ST4118

Schrittmotor – NEMA 17

OPTION

Getriebe · Bremse · Steuerung · Encoder

AUSFÜHRUNGEN

Typ	Strom pro Wicklung A	Haltemoment Ncm	Widerstand pro Wicklung Ohm	Induktivität pro Wicklung mH	Rotorträgheitsmoment gcm²	Gewicht kg	Länge „A“ mm
ST4118X0404	0.4	17	24	36	20	0.15	26
ST4118X1404	1.4	9	2	1.6	20	0.15	26
ST4118S0206	0.16	21.21	75	53	38	0.2	30.5
ST4118S0406	0.25	22.63	30	21.7	38	0.2	30.5
ST4118S0706	0.49	22.63	7.6	6.8	38	0.2	30.5
ST4118S1006	0.67	21.21	3.9	2.8	38	0.2	30.5
ST4118S1404	1.4	20	2	3	38	0.2	30.5
ST4118M0406	0.28	39.6	30	25	57	0.24	38
ST4118M0706	0.49	39.6	9.5	8	57	0.24	38
ST4118M0906	0.64	39.6	5.7	5	57	0.24	38
ST4118M1206	0.85	39.6	3.1	2.9	57	0.24	38
ST4118M1404	1.4	24	1.2	1.7	57	0.24	38
ST4118M1804	1.8	28	1.1	1.85	57	0.24	38
ST4118L0804	0.8	50	9.3	17	83	0.34	48.5
ST4118L1206	0.85	49.5	3.3	3.4	82	0.34	48.5
ST4118L1804	1.8	50	1.75	3.3	82	0.34	48.5
ST4118L3004	3	50	0.63	1.03	82	0.34	48.5
ST4118D1804	1.8	80	3	7	102	0.5	60
ST4118D3004	3	80	1.1	2.7	102	0.5	60

Strom- und Haltemomentangaben beziehen sich auf bipolar serielle Verdrahtung. Widerstands- und Induktivitätsangaben beziehen sich auf unipolare Verdrahtung.

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BESTELLBEZEICHNUNG

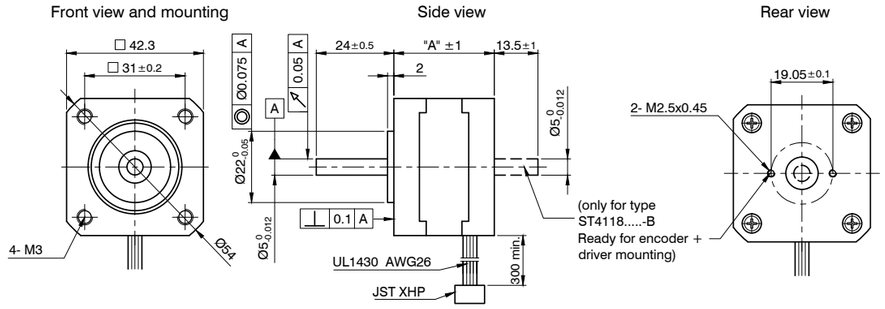
ST4118X0404-
A = ein Wellenende(n)
B = zwei Wellenende(n)

ZUBEHÖR

ZK-JST-VL-4 Verlängerungskabel 2m
ZK-JST-VL-6 Verlängerungskabel 2m
ZD-D40 Dämpfer
ZD-DF40 Dämpfer

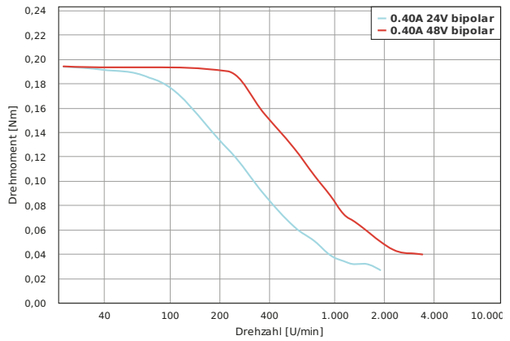
MASSBILD (IN MM)

