



## MAC402-D2-FAGM

Int.Servo.AC 400WS1 1.28Nm IP55 Abs

MAC motor $\ddot{E}$  is a series of integrated (all-in-one) servo motors with shaft power from 46 W to 4500 W. +400 W and new F-series (50..140 W) are programmable through ePLC (embedded-PLC). Choose between a large number of control modules.

Options include:

- Absolute Multiturn Encoder (incremental encoder is standard)
- Built-in Brake or Brake module (MABxx)
- Ethernet module w/built-in Switch for easy daisy-chaining and all protocols (Profinet, EtherNet/IP, EtherCAT, SERCOS, ModbusTCP/UDP, Powerlink)
- Wireless modules are also available: WLAN or BlueTooth
- CANopen, Devicenet or Profibus or ePLC modules
- Serial communication modules, RS232 and/or RS485
- High IP versions are also available (IP 65..66..67)
- Food or Medico types in Stainless Steel IP69K

Unique Ethernet functionality: use MacTalk $\ddot{E}$  (PC software) to change freely between all the different Ethernet protocols, you dont need several different types on stock  $\ddot{a}$  ONE is enough.



## General information

|                           |                                                                                                                                                                                                                                        |                                     |                             |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|-----------------------------|
| <b>Description</b>        | Int.Servo.AC 400WS1 1.28Nm IP55 Abs , WxHxL: 60x115x191 mm. 3000 RPM @24-48VDC - 1500 RPM @12VDC. 1.27 Nm RMS / 3.83 Nm Peak, IP55, Single 8192 CPR / Absolute multiturn $\pm$ 8178 revs, Black, $\varnothing$ 14x30 mm keyway 5x20 mm |                                     |                             |
| <b>Manufacture</b>        | JVL                                                                                                                                                                                                                                    | <b>Motor type</b>                   | Integr. AC-servo - Rotating |
| <b>Motor power [W]</b>    | 400                                                                                                                                                                                                                                    | <b>Power Peak [W]</b>               | 1200                        |
| <b>Duty Cycle</b>         | S1                                                                                                                                                                                                                                     | <b>Max Duty Cycle [%]</b>           | 100                         |
| <b>Continuous Torque</b>  | 1.28                                                                                                                                                                                                                                   | <b>Peak torque [Nm]</b>             | 3.8                         |
| <b>Main supply [V]</b>    | 12-48                                                                                                                                                                                                                                  | <b>Voltage type - Main</b>          | DC                          |
| <b>Speed [Rpm]</b>        | 3000                                                                                                                                                                                                                                   | <b>Connectivity: Without module</b> | RS232 - 5VDC, Modbus RTU    |
| <b>Encoder type</b>       | Abs. Multiturn Encoder +/- 8178 rev.                                                                                                                                                                                                   | <b>Encoder [Counts/rev]</b>         | 8192                        |
| <b>Fan mounted</b>        | No                                                                                                                                                                                                                                     | <b>Brake</b>                        | No                          |
| <b>Integrated gear</b>    | No                                                                                                                                                                                                                                     | <b>Gear ratio</b>                   | -                           |
| <b>Integrated PLC</b>     | Yes                                                                                                                                                                                                                                    | <b>STO connector</b>                | No                          |
| <b>Approval TÜV - STO</b> | No                                                                                                                                                                                                                                     | <b>Approval - UL</b>                | No                          |
| <b>PLC no. of AIN</b>     | 2                                                                                                                                                                                                                                      | <b>PLC no. of DI</b>                | -                           |
| <b>PLC no. of DIO</b>     | -                                                                                                                                                                                                                                      | <b>PLC no. of DO</b>                | 2                           |



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### General information

|                   |   |
|-------------------|---|
| Multifunction IOs | 2 |
|-------------------|---|

|             |       |
|-------------|-------|
| Flange size | 60x60 |
|-------------|-------|

|                  |      |
|------------------|------|
| Protection house | IP55 |
|------------------|------|

|                         |         |
|-------------------------|---------|
| Shaft size - Front [mm] | 14.00mm |
|-------------------------|---------|

|                  |      |
|------------------|------|
| Protection shaft | IP55 |
|------------------|------|

|       |       |
|-------|-------|
| Color | Black |
|-------|-------|

|            |  |
|------------|--|
| Paint type |  |
|------------|--|

|                            |  |
|----------------------------|--|
| Ambient Temperature range: |  |
|----------------------------|--|

|                                                |  |
|------------------------------------------------|--|
| Max. Amb. Temperature range - Torque derating: |  |
|------------------------------------------------|--|

|                                |  |
|--------------------------------|--|
| Maximum Installation Altitude: |  |
|--------------------------------|--|

|                                                          |  |
|----------------------------------------------------------|--|
| Max. Installation Altitude - Power Derating every 1000m: |  |
|----------------------------------------------------------|--|

|                 |      |
|-----------------|------|
| Weight net [kg] | 2.05 |
|-----------------|------|

|                   |      |
|-------------------|------|
| Weight gross [kg] | 2.48 |
|-------------------|------|

|           |          |
|-----------|----------|
| Tariff no | 85012000 |
|-----------|----------|

|                   |    |
|-------------------|----|
| Country Of Origin | DK |
|-------------------|----|



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### Mechanical information

|                                              |                                      |                                         |                    |
|----------------------------------------------|--------------------------------------|-----------------------------------------|--------------------|
| Motor type                                   | Integr. AC-servo - Rotating          | Color                                   | Black              |
| Rotor inertia<br>[kgcm <sup>2</sup> ]        | 0.34                                 | Max inertia factor                      | 20                 |
| Encoder type                                 | Abs. Multiturn Encoder +/- 8178 rev. | Encoder<br>[Counts/rev]                 | 8192               |
| Precision Motor - Absolute<br>[Deg -/+]      | 0.04                                 | Precision Motor - Max Load<br>[Deg -/+] |                    |
| Precision Motor - Repeatability<br>[Deg -/+] | 0.04                                 |                                         |                    |
| Brake                                        | No                                   | Brake - Go ON time<br>[ms]              | -                  |
| Brake Holding torque<br>[Nm]                 | -                                    | Brake - Go OFF time<br>[ms]             | -                  |
| Radial load<br>[N]                           | 245                                  | Radial load distance<br>[mm]            | 13.5               |
| Axial load<br>[N]                            | 98                                   |                                         |                    |
| Axial play<br>[mm]                           | xxx                                  | Axial play force<br>[N]                 | xxx                |
| Front bearing type                           | xxx                                  | Rear bearing type                       | xxx                |
| Integrated gear                              | No                                   | Gear ratio                              | -                  |
| Gear efficiency<br>[%]                       | < -                                  | Gear backlash<br>[ArcMin]               | -                  |
| Motor length<br>[mm]                         | 190.5                                | Motor width<br>[mm]                     | 64.0               |
| Motor height<br>[mm]                         | 115.0                                | Protection house                        | IP55               |
| Customer Sealing                             | Standard                             |                                         |                    |
| Flange size                                  | 60x60                                | Mounting holes front<br>[mm]            | 5.5                |
| Motor diameter center front<br>[mm]          | 50.0                                 | Bolt circle diameter front<br>[mm]      | 70.0               |
| Flange material                              | Aluminium                            | Flange Thickness [mm]                   |                    |
| Shaft Key included                           | Key mounted in shaft                 | Shaft Key Dimension                     | 5x5x20             |
| Shaft size - Front<br>[mm]                   | 14.00mm                              | Protection shaft                        | IP55               |
| Shaft length Front<br>[mm]                   | 30.0                                 | Shaft material                          | Carbon steel SM45C |
| Approval - ROHS-3                            | Yes                                  | Approval - UL                           | No                 |
| Approval TÜV - STO                           | No                                   | Approval - ATEX                         | No                 |
| CAD 2D [PDF]                                 | Download                             | CAD 3D [STEP]                           | Download           |
| CAD 2D [DWG]                                 | No                                   | CAD 3D [DWG]                            | No                 |

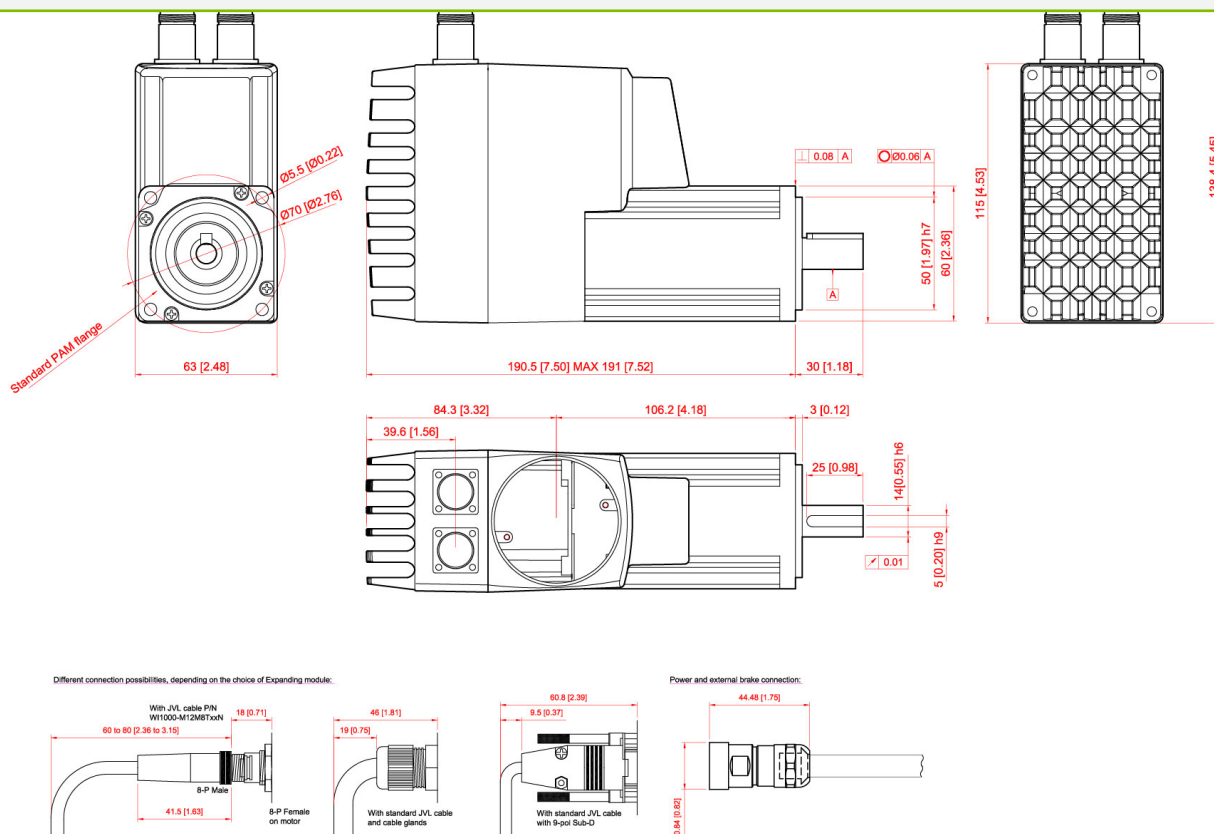


## MAC402-D2-FAGM

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### Mechanical information

|                            |                |                              |                                                           |
|----------------------------|----------------|------------------------------|-----------------------------------------------------------|
| <b>CAD 3D [EASM]</b>       | No             | <b>CAD 3D [IGES]</b>         | Download                                                  |
| <b>Datasheet - pdf</b>     | Download       | <b>User Manual</b>           | Download                                                  |
| <b>REACH SVHC document</b> | Download       | <b>Low voltage Directive</b> | LVD conformity with EU standard: EN 60034-1 :2010/AC:2021 |
| <b>No Dual Use</b>         | Read more here |                              |                                                           |



### Shaft Seal

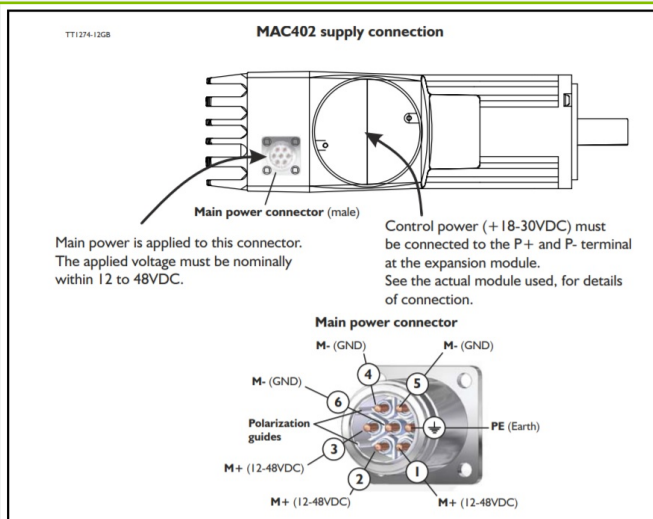


## MAC402-D2-FAGM

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### Connector information

#### Motor connectors



#### Expansion connector

Generation 1 and 2

|                                 |                                           |                                  |                |
|---------------------------------|-------------------------------------------|----------------------------------|----------------|
|                                 |                                           | <b>Connector Power</b>           | M16 7-pin male |
| <b>Connector Power Supplier</b> |                                           | <b>Connector Power direction</b> | Straight       |
|                                 |                                           | <b>PDO Connector Type</b>        | -              |
| <b>Connector PDO Supplier</b>   |                                           | <b>Connector STO</b>             | No             |
| <b>Module connections</b>       | Here - Click for module cable connections | <b>PLC no. of DI</b>             | -              |
| <b>PLC no. of DO</b>            | 2                                         | <b>PLC no. of DIO</b>            | -              |
| <b>PLC no. of AIN</b>           | 2                                         | <b>Multifunction IOs</b>         | 2              |

