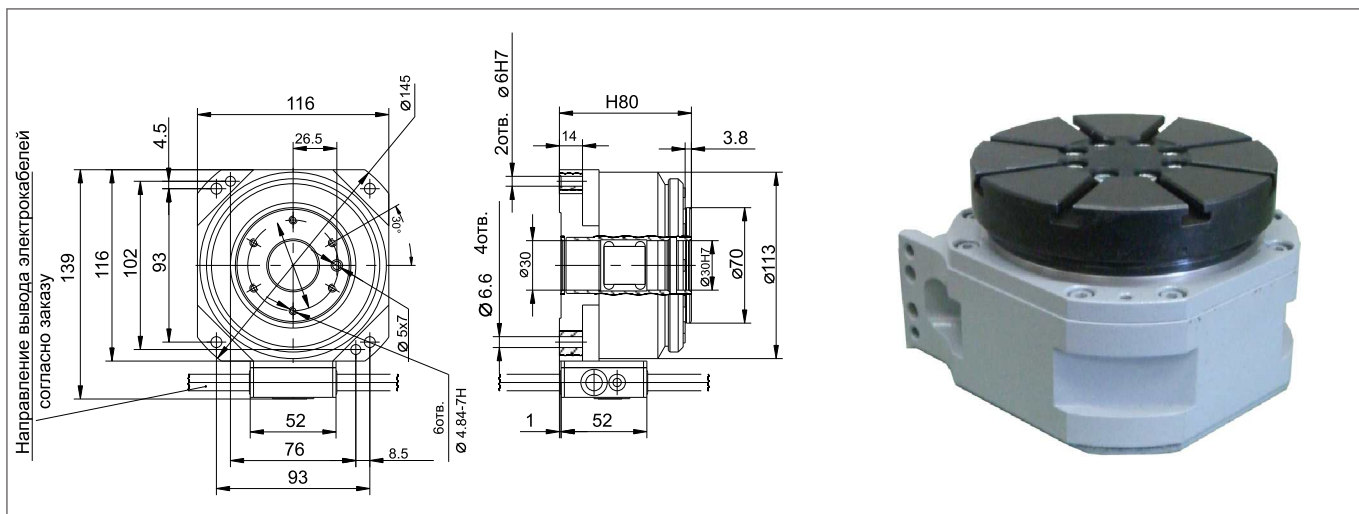


TORQUE TABLES series RSM-T-24



The drawing and photo of torque motor RSM-T-24-62x25-C

Description:

Torque table series RSM-T-24 consist of torque synchronous motor series RSM-24 with built-in radial-axial (thrust) bearing, incremental sensor. Torque motor consist of a fixed primary coil unit (stator or primary part) and rotated magnet ring (rotor or secondary part). Torque motors consist of a fixed primary coil unit (stator or primary part) and rotate magnet ring (rotor or secondary part). The stator is composed of a coil unit that is encapsulated in thermally conductive epoxy. The rotor consists of steel ring with glued permanent magnets.

The smoothness of movement is achieved by sinusoidal commutation of currents in the coils.

Advantages:

1. Absence of mechanical transmissions.
2. High precision, repeatability and resolution
3. No backlash.
4. Smooth movement
5. Low profile, hollow shaft.

Name			RSM-T-24-62*25-GS/GT
Continuous moment at convection cooling	Ma	Nm	3.5
Peak torque	Mp	Nm	9.9
Peak current, (coil at 20 °C)	Ip	Arms	15/26
Moment of inertia of rotated parts	Jr	kgm ²	0.001
Continuous current at Ma (coil 120°C)	Ia	Arms	4.9/8.7
Maximum velocity at Mp and 540 VDC	np	rpm	613/800
Number of poles par	P		8
Electrical resistance/phase at 20°C	RpH	Ohm	1.3/0.4
Electrical inductance/phase	LpH	mH	6.6/2.2
Axial/radial run out	micron		15/30
Position accuracy	(arc. sec)		±30
Maximal user payload	mu	kg	80

Notes:

1. Peak current Ip is create peak torque Mp (2...3sec).
2. Air gap between stator and rotor must be maintained according to the specified dimension tolerances.
3. Maximal temperature of rotor should be less than 70°C.
The stator has built-in thermal sensor threshold type on temp 120 °C.
4. Maximal permissible voltage 600 VDS.