



MACK TRON 2

MKT2 B 80

INTEGRATED BRUSHLESS SERVOMOTOR



CANopen
EtherCAT

Modbus-RTU - RS485

48
VDC

1,2 / 3,5 pk
Nm

P.N.: D.S. / 19.05.25 / MKT2B80 / 02

MODEL		MKT2 B 80
SIZE		M
M1	Torque at 100Rpm (TA=40°C)	1.2 Nm
Mpk	Peak Torque	3.5 Nm
Power Supply		*48 Vdc
Brake Supply (only with brake presence)		24 Vdc (-0 + 5%) - 0,6A
Battery Supply (for absolute multiturn encoder)		3.6 ÷ 5 Vdc - 10µA
WINDING CODE		P32
Nn	Rated Speed at 48Vdc Power Supply	3000 Rpm
J	Rotor Inertia Kgm ² ·10 ⁻⁴	1.0 - (1.2 with brake)
Brake	stall Torque Nm	4.5
W	weight kg	2.9 - (3.5 with brake)
Max radial force in middle shaft at 3000Rpm N		438 - (475 with brake)

* 24Vdc Power Supply permitted with speed derating: contact Axor for details.

STANDARD FEATURES

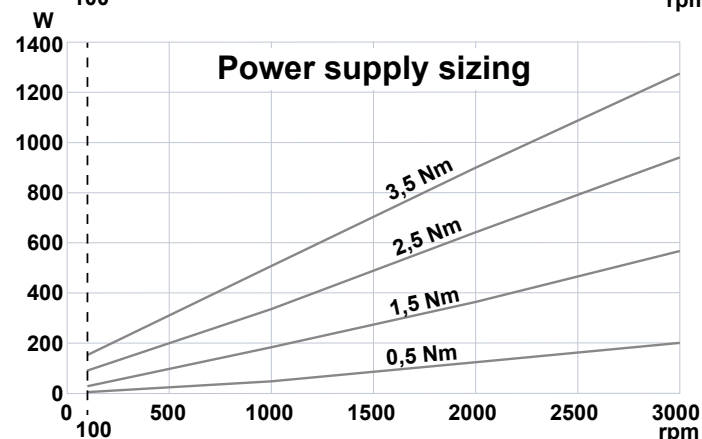
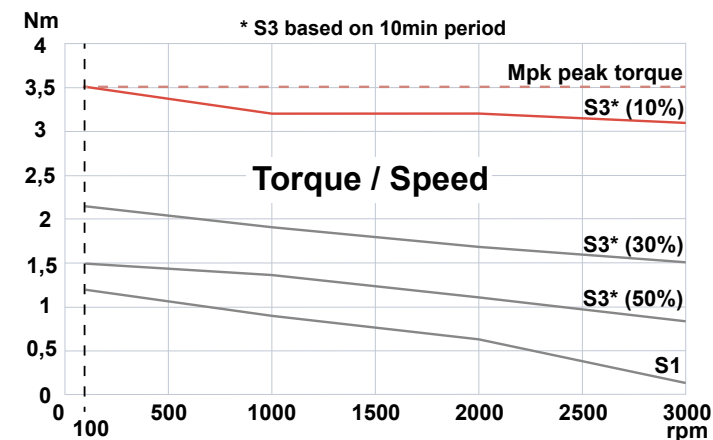
- ♦ Motor with 8 poles sinusoidal B.E.M.F. and waveform current
- ♦ EI1 Single-turn absolute Encoder feedback (14 bit)
- ♦ CB Can BUS control mode
- ♦ Device status notification with bicolor LED
- ♦ Speeder-One.2® software interface
- ♦ Modbus RTU RS485 for setting, monitoring and positioning
- ♦ Ambient temp.¹: - operating at rated data: 0°C / + 40°C (no derating)
- storage - 20 °C / + 55°C
- ♦ Ambient Humidity¹: - operating & storage 85% RH max
- ♦ Altitude (a.m.s.l.): - operating & storage 1000m
- ♦ Protection rating:..... IP54
- ♦ Storage time:..... 1 year ²

¹ Free from condensation

² After one year storage the electrolytic capacitors must be reformed. Contact AXOR for details.

OPTIONS

- ♦ EA1 Multi-turn absolute Encoder (14+12 bit)
- ♦ EC EtherCAT control mode
- ♦ STO Safe Torque Off safety function
- ♦ SBC Safe Brake Control safety function (with holding brake only)
- ♦ AT Analog throttle speed/torque control
- ♦ Holding brake
- ♦ LS limit switch input
- ♦ IP65 Class Protection



PERFORMANCES AND TEST CONDITIONS:

- 1) Ambient temperature Ta 40°C
- 2) Power supply 48Vdc
- 3) 10m of MKTC cable
- 4) Motor thermally insulated.
- 5) Motor w/out holding brake
(with holding brake performances are reduced: contact Axor)

CABLE SPEC.

- ♦ Mobile usage for chain tracks, flame / oil resistance
- ♦ External sheating: Vinylflex - PVC
- ♦ Cycles: 5 million
- ♦ Minimum bending radius: 60mm static - 120mm dynamic
- ♦ Operating temperature: -20°C / +80°C (dynamic)
- ♦ Trail speed: 300m / min. max - Acceleration: 20m / sec²
- ♦ DIN VDE



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M8	DATA	WIRE	SIZE (AWG)	RJ45
1	Tx+	White-Orange	24	1
2	Rx+	White-Green	24	3
3	Rx-	Green	24	6
4	Tx-	Orange	24	2
Housing	Ext. Shield	-	-	Housing

