

MOTION CONNECT 500

Article No. : 6FX5002-5DG31-1CA0  
«l2\_MC\_Artikel\_Nr»



Figure similar  
«l2\_MC\_Abbildung»

|                                               |         |                                                  |         |
|-----------------------------------------------|---------|--------------------------------------------------|---------|
| Client order no. :<br>«l2_SD_label_KAUFRAGNR» | «l2_LZ» | Item no. :<br>«l2_SD_label_ITEMNR»               | «l2_LZ» |
| Order no. :<br>«l2_SD_label_SAUFRAGNR»        | «l2_LZ» | Consignment no. :<br>«l2_SD_label_KOMMISSIONSNR» | «l2_LZ» |
| Offer no. :<br>«l2_SD_label_ANGEBOT»          | «l2_LZ» | Project :<br>«l2_SD_label_PROJEKT»               | «l2_LZ» |
| Remarks :<br>«l2_SD_label_BEMERKUNG»          | «l2_LZ» |                                                  |         |

| Electrical data<br>«l2_electricdata»                                             |                        |
|----------------------------------------------------------------------------------|------------------------|
| No. of cores x cross-section mm²<br>«l2_MC_Anzahl_Adern_Querschnitt»             | 4x2.5 + 2x1.5C C       |
| Test voltage, rms Power conductors<br>«l2_MC_Pruefspannung_Versorgungsadern_Eff» | 4.0 kV                 |
| Test voltage, rms Signal conductors<br>«l2_MC_label_Anschluss_Haltebremse»       | 2.0 kV                 |
| Type with braking lead<br>«l2_MC_label_Anschluss_Haltebremse»                    | Yes<br>«l2_PMD_ABY153» |
| Rated voltage V0/V according to EN 50395<br>«l2_MC_label_Anschluss_Haltebremse»  | 600 V/1000 V           |

| Mechanical data<br>«l2_mechanicalData»                                                      |                                         |
|---------------------------------------------------------------------------------------------|-----------------------------------------|
| Type of connection cable engine side<br>«l2_MC_Minimaler_Biegeradius_fester_Verle»          | Conector full thread<br>«l2_PMD_ABY153» |
| Connector size<br>«l2_PMD_ABY155_001_000»                                                   | 1.5 / M40<br>«l2_PMD_ABY155»            |
| Type of bolting<br>«l2_MC_Anzahl_Biegungen_max»                                             | not relevant<br>«l2_PMD_ABY155»         |
| Type of connection cable converter side<br>«l2_PMD_ACB333_001_000»                          | Open end of lead<br>«l2_PMD_ABY155»     |
| Maximum cable outer diameter<br>«l2_PMD_ACB334_001_000»                                     | 12.4 mm                                 |
| Length<br>«l2_MC_Torsionsbelastung»                                                         | 20.0 m                                  |
| Weight (without connector)<br>«l2_ENC_anschlusstyp»                                         | 5.0 kg                                  |
| Static deployment<br>«l2_ENC_anschlusstyp»                                                  |                                         |
| Smallest bending radius (fixed installation)<br>«l2_ENC_anschlusstyp»                       | 31.0 mm                                 |
| Tensile load for permanently installed cable, max.<br>«l2_ENC_anschlusstyp»                 | 50 N/mm² (7252 lbf/in²)                 |
| Torsional stress<br>«l2_ENC_anschlusstyp»                                                   | Absolute 30°/m<br>«l2_PMD_ABY153»       |
| Dynamic deployment<br>«l2_ENC_anschlusstyp»                                                 |                                         |
| Smallest bending radius(flexible installation in a cable carriers)<br>«l2_ENC_anschlusstyp» | 225.0 mm                                |
| Acceleration horizontal, max<br>«l2_ENC_anschlusstyp»                                       | 2.0 m/s²                                |
| Maximum traversing velocity<br>«l2_ENC_anschlusstyp»                                        | 30.0 m/min                              |
| Travel path<br>«l2_ENC_anschlusstyp»                                                        | 5 m                                     |
| Number of bends, max.<br>«l2_ENC_anschlusstyp»                                              | 100,000                                 |
| Tensile load for moving cable, max.<br>«l2_ENC_anschlusstyp»                                | 20 N/mm² (2901 lbf/in²)                 |

