



## MATERIAL FACT SHEET

### 271689 FX3S-20MR/DS

#### General Data

|                     |                          |
|---------------------|--------------------------|
| Product Hierarchy   | IAD215                   |
|                     | Compact PLC              |
|                     | FX3S                     |
| Ext. Material Group | 10 STANDARD ITEM         |
| ABC Indicator       | A (Available from Stock) |

e-shop: [https://mitsubishi-electric-eshop.mee.com/mee/FA\\_I/A/EUR/en/p/000000000000271689](https://mitsubishi-electric-eshop.mee.com/mee/FA_I/A/EUR/en/p/000000000000271689)

#### FA-COM PLC: Main Unit

|                               |                 |
|-------------------------------|-----------------|
| Series                        | MELSEC-F SERIES |
| Type                          | FX3S            |
| Power Supply (V)              | 24              |
| Current Type                  | DC              |
| Program Memory                | 16K STEPS       |
| Program Memory Unit           | EEPROM          |
| Integrated Digital Inputs     | 12              |
| Integrated Digital Outputs    | 8               |
| Output Type                   | RELAY           |
| Local I/O Points              | 30              |
| Local + Remote I/O Points     | 30              |
| Expandable                    | NO              |
| Cycle Time LD (ns)            | 210             |
| Cycle Time MOV (ns)           | 500             |
| USB                           | 1               |
| RS-422                        | 1               |
| Power Consumption (W)         | 7               |
| Buffer Battery                | NO              |
| Protection Class              | IP10            |
| Min. Ambient Temperature (°C) | 0               |
| Max. Ambient Temperature (°C) | 55              |

#### Product Dimensions & Weight

|             |       |
|-------------|-------|
| Width (mm)  | 75    |
| Height (mm) | 90    |
| Depth (mm)  | 49    |
| Weight (kg) | 0,342 |

#### Logistic Dimensions & Gross Weight

|                   |       |
|-------------------|-------|
| Length (cm)       | 14,0  |
| Width (cm)        | 11,0  |
| Height (cm)       | 10,0  |
| Gross Weight (kg) | 0,380 |
| Volume (cdm)      | 1,540 |

#### Stock Data

|                              |    |
|------------------------------|----|
| Planned Delivery Time (Days) | 51 |
|------------------------------|----|

#### Life Cycle

|             |                       |
|-------------|-----------------------|
| Sales Start | 21.02.2014            |
| Predecessor | 141251 / FX1S-20MR-DS |

#### Additional Product Information

|                            |                  |
|----------------------------|------------------|
| Binding Tariff Information | DEBTI-10854/21-1 |
| BTI validity date          | 10.10.2024       |
| Battery included           | NO               |

## Export Data

|                                          |            |
|------------------------------------------|------------|
| Legal Control (Dual Use List)            | Not Listed |
| Country of Origin                        | Japan (JP) |
| Preference Status (Supplier Declaration) | Non EU     |

## Environmental

|                            |           |
|----------------------------|-----------|
| REACH Limit Exceeded       | NO        |
| Dangerous Goods Class      | NO        |
| Dangerous Goods Identifier | NO        |
| RoHS Compliance            | COMPLIANT |
| WEEE                       | B2B       |

## Conformity

|                    |                     |
|--------------------|---------------------|
| CE                 | COMPLIANT           |
| UL/cUL             | COMPLIANT           |
| EAC                | COMPLIANT           |
| Shipping Approvals | ABS,BV,DNV GL,LR,NK |
| UKCA               | COMPLIANT           |

## Documentation & Media Data

|                            |                                                                                                                                                                                                                                                                                             |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Manual URL Indicator       | <a href="https://emea.mitsubishielectric.com/fa/advanced-search?ct=document&amp;doc-cats=bltdae25c2bd5f2ff94&amp;q=FX3S-20MR/DS&amp;doc-lang=en">https://emea.mitsubishielectric.com/fa/advanced-search?ct=document&amp;doc-cats=bltdae25c2bd5f2ff94&amp;q=FX3S-20MR/DS&amp;doc-lang=en</a> |
| Certificates URL Indicator | <a href="https://emea.mitsubishielectric.com/fa/advanced-search?ct=document&amp;doc-cats=blt8050dd1408c11cc2&amp;q=FX3S-20MR/DS&amp;doc-lang=en">https://emea.mitsubishielectric.com/fa/advanced-search?ct=document&amp;doc-cats=blt8050dd1408c11cc2&amp;q=FX3S-20MR/DS&amp;doc-lang=en</a> |
| CAD URL Indicator          | <a href="https://emea.mitsubishielectric.com/fa/advanced-search?ct=document&amp;doc-cats=blt26ecc97a31a841c1&amp;q=FX3S-20MR/DS&amp;doc-lang=en">https://emea.mitsubishielectric.com/fa/advanced-search?ct=document&amp;doc-cats=blt26ecc97a31a841c1&amp;q=FX3S-20MR/DS&amp;doc-lang=en</a> |

