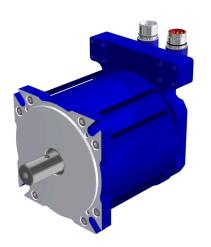


HDD 14Q - Data sheet

Electric data

Value	Unit	Winding
		Pa (400VAC)
Number of poles		20
Number of pole pairs		10
Inductance/Phase	mH	1.33
Resistance/Phase	Ohm	0.19
Resistance/Phase-Phase	Ohm	0.38
Back EMF/Phase-Phase RMS	Vs/rad	0.76
Back EMF @ 1000 rpm	V	80
Torque constant (RMS)	Nm/A	1.32
Max rail voltage	V	750
Recommended peak current	Α	54
Torque at recommended peak current	Nm	72



Mechanical data (resolver feedback) Holding brake

Value	Unit	HDD14Q		
		no brake	brake	
J	kgcm2	51.6	52.0	
Mass	kg	12.6	13.1	

Value	Unit	
Torque	Nm	9
J	kgcm2	0.4
Voltage	V DC	24
Power	W	12

Thermistors

Overheat protection consists of triple PTC thermistors. One on each phase.				
R @ 25 C	100 to 350 Ohm			
R @ 145 C	< 1650 Ohm			
R @ 155 C	> 4 kOhm			

Protection class

HDD motors comply with the requirements for IP 65. IP-67 is available on request.

Insulation class

The insulation system complies with the requirements of EEC LV Directive 73/23/EEC and 93/68/EEC. Test report E9911111E01.

Motor name structure

Туре	Flange size	Stator length	Winding	Feedback	Power connector	Brake	Shaft key	Options
HDD	14	Q	-Pa	-A	-A	-A	-A	-AAA

HDD = shaft motor, ICM = internal coupling motor. Type

Approximate in cm. 14 = 140 mm. Flange size

Stator length HDD: J(shortest), N, Q, R (longest), ICM: J (shortest), N (longest).

Winding Suitable rail voltage at 3000 rpm.

> Pa 560V

Feedback See the feedback list on www.hddservo.com/product-options/

Power connector Many different pinouts available; see www.hddservo.com/product-options/

Brake A = no brake, D = holding brake. Data see above.

Shaft key A = shaft with key, B = shaft without key.

Options AAA = standard. For other options please contact HDD.

Torque

Torque in Nm at 90°C temp rise (median temp rise, i.e. average between min and max temp for 25% cycle).

Duty cycle	100%	25%
100rpm	24	48
1000rpm	21	41
2000rpm	16	31
3000rpm	12	24

Current

Current at 90°C temp rise, in Ampere rms.

Winding	Pa		
Duty cycle	100% 25%		
100rpm	18	36	
1000rpm	16	31	
2000rpm	12	24	
3000rpm	9	19	