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«I2\_MC\_Artikel\_Nr»

| Technical data                                          |                                         |
|---------------------------------------------------------|-----------------------------------------|
| «I2_technicaldata»                                      |                                         |
| Ambient temperature                                     |                                         |
| «I2_h_umgebung_umgebungtemp»                            |                                         |
| Operation with permanently installed cable              | -20.0 ... 80.0 °C                       |
| «I2_MC_Betrieb_feste_Leitung»                           | Module-end power connector 0 ... 55°C   |
|                                                         | «I2_PMD_ABY148»                         |
| Operation with moving cable                             | 0.0 ... 60.0 °C                         |
| «I2_MC_Betrieb_feste_Leitung»                           | Module-end power connector 0 ... 55°C   |
|                                                         | «I2_PMD_ABY148»                         |
| Storage                                                 | -20.0 ... 80.0 °C                       |
| «I2_MC_Betrieb_feste_Leitung»                           | Module-end power connector -20 ... 70°C |
|                                                         | «I2_PMD_ABY148»                         |
| Kind of connection cable                                | Basis cable                             |
| «I2_MC_Art_Leitung»                                     | «I2_PMD_ABY148»                         |
| Material of the cable sheath                            | PVC DESINA color orange RAL 2003        |
| «I2_MC_Material_Kabelmantel»                            | «I2_PMD_AAC618»                         |
| Type of insulation                                      | CFC/silicone-free                       |
| «I2_MC_Art_Isolierung»                                  | «I2_UI_AAB047»                          |
| Standard for behavior in fire: flame resistance         | EN 60332-1-1 to 1-3                     |
| «I2_MC_Norm_Brandverhalten_Flammwidrigkei»              | «I2_PMD_ABT887»                         |
| Oil resistance                                          | EN 60811-2-1 (mineral oil only)         |
| «I2_MC_Oelbestaendigkeit_Kabel»                         | «I2_PMD_ACB330»                         |
| Verification of suitability as authorisation for USA    | UL758                                   |
| «I2_MC_Eignungsnachweis_CE»                             |                                         |
| Verification of suitability as authorisation for Canada | CSA-C22.2-N.210.2-M90                   |
| «I2_MC_Eignungsnachweis_UL»                             |                                         |

MOTION CONNECT 500

MLFB-Ordering data

6FX5002-5DG31-1CA0



Figure similar

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

Item no. :  
Consignment no. :  
Project :

Electrical data

|                                          |                  |
|------------------------------------------|------------------|
| No. of cores x cross-section mm²         | 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                                  | 20.0 m               |
| Weight (without connector)              | 5.0 kg               |

Static deployment

|                                                    |                         |
|----------------------------------------------------|-------------------------|
| Smallest bending radius (fixed installation)       | 31.0 mm                 |
| Tensile load for permanently installed cable, max. | 50 N/mm² (7252 lbf/in²) |
| Torsional stress                                   | Absolute 30°/m          |

Dynamic deployment

|                                                                    |                         |
|--------------------------------------------------------------------|-------------------------|
| Smallest bending radius(flexible installation in a cable carriers) | 225.0 mm                |
| Acceleration horizontal, max                                       | 2 m/s²                  |
| Maximum traversing velocity                                        | 30 m/min                |
| Travel path                                                        | 5 m                     |
| Number of bends, max.                                              | 100,000                 |
| Tensile load for moving cable, max.                                | 20 N/mm² (2901 lbf/in²) |



Figure similar

MLFB-Ordering data

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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                             |
|                                                         | Module-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                   |