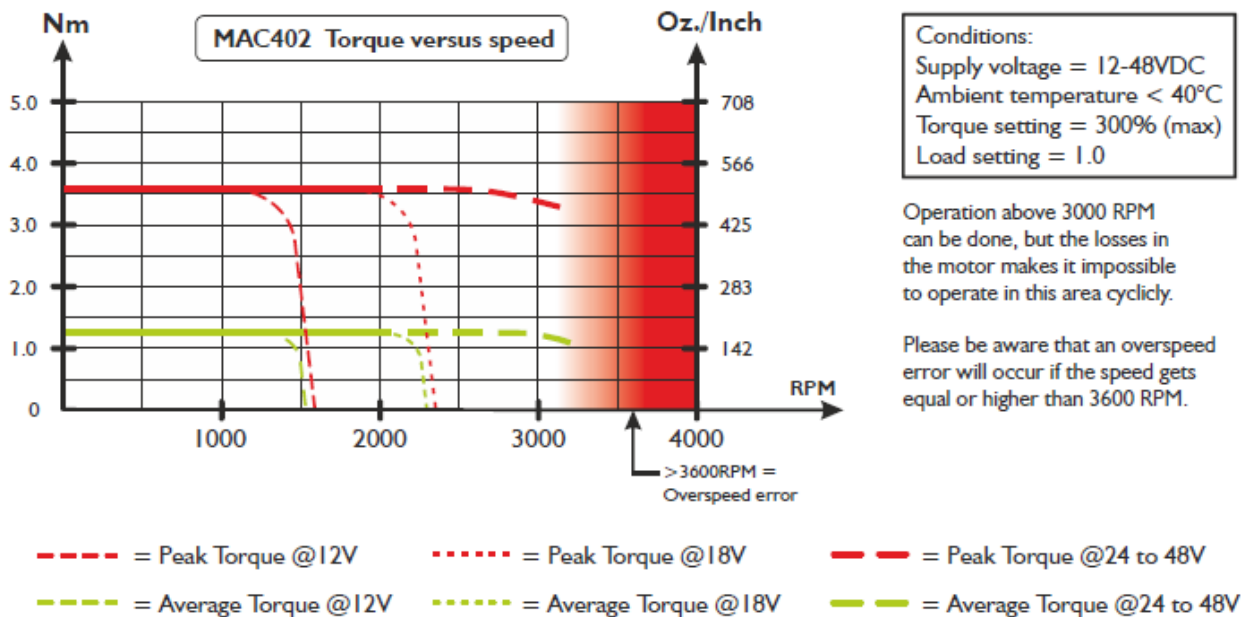


## MAC402-D2-FAGM

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### Torque, force and Power information

|                             |      |                             |     |
|-----------------------------|------|-----------------------------|-----|
| <b>RMS torque</b><br>[Nm]   | 1.28 | <b>Peak torque</b><br>[Nm]  | 3.8 |
| <b>Supply Volt 1</b><br>[V] | 12   | <b>Supply Volt 2</b><br>[V] | 24  |
| <b>Supply Volt 3</b><br>[V] | 48   | <b>Supply Volt 4</b><br>[V] |     |





## MAC402-D2-FAGM

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### Electrical information

|                                                                               |                     |                                                                                                    |                  |
|-------------------------------------------------------------------------------|---------------------|----------------------------------------------------------------------------------------------------|------------------|
| <b>Main supply</b><br>[V]                                                     | 12-48               | <b>Main supply</b><br><b>Min-Max</b><br>[V]                                                        | 10-50            |
| <b>Voltage type - Main</b>                                                    | DC                  | <b>Main Voltage possible</b>                                                                       |                  |
| <b>Inrush current -Main</b><br><b>max [A]</b>                                 |                     | <b>Inrush special</b>                                                                              | No               |
| <b>Recommended fuse</b>                                                       | T15A@24V / T30A@48V | <b>P- isolated from Earth (</b><br><b>Low Voltage ground (P-)</b><br><b>isolated from housing)</b> | No               |
| <b>Bus Supply Voltage Min</b><br>[V]                                          |                     | <b>Busvoltage Overvoltage</b><br><b>limit [VDC]</b>                                                | 63V              |
| <b>Power Dump Voltage</b><br><b>Active Level [V]</b>                          |                     | <b>Internal Power-Dump</b><br><b>Resistance [Ohm]</b>                                              | 11.3             |
| <b>Internal Power-Dump</b><br><b>Power [W]</b>                                | 6                   | <b>PD connection - Int/Ext</b>                                                                     | Internal PD only |
| <b>External Power-Dump</b><br><b>Resistance</b><br><b>Minimum value [Ohm]</b> |                     | <b>External Power-Dump</b><br><b>Max Current</b><br>[A]                                            |                  |
| <b>Control voltage</b><br><b>(CVI/O+)</b><br>[VDC]                            | 18-28               | <b>Control Voltage (CVI)</b><br><b>Min-Max</b><br>[VDC]                                            | 18-30            |
| <b>PLC no. of DI</b>                                                          | -                   | <b>PLC no. of DO</b>                                                                               | 2                |
| <b>PLC no. of DIO</b>                                                         | -                   | <b>PLC no. of AIN</b>                                                                              | 2                |
| <b>Analogue voltage</b>                                                       | -/+10VDC, -/+11bit  | <b>Multifunction IOs</b>                                                                           | 2                |
| <b>Multifunction Nom. level</b><br>[V]                                        |                     | <b>Multifunction Maximum</b><br><b>level [V]</b>                                                   |                  |
| <b>Multifunction Low trigger</b><br><b>level [V]</b>                          |                     | <b>Multifunction High trigger</b><br><b>level [V]</b>                                              |                  |
| <b>Resistance</b><br>[Ohm]                                                    |                     | <b>Induction</b><br>[mH]                                                                           |                  |
| <b>MTBF 100%</b><br>[Year]                                                    | -                   | <b>MTBF 30%</b><br>[Year]                                                                          | -                |



## MAC402-D2-FAGM

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### Communication information

|                 |         |
|-----------------|---------|
| <b>Software</b> | MacTalk |
|-----------------|---------|

|                                         |                                             |
|-----------------------------------------|---------------------------------------------|
| <b>Connectivity:<br/>Without module</b> | RS232 - 5VDC, Modbus RTU <b>e-PLC Files</b> |
|-----------------------------------------|---------------------------------------------|

|                                         |     |
|-----------------------------------------|-----|
| <b>Connectivity:<br/>Gen. 1 modules</b> | Yes |
|-----------------------------------------|-----|

|                                         |     |
|-----------------------------------------|-----|
| <b>Connectivity:<br/>Gen. 2 modules</b> | Yes |
|-----------------------------------------|-----|



## MAC402-D2-FAGM

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### Cable information

| Item number                                        | Mount on           | Cable con 1 +Con 1 angle                  | Cable application | Wires no totally | Cable length [m] |
|----------------------------------------------------|--------------------|-------------------------------------------|-------------------|------------------|------------------|
| Item description                                   |                    | Cable con 2 +Con 2 angle                  | Cable flexibility | Wire [mm2]       | Connector 1 LED  |
| WP0502                                             | Connector Power    | M16 7-pin female - 0° Straight            | Power             | 7                | 2                |
| MAC402 24-48VDC Power 2m 0°                        |                    | Open Ended - n/a                          | Standard          | 0.75             | n/a              |
| WP0502-CN                                          | Connector Power    | M16 7-pin female - 0° Straight            | Power             | 7                | 2                |
| MAC402 24-48VDC Power 2m 0°                        |                    | Open Ended - n/a                          | Standard          | 0.75             | n/a              |
| WP0505                                             | Connector Power    | M16 7-pin female - 0° Straight            | Power             | 7                | 5                |
| MAC402 24-48VDC Power 5m 0°                        |                    | Open Ended - n/a                          | Standard          | 0.75             | n/a              |
| WP0505-CN                                          | Connector Power    | M16 7-pin female - 0° Straight            | Power             | 7                | 5                |
| MAC402 24-48VDC Power 5m 0°                        |                    | Open Ended - n/a                          | Standard          | 0.75             | n/a              |
| WP0510                                             | Connector Power    | M16 7-pin female - 0° Straight            | Power             | 7                | 10               |
| MAC402 24-48VDC Power 10m 0°                       |                    | Open Ended - n/a                          | Standard          | 0.75             | n/a              |
| WP0510-W                                           | Connector Power    | M16 7-pin female - 0° Straight            | Power             | 7                | 10               |
| MAC402 24-48VDC Power 10m 0°, 3D+UL Robot          |                    | Open Ended - n/a                          | Robotic - 3D      | 0.75             | n/a              |
| WP0520                                             | Connector Power    | M16 7-pin female - 0° Straight            | Power             | 7                | 20               |
| MAC402 24-48VDC Power 20m 0°                       |                    | Open Ended - n/a                          | Standard          | 0.75             | n/a              |
| WP0520-CN                                          | Connector Power    | M16 7-pin female - 0° Straight            | Power             | 7                | 20               |
| MAC402 24-48VDC Power 20m 0°                       |                    | Open Ended - n/a                          | Standard          | 0.75             | n/a              |
| WP0602                                             | Connector Power    | M16 7-pin female - 90° Angled             | Power             | 7                | 2                |
| MAC402 24-48VDC Power 2m 90°                       |                    | Open Ended - n/a                          | Standard          | 0.75             | n/a              |
| WP0605                                             | Connector Power    | M16 7-pin female - 90° Angled             | Power             | 7                | 5                |
| MAC402 24-48VDC Power 5m 90°                       |                    | Open Ended - n/a                          | Standard          | 0.75             | n/a              |
| WP0605-UL                                          | Connector Power    | M16 7-pin female - 90° Angled             | Power             | 7                | 5                |
| MAC402 24-48VDC Power 5m 90°, UL                   |                    | Open Ended - n/a                          | Standard          | 0.75             | n/a              |
| WP0620                                             | Connector Power    | M16 7-pin female - 90° Angled             | Power             | 7                | 20               |
| MAC402 24-48VDC Power 20m 90°                      |                    | Open Ended - n/a                          | Standard          | 0.75             | n/a              |
| WI1000-M12F12S05N                                  | PDO Connector type | M12 12-pin female A-coded - 180° Straight | Power/Motor/com   | 12               | 5                |
| M12 Cable 5m 12 pin Fem 0° RS422                   |                    | Open Ended - n/a                          | Standard          | 0.32             | No               |
| WI1000-M12F12V05N                                  | PDO Connector type | M12 12-pin female A-coded - 90° Angled    | Power/Motor/com   | 12               | 5                |
| M12 Shl Cable 5m 12 pin Fem 90° RS422              |                    | Open Ended - n/a                          | Standard          | 0.32             | No               |
| WI1000-M12F5T02N                                   | PDO Connector type | M12 5-pin female A-coded - 180° Straight  | Power/Motor/com   | 5                | 2                |
| M12 Shl Cable 2m 5 pin Fem 0°, Power               |                    | Open Ended - n/a                          | Standard          | 0.32             | No               |
| WI1000-M12F5T05N                                   | PDO Connector type | M12 5-pin female A-coded - 180° Straight  | Power/Motor/com   | 5                | 5                |
| M12 Shl Cable 5m 5 pin Fem 0°, Power               |                    | Open Ended - n/a                          | Standard          | 0.32             | No               |
| WI1000-M12F5T1.2N                                  | PDO Connector type | M12 5-pin female A-coded - 180° Straight  | Power/Motor/com   | 5                | 1.2              |
| M12 Shl Cable 1.2m 5 pin Fem 0°, Power             |                    | Open Ended - n/a                          | Standard          | 0.32             | No               |
| WI1000-M12F5T10N                                   | PDO Connector type | M12 5-pin female A-coded - 180° Straight  | Power/Motor/com   | 5                | 10               |
| M12 Shl Cable 10m 5 pin Fem 0°, Power              |                    | Open Ended - n/a                          | Standard          | 0.32             | No               |
| WI1000-M12F5T10R                                   | PDO Connector type | M12 5-pin female A-coded - 180° Straight  | Power/Motor/com   | 5                | 10               |
| M12 Shl Cable 10m 5 pin Fem 0°, Power, High-flex   |                    | Open Ended - n/a                          | Cable Chains - 2D | 0.34             | No               |
| WI1000-M12F5T20N                                   | PDO Connector type | M12 5-pin female A-coded - 180° Straight  | Power/Motor/com   | 5                | 20               |
| M12 Shl Cable 20m 5 pin Fem 0°, Power              |                    | Open Ended - n/a                          | Standard          | 0.32             | No               |
| WI1000-M12F5TLT0185                                | PDO Connector type | M12 5-pin female A-coded - 180° Straight  | Power/Motor/com   | 5                | 3                |
| M12 shl Cable 3m 5 pin female 0°,PW SPEC           |                    | - n/a                                     | Standard          | 0.32             | No               |
| WI1000-M12F5TM5T1.5N                               | PDO Connector type | M12 5-pin female A-coded - 180° Straight  | Power/Motor/com   |                  | 1.5              |
| M12 A Code Shl Cable 1.5m 5 pin Female/Male 0° Pow |                    | - n/a                                     |                   |                  | No               |
| WI1000-M12F5V05N                                   | PDO Connector type | M12 5-pin female A-coded - 90° Angled     | Power/Motor/com   | 5                | 5                |
| M12 Shl Cable 5m 5 pin Fem 90°, Power              |                    | Open Ended - n/a                          | Standard          | 0.32             | No               |
| WI1000-M12F5V05R                                   | PDO Connector type | M12 5-pin female A-coded - 90° Angled     | Power/Motor/com   |                  | 5                |
| M12 Shl Cable 5m 5 pin Fem 90°, Power, 3D          |                    | - n/a                                     |                   |                  | No               |
| WI1000-M12F5V10N                                   | PDO Connector type | M12 5-pin female A-coded - 90° Angled     | Power/Motor/com   | 5                | 10               |
| M12 Shl Cable 10 m 5 pin Fem 90°, Power            |                    | Open Ended - n/a                          | Standard          | 0.32             | No               |
| WI1000-M12F5V20N                                   | PDO Connector type | M12 5-pin female A-coded - 90° Angled     | Power/Motor/com   | 5                | 20               |
| M12 Shl Cable 20m 5 pin Fem 90°, Power             |                    | Open Ended - n/a                          | Standard          | 0.32             | No               |
| WI1000-M12F5W05N                                   | PDO Connector type | M12 5-pin female A-coded - 90° Angled     | Power/Motor/com   | 5                | 5                |
| M12 Shl Cable 5m LED 5p Fem 90°, Power <50V        |                    | Open Ended - n/a                          | Standard          | 0.32             | LED              |
| WI1000-M12F5W10N                                   | PDO Connector type | M12 5-pin female A-coded - 90° Angled     | Power/Motor/com   | 5                | 10               |



