

MOTOR PERFORMANCE		Winding codes	3QA	3QC		
		UNIT	FREE AIR COOLING	FREE AIR COOLING		
<b>Fp</b>	Peak force	N	764	764		
<b>Fc</b>	Continuous force	N	170	170		
<b>Fs</b>	Standstill force	N	128	128		
<b>Ip</b>	Peak current	Arms	15.1	45.2		
<b>Ic</b>	Continuous current	Arms	2.23	6.68		
<b>Is</b>	Standstill current	Arms	1.69	5.06		
<b>vs</b>	Rated low speed	mm/s	0.17	0.17		
<b>Pc</b>	Power dissipation @ Ic	W	111	111		
<b>Fd</b>	Max. detent force (average to peak)	N	8.8	8.8		
<b>Fa</b>	Attraction force	N	1560	1560		

MOTOR SETTING		UNIT				
<b>Kt</b>	Force constant	N/Arms	79.3	26.4		
<b>Ku</b>	Back EMF constant (*)	Vrms/(m/s)	48.1	16.0		
<b>Km</b>	Motor constant	N/√W	20.0	20.0		
<b>R20</b>	Electrical resistance at 20°C (*)	Ohm	10.5	1.17		
<b>L</b>	Electrical inductance (*)	mH	48.7	5.42		
<b>rth</b>	Thermal time constant	s	1850	1850		
<b>Rth</b>	Thermal resistance	K/W	0.982	0.982		
<b>2tp</b>	Magnetic period	mm	32	32		
<b>mw</b>	Magnetic way mass	kg/m	3.51	3.51		
<b>mm</b>	Motor mass	kg	1.61	1.61		

MOTOR ENVIRONMENT		UNIT				
<b>Udc</b>	Nominal DC bus voltage	VDC	600	600		
<b>Gm</b>	Mechanical gap	mm	0.90	0.90		
<b>Ss</b>	Stator exchange surface	m²	0.03	0.03		
<b>x</b>	Assumed stroke	m	0.51	0.51		
<b>θamb</b>	Ambient temperature	°C	20	20		
<b>θmax</b>	Maximum coil temperature	°C	130	130		

**Notes:** (\*) terminal to terminal.

Hypotheses and tolerances are in ETEL Integration Manual.

**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.

