		Winding codes	3QA	3QB		
MOTOR PERFORMANCE		UNIT	FREE AIR COOLING	FREE AIR COOLING		
Fp	Peak force	N	1280	1280		
Fc	Continuous force	N	255	255		
Fs	Standstill force	N	192	192		
Ip	Peak current	Arms	15.7	31.3		
Ic	Continuous current	Arms	2.15	4.30		
Is	Standstill current	Arms	1.63	3.26		
vs	Rated low speed	mm/s	0.15	0.15		
Pc	Power dissipation @ Ic	W	122	122		
Fd	Max. detent force (average to peak)	N	17	17		
Fa	Attraction force	N	2500	2500		
MOTOR SETTING		UNIT				
Kt	Force constant	N/Arms	124	61.9		
Ku	Back EMF constant (*)	Vrms/(m/s)	74.9	37.4		
Km	Motor constant	N/√W	28.8	28.8		
R20	Electrical resistance at 20°C (*)	Ohm	12.3	3.08		
L	Electrical inductance (*)	mH	77.9	19.5		
τth	Thermal time constant	s	2190	2190		
Rth	Thermal resistance	K/W	0.891	0.891		
2τp	Magnetic period	mm	32	32		
mw	Magnetic way mass	kg/m	7.96	7.96		
mm	Motor mass	kg	2.18	2.18		
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	0.47	0.47		
θamb	Ambient temperature	°C	20	20		
θmax	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.

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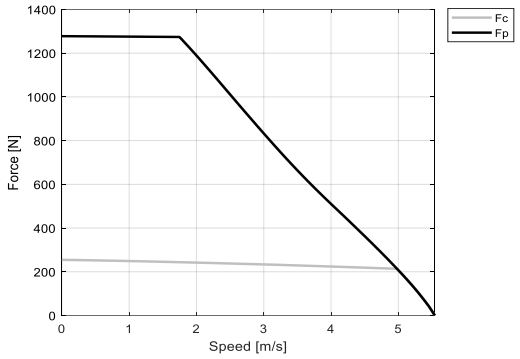
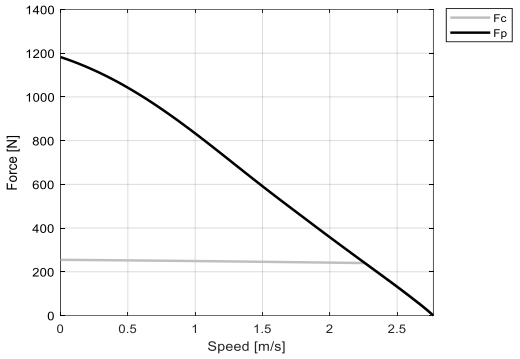
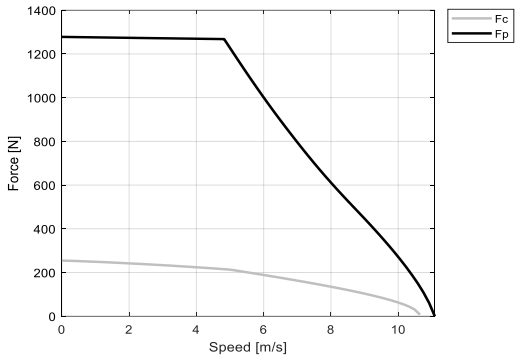
3QA - FREE AIR COOLING - 600V



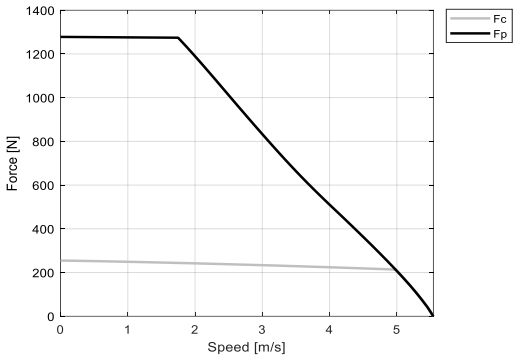
3QA - FREE AIR COOLING - 300V



3QB - FREE AIR COOLING - 600V



3QB - FREE AIR COOLING - 300V



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