

MOTOR PERFORMANCE		Winding codes	RC	RC	UC	UC
		UNIT	FREE AIR COOLING	FORCED AIR COOLING	FREE AIR COOLING	FORCED AIR COOLING
<b>Fp</b>	Peak force	N	2360	2360	2260	2260
<b>Fc</b>	Continuous force	N	348	376	336	363
<b>Fs</b>	Standstill force	N	263	284	254	274
<b>Ip</b>	Peak current	Arms	52.4	52.4	109	109
<b>Ic</b>	Continuous current	Arms	7.65	8.24	16.0	17.2
<b>Is</b>	Standstill current	Arms	5.78	6.22	12.1	13.0
<b>vs</b>	Rated low speed	mm/s	0.50	0.98	0.51	1.0
<b>Pc</b>	Power dissipation @ Ic	W	230	265	229	264
<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	28.4	28.4	27.6	27.6
<b>R20</b>	Electrical resistance at 20°C (*)	Ohm	1.84	1.84	0.419	0.419
<b>L</b>	Electrical inductance (*)	mH	3.99	3.99	0.851	0.851
<b>rth</b>	Thermal time constant	s	1290	653	1260	629
<b>Rth</b>	Thermal resistance	K/W	0.477	0.413	0.480	0.415
<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	1.50	1.95	1.45	1.90

MOTOR ENVIRONMENT		UNIT				
<b>Udc</b>	Nominal DC bus voltage	VDC	600	600	600	600
<b>Ss</b>	Stator exchange surface	m²	0.24	0.24	0.24	0.24
<b>x</b>	Assumed stroke	m	0.89	0.89	0.89	0.89
<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	66	N/A	66
<b>Δpa</b>	Minimum inlet air gauge pressure	bar	N/A	0.9	N/A	0.9

**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.