## Product Packaging

|                   |    |
|-------------------|----|
| Cardboard (g)     | 73 |
| Other paper (g)   | 0  |
| Aluminum (g)      | 0  |
| Steel (g)         | 0  |
| Styrofoam (g)     | 0  |
| Other plastic (g) | 0  |
| Wood (g)          | 0  |
| Glass (g)         | 0  |
| Others (g)        | 0  |

## Compatible products

| Material               | Description / Price List Text / Classification                                                                                                 |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| <a href="#">31870</a>  | FX-20P-CADP<br>GOT FX Series Adapter cable; 0.3 m<br>Class 100100110: FA-COM PLC: Cable                                                        |
| <a href="#">76094</a>  | FX-422CAB0<br>RS422 connection cable for FX0/0S/0N/2N<br>Class 100100110: FA-COM PLC: Cable                                                    |
| <a href="#">159642</a> | FX-232AWC-H<br>RS-422/RS-232C converter to connect FX PLC and PC<br>Class 100100111: FA-COM PLC: Other Option                                  |
| <a href="#">221252</a> | FX3G-422-BD<br>PLC, FX3G Interface adapter RS422<br>Class 100100107: FA-COM PLC: Serial Com Module                                             |
| <a href="#">221253</a> | FX3G-485-BD<br>PLC, FX3G Interface module RS485, 1:n Multidrop, network expansion until 50 m<br>Class 100100107: FA-COM PLC: Serial Com Module |
| <a href="#">221254</a> | FX3G-232-BD<br>PLC, FX3G Interface module RS232C<br>Class 100100107: FA-COM PLC: Serial Com Module                                             |
| <a href="#">221265</a> | FX3G-2AD-BD<br>PLC, FX3G Analog adapter, 2 analog inputs, 12bit<br>Class 100100103: FA-COM PLC: Analogue I/O Module                            |
| <a href="#">221266</a> | FX3G-1DA-BD<br>PLC, FX3G Analog adapter, 1 analog output, 12bit<br>Class 100100103: FA-COM PLC: Analogue I/O Module                            |
| <a href="#">221267</a> | FX3G-8AV-BD<br>PLC, FX3G Analog setpoint adapter for 8 setpoint values<br>Class 100100111: FA-COM PLC: Other Option                            |