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### Cable information

| Item number                                        | Mount on           | Cable con 1 +Con 1 angle                 | Cable application | Wires no totally | Cable length [m] |
|----------------------------------------------------|--------------------|------------------------------------------|-------------------|------------------|------------------|
| Item description                                   |                    | Cable con 2 +Con 2 angle                 | Cable flexibility | Wire [mm2]       | Connector 1 LED  |
| M12 Shl Cable 10m LED 5 p Fem 90°, Power <50V      |                    | Open Ended - n/a                         | Standard          | 0.32             | LED              |
| WI1000-M12F5W15N                                   | PDO Connector type | M12 5-pin female A-coded - 90° Angled    | Power/Motor/com   | 5                | 15               |
| M12 Shl Cable 15m LED 5 p Fem 90°, Power <50V      |                    | Open Ended - n/a                         | Standard          | 0.32             | LED              |
| WI1000-M12F5W20N                                   | PDO Connector type | M12 5-pin female A-coded - 90° Angled    | Power/Motor/com   | 5                | 20               |
| M12 Shl Cable 20m LED 5 p Fem 90°, Power <50V      |                    | Open Ended - n/a                         | Standard          | 0.32             | LED              |
| WI1000-M12F5WF5W20N                                | PDO Connector type | M12 5-pin female A-coded - 90° Angled    | Power/Motor/com   | 5                | 20               |
| M12 shl cab 20m LED 5 pin female 90°, Pow <50V     |                    | M12 5-pin female A-coded - n/a           | Standard          | 0.32             | LED              |
| WI1000-M12F8T05N                                   | PDO Connector type | M12 8-pin female A-coded - 180° Straight | Power/Motor/com   | 8                | 5                |
| M12 Shl Cable 5m 8 p Fem 0°, Basic IO              |                    | Open Ended - n/a                         | Standard          | 0.32             | No               |
| WI1000-M12F8T20N                                   | PDO Connector type | M12 8-pin female A-coded - 180° Straight | Power/Motor/com   | 8                | 20               |
| M12 Shl Cable 20m 8 p Fem 0°, Basic IO             |                    | Open Ended - n/a                         | Standard          | 0.32             | No               |
| WI1000-M12F8V05N                                   | PDO Connector type | M12 8-pin female A-coded - 90° Angled    | Power/Motor/com   | 8                | 5                |
| M12 Shl Cable 5m 8 p Fem 90°, Basic IO             |                    | Open Ended - n/a                         | Standard          | 0.32             | No               |
| WI1000-M12F8V20N                                   | PDO Connector type | M12 8-pin female A-coded - 90° Angled    | Power/Motor/com   | 8                | 20               |
| M12 Shl Cable 20m 8 p Fem 90°, Basic IO            |                    | Open Ended - n/a                         | Standard          | 0.32             | No               |
| WI1000-M12M4TF4T01N                                | PDO Connector type | M12 4-pin male A-coded - 180° Straight   | Power/Motor/com   | 4                | 1                |
| M12 cable 1m Male4p 0° Fem4pin 0° std cable        |                    | M12 4-pin female A-coded - n/a           | Standard          | 0.32             | No               |
| WI1000-M12M4TF4T02N                                | PDO Connector type | M12 4-pin male A-coded - 180° Straight   | Power/Motor/com   | 4                | 2                |
| M12 cable 2m Male4p 0° Fem4pin 0° std cable        |                    | M12 4-pin female A-coded - n/a           | Standard          | 0.32             | No               |
| WI1000-M12M4TF4T03N                                | PDO Connector type | M12 4-pin male A-coded - 180° Straight   | Power/Motor/com   | 4                | 3                |
| M12 cable 3m Male4p 0° Fem4pin 0° std cable        |                    | M12 4-pin female A-coded - n/a           | Standard          | 0.32             | No               |
| WI1000-M12M5A05N                                   | PDO Connector type | M12 5-pin male A-coded - 90° Angled      | Power/Motor/com   | 5                | 5                |
| M12 cable 5m, 5 pin male 90°, COM2/ B4             |                    | Open Ended - n/a                         | Standard          | 0.32             | No               |
| WI1000-M12M5T05N                                   | PDO Connector type | M12 5-pin male A-coded - 180° Straight   | Power/Motor/com   | 5                | 5                |
| M12 Shl Cable 5m 5 p Male 0°, COM                  |                    | Open Ended - n/a                         | Standard          | 0.32             | No               |
| WI1000-M12M5T20N                                   | PDO Connector type | M12 5-pin male A-coded - 180° Straight   | Power/Motor/com   | 5                | 20               |
| M12 Shl Cable 20m 5 p Male 0°, COM                 |                    | Open Ended - n/a                         | Standard          | 0.32             | No               |
| WI1000-M12M5TF5T.5N                                | PDO Connector type | M12 5-pin male A-coded - 180° Straight   | Power/Motor/com   | 5                | 0.5              |
| M12 Shl Cable .5m 5p Male 0° to 5p Fem 0           |                    | M12 5-pin female A-coded - n/a           | Standard          | 0.32             | No               |
| WI1000-M12M5TF5T01N                                | PDO Connector type | M12 5-pin male A-coded - 180° Straight   | Power/Motor/com   | 5                | 1                |
| M12 Shl Cable 1m 5p Male 0° to 5p Fem 0°           |                    | M12 5-pin female A-coded - n/a           | Standard          | 0.32             | No               |
| WI1000-M12M5TF5T02N                                | PDO Connector type | M12 5-pin male A-coded - 180° Straight   | Power/Motor/com   | 5                | 2                |
| M12 Shl Cable 2m 5p Male 0° to 5p Fem 0°           |                    | M12 5-pin female A-coded - n/a           | Standard          | 0.32             | No               |
| WI1000-M12M5TF5T02T                                | PDO Connector type | M12 5-pin male A-coded - 180° Straight   | Power/Motor/com   | 5                | 2                |
| M12 Cable 2m 5pM 180° to 5pF 180° twisted, power c |                    | M12 5-pin female A-coded - n/a           | Standard          | 0.32             | No               |
| WI1000-M12M5TF5T03N                                | PDO Connector type | M12 5-pin male A-coded - 180° Straight   | Power/Motor/com   | 5                | 3                |
| M12 Shl Cable 3m 5p Male 0° to 5p Fem 0°           |                    | M12 5-pin female A-coded - n/a           | Standard          | 0.32             | No               |
| WI1000-M12M5V05N                                   | PDO Connector type | M12 5-pin male A-coded - 90° Angled      | Power/Motor/com   | 5                | 5                |
| M12 Shl Cable 5m 5 p Male 90°, COM                 |                    | Open Ended - n/a                         | Standard          | 0.32             | No               |
| WI1000-M12M5V20N                                   | PDO Connector type | M12 5-pin male A-coded - 90° Angled      | Power/Motor/com   | 5                | 20               |
| M12 Shl Cable 20m 5 p Male 90°, COM                |                    | Open Ended - n/a                         | Standard          | 0.32             | No               |
| WI1000-M12M8T02N                                   | PDO Connector type | M12 8-pin male A-coded - 180° Straight   | Power/Motor/com   | 8                | 2                |
| M12 Shl Cable 2m 8 p Male 0° COM1/Ext IO           |                    | Open Ended - n/a                         | Standard          | 0.32             | No               |
| WI1000-M12M8T05N                                   | PDO Connector type | M12 8-pin male A-coded - 180° Straight   | Power/Motor/com   | 8                | 5                |
| M12 Shl Cable 5m 8 p Male 0° COM1/Ext IO           |                    | Open Ended - n/a                         | Standard          | 0.32             | No               |
| WI1000-M12M8T20N                                   | PDO Connector type | M12 8-pin male A-coded - 180° Straight   | Power/Motor/com   | 8                | 20               |
| M12 Shl Cable 20m 8 p Male 0° COM1/ExtIO           |                    | Open Ended - n/a                         | Standard          | 0.32             | No               |
| WI1000-M12M8T20R                                   | PDO Connector type | M12 8-pin male A-coded - 180° Straight   | Power/Motor/com   |                  | 20               |
| M12 Shl Cable 20m 8 p Male 0° 2D cable chain       |                    | - n/a                                    |                   |                  | No               |
| WI1000-M12M8TF4LT186                               | PDO Connector type | M12 8-pin male A-coded - 180° Straight   | Power/Motor/com   | 8                | 5                |
| M12 shl cable5m, M12 M8, M8 F4 0° IO               |                    | M12 4-pin female A-coded - n/a           |                   | 0.32             | No               |
| WI1000-M12M8TLT0184                                | PDO Connector type | M12 8-pin male A-coded - 180° Straight   | Power/Motor/com   | 8                | 5                |
| M12 shl cable5m, 8 pin male 0° IO SPEC             |                    | M12 4-pin female A-coded - n/a           |                   | 0.32             | No               |
| WI1000-M12M8V05N                                   | PDO Connector type | M12 8-pin male A-coded - 90° Angled      | Power/Motor/com   | 8                | 5                |
| M12 Shl Cable 5m 8 p Mal 90° COM1/ExtIO            |                    | Open Ended - n/a                         | Standard          | 0.2              | No               |



