

MOTION CONNECT 500

MLFB-Ordering data

6FX5002-2CA31-1AC0



Figure similar

Client order no. :  
Order no. :  
Offer no. :  
Remarks :

Item no. :  
Consignment no. :  
Project :

Electrical data

|                                                                 |                                                               |
|-----------------------------------------------------------------|---------------------------------------------------------------|
| Design of the sensor                                            | Incremental encoder sin/cos 1 Vpp 2048 S/R, mit C- und D-Spur |
| Test voltage, rms Signal conductors                             | 500 V                                                         |
| Rated voltage U0/U in accordance with EN 50395 Power conductors | 30 V                                                          |

Mechanical data

|                                                 |                 |
|-------------------------------------------------|-----------------|
| Type of connection cable engine side            | M23 full thread |
| Type of connection cable converter side         | SUB-D           |
| Maximum cable outer diameter                    | 9.8 mm          |
| Smallest bending radius (fixed installation)    | 60 mm           |
| Smallest bending radius (flexible installation) | 100 mm          |
| Number of bends, max.                           | 2,000,000       |
| Maximum traversing velocity                     | 180 m/min       |
| Acceleration horizontal, max                    | 5 m/s²          |
| Tensile stress, max. Fixed installation         | 50 N/mm²        |
| Tensile stress, max. Flexible installation      | 20 N/mm²        |
| Torsional stress                                | Absolute 30°/m  |
| Length                                          | 2.0 m           |



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Technical data

Ambient temperature

|                                            |               |
|--------------------------------------------|---------------|
| Operation with permanently installed cable | -20 ... 80 °C |
| Operation with moving cable                | 0 ... 60 °C   |
| Storage                                    | -20 ... 80 °C |

|                                                         |                                 |
|---------------------------------------------------------|---------------------------------|
| Kind of connection cable                                | Basis cable                     |
| Material of the cable sheath                            | PVC DESINA-Color green RAL 6018 |
| Type of insulation                                      | Without CFC and silicone        |
| 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, cURus with AWM-Style     |
| Verification of suitability as authorisation for Canada | CSA-C22.2-N.210.2-M90           |