

Direct Current Motor

1.13.044.4xx



The advantages :
Industrial drive motor,
Ideal for start/stop applications and
direction of rotation reversal.

Associated products :

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

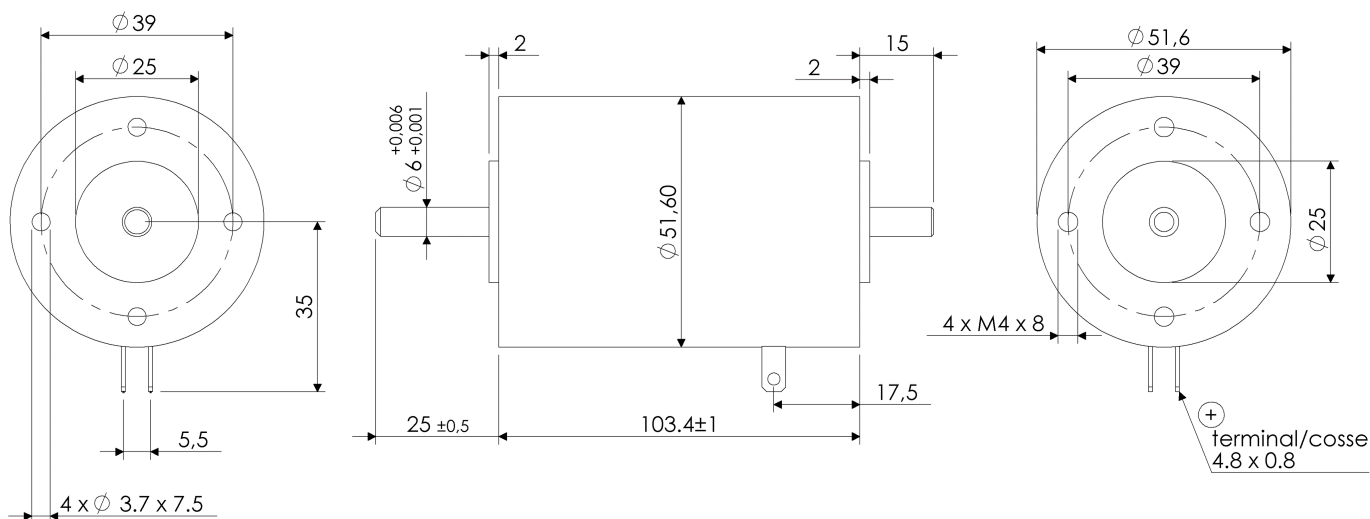
> **Controller**
ESCON 50/5

buehler

58 W - 85 W

Power supply voltage (Ua)	V	12	24
Speed at current In	tr/mn	3054	3062
Torque at current In	mNm	180	180
Max. permanent current (In)	mA	7300	3500
Ua no-load speed +/- 10%	tr/mn	3900	3800
No-load current +/- 50%	mA	400	200
Ua stall torque	mNm	840	940
Ua stall current	mA	31000	16000
Torque constant	mNm/A	27	57
Speed/torque gradient	tr/mn/mN	4.7	4.1
Limit speed	tr/mn	3900	4500
Max. Ua operating power output	W	85.8	93.5
Electromechanical time constant	ms	13	13
Inertia	gcm ²	250	250
Resistance across terminals	Ohm	0.40	1.4
Ambient/Housing thermal	K/W	3.5	3.5
Rotor/Housing thermal resistance	K/W	4	4

Commutation	Graphite
Number of commutator segments	12
Bearings	ball bearings
Magnets	Ferrite
Maximum axial load (dynamic)	30 N
Minimum axial play	0.01 mm
Maximum axial play	0.01 mm
Maximum radial load	120 N
at a distance from the face of:	15 mm
Min ambient operating temperature	-10 °C
Max ambient operating temperature	+70 °C
Weight	940 g



Edition: Juli 2022 / subject to modification

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