

MOTOR PERFORMANCE		Winding codes	RA	RA	UA	UA
		UNIT	FREE AIR COOLING	FORCED AIR COOLING	FREE AIR COOLING	FORCED AIR COOLING
<b>Fp</b>	Peak force	N	788	788	755	755
<b>Fc</b>	Continuous force	N	129	159	124	154
<b>Fs</b>	Standstill force	N	97.0	119	93.5	115
<b>Ip</b>	Peak current	Arms	17.5	17.5	36.2	36.2
<b>Ic</b>	Continuous current	Arms	2.80	3.46	5.85	7.23
<b>Is</b>	Standstill current	Arms	2.11	2.59	4.41	5.42
<b>vs</b>	Rated low speed	mm/s	0.88	2.6	0.91	2.7
<b>Pc</b>	Power dissipation @ Ic	W	92.1	137	91.3	136
<b>Fd</b>	Max. detent force (average to peak)	N	0	0	0	0
<b>Fa</b>	Attraction force	N	0.0	0.0	0.0	0.0

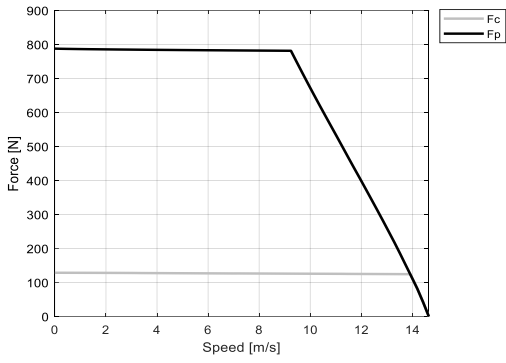
MOTOR SETTING		UNIT				
<b>Kt</b>	Force constant	N/Arms	47.3	47.3	21.8	21.8
<b>Ku</b>	Back EMF constant (*)	Vrms/(m/s)	28.4	28.4	13.1	13.1
<b>Km</b>	Motor constant	N/√W	16.4	16.4	15.9	15.9
<b>R20</b>	Electrical resistance at 20°C (*)	Ohm	5.53	5.53	1.26	1.26
<b>L</b>	Electrical inductance (*)	mH	12.0	12.0	2.55	2.56
<b>rth</b>	Thermal time constant	s	731	246	705	239
<b>Rth</b>	Thermal resistance	K/W	1.19	0.791	1.20	0.798
<b>2tp</b>	Magnetic period	mm	64	64	64	64
<b>mw</b>	Magnetic way mass	kg/m	22.7	22.7	22.7	22.7
<b>mm</b>	Motor mass	kg	0.509	0.662	0.491	0.645

MOTOR ENVIRONMENT		UNIT				
<b>Udc</b>	Nominal DC bus voltage	VDC	600	600	600	600
<b>Ss</b>	Stator exchange surface	m²	0.08	0.08	0.08	0.08
<b>x</b>	Assumed stroke	m	0.38	0.38	0.38	0.38
<b>θamb</b>	Ambient temperature	°C	20	20	20	20
<b>θmax</b>	Maximum coil temperature	°C	130	130	130	130
<b>θa</b>	Inlet air temperature	°C	N/A	20	N/A	20
<b>qa</b>	Minimum air flow	l/min	N/A	33	N/A	33
<b>Δpa</b>	Minimum inlet air gauge pressure	bar	N/A	0.3	N/A	0.3

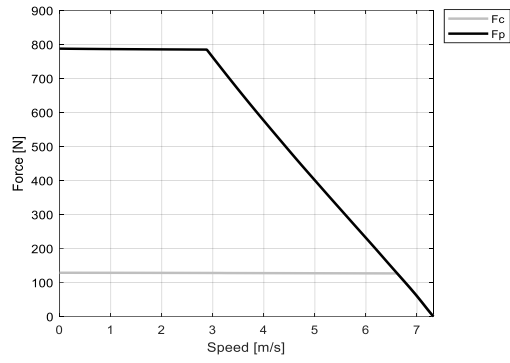
**Notes:** (\*) terminal to terminal.  
Hypotheses and tolerances are in ETEL Integration Manual.

**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.

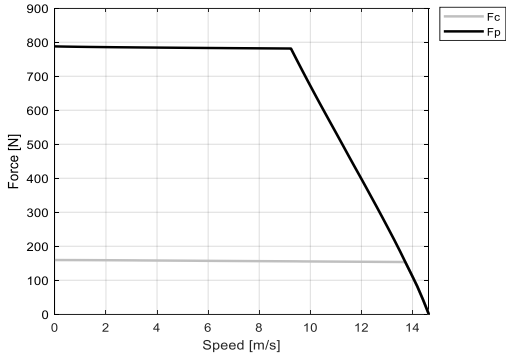
**RA - FREE AIR COOLING - 600V**



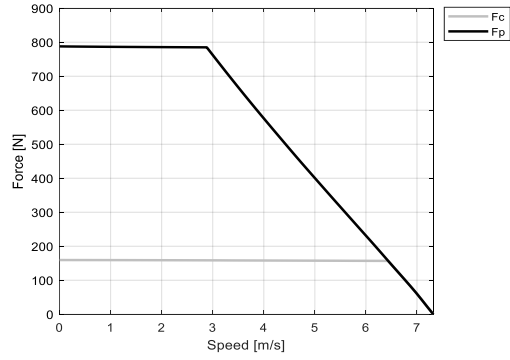
**RA - FREE AIR COOLING - 300V**



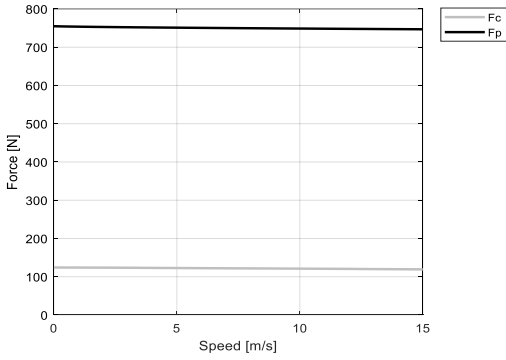
**RA - FORCED AIR COOLING - 600V**



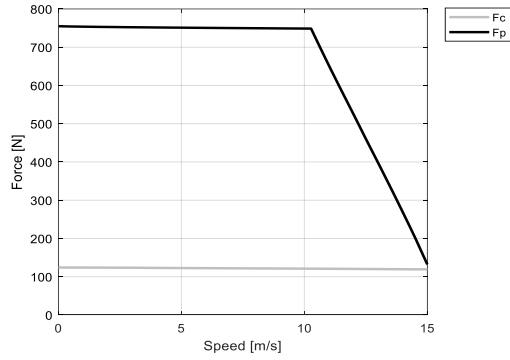
**RA - FORCED AIR COOLING - 300V**



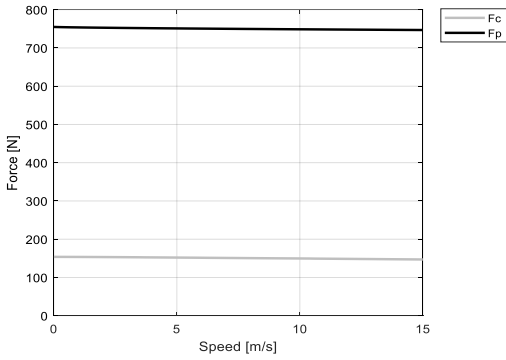
**UA - FREE AIR COOLING - 600V**



**UA - FREE AIR COOLING - 300V**



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