ST4118

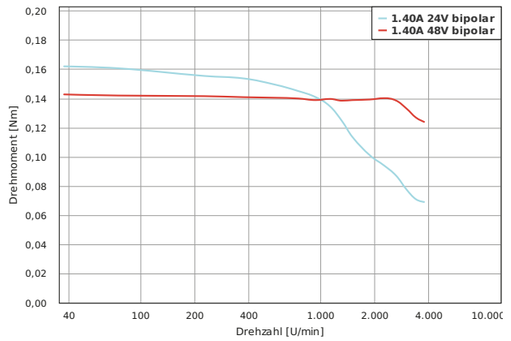


KENNLINIEN

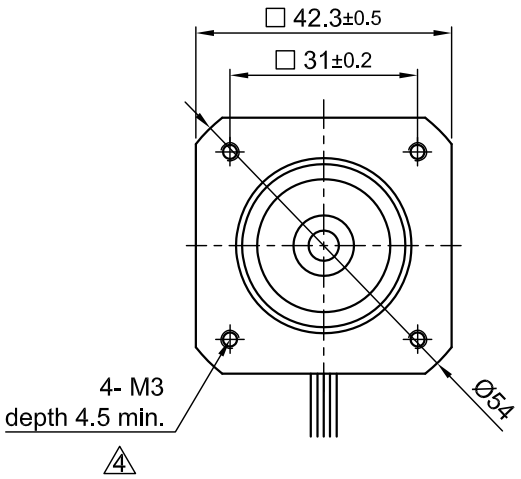
ST4118X0404



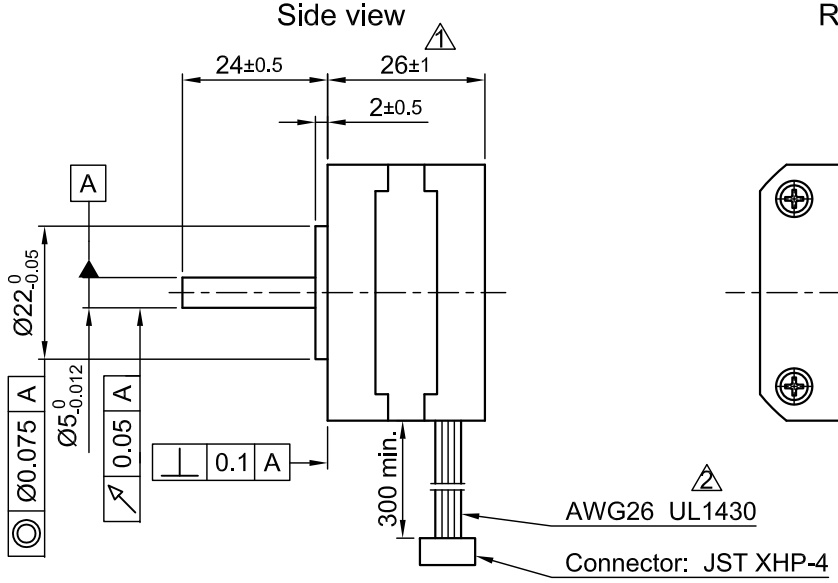
ST4118X1404



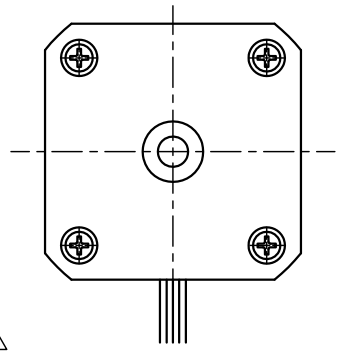
Front view and mounting



Side view

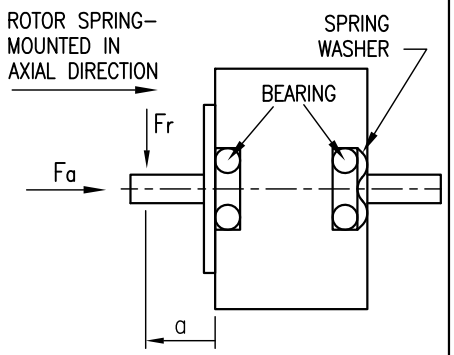


Rear view



SPECIFICATION \ CONNECTION	BIPOLAR
VOLTAGE (VDC)	9.6
AMPS/PHASE	0.4
RESISTANCE/PHASE (Ohms)@25°C	24±15%
INDUCTANCE/PHASE (mH) @1KHz	36±20%
HOLDING TORQUE (Nm) [lb-in]	0.17 [1.5] 2
DETENT TORQUE (Nm) [lb-in]	$5.1x10^{-4}$ [$4.51x10^{-3}$]
STEP ANGLE (°)	1.8 4
STEP ACCURACY (NON-ACCUM)	±5% 3
ROTOR INERTIA (Kg-m^2) [lb-in^2]	$2.0x10^{-6}$ [$6.83x10^{-4}$]
WEIGHT (Kg) [lb]	0.15 [0.33]

PERMISSIBLE RADIAL+AXIAL FORCE



AXIAL-FORCE Fa (N)	Fa=7			
DISTANCE a (mm)	5	10	15	20
RADIAL-FORCE Fr (N)	58	36	26	20

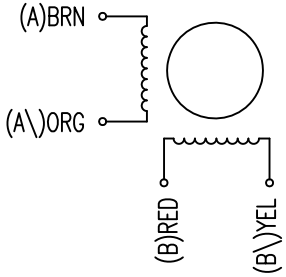
	AXIAL	RADIAL
SHAFT PLAY (mm)	0.08	0.02
AT LOAD MAX: (N)	4.5	4.5

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

FULL STEP 2 PHASE-Ex.,
WHEN FACING MOUNTING END (X)

STEP	A	B	A\	B\		CCW
1	+	+	-	-		
2	-	+	+	-		
3	-	-	+	+	CW	
4	+	-	-	+		

WIRING DIAGRAM



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 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)

REV	DESCRIPTION	DATE	DRN
4	rework draw/change depth M3	10.02.16	A.S.
3	VALUE OF BACK-EMF	20.06.11	LB
2	VALUE OF HOLDING TORQUE, NEW UL NO.	15.04.09	J.W.

Nanotec® PLUG & DRIVE

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

APVD	S.R.	21.09.06
CHKD		
DRN	J.W.	21.09.06
SIGNATURE		DATE

STEPPING MOTOR

DWG.NO
ST4118X0404-A