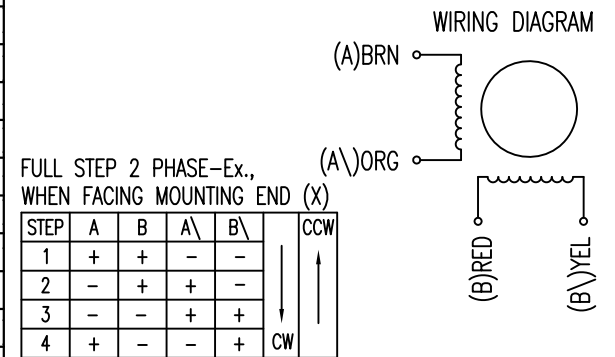


STEPPING MOTOR TYPE	BIPOLAR					BRAKE
	OTHER WINDINGS SEE DATESHEETS OR <a href="http://www.nanotec.de">www.nanotec.de</a>					BKE-0.4-5.0 (8W)
SPECIFICATION	ST4118X1404	ST4118S1404	ST4118M1404	ST4118L1804	ST4118D3004	
VOLTAGE (VDC)	2.8	2.8	1.7	3.15	3.3	24 Vdc ±5%
AMPS/PHASE	1.4	1.4	1.4	1.8	3.0	0.33
RESISTANCE/PHASE (Ohms)@25°C	2.0±15%	2.0±15%	1.2±15%	1.75±15%	1.1±15%	72±10%
INDUCTANCE/PHASE (mH) @1KHz	1.6±20%	3.6±20%	1.7±20%	3.3±20%	2.7±20%	0.4
HOLDING TORQUE (Nm) [lb-in]	0.09 [0.797]	0.2 [1.77]	0.24 [2.124]	0.5 [4.425]	0.8 [7.08]	Mstat: 0.4 [3.54]
DETENT TORQUE (Nm) [lb-in]	3.1x10 <sup>-4</sup> [0.028]	6.0x10 <sup>-3</sup> [0.053]	9.8x10 <sup>-3</sup> [0.0867]	0.0137 [0.1212]	0.028 [0.25]	AIRGAP min/max: 0.15/0.3mm
STEP ANGLE (°) ACCURACY (NON-ACCUM)	1.8±5%					SWITCH ON TIME: 2ms
MOTOR LENGTH "A" (mm) [in]	26 [1.02]	30.5 [1.2]	38 [1.5]	48.5 [1.91]	60 [2.36]	SWITCH OFF TIME: 10ms
ROTOR INERTIA (Kg-m <sup>2</sup> ) [lb-in <sup>2</sup> ]	1.6x10 <sup>-6</sup> [5.74x10 <sup>-4</sup> ]	3.8x10 <sup>-6</sup> [1.3x10 <sup>-2</sup> ]	5.7x10 <sup>-6</sup> [1.95x10 <sup>-2</sup> ]	8.2x10 <sup>-6</sup> [2.8x10 <sup>-2</sup> ]	1.02x10 <sup>-5</sup> [2.8x10 <sup>-2</sup> ]	1.3x10 <sup>-6</sup> [4.44x10 <sup>-3</sup> ]
WEIGHT (Kg) [lb]	0.15 [0.33]	0.2 [0.441]	0.24 [0.529]	0.34 [0.75]	0.34 [0.75]	0.08 [0.176]
TEMPERATURE RISE: MAX.80°C (MOTOR STANDSTILL; FOR 2 PHASE ENERGIZED)						
AMBIENT TEMPERATURE -10~ 50°C [14°F ~ 122°F]						
INSULATION RESISTANCE 100 MOhm (UNDER NORMAL TEMPERATURE AND HUMIDITY)						INSULATION RESISTANCE 500MOhm
INSULATION CLASS B 130° [266°F]						INSULATION CLASSE F 150° (302°F)
DIELECTRIC STRENGTH 500VAC FOR 1 MIN. (BETWEEN THE MOTOR COILS AND THE MOTOR CASE)						
AMBIENT HUMIDITY MAX. 85% (NO CONDENSATION)						

PIN NO	TYPE OF CONNECTION (EXTERN)		MOTOR	
	BIPOLAR	LEADS	WINDING	
1	A —	BRN	A	
2	A \ —	ORG	A \	
3	B —	RED	B	
4	B \ —	YEL	B \	



REV	DESCRIPTION	DATE	APVD	 <b>Nanotec</b> PLUG & DRIVE	SCALE FREE	APVD	B.W.	28.06.10	<b>STEPPING MOTOR</b> DWG.NO ST4118+BKE-0.4-5.0
					X ±0.5	CHKD			
					1PL ±0.2	DRN	J.W.	28.06.10	
					2PL ±0.1	SIGNATURE		DATE	
					ANGLE ±30'				