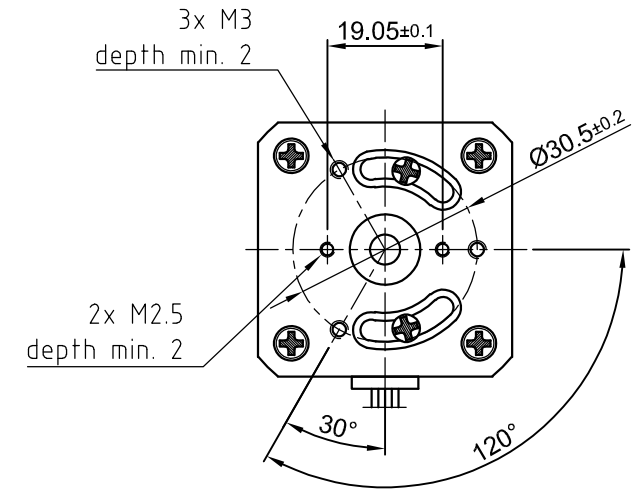
Front view and mounting



Side view



Rear view

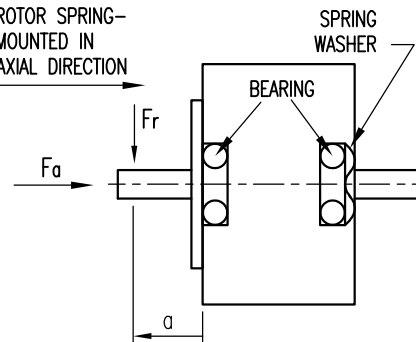


SPECIFICATION	CONNECTION	STAR
NO. OF POL./PHASE	6/3	
VOLTAGE RATED (VDC)	48	
CURRENT RATED/PEAK (AMP)	1.5/ 4.6	
RESISTANCE/LINE TO LINE (Ohms) @20°C	4.3 ±10%	
INDUCTANCE/LINE TO LINE (mH) @1KHz	2.65 ±20%	
TORQUE RATED/PEAK (Nm)	0.17/ 0.51	
TORQUE CONSTANT (Nm/A)	0.11	
POWER RATED (W)	53	
SPEED RATED/NO LOAD (RPM)	3000/3900	
ROTOR INERTIA (Kg-m ²)	6x10 ⁻⁶	
WEIGHT (Kg)	0.6	

TEMPERATURE RISE: MAX.80°C	AXIAL-FORCE F_a (N)	$F_a=10$
AMBIENT TEMPERATURE -10°~ 50°C [14°F ~ 122°F]	DISTANCE a (mm)	20
INSULATION RESISTANCE 100 MOhm (UNDER NORMAL TEMPERATURE AND HUMIDITY)	RADIAL-FORCE F_r (N)	28
INSULATION CLASS B 130° [266°F]		
DIELECTRIC STRENGTH 500VAC FOR 1 MIN. (BETWEEN THE MOTOR COILS AND THE MOTOR CASE)	SHAFT PLAY (mm)	0.08 0.02
AMBIENT HUMIDITY MAX. 85% (NO CONDENSATION)	AT LOAD MAX: (N)	4.5 4.5

PERMISSIBLE RADIAL+AXIAL FORCE

ROTOR SPRING-MOUNTED IN AXIAL DIRECTION

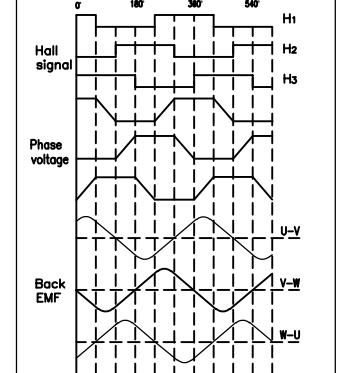


	AXIAL	RADIAL
SHAFT PLAY (mm)	0.08	0.02
AT LOAD MAX: (N)	4.5	4.5

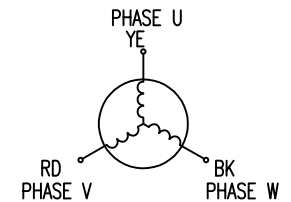
WIRING DIAGRAM

	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	

CW from shaft side



STAR CONNECTION



				 Nanotec® PLUG & DRIVE			APVD	G.S.	18.08.16	BRUSHLESS DC MOTOR
							CHKD			
1	Updt. Resistance	10.11.17	G.S.	Surface specification DIN ISO 1302	General tolerances DIN ISO 2768- cH	Work piece edge DIN ISO 13715	DRN	A.S.	18.08.16	DWG.NO
REV	DESCRIPTION	DATE	DRN				SIGNATURE		DATE	