## MAC402-D2-FAGM

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### Cable information

| Item number                                     | Mount on           | Cable con 1 +Con 1 angle                 | Cable application | Wires no totally | Cable length [m] |
|-------------------------------------------------|--------------------|------------------------------------------|-------------------|------------------|------------------|
| Item description                                |                    | Cable con 2 +Con 2 angle                 | Cable flexibility | Wire [mm2]       | Connector 1 LED  |
| WI1000-M12M8V20N                                | PDO Connector type | M12 8-pin male A-coded - 90° Angled      | Power/Motor/com   | 8                | 20               |
| M12 Shl Cable 20m 8 p Mal 90° COM1/ExtIO        |                    | Open Ended - n/a                         | Standard          | 0.2              | No               |
| WI1000-M8F2T05N                                 | PDO Connector type | M8 2-pin female A-coded - 180° Straight  | Power/Motor/com   |                  | 5                |
| M8 Cable 5m 2pin Fem 0° shield                  |                    | Open Ended - n/a                         | Standard          |                  | No               |
| WI1000-M8F4A03N005                              | PDO Connector type | M8 4-pin female A-coded - 90° Angled     | Power/Motor/com   |                  | 3                |
| M8 Cable 3m 4 pin Fem 90° with Molex            |                    | Molex 2-pin - n/a                        | Standard          |                  | No               |
| WI1000-M8F4A05N005                              | PDO Connector type | M8 4-pin female A-coded - 90° Angled     | Power/Motor/com   |                  | 5                |
| M8 Cable 5m 4 pin Fem 90° with Molex            |                    | Molex 2-pin - n/a                        | Standard          |                  | No               |
| WI1000-M8F4A10N005                              | PDO Connector type | M8 4-pin female A-coded - 90° Angled     | Power/Motor/com   |                  | 10               |
| M8 Cable 10m 4 pin Fem 90° with Molex           |                    | Molex 2-pin - n/a                        | Standard          |                  | No               |
| WI1000-M8F4A10R                                 | PDO Connector type | M8 4-pin female A-coded - 90° Angled     | Power/Motor/com   |                  | 10               |
| M8 Cable 10m 4 pin Fem 90°, High-flex PUR       |                    | Open Ended - n/a                         | Standard          |                  | No               |
| WI1000-M8F4B20N                                 | PDO Connector type | M8 4-pin female A-coded - 180° Straight  | Power/Motor/com   |                  | 10               |
| M8 Cable 20m 4 pin Fem 0° Not shielded          |                    | Open Ended - n/a                         | Standard          |                  | No               |
| WI1000-M8M3S05R                                 | PDO Connector type | M8 3-pin male A-coded - 180° Straight    | Power/Motor/com   |                  | 5                |
| M8 Cable 5m 3 pin Male 0°                       |                    | Open Ended - n/a                         | Standard          |                  | No               |
| WI1000-M8M3S1.5R                                | PDO Connector type | M8 3-pin male A-coded - 180° Straight    | Power/Motor/com   |                  | 1.5              |
| M8 Cable 1.5m 3 pin Male 0°                     |                    | Open Ended - n/a                         | Standard          |                  | No               |
| WI1004-M12M5TM5T05N                             | PDO Connector type | M12 5-pin male - 180° Straight           |                   |                  | 5                |
| M12 Cab 5m, M5p- M5p, RS232. Std cable          |                    | M12 5-pin male - n/a                     |                   |                  | No               |
| WI1005-M12F5TF5T03P                             | PDO Connector type | M12 5-pin female A-coded - 180° Straight | Communication     |                  | 3                |
| M12 Cab 3m, 5p Fem - 5p Fem twistedPair         |                    | M12 5-pin female A-coded - n/a           |                   | 0.32             | No               |
| WI1005-M12F5TM5T2.0N                            | PDO Connector type | M12 5-pin female A-coded - 180° Straight | Communication     |                  | 2                |
| M12 cable 2m, 5 pin female - 5pin male          |                    | M12 5-pin male A-coded - n/a             | Standard          | 0.32             | No               |
| WI1005-M12M17SAA01                              | PDO Connector type | M12 17-pin male A-coded - 180° Straight  | Communication     | n/a              | Connector        |
| M12 17-pin male Axis 1 Without wire             |                    | n/a - n/a                                | n/a               | n/a              | No               |
| WI1005-M12M17SAA01W                             | PDO Connector type | M12 17-pin male A-coded - 180° Straight  | Communication     | n/a              | Connector        |
| M12 17-pin male Axis 1, with wire 1,2m          |                    | n/a - n/a                                |                   | n/a              | No               |
| WI1005-M12M17SAA02                              | PDO Connector type | M12 17-pin male A-coded - 180° Straight  | Communication     | n/a              | Connector        |
| M12 17-pin male Axis 2 Without wire             |                    | n/a - n/a                                | n/a               | n/a              | No               |
| WI1005-M12M17SAA03                              | PDO Connector type | M12 17-pin male A-coded - 180° Straight  | Communication     | n/a              | Connector        |
| M12 17-pin male Axis 3 Without wire             |                    | n/a - n/a                                | n/a               | n/a              | No               |
| WI1005-M12M17SAA04                              | PDO Connector type | M12 17-pin male A-coded - 180° Straight  | Communication     | n/a              | Connector        |
| M12 17-pin male Axis 4 Without wire             |                    | n/a - n/a                                | n/a               | n/a              | No               |
| WI1005-M12M17SAA05                              | PDO Connector type | M12 17-pin male A-coded - 180° Straight  | Communication     | n/a              | Connector        |
| M12 17-pin male Axis 5 Without wire             |                    | n/a - n/a                                | n/a               | n/a              | No               |
| WI1005-M12M17SAA06                              | PDO Connector type | M12 17-pin male A-coded - 180° Straight  | Communication     | n/a              | Connector        |
| M12 17-pin male Axis 6 Without wire             |                    | n/a - n/a                                | n/a               | n/a              | No               |
| WI1005-M12M17SAA06W                             | PDO Connector type | M12 17-pin male A-coded - 180° Straight  | Communication     | n/a              | Connector        |
| M12 17-pin male Axis 6 with wire 1,2m           |                    | n/a - n/a                                |                   | n/a              | No               |
| WI1005-M12M17SAA07                              | PDO Connector type | M12 17-pin male A-coded - 180° Straight  | Communication     | n/a              | Connector        |
| M12 17-pin male Axis 7 Without wire             |                    | n/a - n/a                                | n/a               | n/a              | No               |
| WI1005-M12M17SAA08                              | PDO Connector type | M12 17-pin male A-coded - 180° Straight  | Communication     | n/a              | Connector        |
| M12 17-pin male Axis 8 Without wire             |                    | n/a - n/a                                | n/a               | n/a              | No               |
| WI1005-M12M17SAA09                              | PDO Connector type | M12 17-pin male A-coded - 180° Straight  | Communication     | n/a              | Connector        |
| M12 17-pin male Axis 9 Without wire             |                    | n/a - n/a                                | n/a               | n/a              | No               |
| WI1005-M12M17SAA10                              | PDO Connector type | M12 17-pin male A-coded - 180° Straight  | Communication     | n/a              | Connector        |
| M12 17-pin male Axis 10 Without wire            |                    | n/a - n/a                                | n/a               | n/a              | No               |
| WI1005-M12M5STR6                                | PDO Connector type | M12 5-pin male A-coded - 180° Straight   | Communication     | n/a              | Connector        |
| M12 5-pin male A Code Resistor RS485            |                    | n/a - n/a                                | n/a               | n/a              | No               |
| WI1005-M12M5TF5T.2N                             | PDO Connector type | M12 5-pin male A-coded - 180° Straight   | Communication     |                  | 0.2              |
| M12 Cab 0.2m, 5p Mal - 5p Fem, RS485 .Std cable |                    | M12 5-pin male A-coded - n/a             | Standard          | 0.32             | No               |
| WI1005-M12M5TM5T01N                             | PDO Connector type | M12 5-pin male A-coded - 180° Straight   | Communication     |                  | 1                |
| M12 Cab 1m, 5p Mal - 5p Mal, RS485. Std cable   |                    | M12 5-pin male A-coded - n/a             | Standard          | 0.32             | No               |
| WI1005-M12M8QM5V.3N                             | PDO Connector type | M12 8-pin male A-coded - 90° Angled      | Communication     |                  | 0.3              |



## MAC402-D2-FAGM

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### Cable information

| Item number                                        | Mount on           | Cable con 1 +Con 1 angle                     | Cable application   | Wires no totally | Cable length [m] |
|----------------------------------------------------|--------------------|----------------------------------------------|---------------------|------------------|------------------|
| Item description                                   |                    | Cable con 2 +Con 2 angle                     | Cable flexibility   | Wire [mm2]       | Connector 1 LED  |
| M12 Shl Cab 0.3m 8p Mal 5p Mal 90° RS485 twisted   |                    | M12 5-pin male A-coded - n/a                 | Standard            | 0.32             | No               |
| WI1005-M12M8S10N                                   | PDO Connector type | M12 8-pin male A-coded - 180° Straight       | Communication       | 8                | 10               |
| M12 Shl Cable 10m, 8 p Male MAC00-B41 twisted      |                    | Open Ended - n/a                             | Standard            | 0.32             | No               |
| WI1005-M12M8STR5                                   | PDO Connector type | M12 8-pin male A-coded - 180° Straight       | Communication       | n/a              | Connector        |
| M12 8-pin male A Code Resistor RS485               |                    | n/a - n/a                                    | n/a                 | 0.32             | No               |
| WI1005-M12M8TF8T20N                                | PDO Connector type | M12 8-pin male A-coded - 180° Straight       | Communication       | 8                | 20               |
| M12 Shl Cab 20m 8p Male 8p Female 0° 2x4p twisted  |                    | M12 8-pin female A-coded - n/a               |                     | 0.32             | No               |
| WI1005-M12M8TM5T.3N                                | PDO Connector type | M12 8-pin male A-coded - 180° Straight       | Communication       | 5                | 0.3              |
| M12 Shl Cab 0,3 m 8p Male 5p Male 0° RS485 twisted |                    | M12 5-pin male A-coded - n/a                 | Standard            | 0.32             | No               |
| WI1005-M12M8TM5T.5N                                | PDO Connector type | M12 8-pin male A-coded - 180° Straight       | Communication       | 5                | 0.5              |
| M12 Shl Cab 0,5 m 8p Male 5p Male 0° RS485 twisted |                    | M12 5-pin male A-coded - n/a                 | Standard            | 0.32             | No               |
| WI1005-M12M8TM5T05N                                | PDO Connector type | M12 8-pin male A-coded - 180° Straight       | Communication       | 5                | 5                |
| M12 Shl Cab 5m 8p Male 5p Male 0° RS485 twisted    |                    | M12 5-pin male A-coded - n/a                 | Standard            | 0.32             | No               |
| WI1005-M12M8VM5V.5N                                | PDO Connector type | M12 8-pin male A-coded - 90° Angled          | Communication       | 5                | 0,5              |
| M12 Shl Cab 0.5m 8pMale 5pMale 90° RS485 twisted   |                    | M12 5-pin male A-coded - n/a                 | Standard            | 0.32             | No               |
| WI1005-M12M8VM5V03N                                | PDO Connector type | M12 8-pin male A-coded - 90° Angled          | Communication       | 5                | 3                |
| M12 Shl Cab3m 8p Male 5p Male 90° RS485 twisted    |                    | M12 5-pin male A-coded - n/a                 | Standard            | 0.32             | No               |
| WI1005-M12M8VM5V10N                                | PDO Connector type | M12 8-pin male A-coded - 90° Angled          | Communication       | 5                | 10               |
| M12 Shl Cab10m 8p Male 5p Male 90° RS485 twisted   |                    | M12 5-pin male A-coded - n/a                 | Standard            | 0.32             | No               |
| WI1005-M12M8VM5V20N                                | PDO Connector type | M12 8-pin male A-coded - 90° Angled          | Communication       | 5                | 20               |
| M12 Shl Cab20m 8p Male 5p Male 90° RS485 twisted   |                    | M12 5-pin male A-coded - n/a                 | Standard            | 0.32             | No               |
| WI1006-M12F5S02.5R                                 | PDO Connector type | M12 5-pin female A-coded CAN - 180° Straight | CANopen/DeviceNet 4 |                  | 2.5              |
| M12 2.5m, 5 p Fem 0° CAN/DeviceNet                 |                    | Open Ended - n/a                             | Robotic - 3D        | 0.32 + 0.2       | No               |
| WI1006-M12F5S05R                                   | PDO Connector type | M12 5-pin female A-coded CAN - 180° Straight | CANopen/DeviceNet 4 |                  | 5                |
| M12 5m, 5 p Fem 0° CAN 2D flexible                 |                    | Open Ended - n/a                             | Robotic - 3D        | 0.32 + 0.2       | No               |
| WI1006-M12F5S15R                                   | PDO Connector type | M12 5-pin female A-coded CAN - 180° Straight | CANopen/DeviceNet 4 |                  | 15               |
| M12 15m, 5 p Fem 0° CAN/DeviceNet                  |                    | Open Ended - n/a                             | Robotic - 3D        | 0.32 + 0.2       | No               |
| WI1006-M12F5T.3N                                   | PDO Connector type | M12 5-pin female A-coded CAN - 180° Straight | CANopen/DeviceNet 4 |                  | 0.3              |
| M12 0.3m 5 p Fem 0° CAN/DeviceNet                  |                    | Open Ended - n/a                             | Standard            | 0.32 + 0.2       | No               |
| WI1006-M12F5T01N                                   | PDO Connector type | M12 5-pin female A-coded CAN - 180° Straight | CANopen/DeviceNet 4 |                  | 1                |
| M12 1m 5 p Fem 0° CAN/DeviceNet                    |                    | Open Ended - n/a                             | Standard            | 0.32 + 0.2       | No               |
| WI1006-M12F5T05N                                   | PDO Connector type | M12 5-pin female A-coded CAN - 180° Straight | CANopen/DeviceNet   |                  | 5                |
| M12 5m 5p Female 0° CAN/DeviceNet                  |                    | Open Ended - n/a                             |                     |                  | No               |
| WI1006-M12F5TM5T.25N                               | PDO Connector type | M12 5-pin female A-coded CAN - 180° Straight | CANopen/DeviceNet 4 |                  | 0.25             |
| M12 0.25m 5p Fem/Male 0° CAN twisted pair          |                    | M12 5-pin male A-coded CAN - n/a             | Standard            | 0.32 + 0.2       | No               |
| WI1006-M12F5TM5T01N                                | PDO Connector type | M12 5-pin female A-coded CAN - 180° Straight | CANopen/DeviceNet 4 |                  | 1                |
| M12 1m 5p Fem/Male 0° CAN twisted pair             |                    | M12 5-pin male A-coded CAN - n/a             | Standard            | 0.32 + 0.2       | No               |
| WI1006-M12F5TM5T02N                                | PDO Connector type | M12 5-pin female A-coded CAN - 180° Straight | CANopen/DeviceNet 4 |                  | 2                |
| M12 2m 5p Fem/Male 0° CAN Twisted pair             |                    | M12 5-pin male A-coded CAN - n/a             | Standard            | 0.32 + 0.2       | No               |
| WI1006-M12F5TM5T03N                                | PDO Connector type | M12 5-pin female A-coded CAN - 180° Straight | CANopen/DeviceNet 4 |                  | 3                |
| M12 3m 5p Fem/Male 0° CAN Twisted pair             |                    | M12 5-pin male A-coded CAN - n/a             | Standard            | 0.32 + 0.2       | No               |
| WI1006-M12F5TM5T05N                                | PDO Connector type | M12 5-pin female A-coded CAN - 180° Straight | CANopen/DeviceNet 4 |                  | 5                |
| M12 5m 5p Fem/Male 0° CAN Twisted pair             |                    | M12 5-pin male A-coded CAN - n/a             | Standard            | 0.32 + 0.2       | No               |
| WI1006-M12F5TM5T10N                                | PDO Connector type | M12 5-pin female A-coded CAN - 180° Straight | CANopen/DeviceNet 4 |                  | 10               |
| M12 10m 5p Fem/Male 0° CAN Twisted pair            |                    | M12 5-pin male A-coded CAN - n/a             | Standard            | 0.32 + 0.2       | No               |
| WI1006-M12F5TM5T20N                                | PDO Connector type | M12 5-pin female A-coded CAN - 180° Straight | CANopen/DeviceNet 4 |                  | 20               |
| M12 20m 5p Fem/Male 0° CAN Twisted pair            |                    | M12 5-pin male A-coded CAN - n/a             | Standard            | 0.32 + 0.2       | No               |
| WI1006-M12M5S05R                                   | PDO Connector type | M12 5-pin male A-coded CAN - 180° Straight   | CANopen/DeviceNet 4 |                  | 5                |
| M12 5m 5p Male 0° CAN Twisted pair                 |                    | Open Ended - n/a                             | Robotic - 3D        | 0.32 + 0.2       | No               |
| WI1006-M12M5S05T                                   | PDO Connector type | M12 5-pin male A-coded CAN - 180° Straight   | CANopen/DeviceNet 4 |                  | 5                |
| M12 5m 5p Male 0° CAN Twisted pair                 |                    | Open Ended - n/a                             | Standard            | 0.32 + 0.2       | No               |
| WI1006-M12M5S15R                                   | PDO Connector type | M12 5-pin male A-coded CAN - 180° Straight   | CANopen/DeviceNet 4 |                  | 15               |
| M12 15m 5p Male 0° CAN Twisted pair                |                    | Open Ended - n/a                             | Robotic - 3D        | 0.32 + 0.2       | No               |
| WI1006-M12M5T05N                                   | PDO Connector type | -                                            | CANopen/DeviceNet   |                  |                  |
| M12 5m 5p Male 0° CAN/DeviceNet                    |                    | -                                            |                     |                  |                  |



