

Direct Current Motor DCX22S



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

Associated products :

> **Encoder**
HEDL 5540
HEDS 5540
> **Power supply**
DR-120-24
DR-60-24
DRP-240-24
DRP-480S-24
RS-100-24
RS-150-24
RS-75-24
SP-320-24

> **Controller**
EPOS2 24/5
ESCON DC 36/2

maxon motor

4 W - 28 W

Power supply voltage (Ua)	V	12	24
Speed at current In	tr/mn	2453	6520
Torque at current In	mNm	14.8	14.8
Max. permanent current (In)	mA	552	552
Ua no-load speed +/- 10%	tr/mn	4067	8133
No-load current +/- 50%	mA	23.4	23.4
Ua stall torque	mNm	37.7	75.3
Ua stall current	mA	1343	2.7
Torque constant	mNm/A	28	28
Speed constant	tr/mn/V	342	342
Speed/torque gradient	tr/mn/mN	109	109
Limit speed	tr/mn	18000	18000
Max. Ua operating power output	W	4.0	16.0
Maximum efficiency	%	84.9	84.9
Electromechanical time constant	ms	6.22	6.22
Inertia	gcm ²	5.44	5.44
Resistance across terminals	Ohm	8.94	8.94
Inductance	mH	0.535	0.535
Ambient/Housing thermal	K/W	16	16
Rotor/Housing thermal resistance	K/W	7	7

Commutation	Graphite
Bearings	Bearings
Maximum axial load (dynamic)	2.5 N
Minimum axial play	0 mm
Maximum axial play	0.1 mm
Maximum radial load	16 N
Radial play	0.02 mm
Maximum slip force (static)	30 N
Min ambient operating temperature	-40 °C
Max ambient operating temperature	100 °C
Max rotor temperature	125 °C
Weight	75 g

