

| PERFORMANCE | | Winding codes | 3TA | 3TB |
|-------------|-----------------------------------|---------------|---------------------|---------------------|
| | | UNIT | FREE AIR CONVECTION | FREE AIR CONVECTION |
| Fp | Peak force | N | 1100 | 1100 |
| Fc | Continuous force | N | 336 | 336 |
| Fs | Stall force | N | 256 | 256 |
| Kt | Force constant | N/Arms | 90.1 | 45.1 |
| Ku | Back EMF constant (*) | Vrms/(m/s) | 52.1 | 26.0 |
| Km | Motor constant | N/√W | 32.5 | 32.5 |
| R20 | Electrical resistance at 20°C (*) | Ohm | 5.12 | 1.28 |
| L1 | Electrical inductance (*) | mH | 48.0 | 12.0 |
| Ip | Peak current | Arms | 20.2 | 40.5 |
| Ic | Continuous current | Arms | 3.85 | 7.70 |
| Is | Stall current | Arms | 2.92 | 5.83 |
| Pc | Max. continuous power dissipation | W | 163 | 163 |

| SPECIFICATIONS | | UNIT | | |
|----------------|-------------------------------------|------|-------|-------|
| Udc | Nominal input voltage | VDC | 600 | 600 |
| τth | Thermal time constant | s | 1270 | 1270 |
| Rth | Thermal resistance | K/W | 0.676 | 0.676 |
| 2τp | Magnetic period | mm | 32 | 32 |
| Mw | Magnetic way mass | kg/m | 3.61 | 3.61 |
| Mm | Motor mass (magnetic way excluded) | kg | 4.13 | 4.13 |
| Fa | Attraction force | N | 2400 | 2400 |
| Fd | Max. detent force (average to peak) | N | 8.1 | 8.1 |
| vs | Stall speed | mm/s | 0.25 | 0.25 |
| Gm | Mechanical gap | mm | 0.80 | 0.80 |

Notes: (*) terminal to terminal. Ambient temperature = 20 °C. Max. coil temperature = 130 °C.
 Hypothesis and tolerances are in ETEL's Handbook. Carriage's dissipation area is 0.11 m² and minimal stroke is 2 times the motor length.
 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.

