

MOTOR PERFORMANCE		Winding codes	3QA	3QC		
		UNIT	FREE AIR COOLING	FREE AIR COOLING		
Fp	Peak force	N	764	764		
Fc	Continuous force	N	176	176		
Fs	Standstill force	N	132	132		
Ip	Peak current	Arms	14.9	44.7		
Ic	Continuous current	Arms	2.28	6.83		
Is	Standstill current	Arms	1.72	5.17		
vs	Rated low speed	mm/s	0.17	0.17		
Pc	Power dissipation @ Ic	W	112	112		
Fd	Max. detent force (average to peak)	N	8.8	8.8		
Fa	Attraction force	N	1560	1560		

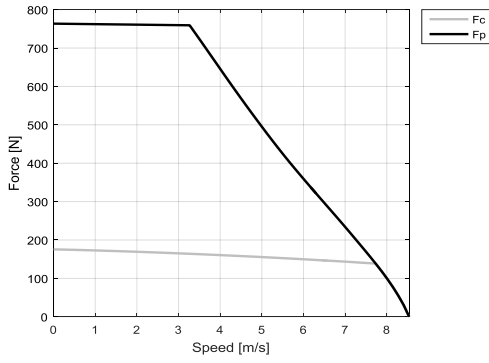
MOTOR SETTING		UNIT				
Kt	Force constant	N/Arms	80.2	26.7		
Ku	Back EMF constant (*)	Vrms/(m/s)	48.6	16.2		
Km	Motor constant	N/√W	20.7	20.7		
R20	Electrical resistance at 20°C (*)	Ohm	10.1	1.12		
L	Electrical inductance (*)	mH	49.7	5.53		
rth	Thermal time constant	s	1850	1850		
Rth	Thermal resistance	K/W	0.981	0.981		
2tp	Magnetic period	mm	32	32		
mw	Magnetic way mass	kg/m	3.51	3.51		
mm	Motor mass	kg	1.62	1.62		

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

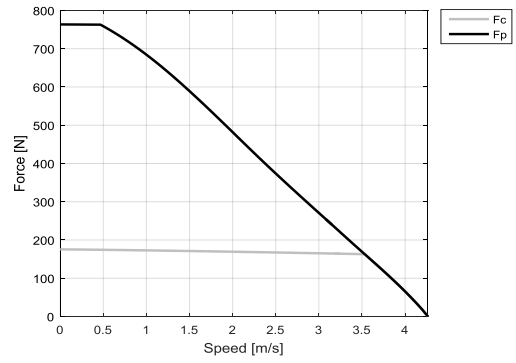
Notes: (*) terminal to terminal.
Hypotheses and tolerances are in ETEL handbook.

Caution: Any use of the motor beyond speed/torque 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.

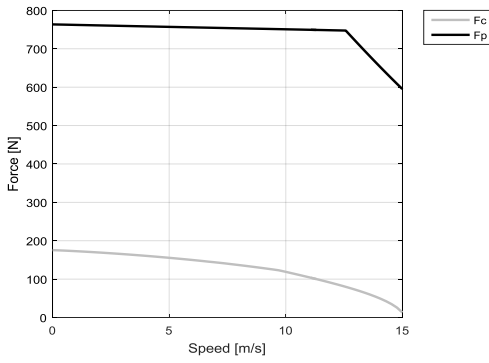
3QA - FREE AIR COOLING - 600V



3QA - FREE AIR COOLING - 300V



3QC - FREE AIR COOLING - 600V



3QC - FREE AIR COOLING - 300V

