



MATERIAL FACT SHEET

231500 FX3U-48MR/DS

General Data

| | |
|---------------------|--------------------------|
| Product Hierarchy | IAD213 |
| | Compact PLC |
| | FX3U |
| Ext. Material Group | 10 STANDARD ITEM |
| ABC Indicator | A (Available from Stock) |

FA-COM PLC: Main Unit

| | |
|-------------------------------|-----------------|
| Series | MELSEC-F SERIES |
| Type | FX3U |
| Power Supply (V) | 24 |
| Current Type | DC |
| Program Memory | 64K STEPS |
| Program Memory Unit | RAM |
| Integrated Digital Inputs | 24 |
| Integrated Digital Outputs | 24 |
| Output Type | RELAY |
| Local I/O Points | 256 |
| Local + Remote I/O Points | 384 |
| Expandable | YES |
| Cycle Time LD (ns) | 65 |
| Cycle Time MOV (ns) | 642 |
| USB | OPTION |
| RS-422 | 1 |
| Power Consumption (W) | 35 |
| Buffer Battery | YES |
| Protection Class | IP10 |
| Min. Ambient Temperature (°C) | 0 |
| Max. Ambient Temperature (°C) | 55 |

Product Dimensions & Weight

| | |
|-------------|------|
| Width (mm) | 182 |
| Height (mm) | 90 |
| Depth (mm) | 86 |
| Weight (kg) | 0,85 |

Logistic Dimensions & Gross Weight

| | |
|-------------------|-------|
| Length (cm) | 21,0 |
| Width (cm) | 12,0 |
| Height (cm) | 11,0 |
| Gross Weight (kg) | 0,988 |
| Volume (cdm) | 2,772 |

Stock Data

| | |
|------------------------------|-----|
| Planned Delivery Time (Days) | 128 |
|------------------------------|-----|

Life Cycle

| | |
|-------------|-----------------------|
| Sales Start | 18.03.2010 |
| Predecessor | 206176 / FX3U-48MR/DS |

Additional Product Information

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|----------------------------|-----------------------------|
| Binding Tariff Information | DEBTI-10854/21-1 |
| BTI validity date | 10.10.2024 |
| Battery included | YES – CHECK SPARE PART LIST |

Export Data

| | |
|--|------------|
| Commodity Code | 85371091 |
| 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,KR,LR,NK,RINA |
| UKCA | COMPLIANT |

Product Packaging

| | |
|-------------------|-----|
| Cardboard (g) | 120 |
| 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 |

Spare parts

| Material | Description | Quantity | Unit |
|----------|-------------|----------|------|
| 165286 | FX3U-32BL | 1 | PC |

Compatible products

| Material | Description / Price List Text / Classification |
|----------|--|
| 31870 | FX-20P-CADP GOT FX Series Adapter cable; 0.3 m Class 100100110: FA-COM PLC: Cable |
| 45348 | FX0N-65EC PLC, FX Series Connection Cable for Base and Extension units FX0N/FX2N, 0.65m Class 100100110: FA-COM PLC: Cable |
| 70880 | FX2N-CNV-BC PLC, FX2N Adapter for FX extension or special function modules Class 100100111: FA-COM PLC: Other Option |
| 76094 | FX-422CAB0 RS422 connection cable for FX0/0S/0N/2N Class 100100110: FA-COM PLC: Cable |
| 159642 | FX-232AWC-H RS-422/RS-232C converter to connect FX PLC and PC Class 100100111: FA-COM PLC: Other Option |
| 165268 | FX3U-7DM PLC, FX Series Display Unit Class 100100111: FA-COM PLC: Other Option |
| 165278 | FX3U-FLROM-16 PLC, FX3U Flash-RAM memory cassette; 16k steps PLC program Class 100100111: FA-COM PLC: Other Option |
| 165279 | FX3U-FLROM-64 PLC, FX3U Series Flash-RAM memory cassette; 64k steps PLC program Class 100100111: FA-COM PLC: Other Option |

