

MOTOR PERFORMANCE		Winding codes	RB	RB	UB	UB
		UNIT	FREE AIR COOLING	FORCED AIR COOLING	FREE AIR COOLING	FORCED AIR COOLING
<b>Fp</b>	Peak force	N	988	988	947	947
<b>Fc</b>	Continuous force	N	166	181	160	175
<b>Fs</b>	Standstill force	N	126	136	121	132
<b>Ip</b>	Peak current	Arms	35.1	35.1	72.7	72.7
<b>Ic</b>	Continuous current	Arms	5.79	6.30	12.1	13.2
<b>Is</b>	Standstill current	Arms	4.38	4.75	9.15	9.93
<b>vs</b>	Rated low speed	mm/s	0.70	1.3	0.72	1.4
<b>Pc</b>	Power dissipation @ Ic	W	145	169	143	168
<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	29.6	29.6	13.7	13.7
<b>Ku</b>	Back EMF constant (*)	Vrms/(m/s)	17.8	17.8	8.23	8.23
<b>Km</b>	Motor constant	N/√W	17.0	17.0	16.5	16.5
<b>R20</b>	Electrical resistance at 20°C (*)	Ohm	2.02	2.02	0.459	0.459
<b>L</b>	Electrical inductance (*)	mH	3.70	3.70	0.789	0.790
<b>rth</b>	Thermal time constant	s	911	477	884	460
<b>Rth</b>	Thermal resistance	K/W	0.759	0.646	0.766	0.650
<b>2tp</b>	Magnetic period	mm	64	64	64	64
<b>mw</b>	Magnetic way mass	kg/m	13.3	13.3	13.3	13.3
<b>mm</b>	Motor mass	kg	0.762	1.06	0.738	1.04

MOTOR ENVIRONMENT		UNIT				
<b>Udc</b>	Nominal DC bus voltage	VDC	600	600	600	600
<b>Ss</b>	Stator exchange surface	m²	0.13	0.13	0.13	0.13
<b>x</b>	Assumed stroke	m	0.63	0.63	0.63	0.63
<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.

