

MOTION CONNECT 500

MLFB-Ordering data

6FX5002-5DG31-1FA0



Figure similar

Client order no. :

Order no. :

Offer no. :

Remarks :

Item no. :

Consignment no. :

Project :

Electrical data

No. of cores x cross-section mm ²	4x2.5 + 2x1.5C C
Test voltage, rms Power conductors	4.0 kV
Test voltage, rms Signal conductors	2.0 kV
Type with braking lead	Yes
Rated voltage V0/V according to EN 50395	600 V/1000 V

Mechanical data

Type of connection cable engine side	Conector full thread
Connector size	1.5 / M40
Type of bolting	not relevant
Type of connection cable converter side	Open end of lead
Maximum cable outer diameter	12.4 mm
Length	50.0 m
Weight (without connector)	12.5 kg

Static deployment

Smallest bending radius (fixed installation)	31.0 mm
Tensile load for permanently installed cable, max.	50 N/mm ² (7252 lbf/in ²)
Torsional stress	Absolute 30°/m

Dynamic deployment

Smallest bending radius(flexible installation in a cable carriers)	225.0 mm
Acceleration horizontal, max	2 m/s ²
Maximum traversing velocity	30 m/min
Travel path	5 m
Number of bends, max.	100,000
Tensile load for moving cable, max.	20 N/mm ² (2901 lbf/in ²)



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Technical data

Ambient temperature

Operation with permanently installed cable	-20 ... 80 °C
	Module-end power connector 0 ... 55°C
Operation with moving cable	0 ... 60 °C
	Motor-end power connector 0 ... 55°C
Storage	-20 ... 80 °C
	Module-end power connector -20 ... 70°C
Kind of connection cable	Basis cable
Material of the cable sheath	PVC DESINA color orange RAL 2003
Type of insulation	CFC/silicone-free
Standard for behavior in fire: flame resistance	EN 60332-1-1 to 1-3
Oil resistance	EN 60811-2-1 (mineral oil only)
Verification of suitability as authorisation for USA	UL758
Verification of suitability as authorisation for Canada	CSA-C22.2-N.210.2-M90