

Direct Current Motor
DCX22L CLL



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

Associated products :

- > Connector
RALLONGE CODEUR
- > Encoder
HEDL 5540
HEDS 5540
- > Power supply
DR-30-12 / 24
- > Controller
EPOS2 24/5
EPOS2 70/10
ESCON 50/5
ESCON 70/10
ESCON DC 36/2

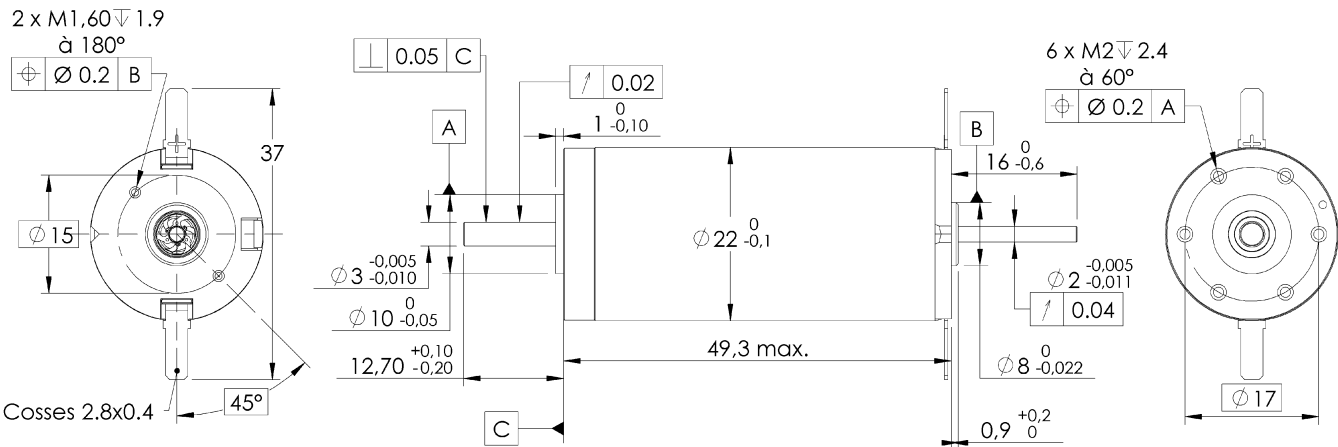
maxon motor

12 W - 22 W

Power supply voltage (Ua)	V	12	24
Speed at current In	tr/mn	3994	4070
Torque at current In	mNm	29.6	29.2
Max. permanent current (In)	mA	1311	656
Ua no-load speed +/- 10%	tr/mn	4980	5060
No-load current +/- 50%	mA	20	10.2
Ua stall torque	mNm	150	150
Ua stall current	mA	6540	3310
Torque constant	mNm/A	22.9	45.2
Speed constant	tr/mn/V	416	211
Speed/torque gradient	tr/mn/mN	33.3	33.9
Limit speed	tr/mn	7160	7160
Max. Ua operating power output	W	19.5	19.9
Maximum efficiency	%	89.4	89.3
Electromechanical time constant	ms	3.14	3.14
Inertia	gcm ²	9	8.85
Resistance across terminals	Ohm	1.84	7.25
Inductance	mH	0.192	746
Ambient/Housing thermal	K/W	13.6	13.6
Rotor/Housing thermal resistance	K/W	4.57	4.57

Commutation	Métaux précieux
Number of commutator segments	9
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	-30 °C
Max ambient operating temperature	85 °C
Max rotor temperature	100 °C
Weight	100 g

Edition September 2020 / subject to modification



Version of 18/09/2020