



# MACK TRON 2<sup>®</sup> B 42 INTEGRATED SERVOMOTOR



**CANopen<sup>®</sup>**  
Modbus-RTU  
(RS 485 RTU)

**48 Vdc** **0.18-0.5 pk Nm**

## MACK TECHNOLOGY: MACK TRON 2 B 42 (MKT2B42)



### Brushless Servo Motor with Integrated Drive

MackTron2B42 is a servo motor with an integrated drive, powered by 48V DC, featuring a nominal torque M1 of 0.18 Nm and a peak torque of 0.5 Nm. It stands out for its simple and fast wiring, as well as for its high performance packed into an extremely compact size.

MackTron2B42 is the ideal solution for decentralized architecture applications, significantly reducing the footprint inside the electrical cabinet or even allowing its complete elimination.

#### STANDARD FEATURES

- ♦ 8 Poles
- ♦ Sinusoidal B.E.M.F. and current
- ♦ Feedback via EI1 single-turn absolute encoder (14-bit resolution)
- ♦ CB control mode via opto-isolated CAN BUS
- ♦ Device status indication via bi-color LED
- ♦ Speeder-One.2<sup>®</sup> software interface
- ♦ Modbus RTU RS485 protocol for configuration, monitoring, and positioning
- ♦ Ambient temperature<sup>1</sup>:
  - Operating at nominal data: 0°C to +40°C (no derating)
  - Storage: –20°C to +55°C
- ♦ Ambient humidity<sup>1</sup>: Operating and storage: max 85% RH
- ♦ Altitude (above sea level): Operating and storage: up to 1000 m
- ♦ Protection rating: IP54
- ♦ Maximum storage time: 1 year<sup>2</sup>

<sup>1</sup> Free from condensation

<sup>2</sup> After one year storage the electrolytic capacitors must be reformed. Contact Axor for details.

#### OPERATING MODES

- ♦ CANopen
- ♦ Modbus-RTU-RS485

#### SINGLE HYBRID CABLE

- ♦ Power supply and signals in a single cable
- ♦ Mobile usage for chain track, flame / oil resistant
- ♦ Outer sheath: Vinylflex – PVC
- ♦ Service life: 5 million cycles
- ♦ Minimum bending radius:
  - Static: 60 mm
  - Dynamic: 120 mm
- ♦ Operating temperature (dynamic): –20°C to +80°C
- ♦ Drag speed: up to 300 m/min
- ♦ Acceleration: up to 20 m/s<sup>2</sup>

♦      DIN VDE

MODEL	MKT2B42
SIZE	L
M1 Torque at 100Rpm (TA=40°C)	0.18 Nm
Mpk Peak Torque	0.5 Nm
Power Supply	48 Vdc
	24 VDC Allowed with Reduced Nominal Speed
Winding Code	F42
N <sub>n</sub> Rated Speed at 48 VDC	6000 Rpm



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Simplified wiring with a single hybrid cable: Power, safety, signal transmission, and Modbus RTU via RS485 - All in one

Holding brake available

Bi-colour status and diagnostic LED



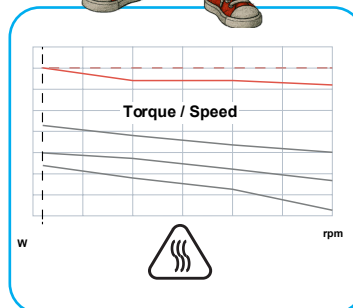
Digital inputs management (limit switch)

Connector orientation front/rear

Mobile cable usage in Vinyl flex - PVC



High Energy Efficiency Product



Torque curves



Interface software Included



Single hybrid cable



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