

## Direct Current Motor DCX22LG



**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  
 RS-100-24  
 RS-75-24
- > **Controller**  
 EPOS2 50/5  
 EPOS2P 24/5  
 ESCON DC 36/2  
 FIRST-DC-1Q 50/5  
 NANO DC 1Q 30/3

### maxon motor

29 W - 59 W

Power supply voltage (Ua)	V	12	24
Speed at current In	tr/mn	10669	8924
Torque at current In	mNm	30.5	31.5
Max. permanent current (In)	mA	3211	1400
Ua no-load speed +/- 10%	tr/mn	11700	9970
No-load current +/- 50%	mA	81.8	31.8
Ua stall torque	mNm	348	301
Ua stall current	mA	35800	13100
Torque constant	mNm/A	9.73	22.9
Speed constant	tr/mn/V	981	416
Speed/torque gradient	tr/mn/mN	33.8	33.2
Limit speed	tr/mn	18000	18000
Max. Ua operating power output	W	107	78.6
Maximum efficiency	%	90.6	90.5
Electromechanical time constant	ms	3.21	3.13
Inertia	gcm <sup>2</sup>	9.06	9
Resistance across terminals	Ohm	0.335	1.83
Inductance	mH	0.0346	0.192
Ambient/Housing thermal	K/W	13.6	13.6
Rotor/Housing thermal resistance	K/W	4.57	4.57

Commutation	Graphite
Number of commutator segments	9
Bearings	Bearings
Magnets	NdFeB
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	105 g