| Material               | Description / Price List Text / Classification                                                                                                         |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| <a href="#">221269</a> | FX3G-EEPROM-32L<br>PLC, FX3G EEPROM memory cassette/loader; 32k steps PLC program<br>Class 100100111: FA-COM PLC: Other Option                         |
| <a href="#">221271</a> | FX-30P<br>PLC, FX Series Hand-held programming unit<br>Class 100100111: FA-COM PLC: Other Option                                                       |
| <a href="#">221540</a> | USB-CAB-5M<br>USB 2.0 connection cabel, plug USB A to plug USB B (mini), 5m<br>Class 100100303: FA-HMI: Cable                                          |
| <a href="#">234630</a> | GX Works2 V01-2L0C-E<br>PLC Programming –S/W for MELSEC Q/L/F; USB; 2 PCs<br>Class 100101201: FA-Software: Software PLC                                |
| <a href="#">234631</a> | GX Works2 V01-5L0C-E<br>PLC Programming –S/W for MELSEC Q/L/F;engl;USB;5 PC´s<br>Class 100101201: FA-Software: Software PLC                            |
| <a href="#">244876</a> | GX Works2 V01-2L0C-G<br>PLC Programming –S/W for MELSEC Q/L/F Series; German; USB; 2 PCs<br>Class 100101201: FA-Software: Software PLC                 |
| <a href="#">244877</a> | GX Works2 V01-5L0C-G<br>PLC Programming –S/W for MELSEC Q/L/F; USB; 5 PCs<br>Class 100101201: FA-Software: Software PLC                                |
| <a href="#">248245</a> | FX-20P-CAB0<br>PLC, FX Series Connection Cable with FX-10P-E/FX-20P-ESET0/FX-10DM-E,1,5m<br>Class 100100110: FA-COM PLC: Cable                         |
| <a href="#">267132</a> | FX3S-CNV-ADP<br>FX3S ADP Adaptor for FX3U ADP Modules<br>Class 100100111: FA-COM PLC: Other Option                                                     |
| <a href="#">271699</a> | FX3G-485-BD-RJ<br>FX3G RS485 BD Board;RJ45 Connector Type<br>Class 100100107: FA-COM PLC: Serial Com Module                                            |
| <a href="#">271700</a> | FX3G-4EX-BD<br>FX3G BD Board 4 Inputs DC24V<br>Class 100100102: FA-COM PLC: Digital I/O Module                                                         |
| <a href="#">271701</a> | FX3G-2EYT-BD<br>FX3G BD Board 2 Transistor Outputs<br>Class 100100102: FA-COM PLC: Digital I/O Module                                                  |
| <a href="#">282202</a> | FX3S-5DM<br>PLC, FX3S Display Unit<br>Class 100100111: FA-COM PLC: Other Option                                                                        |
| <a href="#">286227</a> | iQ Works V02-2L0C-E<br>iQ Works V2.0;incl Navigator,GX Works,GT Works,MT Works;engl;USB;2 PC´s<br>Class 100101201: FA-Software: Software PLC           |
| <a href="#">286228</a> | iQ Works V02-5L0C-E<br>iQ Works V2.0;incl Navigator,GX Works,GT Works,MT Works;engl;USB;5 PC´s<br>Class 100101201: FA-Software: Software PLC           |
| <a href="#">303426</a> | iQ Works V02-15L0C-E<br>iQ Works V2.0;incl Navigator,GX Works,GT Works,MT Works;engl;USB;15 PC´s<br>Class 100101201: FA-Software: Software PLC         |
| <a href="#">338821</a> | iQ Works V02-2L0C-G<br>iQ Works V2.0;incl Navigator,GX Works,GT Works,MT Works;German;USB;2 PC´s<br>Class 100101201: FA-Software: Software PLC         |
| <a href="#">339022</a> | iQ Works V02-5L0C-G<br>iQ Works V2.0;incl Navigator,GX Works,GT Works,MT Works;German;USB;5 PC´s<br>Class 100101201: FA-Software: Software PLC         |
| <a href="#">401853</a> | iQ Works V02-2L0C-IT<br>iQ Works V2.0;incl Navigator,GX Works,GT Works,MT Works;Italian;USB;2 PCs<br>Class 100101201: FA-Software: Software PLC        |
| <a href="#">413493</a> | TRIO-PS-2G/1AC/24DC/5<br>Power supply unit for 100-240V AC; Output 24V DC / 5A, DIN rail mounting<br>Class 100100304: FA-HMI: Other Option             |
| 414700                 | TRIO-PS-2G/1AC/24DC/3/C2LPS<br>Power supply unit for 100-240V AC; Output 24V DC / 3A C2LPS, DIN rail mounting<br>Class 100100304: FA-HMI: Other Option |
| <a href="#">506252</a> | TRIO-PS-2G/1AC/24DC/10<br>Primary switched power supply; input: single phase, output: 24 VDC/10A, DIN rail<br>Class 100100304: FA-HMI: Other Option    |
| <a href="#">506253</a> | TRIO-PS-2G/1AC/24DC/20<br>Primary switched power supply; input: single phase, output: 24 VDC/20A, DIN rail<br>Class 100100304: FA-HMI: Other Option    |

| Material               | Description / Price List Text / Classification                                                                                                 |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| <a href="#">506254</a> | TRIO-PS-2G/3AC/24DC/20<br>Primary switched power supply; input: 3-phase, output: 24 VDC/20A, DIN rail<br>Class 100100304: FA-HMI: Other Option |
| <a href="#">506255</a> | TRIO-PS-2G/3AC/24DC/40<br>Primary switched power supply; input: 3-phase, output: 24 VDC/40A, DIN rail<br>Class 100100304: FA-HMI: Other Option |