

MOTION CONNECT 800PLUS

MLFB-Ordering data

6FX8002-2CA31-1AE0



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 pulses/rev with C and D track |
| 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)    | 4 x Dmax        |
| Smallest bending radius (flexible installation) | 70 mm           |
| Number of bends, max.                           | 10,000,000      |
| Maximum traversing velocity                     | 300 m/min       |
| Acceleration horizontal, max                    | 50 m/s²         |
| Tensile stress, max. Fixed installation         | 50 N/mm²        |
| Tensile stress, max. Flexible installation      | 20 N/mm²        |
| Torsional stress                                | Absolute 30°/m  |
| Length                                          | 4.0 m           |



Figure similar

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Technical data

Ambient temperature

|                                            |                                                                                   |
|--------------------------------------------|-----------------------------------------------------------------------------------|
| Operation with permanently installed cable | -50 ... 80 °C                                                                     |
|                                            | Module-end power connector -40°C ... 80°C, Motor-end power connector -20 ... 80°C |
| Operation with moving cable                | -20 ... 60 °C                                                                     |
| Storage                                    | -20 ... 80 °C                                                                     |
|                                            | Module-end power connector -40°C ... 80°C, Motor-end power connector -20 ... 80°C |

|                                                         |                                                                 |
|---------------------------------------------------------|-----------------------------------------------------------------|
| Kind of connection cable                                | Basis cable                                                     |
| Material of the cable sheath                            | PUR, HD22.10 S2 (VDE 0282, part 10) DESINA-color green RAL 6018 |
| Type of insulation                                      | Without CFC and silicone IEC 60754-1/DIN VDE 0472-815           |
| Standard for behavior in fire: flame resistance         | EN 60332-1-1 to 1-3                                             |
| Oil resistance                                          | EN 60811-2-1                                                    |
| 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                                           |