

Direct Current Motor DCX16S



The advantages :
Servo motor - Exceptional power/dimensions ratio. The DCX range is completely configurable online at <http://dcx.maxonmotor.com>

Associated products :

> **Power supply**
DR-120-24
DR-30-12 / 24
DR-60-24
DRP-240-24
DRP-480S-24
RS-100-24
RS-150-24
RS-75-24
SP-320-24

> **Controller**
EPOS4 50/5
EPOS4 70/15
ESCON 50/5
ESCON 70/10
ESCON DC 36/2

maxon motor

5 W - 10 W

Power supply voltage (Ua)	V	24
Speed at current I _n	tr/mn	9485
Torque at current I _n	mNm	5.43
Max. permanent current (I _n)	mA	321
Ua no-load speed +/- 10%	tr/mn	12700
No-load current +/- 50%	mA	16.8
Ua stall torque	mNm	21.7
Ua stall current	mA	1220
Torque constant	mNm/A	17.8
Speed constant	tr/mn/V	536
Speed/torque gradient	tr/mn/mN	592
Limit speed	tr/mn	17000
Max. Ua operating power output	W	7.2
Maximum efficiency	%	78.5
Electromechanical time constant	ms	6.12
Inertia	gcm ²	1.02
Resistance across terminals	Ohm	19.7
Inductance	mH	0.569
Ambient/Housing thermal	K/W	23.5
Rotor/Housing thermal resistance	K/W	9.9

Commutation	Graphite
Number of commutator segments	7
Bearings	Bearings
Maximum axial load (dynamic)	0.8 N
Minimum axial play	0 mm
Maximum axial play	0.07 mm
Maximum radial load	10 N
Radial play	0.015 mm
Maximum slip force (static)	18 N
Min ambient operating temperature	-40 °C
Max ambient operating temperature	100 °C
Max rotor temperature	125 °C
Weight	25 g

