


| Application Profile for Permanent-magnet Servomotor or Torque Motor Inquiries | | | Follow us on LinkedIn: #funwithdrives | |  <small>ANTRIEBE für MEDIZINTECHNIK, FOOD & PHARMA und AUTOMATISIERUNG</small> | |
|---|--|--|--|--|--|--|
| <i>If fields cannot be filled in, please add "?" or "N/A"</i> | | | | | | |
| Performance and Connection Data | | | Ambient Conditions (during operation) | | Mechanical Specifications / Installation Space | |
| Voltage (e.g. 48V, 230V, 400V,...) [V] | | | Ambient Temperatur [°C] | | Do you have a STP file of the space? Attached No | |
| Rated current (if known, note the controller) [A] | | | rel. Humidity [%] | | Max Length of Motor | |
| Rated Torque [Nm] | | | Installation altitude [m over sea level] | | Max Diameter (or Edge Measurements) | |
| Max Current (if known, note the controller) [A] | | | | | Specifications for the Mounting Surface Attached No | |
| Max Torque [Nm] | | | Typical Values: | | Motor Shaft Diameter | |
| Time at which maximum torque is applied [s] | | | -20°C - 40°C; 20-75%; <1000 m over sea level | | Length of Motor Shaft | |
| Rated Speed [rpm] | | | Comments: | | Keyway | |
| Max Speed [rpm] | | | | | Ext. Radial/Axial Force on Motor Shaft [N] | |
| Torque at Max Speed [Nm] | | | | | Stainless Steel requirements? Y N | |
| Max allowable Cogging Torque [% of rated Speed] | | | | | Hygienic Design requirements? Y N | |
| Duty Cycle (e.g. S1=Continuous Duty, S3=60%, ...) | | | | | Comments: | |
| Is a speed vs. torque motor profile available? Attached No | | | | | | |
| Comments: | | | | | | |
| | | | | | | |
| Braking System | | | Feedback System | | Certifications / Approvals / Conformities | |
| Number of Brakes (Is redundancy required?) | | | Type of feedback system (e.g. sensorless, Hall sensors, resolver, encoder) | | CSA/UL approval / certificate Y N | |
| Is the Type of Brake relevant? (spring-applied brake, PM brake, other) | | | Resolution [Bits] (e.g. 12Bit, 16Bit, 25Bit, ...) | | Conformity to 2011/65/EU & 2015/863/EU (RoHS3) Y N | |
| Min. static Torque [Nm] | | | System Accuracy [arcsec, arcmin, degrees] | | Conformity to 2013/35/EU (static magnetic fields; relevant for integrated brakes!) Y N | |
| Max. dynamic Torque [Nm] | | | Single-turn or Multi-turn (if Feedback) | | CCC approval / certificate Y N | |
| Brake Voltage [V] | | | Protocol? (e.g. HTL, TTL, EnDat, Hiperface, DRIVE-CLiQ) | | Comments: | |
| Brake Connection (Connector, separate?) | | | Safety- Requirements (e.g. SIL2) | | | |
| Comments: | | | Comments: | | | |
| | | | | | | |
| Temperature Monitoring of the Motor | | | Additional Motor Properties | | Additional Space for Comments | |
| Temperature Monitoring? Y N | | | Ingress Protection (e.g. IP54, IP65, IP69K) | | | |
| Temperature Sensor (e.g. PT1000, PTC, etc.) | | | Noise emission (e.g. < 55 dB(A)) | | | |
| Connection (via encoder cable, power connector, ...) | | | Cable Glands or Connectors | | | |
| Comments: | | | Max allowable Housing Temperature (e.g. <60°C, <70°C, <120°C...) | | | |
| | | | Class of Insulation required (e.g. ISO F, H, ...) | | | |
| | | | Comments: | | | |