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### Cable information

| Item number                                       | Mount on           | Cable con 1 +Con 1 angle                   | Cable application     | Wires no totally | Cable length [m] |
|---------------------------------------------------|--------------------|--------------------------------------------|-----------------------|------------------|------------------|
| Item description                                  |                    | Cable con 2 +Con 2 angle                   | Cable flexibility     | Wire [mm2]       | Connector 1 LED  |
| WI1006-M12M5TM5T.3N                               | PDO Connector type | M12 5-pin male A-coded CAN - 180° Straight | CANopen/DeviceNet 4   |                  | 0.3              |
| M12 0.3m 5p Male/Male 0° CAN Twisted pair         |                    | M12 5-pin male A-coded CAN - n/a           | Standard              | 0.32 + 0.2       | No               |
| WI1006-M12M5TM5T01N                               | PDO Connector type | M12 5-pin male A-coded CAN - 180° Straight | CANopen/DeviceNet 4   |                  | 1                |
| M12 1m 5p Male/Male 0° CAN Twisted pair           |                    | M12 5-pin male A-coded CAN - n/a           | Standard              | 0.32 + 0.2       | No               |
| WI1006-M12M5TM5T02N                               | PDO Connector type | M12 5-pin male A-coded CAN - 180° Straight | CANopen/DeviceNet 4   |                  | 2                |
| M12 2m 5p Male/Male 0° CAN Twisted pair           |                    | M12 5-pin male A-coded CAN - n/a           | Standard              | 0.32 + 0.2       | No               |
| WI1006-M12M5TM5T03N                               | PDO Connector type | M12 5-pin male A-coded CAN - 180° Straight | CANopen/DeviceNet 4   |                  | 3                |
| M12 3m 5p Male/Male 0° CAN Twisted pair           |                    | M12 5-pin male A-coded CAN - n/a           | Standard              | 0.32 + 0.2       | No               |
| WI1006-M12M5TM5T05N                               | PDO Connector type | M12 5-pin male A-coded CAN - 180° Straight | CANopen/DeviceNet 4   |                  | 5                |
| M12 5m 5p Male/Male 0° CAN Twisted pair           |                    | M12 5-pin male A-coded CAN - n/a           | Standard              | 0.32 + 0.2       | No               |
| WI1006-M12M5TM5T1.7N                              | PDO Connector type | M12 5-pin male A-coded CAN - 180° Straight | CANopen/DeviceNet 4   |                  | 1.7              |
| M12 1.7m 5p Male/Male 0° CAN Twisted pair         |                    | M12 5-pin male A-coded CAN - n/a           | Standard              | 0.32 + 0.2       | No               |
| WI1006-M12M5TM5T20N                               | PDO Connector type | M12 5-pin male A-coded CAN - 180° Straight | CANopen/DeviceNet 4   |                  | 20               |
| M12 20m 5p Male/Male 0° CAN Twisted pair          |                    | M12 5-pin male A-coded CAN - n/a           | Standard              | 0.32 + 0.2       | No               |
| WI1008-M12F5AG1                                   | PDO Connector type | M12 5-pin female A-coded - 90° Angled      | CANopen/DeviceNet     |                  | 20               |
| M12 Con 5p Fem 90° Spring Ø4-8mm cable            |                    | Open Ended - n/a                           |                       |                  | No               |
| WI1008-M12F5SS1                                   | PDO Connector type | M12 5-pin female A-coded - 180° Straight   | CANopen/DeviceNet n/a |                  | Connector        |
| M12 Con 5p Fem 0° Solder assembly                 |                    | - n/a                                      | n/a                   | n/a              | No               |
| WI1008-M12F5TG1                                   | PDO Connector type | M12 5-pin female A-coded - 180° Straight   | CANopen/DeviceNet n/a |                  | Connector        |
| M12 Con 5p Fem 0° Spring Shield+B222              |                    | - n/a                                      | n/a                   | n/a              | No               |
| WI1008-M12F5VG1                                   | PDO Connector type | M12 5-pin female A-coded - 90° Angled      | CANopen/DeviceNet n/a |                  | Connector        |
| M12 Con 5p Fem 90° Spring Shield                  |                    | - n/a                                      | n/a                   | n/a              | No               |
| WI1008-M12F8SC1                                   | PDO Connector type | M12 8-pin female A-coded - 180° Straight   | CANopen/DeviceNet n/a |                  | Connector        |
| M12 Con 8p Fem 0° Screw Ø4-8mm cable              |                    | - n/a                                      | n/a                   | n/a              | No               |
| WI1008-M12F8SS1                                   | PDO Connector type | M12 8-pin female A-coded - 180° Straight   | CANopen/DeviceNet n/a |                  | Connector        |
| M12 Con 8p Fem 0° Solder assembly                 |                    | - n/a                                      | n/a                   | n/a              | No               |
| WI1008-M12F8TC1                                   | PDO Connector type | M12 8-pin female A-coded - 180° Straight   | CANopen/DeviceNet n/a |                  | Connector        |
| M12 Con 8p Fem 0° Screw Shield                    |                    | - n/a                                      | n/a                   | n/a              | No               |
| WI1008-M12F8TS1                                   | PDO Connector type | M12 8-pin female A-coded - 180° Straight   | CANopen/DeviceNet n/a |                  | Connector        |
| M12 Con 8p Fem 0° Solder Shield                   |                    | - n/a                                      | n/a                   | n/a              | No               |
| WI1008-M12M12SS1                                  | PDO Connector type | M12 12-pin male A-coded - 180° Straight    | CANopen/DeviceNet n/a |                  | Connector        |
| M12 Con 12p Male 0° Solder assembly               |                    | - n/a                                      | n/a                   | n/a              | No               |
| WI1008-M12M12TS1                                  | PDO Connector type | M12 12-pin male A-coded - 180° Straight    | CANopen/DeviceNet n/a |                  | Connector        |
| M12 Con 12p Male 0° Solder Shield                 |                    | - n/a                                      | n/a                   | n/a              | No               |
| WI1008-M12M12VS1                                  | PDO Connector type | M12 12-pin male A-coded - 90° Angled       | CANopen/DeviceNet n/a |                  | Connector        |
| M12 Con 12p Male 90° Solder Shield                |                    | - n/a                                      | n/a                   | n/a              | No               |
| WI1008-M12M17SR1                                  | PDO Connector type | M12 17-pin male A-coded - 180° Straight    | CANopen/DeviceNet n/a |                  | Connector        |
| M12 Con 17p Male 0° Metal housing 5.4-8.2mm cable |                    | - n/a                                      | n/a                   | n/a              | No               |
| WI1008-M12M5AC1                                   | PDO Connector type | M12 5-pin male A-coded - 90° Angled        | CANopen/DeviceNet n/a |                  | Connector        |
| M12 Con 5p Male 90° Screw PG7 for cable           |                    | - n/a                                      | n/a                   | n/a              | No               |
| WI1008-M12M5AG1                                   | PDO Connector type | M12 5-pin male A-coded - 90° Angled        | CANopen/DeviceNet n/a |                  | Connector        |
| M12 Con 5p Male 90° Spring Ø4-8mm cable           |                    | - n/a                                      | n/a                   | n/a              | No               |
| WI1008-M12M5SC1                                   | PDO Connector type | M12 5-pin male A-coded - 180° Straight     | CANopen/DeviceNet n/a |                  | Connector        |
| M12 Con 5p Male 0° Screw PG7 cable                |                    | - n/a                                      | n/a                   | n/a              | No               |
| WI1008-M12M5SS1                                   | PDO Connector type | M12 5-pin male A-coded - 180° Straight     | CANopen/DeviceNet n/a |                  | Connector        |
| M12 Con 5p Male 0° Solder assembly                |                    | - n/a                                      | n/a                   | n/a              | No               |
| WI1008-M12M5STR4                                  | PDO Connector type | M12 5-pin male A-coded - 180° Straight     | CANopen/DeviceNet n/a |                  | Connector        |
| M12 Con 5-pin male A Code Resistor CAN            |                    | - n/a                                      | n/a                   | n/a              | No               |
| WI1008-M12M5TC1                                   | PDO Connector type | M12 5-pin male A-coded - 180° Straight     | CANopen/DeviceNet n/a |                  | Connector        |
| M12 Con 5p Male A-coded Screw Shield              |                    | - n/a                                      | n/a                   | n/a              | No               |
| WI1008-M12M5TG1                                   | PDO Connector type | M12 5-pin male A-coded - 180° Straight     | CANopen/DeviceNet n/a |                  | Connector        |
| M12 Con 5p Male 0° Spring Shield                  |                    | - n/a                                      | n/a                   | n/a              | No               |
| WI1008-M12M5VG1                                   | PDO Connector type | M12 5-pin male A-coded - 90° Angled        | CANopen/DeviceNet n/a |                  | Connector        |
| M12 Con 5p Male 90° Spring Shield                 |                    | - n/a                                      | n/a                   | n/a              | No               |
| WI1008-M12M8SC1                                   | PDO Connector type | M12 8-pin male A-coded - 180° Straight     | CANopen/DeviceNet n/a |                  | Connector        |



