

MOTOR PERFORMANCE		Winding codes	KA	KA	NA	NA
		UNIT	FREE AIR COOLING	FORCED AIR COOLING	FREE AIR COOLING	FORCED AIR COOLING
<b>Fp</b>	Peak force	N	97.9	97.9	96.7	96.7
<b>Fc</b>	Continuous force	N	21.3	31.6	21.2	31.5
<b>Fs</b>	Standstill force	N	16.0	23.6	15.9	23.5
<b>Ip</b>	Peak current	Arms	3.48	3.48	7.55	7.55
<b>Ic</b>	Continuous current	Arms	0.738	1.09	1.61	2.39
<b>Is</b>	Standstill current	Arms	0.555	0.815	1.21	1.78
<b>vs</b>	Rated low speed	mm/s	1.0	4.0	1.1	4.1
<b>Pc</b>	Power dissipation @ Ic	W	26.6	56.4	26.4	55.8
<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

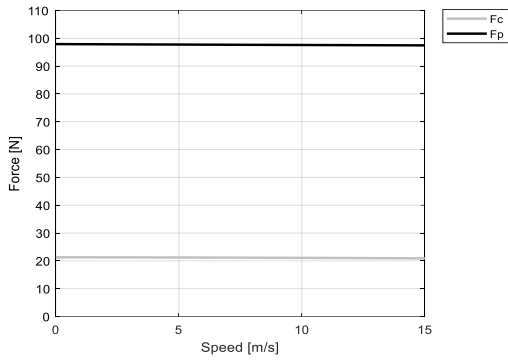
MOTOR SETTING		UNIT				
<b>Kt</b>	Force constant	N/Arms	29.5	29.5	13.4	13.4
<b>Ku</b>	Back EMF constant (*)	Vrms/(m/s)	17.9	17.9	8.17	8.17
<b>Km</b>	Motor constant	N/√W	4.99	4.99	4.99	4.99
<b>R20</b>	Electrical resistance at 20°C (*)	Ohm	23.2	23.2	4.82	4.82
<b>L</b>	Electrical inductance (*)	mH	12.3	12.3	2.55	2.55
<b>rth</b>	Thermal time constant	s	314	79.7	303	78.5
<b>Rth</b>	Thermal resistance	K/W	4.11	1.90	4.14	1.92
<b>2tp</b>	Magnetic period	mm	32	32	32	32
<b>mw</b>	Magnetic way mass	kg/m	8.16	8.16	8.16	8.16
<b>mm</b>	Motor mass	kg	0.0995	0.169	0.0959	0.165

MOTOR ENVIRONMENT		UNIT				
<b>Udc</b>	Nominal DC bus voltage	VDC	600	600	600	600
<b>Ss</b>	Stator exchange surface	m²	0.03	0.03	0.03	0.03
<b>x</b>	Assumed stroke	m	0.18	0.18	0.18	0.18
<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

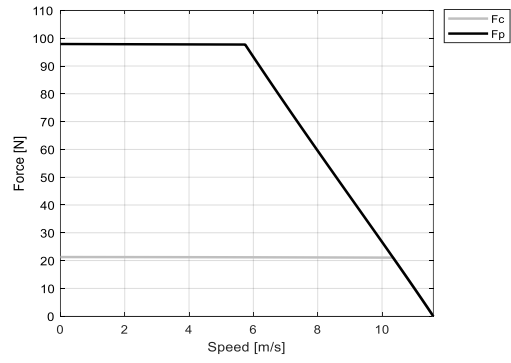
**Notes:** (\*) terminal to terminal.  
Hypotheses and tolerances are in ETEL Integration Manual.

**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.

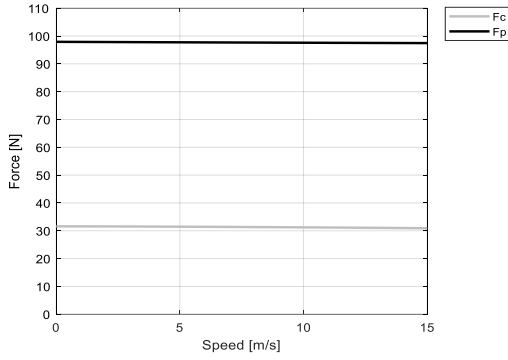
**KA - FREE AIR COOLING - 600V**



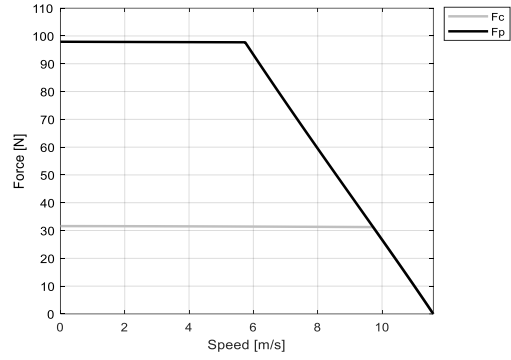
**KA - FREE AIR COOLING - 300V**



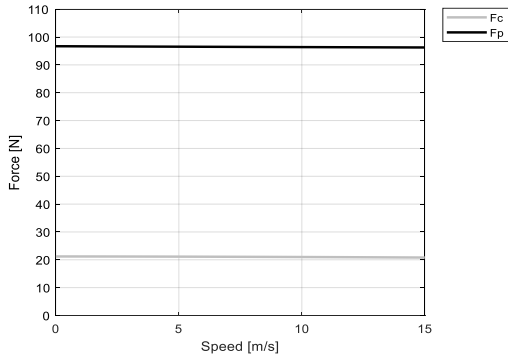
**KA - FORCED AIR COOLING - 600V**



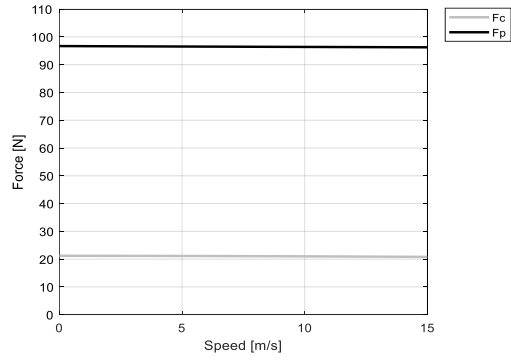
**KA - FORCED AIR COOLING - 300V**



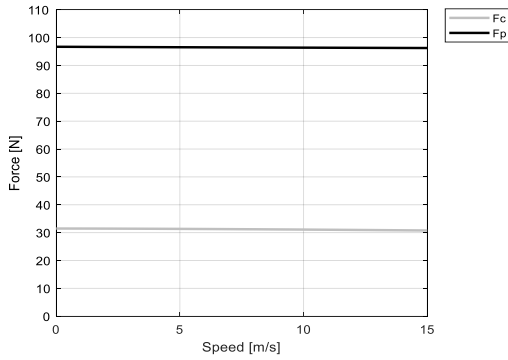
**NA - FREE AIR COOLING - 600V**



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