

		Winding codes	3TA	3WA
PERFORMANCE		UNIT	FREE AIR CONVECTION	FREE AIR CONVECTION
Fp	Peak force	N	1320	1320
Fc	Continuous force	N	371	370
Fs	Stall force	N	281	281
Kt	Force constant	N/Arms	106	54.2
Ku	Back EMF constant (*)	Vrms/(m/s)	61.3	31.3
Km	Motor constant	N/√W	40.8	40.7
R20	Electrical resistance at 20°C (*)	Ohm	4.51	1.18
L1	Electrical inductance (*)	mH	51.2	13.4
Ip	Peak current	Arms	20.5	40.0
Ic	Continuous current	Arms	3.64	7.10
Is	Stall current	Arms	2.75	5.38
Pc	Max. continuous power dissipation	W	128	128

SPECIFICATIONS		UNIT		
Udc	Nominal input voltage	VDC	600	600
τth	Thermal time constant	s	1780	1780
Rth	Thermal resistance	K/W	0.861	0.861
2τp	Magnetic period	mm	32	32
Mw	Magnetic way mass	kg/m	8.12	8.12
Mm	Motor mass (magnetic way excluded)	kg	4.49	4.49
Fa	Attraction force	N	2900	2900
Fd	Max. detent force (average to peak)	N	14	14
vs	Stall speed	mm/s	0.18	0.18
Gm	Mechanical gap	mm	0.80	0.80

Notes: (*) terminal to terminal. Ambient temperature = 20 °C. Max. coil temperature = 130 °C.
 Hypothesis and tolerances are in ETEL's Handbook. Carriage's dissipation area is 0.07 m² and minimal stroke is 2 times the motor length.
 Caution: Any use of the motor beyond speed/force limit could lead to hazardous voltage and serious injuries. Customer is responsible for setting safeties/limitations that will keep the motor in its safe operating area. ETEL cannot be held responsible if the motor is used in an improper way.