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### Cable information

| Item number                                        | Mount on           | Cable con 1 +Con 1 angle                | Cable application | Wires no totally | Cable length [m] |
|----------------------------------------------------|--------------------|-----------------------------------------|-------------------|------------------|------------------|
| Item description                                   |                    | Cable con 2 +Con 2 angle                | Cable flexibility | Wire [mm2]       | Connector 1 LED  |
| M12 Con 8p Male 0° Screw Ø4-8mm cable              |                    | - n/a                                   | n/a               | n/a              | No               |
| WI1008-M12M8SS1                                    | PDO Connector type | M12 8-pin male A-coded - 180° Straight  | CANopen/DeviceNet | n/a              | Connector        |
| M12 Con 8p Male 0° Solder assembly                 |                    | - n/a                                   | n/a               | n/a              | No               |
| WI1008-M12M8TC1                                    | PDO Connector type | M12 8-pin male A-coded - 180° Straight  | CANopen/DeviceNet | n/a              | Connector        |
| M12 Con 8p Male 0° Screw Shield                    |                    | - n/a                                   | n/a               | n/a              | No               |
| WI1008-M12M8TS1                                    | PDO Connector type | M12 8-pin male A-coded - 180° Straight  | CANopen/DeviceNet | n/a              | Connector        |
| M12 Con 8p Male 0° Solder Shield                   |                    | - n/a                                   | n/a               | n/a              | No               |
| WI1009-M12M12T05N                                  | PDO Connector type | M12 12-pin male A-coded - 180° Straight | Basic I/O, Com    | 12               | 5                |
| M12 Shl Cab 5m 12p Male 0° RS422 6P twisted        |                    | Open Ended - n/a                        | Standard          | 0.061            | No               |
| WI1009-M12M12T20N                                  | PDO Connector type | M12 12-pin male A-coded - 180° Straight | Basic I/O, Com    | 12               | 20               |
| M12 Shl Cab 20m 12p Male 0° RS422 6P twisted       |                    | Open Ended - n/a                        | Standard          | 0.061            | No               |
| WI1009-M12M17T01N                                  | PDO Connector type | M12 17-pin male A-coded - 180° Straight | Basic I/O, Com    | 17               | 1                |
| M12 Shl Cable 1m 17p Mal 0° MISxx,Ex41 twisted     |                    | Open Ended - n/a                        | Standard          | 0.061            | No               |
| WI1009-M12M17T05N                                  | PDO Connector type | M12 17-pin male A-coded - 180° Straight | Basic I/O, Com    | 17               | 5                |
| M12 Shl Cable 5m 17p Mal 0° MISxx,Ex41 twisted     |                    | Open Ended - n/a                        | Standard          | 0.061            | No               |
| WI1009-M12M17T10R                                  | PDO Connector type | M12 17-pin male A-coded - 180° Straight | Basic I/O, Com    | 17               | 5                |
| M12 Shl Cable 10m 17p Mal 0° MISxx,Ex41 twisted    |                    | Open Ended - n/a                        | Robotic - 3D      | 0.061            | No               |
| WI1009-M12M17T20N                                  | PDO Connector type | M12 17-pin male A-coded - 180° Straight | Basic I/O, Com    | 17               | 20               |
| M12 Shl Cable 20m 17p Mal 0° MISxx,Ex41 twisted    |                    | Open Ended - n/a                        | Standard          | 0.061            | No               |
| WI1009-M12M17TF17T.5                               | PDO Connector type | M12 17-pin male A-coded - 180° Straight | Basic I/O, Com    | 17               | 0.5              |
| M12 Shl Cable.5m Male17p0°-Female 17p0° twist pair |                    | M12 17-pin female A-coded - n/a         | Standard          | 0.061            | No               |
| WI1009-M12M17TF17T01                               | PDO Connector type | M12 17-pin male A-coded - 180° Straight | Basic I/O, Com    | 17               | 1                |
| M12 Shl Cable 1m Male17p0°-Female 17p0° twist pair |                    | M12 17-pin female A-coded - n/a         | Standard          | 0.061            | No               |
| WI1009-M12M17TF17T02                               | PDO Connector type | M12 17-pin male A-coded - 180° Straight | Basic I/O, Com    | 17               | 2                |
| M12 Shl Cable 2m Male17p0°-Female 17p0° twist pair |                    | M12 17-pin female A-coded - n/a         | Standard          | 0.061            | No               |
| WI1009-M12M17TF17T04                               | PDO Connector type | M12 17-pin male A-coded - 180° Straight | Basic I/O, Com    | 17               | 4                |
| M12 Shl Cable 4m Male17p0°-Female 17p0° twist pair |                    | M12 17-pin female A-coded - n/a         | Standard          | 0.061            | No               |
| WI1009-M12M17V05N                                  | PDO Connector type | M12 17-pin male A-coded - 90° Angled    | Basic I/O, Com    | 17               | 5                |
| M12 Shl Cable 5m 17p Mal 90° MISxx,Ex41 twisted    |                    | Open Ended - n/a                        | Standard          | 0.061            | No               |
| WI1009-M12M17V05R                                  | PDO Connector type | M12 17-pin male A-coded - 90° Angled    | Basic I/O, Com    |                  | 5                |
| M12 Shl Cable 5m 17p Mal 90° MISxx,Ex41 twisted    |                    | - n/a                                   | Robotic - 3D      |                  | No               |
| WI1009-M12M17V10N                                  | PDO Connector type | M12 17-pin male A-coded - 90° Angled    | Basic I/O, Com    | 17               | 10               |
| M12 Shl Cable 10m 17p Mal 90° MISxx,Ex41 twisted   |                    | Open Ended - n/a                        | Standard          | 0.061            | No               |
| WI1009-M12M8Q1.2N                                  | PDO Connector type | M12 8-pin male A-coded - 90° Angled     | Basic I/O, Com    | 8                | 1.2              |
| M12 Shl Cable 1.2m 8p Male 90° 4P twisted          |                    | Open Ended - n/a                        | Standard          | 0.32             | No               |
| WI1009-M12M8V05N                                   | PDO Connector type | M12 8-pin male A-coded - 90° Angled     | Basic I/O, Com    | 8                | 5                |
| M12 Shl Cable 5m 8 p Male 90° 4P twisted           |                    | Open Ended - n/a                        | Standard          | 0.32             | No               |
| WI1009-M12M8V20N                                   | PDO Connector type | M12 8-pin male A-coded - 90° Angled     | Basic I/O, Com    | 8                | 20               |
| M12 Shl Cable 20m 8 p Male 90° 4P twisted          |                    | Open Ended - n/a                        | Standard          | 0.32             | No               |
| WI1010-M08M2T05P                                   | PDO Connector type | M8 2-pin male A-coded - 180° Straight   | STO               |                  | 5                |
| M8 STO shl cable 3pin 2wire male 5m                |                    | Open Ended - n/a                        | Standard          |                  | No               |
| WI1010-M08M4STO                                    | PDO Connector type | M8 4-pin male A-coded - n/a             | STO               | 4                | Connector        |
| M8 STO Disable plug for MIS17/23/34/43             |                    | - n/a                                   | n/a               | 0.2              |                  |
| WI1010-M08M4T03P                                   | PDO Connector type | M8 4-pin male A-coded - 180° Straight   | STO               | 4                | 3                |
| M8 STO 4Pin Male 0° Con Shl Yel 3m 1xcon           |                    | Open Ended - n/a                        | Standard          | 0.2              | No               |
| WI1010-M08M4T05P                                   | PDO Connector type | M8 4-pin male A-coded - 180° Straight   | STO               | 4                | 10               |
| M8 STO 4Pin Male 0° Con Shl Yel 5m 1xcon           |                    | Open Ended - n/a                        | Standard          | 0.2              | No               |
| WI1010-M08M4T1.5P                                  | PDO Connector type | M8 4-pin male A-coded - 180° Straight   | STO               |                  | 1.5              |
| M8 STO 4Pin Male 0° Con Shl Yel 1.5 m 1xcon, PA014 |                    | - n/a                                   | Standard          |                  | No               |
| WI1010-M08M4T15P                                   | PDO Connector type | M8 4-pin male A-coded - 180° Straight   | STO               | 4                | 15               |
| M8 STO 4Pin Male 0° Con. shl. Yel 15m 1xCon        |                    | Open Ended - n/a                        | Standard          | 0.2              | No               |
| WI1010-M08M4T20P                                   | PDO Connector type | M8 4-pin male A-coded - 180° Straight   | STO               | 4                | 20               |
| M8 STO 4P Male 0° Con. shl. Yel 20m                |                    | Open Ended - n/a                        | Standard          | 0.2              | No               |
| WI1010-M08M4TF3T.3P                                | PDO Connector type | M8 4-pin male A-coded - 180° Straight   | STO               |                  | 0.3              |
| M8 STO shl cable Male 4 pin to Female 3 pin.       |                    | M08 3-pin female A-coded - n/a          | Standard          |                  | No               |



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### Cable information

| Item number                                        | Mount on           | Cable con 1 +Con 1 angle                 | Cable application | Wires no totally | Cable length [m] |
|----------------------------------------------------|--------------------|------------------------------------------|-------------------|------------------|------------------|
| Item description                                   |                    | Cable con 2 +Con 2 angle                 | Cable flexibility | Wire [mm2]       | Connector 1 LED  |
| WI1010-M08M4TM4T10P                                | PDO Connector type | M8 4-pin male A-coded - 180° Straight    | STO               | 4                | 10               |
| M8 STO 4P Male 0°/4P Male 0° shl. Yel10m 2xCon     |                    | M08 4-pin male A-coded - n/a             | Standard          | 0.2              | No               |
| WI1010-M08M4TM4T20P                                | PDO Connector type | M8 4-pin male A-coded - 180° Straight    | STO               | 4                | 20               |
| M8 STO 4P Male 0°/4P Male 0° shl. Yel20m 2xCon     |                    | M08 4-pin male A-coded - n/a             | Standard          | 0.2              | No               |
| WI1010-M08M4V05P                                   | PDO Connector type | M8 4-pin male A-coded - 90° Angled       | STO               | 4                | 5                |
| M8 STO 4Pin Male 90° Con. shl. Yel 5m 1xCon        |                    | Open Ended - n/a                         | Standard          | 0.2              | No               |
| WI1010-M08M4V10P                                   | PDO Connector type | M8 4-pin male A-coded - 90° Angled       | STO               | 4                | 10               |
| M8 STO 4Pin Male 90° Con. shl. Yel 10m 1xCon       |                    | Open Ended - n/a                         | Standard          | 0.2              | No               |
| WI1010-M08M4VF4T01P                                | PDO Connector type | M8 4-pin male A-coded - 90° Angled       | STO               | 4                | 1                |
| M8 STO 4P Male 90°/4P Fem 0° shl. yel 1m 2xCon     |                    | M08 4-pin female A-coded - n/a           | Standard          | 0.2              | No               |
| WI1010-M08M4VF4T02P                                | PDO Connector type | M8 4-pin male A-coded - 90° Angled       | STO               | 4                | 2                |
| M8 STO 4P Male 90°/4P Fem 0° shl. yel 2m 2xCon     |                    | M08 4-pin female A-coded - n/a           | Standard          | 0.2              | No               |
| WI1010-M08M4VF4T03P                                | PDO Connector type | M8 4-pin male A-coded - 90° Angled       | STO               | 4                | 3                |
| M8 STO 4P Male 90°/4P Fem 0° shl. yel 3m 2xCon     |                    | M08 4-pin female A-coded - n/a           | Standard          | 0.2              | No               |
| WI1010-M08M4VM4V10P                                | PDO Connector type | M8 4-pin male A-coded - 90° Angled       | STO               | 4                | 10               |
| M8 STO 4P Male 90°/4P Male 90° shl. Yel 10m 2xCon  |                    | M08 4-pin male A-coded - n/a             | Standard          | 0.2              | No               |
| WI1010-M08M4VM4V20P                                | PDO Connector type | M8 4-pin male A-coded - 90° Angled       | STO               | 4                | 20               |
| M8 STO 4P Male 90°/4P Male 90° shl. Yel 20m 2xCon  |                    | M08 4-pin male A-coded - n/a             | Standard          | 0.2              | No               |
| WI1011-M12F8V10T                                   | PDO Connector type | M12 8-pin female - 90° Angled            |                   | 8                | 10               |
| M12 Shl Cable 10m 8 p Female 90° 4P twisted        |                    | Open Ended - n/a                         |                   | 0.32             | No               |
| WI1011-M12M8V1.2T                                  | PDO Connector type | M12 8-pin male - 90° Angled              |                   | 8                | 1.2              |
| M12 Shl Cable 1.2m 8 p Male 90° 4P twisted         |                    | Open Ended - n/a                         |                   | 0.32             | No               |
| WI1011-M12M8V10T                                   | PDO Connector type | M12 8-pin male - 90° Angled              |                   | 8                | 10               |
| M12 Shl Cable 10m 8 p Male 90° 4P twisted          |                    | Open Ended - n/a                         | Standard          | 0.32             | No               |
| WI1011-M12M8V15T                                   | PDO Connector type | M12 8-pin male - 90° Angled              |                   | 8                | 15               |
| M12 Shl Cable 15m 8 p Male 90° 4P twisted          |                    | Open Ended - n/a                         | Standard          | 0.32             | No               |
| WI1012-M12F8TF8T01T                                | PDO Connector type | M12 8-pin female A-coded - 180° Straight |                   | 8                | 1                |
| M12 Shl Cable 1m 8pF0°-8pF0° SMC-Enc twisted/shie  |                    | M12 8-pin female A-coded - n/a           |                   | 0.32             | No               |
| WI1012-M12F8TF8T02T                                | PDO Connector type | M12 8-pin female A-coded - 180° Straight |                   | 8                | 2                |
| M12 Shl Cable 2m 8pF0°-8pF0° SMC-Enc twisted/shie  |                    | M12 8-pin female A-coded - n/a           |                   | 0.32             | No               |
| WI1012-M12F8TF8T05T                                | PDO Connector type | M12 8-pin female A-coded - 180° Straight |                   | 8                | 5                |
| M12 Shl Cable 5m 8pF0°-8pF0° SMC-Enc twisted/shie  |                    | M12 8-pin female A-coded - n/a           |                   | 0.32             | No               |
| WI1012-M12F8TF8T20T                                | PDO Connector type | M12 8-pin female A-coded - 180° Straight |                   | 8                | 20               |
| M12 Shl Cable 20m 8pF0°-8pF0° SMC-Enc twisted/shie |                    | M12 8-pin female A-coded - n/a           |                   | 0.32             | No               |
| WI1012-M12F8TM17T01T                               | PDO Connector type | M12 8-pin female A-coded - 180° Straight |                   | 8                | 1                |
| M12 Shl Cable 1m 8pF 0° to 17pM 0° SMCxx twisted/s |                    | M12 17-pin male A-coded - n/a            |                   | 0.32             | No               |
| WI1012-M12F8TM17T05T                               | PDO Connector type | M12 8-pin female A-coded - 180° Straight |                   | 8                | 5                |
| M12 Shl Cable 5m 8pF 0° to 17pM 0° SMCxx twisted/s |                    | M12 17-pin male A-coded - n/a            |                   | 0.32             | No               |
| WI1012-M12F8TM17T20T                               | PDO Connector type | M12 8-pin female A-coded - 180° Straight |                   | 8                | 20               |
| M12 Shl Cable 20m 8pF 0° to 17pM 0° SMCxx twisted/ |                    | M12 17-pin male A-coded - n/a            |                   | 0.32             | No               |
| WI1013-M12M17TF4T.4N                               | PDO Connector type | M12 17-pin male A-coded - 180° Straight  |                   | 4                | 0.45             |
| M12 17pM, 0.45m M8-4pF Shl for MAB MIS             |                    | M08 4-pin female - n/a                   | Standard          | 0.13             | No               |
| WI1013-M12M17TF4TXAA                               | PDO Connector type | - 180° Straight                          |                   |                  | 0.45/2           |
| M12 17pM, 0.45m M8-4pF Shl for MAB + 2m cable MIS  |                    | M08 4-pin female - n/a                   | Standard          |                  | No               |
| WI1025-M12F5AF5AM5A                                | PDO Connector type | M12 5-pin female A-coded - 90° Angled    |                   | 5                |                  |
| M12 T-Con 2x Fem 5 p + 1x Male 5 p                 |                    | M12 5-pin female A-coded - n/a           | Standard          | 0.32             | No               |
| WI1025-M12F5AM5A                                   | PDO Connector type | M12 5-pin female A-coded - 90° Angled    |                   | 5                |                  |
| M12 Cabinet Feed-through F5p-M5p                   |                    | M12 5-pin male A-coded - n/a             | Standard          | 0.32             | No               |
| WI1025-M12F5AM5AF5A                                | PDO Connector type | M12 5-pin female A-coded - 90° Angled    |                   | 5                |                  |
| M12 T-Con Fem 5p+ Male 5p + Fem 5p NoSh            |                    | M12 5-pin male A-coded - n/a             | Standard          | 0.32             | No               |
| WI1025-M12F5VM5VF5V                                | PDO Connector type | M12 5-pin female A-coded - 90° Angled    |                   | 5                |                  |
| M12 Shl Y-Con 1xMale 5p + 2x Fem 5p CAN            |                    | M12 5-pin male A-coded CAN - n/a         | Standard          | 0.32             | No               |
| WI1025-M12F8AM8A                                   | PDO Connector type | M12 8-pin female A-coded - 90° Angled    |                   | 5                |                  |
| M12 Cabinet Feed-through F8p-M8p                   |                    | M12 8-pin male A-coded - n/a             | Standard          | 0.32             | No               |
| WI1025-M12M5AF5AF8A                                | PDO Connector type | M12 5-pin male A-coded - 90° Angled      |                   | 5                |                  |



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### Cable information

| Item number                                      | Mount on           | Cable con 1 +Con 1 angle                             | Cable application | Wires no totally | Cable length [m] |
|--------------------------------------------------|--------------------|------------------------------------------------------|-------------------|------------------|------------------|
| Item description                                 |                    | Cable con 2 +Con 2 angle                             | Cable flexibility | Wire [mm2]       | Connector 1 LED  |
| M12 T-Con Male 5 p + Fem 5 p + 1 Fem 8 p         |                    | M12 5-pin male A-coded - n/a                         | Standard          | 0.32             | No               |
| WI1025-M12M5VM5VF5V                              | PDO Connector type | M12 5-pin male A-coded - 90° Angled                  |                   | 5                |                  |
| M12 Shl Y-Con 2xMale 5p + 1xFem 5p RS485         |                    | M12 5-pin male A-coded - n/a                         | Standard          | 0.32             | No               |
| WI1026-M12F5S02R                                 | PDO Connector type | M12 5-pin female B-coded Profibus - 180°<br>Straight | Profibus          | 2                | 2                |
| M12 Shl Cab 2m 5p Fem 0° B-cod Profibus          |                    | Open Ended - n/a                                     | Robotic - 3D      | 0.2              | No               |
| WI1026-M12F5S05R                                 | PDO Connector type | M12 5-pin female B-coded Profibus - 180°<br>Straight | Profibus          | 2                | 5                |
| M12 Shl Cab 5m 5p Fem 0° B-cod Profibus          |                    | Open Ended - n/a                                     | Robotic - 3D      | 0.2              | No               |
| WI1026-M12F5S10R                                 | PDO Connector type | M12 5-pin female B-coded Profibus - 180°<br>Straight | Profibus          | 2                | 10               |
| M12 Shl Cab 10m 5p Fem 0° B-cod Profibus         |                    | Open Ended - n/a                                     | Robotic - 3D      | 0.2              | No               |
| WI1026-M12F5S15R                                 | PDO Connector type | M12 5-pin female B-coded Profibus - 180°<br>Straight | Profibus          | 2                | 15               |
| M12 Shl Cab 15m 5p Fem 0° B-cod Profibus         |                    | Open Ended - n/a                                     | Robotic - 3D      | 0.2              | No               |
| WI1026-M12M5S02R                                 | PDO Connector type | M12 5-pin male B-coded Profibus - 180°<br>Straight   | Profibus          | 2                | 2                |
| M12 Shl Cab 2m 5p Mal 0° B-cod Profibus          |                    | Open Ended - n/a                                     | Robotic - 3D      | 0.2              | No               |
| WI1026-M12M5S05R                                 | PDO Connector type | M12 5-pin male B-coded Profibus - 180°<br>Straight   | Profibus          | 2                | 5                |
| M12 Shl Cab 5m 5p Mal 0° B-cod Profibus          |                    | Open Ended - n/a                                     | Robotic - 3D      | 0.2              | No               |
| WI1026-M12M5S10R                                 | PDO Connector type | M12 5-pin male B-coded Profibus - 180°<br>Straight   | Profibus          | 2                | 10               |
| M12 Shl Cab 10m 5p Mal 0° B-cod Profibus         |                    | Open Ended - n/a                                     | Robotic - 3D      | 0.2              | No               |
| WI1026-M12M5S15R                                 | PDO Connector type | M12 5-pin male B-coded Profibus - 180°<br>Straight   | Profibus          | 2                | 15               |
| M12 Shl Cab 15m 5p Mal 0° B-cod Profibus         |                    | Open Ended - n/a                                     | Robotic - 3D      | 0.2              | No               |
| WI1028-M12F5SS1                                  | PDO Connector type | M12 5-pin female B-coded profibus - 180°<br>Straight | Profibus          | n/a              | Connector        |
| M12 Con 5p Fem 0° B-cod Profibus Solder assembly |                    | - n/a                                                | n/a               | n/a              | No               |
| WI1028-M12F5TG1                                  | PDO Connector type | M12 5-pin female B-coded profibus - 180°<br>Straight | Profibus          | n/a              | Connector        |
| M12 Con 5p Fem 0° B-cod Profibus Spring          |                    | - n/a                                                | n/a               | n/a              | No               |
| WI1028-M12F5VG1                                  | PDO Connector type | M12 5-pin female B-coded profibus - 90°<br>Angled    | Profibus          | n/a              | Connector        |
| M12 Con 5p Fem 90° B-cod Profibus Spring         |                    | - n/a                                                | n/a               | n/a              | No               |
| WI1028-M12M4STR3                                 | PDO Connector type | M12 4-pin male B-coded profibus - 180°<br>Straight   | Profibus          | n/a              | Connector        |
| M12 Term. Resistor 4p Mal B-cod Profibus         |                    | - n/a                                                | n/a               | n/a              | No               |
| WI1028-M12M5TC1                                  | PDO Connector type | M12 5-pin male B-coded profibus - 180°<br>Straight   | Profibus          | n/a              | Connector        |
| M12 Con 5p Mal 0° B Profibus Screw Shl           |                    | - n/a                                                | n/a               | n/a              | No               |
| WI1028-M12M5TG1                                  | PDO Connector type | M12 5-pin male B-coded profibus - 180°<br>Straight   | Profibus          | n/a              | Connector        |
| M12 Con 5p Mal 0° B Profibus Spring Shl          |                    | - n/a                                                | n/a               | n/a              | No               |
| WI1028-M12M5VG1                                  | PDO Connector type | M12 5-pin male B-coded profibus - 90° Angled         | Profibus          | n/a              | Connector        |
| M12 Con 5p Mal 90° B Profibus SpringShl          |                    | - n/a                                                | n/a               | n/a              | No               |
| WI1046-M12M4S.3NRJ45                             | PDO Connector type | M12 4-pin male D-coded Ethernet - 180°<br>Straight   | Ethernet          | 4                | 0.3              |
| M12 Cab D-code Ethernet M0°-RJ45, 0.3m, Ø5       |                    | RJ45 male - n/a                                      | Standard          | 0.13             | No               |
| WI1046-M12M4S01NRJ45                             | PDO Connector type | M12 4-pin male D-coded Ethernet - 180°<br>Straight   | Ethernet          | 4                | 1                |
| M12 Cab D-code Ethernet M0°-RJ45, 1.0m, Ø5       |                    | RJ45 male - n/a                                      | Standard          | 0.13             | No               |
| WI1046-M12M4S05NRJ45                             | PDO Connector type | M12 4-pin male D-coded Ethernet - 180°<br>Straight   | Ethernet          | 4                | 5                |
| M12 Cab D-code Ethernet M0°-RJ45, SFTP, 5m, Ø5   |                    | RJ45 male - n/a                                      | Standard          | 0.13             | No               |
| WI1046-M12M4S05R                                 | PDO Connector type | M12 4-pin male D-coded Ethernet - 180°<br>Straight   | Ethernet          | 4                | 5                |
| M12 Cab D-code Ethernet M0°, SFTP, 5m Ø7         |                    | Open Ended - n/a                                     | Cable chains - 2D | 0.13             | No               |
| WI1046-M12M4S10NRJ45                             | PDO Connector type | M12 4-pin male D-coded Ethernet - 180°<br>Straight   | Ethernet          | 4                | 10               |
| M12 Cab D-code Ethernet M0°-RJ45, 10m, Ø5        |                    | RJ45 male - n/a                                      | Standard          | 0.13             | No               |
| WI1046-M12M4S15NRJ45                             | PDO Connector type | M12 4-pin male D-coded Ethernet - 180°<br>Straight   | Ethernet          | 4                | 15               |
| M12 Cab D-code Ethernet M0°-RJ45, 15m, RJ45 Ø5   |                    | RJ45 male - n/a                                      | Standard          | 0.13             | No               |
| WI1046-M12M4S15R                                 | PDO Connector type | M12 4-pin male D-coded Ethernet - 180°<br>Straight   | Ethernet          | 4                | 15               |
| M12 Cab D-code Ethernet M0°, 15m Ø7              |                    | Open Ended - n/a                                     | Cable chains - 2D | 0.13             | No               |
| WI1046-M12M4T.3TRJ45                             | PDO Connector type | M12 4-pin male D-coded Ethernet - 180°<br>Straight   | Ethernet          | 4                | 0.3              |
| M12 Cab D-code Ethernet M0°-RJ45, 0.3m, RJ45 Ø5  |                    | RJ45 male - n/a                                      | Standard          | 0.13             | No               |



## MAC402-D2-FAGM

Int.Servo.AC 400WS1 1.28Nm IP55 Abs

### Cable information

| Item number                                     | Mount on           | Cable con 1 +Con 1 angle                              | Cable application | Wires no totally | Cable length [m] |
|-------------------------------------------------|--------------------|-------------------------------------------------------|-------------------|------------------|------------------|
| Item description                                |                    | Cable con 2 +Con 2 angle                              | Cable flexibility | Wire [mm2]       | Connector 1 LED  |
| WI1046-M12M4T01TRJ45                            | PDO Connector type | M12 4-pin male D-coded Ethernet - 180°<br>Straight    | Ethernet          | 4                | 1                |
| M12 Cab D-code Ethernet M0°-RJ45, 1m, RJ45 Ø5   |                    | RJ45 male - n/a                                       | Standard          | 0.13             | No               |
| WI1046-M12M4T02NRJ45                            | PDO Connector type | M12 4-pin male D-coded Ethernet - 180°<br>Straight    | Ethernet          | 4                | 2                |
| M12 Cab D-code Ethernet M0°-RJ45, 2m, Ø5        |                    | RJ45 male - n/a                                       | Standard          | 0.13             | No               |
| WI1046-M12M4T05TRJ45                            | PDO Connector type | M12 4-pin male D-coded Ethernet - 180°<br>Straight    | Ethernet          | 4                | 5                |
| M12 Cab D-code Ethernet M0°-RJ45, 5m, Ø5        |                    | RJ45 male - n/a                                       | Standard          | 0.13             | No               |
| WI1046-M12M4T10TRJ45                            | PDO Connector type | M12 4-pin male D-coded Ethernet - 180°<br>Straight    | Ethernet          | 4                | 10               |
| M12 Cab D-code Ethernet M0°-RJ45, 10m, Ø5       |                    | RJ45 male - n/a                                       | Standard          | 0.13             | No               |
| WI1046-M12M4T15TRJ45                            | PDO Connector type | M12 4-pin male D-coded Ethernet - 180°<br>Straight    | Ethernet          | 4                | 15               |
| M12 Cab D-code Ethernet M0°-RJ45, SFTP, 15m, Ø5 |                    | RJ45 male - n/a                                       | Standard          | 0.13             | No               |
| WI1046-M12M4T20TRJ45                            | PDO Connector type | M12 4-pin male D-coded Ethernet - 180°<br>Straight    | Ethernet          | 4                | 20               |
| M12 Cab D-code Ethernet M0°-RJ45, 20m, Ø5       |                    | RJ45 male - n/a                                       | Standard          | 0.13             | No               |
| WI1046-M12M4TM4T.3R                             | PDO Connector type | M12 4-pin male D-coded Ethernet - 180°<br>Straight    | Ethernet          | 4                | 0.3              |
| M12 Cab D-code Ethernet M0°-M0°, 0,3m, Ø6       |                    | M12 4-pin male D-coded Ethernet - n/a                 | Robotic - 3D      | 0.14             | No               |
| WI1046-M12M4TM4T.3T                             | PDO Connector type | M12 4-pin male D-coded Ethernet - 180°<br>Straight    | Ethernet          | 4                | 0.3              |
| M12 Cab D-code Ethernet M0°-M0°, 0,3m, Ø6       |                    | M12 4-pin male D-coded Ethernet - n/a                 | Standard          | 0.13             | No               |
| WI1046-M12M4TM4T01R                             | PDO Connector type | M12 4-pin male D-coded Ethernet - 180°<br>Straight    | Ethernet          | 4                | 1                |
| M12 Cab D-code Ethernet M0°-M0°, 1m, Ø7         |                    | M12 4-pin male D-coded Ethernet - n/a                 | Robotic - 3D      | 0.14             | No               |
| WI1046-M12M4TM4T01T                             | PDO Connector type | M12 4-pin male D-coded Ethernet - 180°<br>Straight    | Ethernet          | 4                | 1                |
| M12 Cab D-code Ethernet M0°-M0°, 1m, Ø6         |                    | M12 4-pin male D-coded Ethernet - n/a                 | Standard          | 0.13             | No               |
| WI1046-M12M4TM4T02R                             | PDO Connector type | M12 4-pin male D-coded Ethernet - 180°<br>Straight    | Ethernet          | 4                | 2                |
| M12 Cab D-code Ethernet M0°-M0°, 2,0m, Ø7       |                    | M12 4-pin male D-coded Ethernet - n/a                 | Robotic - 3D      | 0.14             | No               |
| WI1046-M12M4TM4T02T                             | PDO Connector type | M12 4-pin male D-coded Ethernet - 180°<br>Straight    | Ethernet          | 4                | 2                |
| M12 Cab D-code Ethernet M0°-M0°, 2,0m, Ø6       |                    | M12 4-pin male D-coded Ethernet - n/a                 | Standard          | 0.13             | No               |
| WI1046-M12M4TM4T05R                             | PDO Connector type | M12 4-pin male D-coded Ethernet - 180°<br>Straight    | Ethernet          | 4                | 5                |
| M12 Cab D-code Ethernet M0°-M0°, 5m, Ø7         |                    | M12 4-pin male D-coded Ethernet - n/a                 | Robotic - 3D      | 0.14             | No               |
| WI1046-M12M4TM4T05T                             | PDO Connector type | M12 4-pin male D-coded Ethernet - 180°<br>Straight    | Ethernet          | 4                | 5                |
| M12 Cab D-code Ethernet M0°-M0°, 5m, Ø6         |                    | M12 4-pin male D-coded Ethernet - n/a                 | Standard          | 0.13             | No               |
| WI1046-M12M4TM4T10R                             | PDO Connector type | M12 4-pin male D-coded Ethernet - 180°<br>Straight    | Ethernet          | 4                | 10               |
| M12 Cab D-code Ethernet M0°-M0°, 10m, Ø7        |                    | M12 4-pin male D-coded Ethernet - n/a                 | Robotic - 3D      | 0.14             | No               |
| WI1046-M12M4TM4T10T                             | PDO Connector type | M12 4-pin male D-coded Ethernet - 180°<br>Straight    | Ethernet          | 4                | 10               |
| M12 Cab D-code Ethernet M0°-M0°, 10m, Ø6        |                    | M12 4-pin male D-coded Ethernet - n/a                 | Standard          | 0.13             | No               |
| WI1046-M12M4TM4T15R                             | PDO Connector type | M12 4-pin male D-coded Ethernet - 180°<br>Straight    | Ethernet          | 4                | 15               |
| M12 Cab D-code Ethernet M0°-M0°, 15m, Ø7        |                    | M12 4-pin male D-coded Ethernet - n/a                 | Robotic - 3D      | 0.14             | No               |
| WI1046-M12M4TM4T20R                             | PDO Connector type | M12 4-pin male D-coded Ethernet - 180°<br>Straight    | Ethernet          | 4                | 20               |
| M12 Cab D-code Ethernet M0°-M0°, 20m, Ø7        |                    | M12 4-pin male D-coded Ethernet - n/a                 | Robotic - 3D      | 0.14             | No               |
| WI1046-M12M4TM4T20T                             | PDO Connector type | M12 4-pin male D-coded Ethernet - 180°<br>Straight    | Ethernet          | 4                | 20               |
| M12 Cab D-code Ethernet M0°-M0°, 20m, Ø6        |                    | M12 4-pin male D-coded Ethernet - n/a                 | Standard          | 0.13             | No               |
| WI1046-M12M4V02TRJ45                            | PDO Connector type | M12 4-pin male D-coded Ethernet - 90° Angled Ethernet | Ethernet          | 4                | 2                |
| M12 Cab D-code Ethernet M90°-RJ45, 2m, Ø5       |                    | RJ45 male - n/a                                       | Standard          | 0.13             | No               |
| WI1046-M12M4V05TRJ45                            | PDO Connector type | M12 4-pin male D-coded Ethernet - 90° Angled Ethernet | Ethernet          | 4                | 5                |
| M12 Cab D-code Ethernet M90°-RJ45, 5m, Ø6       |                    | RJ45 male - n/a                                       | Standard          | 0.13             | No               |
| WI1046-M12M4VM4T.6N                             | PDO Connector type | M12 4-pin male D-coded Ethernet - 90° Angled Ethernet | Ethernet          | 4                | 0.6              |
| M12 Cab D-code Ethernet M90°-M0°, 0,6m, Ø6      |                    | M12 4-pin male D-coded Ethernet - n/a                 | Standard          | 0.13             | No               |
| WI1046-M12M4VM4V.6N                             | PDO Connector type | M12 4-pin male D-coded Ethernet - 90° Angled Ethernet | Ethernet          | 4                | 0.6              |
| M12 Cab D-code Ethernet M90°-M90°, 0,6m, Ø6     |                    | M12 4-pin male D-coded Ethernet - n/a                 | Standard          | 0.13             | No               |
| WI1048-M12F4TTR1                                | PDO Connector type | M12 4-pin female D-coded Ethernet - 180°<br>Straight  | Ethernet          |                  | Connector        |
| M12 Con 4 p female D Code Ethernet PressLock    |                    | - n/a                                                 | n/a               |                  | No               |
| WI1048-M12M4TTR1                                | PDO Connector type | M12 4-pin male D-coded Ethernet - 180°<br>Straight    | Ethernet          |                  | Connector        |
| M12 Con 4 p Male D Code Ethernet PressLock      |                    | - n/a                                                 | n/a               |                  | No               |

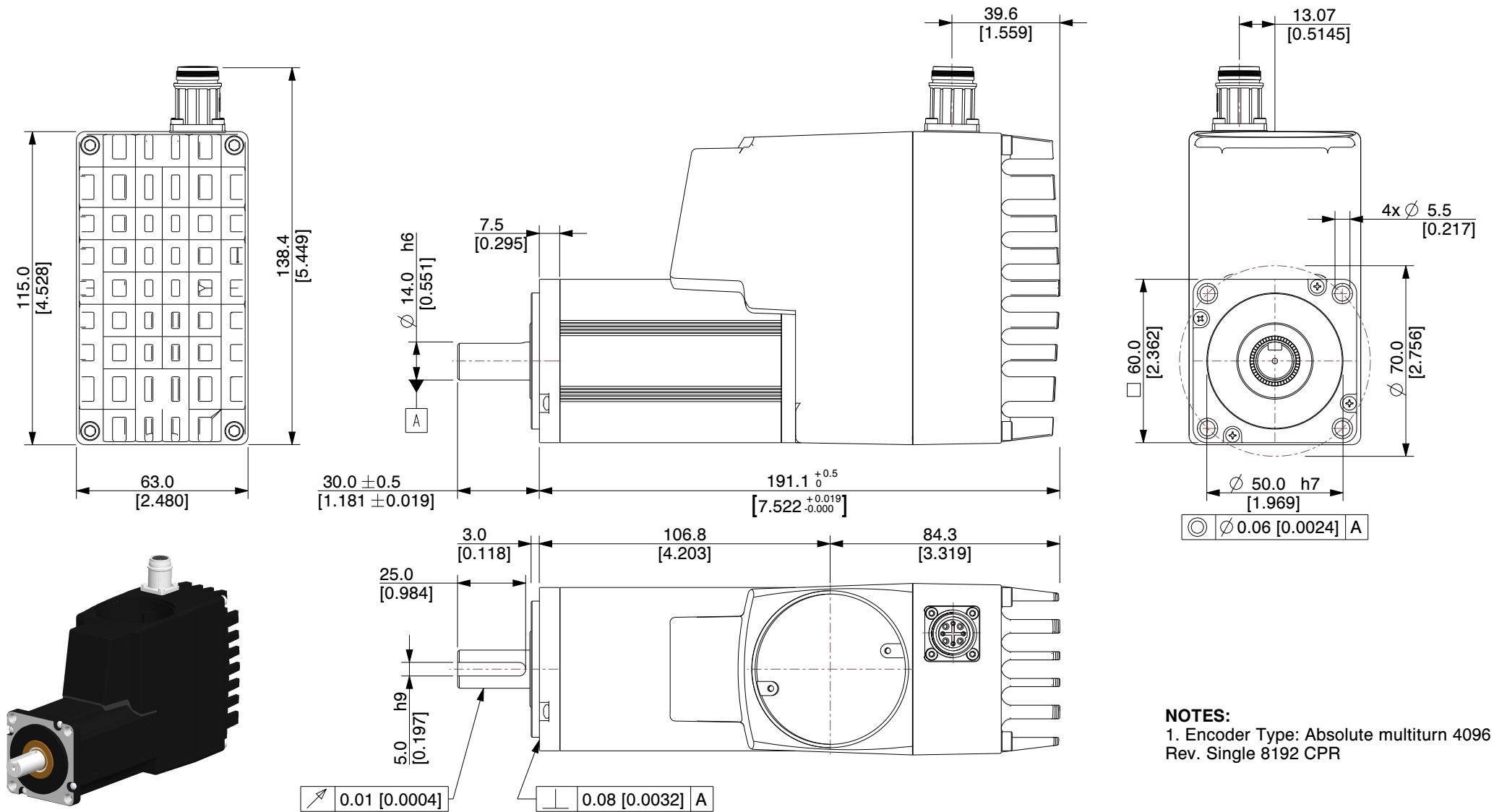


## MAC402-D2-FAGM

Int.Servo.AC 400WS1 1.28Nm IP55 Abs

### Cable information

| Item number                                       | Mount on           | Cable con 1 +Con 1 angle         | Cable application | Wires no totally | Cable length [m] |
|---------------------------------------------------|--------------------|----------------------------------|-------------------|------------------|------------------|
| Item description                                  |                    | Cable con 2 +Con 2 angle         | Cable flexibility | Wire [mm2]       | Connector 1 LED  |
| WI1050-M23M13T05Q                                 | PDO Connector type | M23 13-pin male - 180° Straight  |                   | 13               | 5                |
| M23 Hybrid Phoenix SpeedCon: male 13 pin 5m       |                    | Open Ended - n/a                 |                   |                  | No               |
| WI1060-M12M5T05N                                  | PDO Connector type | M12 5-pin male - 180° Straight   |                   | 5                | 5                |
| M12 K Code 5pin 4+1 EA female shielded, IP67 5m   |                    | Open Ended - n/a                 |                   |                  | No               |
| WI1061-M12F5T10N                                  | PDO Connector type | M12 5-pin female - 180° Straight |                   | 5                | 10               |
| M12 L Code 5pin female 10m                        |                    | Open Ended - n/a                 |                   |                  | No               |
| WI1061-M12F5T20N                                  | PDO Connector type | M12 5-pin female - 180° Straight |                   | 5                | 20               |
| M12 L Code 5pin female 20m free end IP67          |                    | Open Ended - n/a                 |                   |                  | No               |
| WI1061-M12F5TM16T01S                              | PDO Connector type | M12 5-pin female - 180° Straight |                   | 5                | 1                |
| M12 L Code 5pin female to M16 7pin male, 1m 2D    |                    | M16 7pin male - n/a              |                   |                  | No               |
| WI1061-M12F5TM16T05N                              | PDO Connector type | M12 5-pin female - 180° Straight |                   | 5                | 5                |
| M12 L Code 5pin female to M16 7pin male, 5m       |                    | M16 7pin male - n/a              |                   |                  | No               |
| WI1061-M12F5TM16T05S                              | PDO Connector type | M12 5-pin female - 180° Straight |                   | 5                | 5                |
| M12 L Code 5pin female to M16 7pin male, 5m 2D    |                    | M16 7pin male - n/a              |                   |                  | No               |
| WI1061-M12F5TM16T20S                              | PDO Connector type | M12 5-pin female - 180° Straight |                   | 5                | 20               |
| M12 L Code 5pin female to M16 7pin male, 20m 2D   |                    | M16 7pin male - n/a              |                   |                  | No               |
| WI1061-M12M5TF5T01N                               | PDO Connector type | M12 5-pin male - 180° Straight   |                   | 5                | 1                |
| M12 L Code 5pin male to female shielded, IP67     |                    | M12 5-pin female A-coded - n/a   |                   |                  | No               |
| WI1061-M12M5TF5T01S                               | PDO Connector type | M12 5-pin male - 180° Straight   |                   | 5                | 1                |
| M12 L Code 5pin male to female shielded, IP67 2D  |                    | M12 5-pin female A-coded - n/a   |                   |                  | No               |
| WI1061-M12M5TF5T05N                               | PDO Connector type | M12 5-pin male - 180° Straight   |                   | 5                | 5                |
| M12 L Code 5pin male to female shielded, IP67     |                    | M12 5-pin female A-coded - n/a   |                   |                  | No               |
| WI1061-M12M5TF5T15N                               | PDO Connector type | M12 5-pin male - 180° Straight   |                   | 5                | 5                |
| M12 L Code 5pin male to female 15m shielded, IP67 |                    | M12 5-pin female A-coded - n/a   |                   |                  | No               |



**NOTES:**  
 1. Encoder Type: Absolute multturn 4096 Rev. Single 8192 CPR

|                                                                                                                                                                                       |  |                                                                                       |  |                                                                                                     |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------------------------|--|
| <b>JVL A/S</b><br>Bregnerødvej 127<br>DK-3460 Birkerød<br>Denmark                                                                                                                     |  |  |  | <br>www.jvl.dk |  |
| <b>PART NUMBER:</b>                                                                                                                                                                   |  |                                                                                       |  |                                                                                                     |  |
| <b>MAC402-D2-FAGM</b>                                                                                                                                                                 |  |                                                                                       |  |                                                                                                     |  |
| <b>PART DESCRIPTION:</b>                                                                                                                                                              |  |                                                                                       |  |                                                                                                     |  |
| <b>Integrated Stepper Motor</b>                                                                                                                                                       |  |                                                                                       |  |                                                                                                     |  |
|   <b>A4</b> |  | SCALE                                                                                 |  | NTS                                                                                                 |  |
|                                                                                                                                                                                       |  | UNIT                                                                                  |  | MM [Inch]                                                                                           |  |
| Unless specifically stated otherwise, this drawing is the property of JVL A/S and no feature embodied herein may be disclosed except as previously authorized                         |  |                                                                                       |  |                                                                                                     |  |