| Material | Description / Price List Text / Classification |
|------------------------|--|
| 165280 | FX3U-FLROM-64L PLC, FX3U Flash-RAM memory cassette; 64K steps PLC program; incl. copy function Class 100100111: FA-COM PLC: Other Option |
| 165281 | FX3U-232-BD PLC, FX3U RS232C Interface module; for MELSEC FX3U Class 100100107: FA-COM PLC: Serial Com Module |
| 165282 | FX3U-422-BD PLC, FX3U RS422 Interface module; for MELSEC FX3U Class 100100107: FA-COM PLC: Serial Com Module |
| 165283 | FX3U-485-BD PLC, FX3U RS485 Interface module, 1:n Multidrop, network expansion until 50 m Class 100100107: FA-COM PLC: Serial Com Module |
| 165284 | FX3U-USB-BD PLC, FX3U USB Interface module incl. USB cable (3m) Class 100100107: FA-COM PLC: Serial Com Module |
| 165285 | FX3U-CNV-BD PLC, FX3U Communication adapter for MELSEC FX3U ADP special function modules Class 100100111: FA-COM PLC: Other Option |
| 165286 | FX3U-32BL PLC, FX3U/C Battery Class 100100112: FA-COM PLC: Spare Part |
| 165286 | FX3U-32BL PLC, FX3U/C Battery Class 100101303: FA-OTHERS: Battery |
| 165287 | FX3U-7DM-HLD PLC, FX Series Panel Mounting Kit for FX3U-7DM incl. 1.5m cable Class 100100111: FA-COM PLC: Other Option |
| 165288 | FX-USB-AW PLC, Interface Converter USB/RS422 between PC and MELSEC PLC, 3 m Class 100100111: FA-COM PLC: Other Option |
| 169507 | FX3U-1PSU-5V PLC, FX Series Power supply module for 5V bus Class 100100111: FA-COM PLC: Other Option |
| 206147 | PSU 25 Power supply unit for 100-240V AC; Output 24V DC, DIN rail mounting Class 100100304: FA-HMI: Other Option |
| 221271 | FX-30P PLC, FX Series Hand-held programming unit Class 100100111: FA-COM PLC: Other Option |
| 230104 | FX3U-CF-ADP PLC, FX3U Data logger module; CF card slot; CSV file format Class 100100111: FA-COM PLC: Other Option |
| 234630 | GX Works2 V01-2L0C-E PLC Programming –S/W for MELSEC Q/L/F; USB; 2 PCs Class 100101201: FA-Software: Software PLC |
| 234631 | GX Works2 V01-5L0C-E SPS Programming-S/W for Melsec Q/L/F; USB; 5 PC's Class 100101201: FA-Software: Software PLC |
| 237307 | FX3U-8AV-BD PLC, FX3U analog setpoint adapter for 8 stpoints Class 100100111: FA-COM PLC: Other Option |
| 244876 | GX Works2 V01-2L0C-G PLC Programming S/W for MELSEC Q/L/F Series; German; USB; 2 PCs Class 100101201: FA-Software: Software PLC |
| 244877 | GX Works2 V01-5L0C-G PLC Programming –S/W for MELSEC Q/L/F; USB; 5 PCs Class 100101201: FA-Software: Software PLC |
| 245565 | FX3U-FLROM-1M SPS, FX3U(C) Memory cassette;1MB Class 100100111: FA-COM PLC: Other Option |
| 248245 | FX-20P-CAB0 PLC, FX Series Connection Cable with FX-10P-E/FX-20P-ESET0/FX-10DM-E,1,5m Class 100100110: FA-COM PLC: Cable |
| 261190 | FX3U-CNV-BD-BS Class 100100111: FA-COM PLC: Other Option |
| 285598 | FX0N-30EC PLC, FX Series Connection Cable for Base and Extension units FX0N/FX2N, 0.30m Class 100100110: FA-COM PLC: Cable |

| Material | Description / Price List Text / Classification |
|---------------|--|
| <u>286227</u> | iQ Works V02-2L0C-E iQ Works V2.0;incl Navigator,GX Works,GT Works,MT Works;engl;USB;2 PC´s Class 100101201: FA-Software: Software PLC |
| <u>286228</u> | iQ Works V02-5L0C-E iQ Works V2.0;incl Navigator,GX Works,GT Works,MT Works;engl;USB;5 PC´s Class 100101201: FA-Software: Software PLC |
| <u>303426</u> | iQ Works V02-15L0C-E iQ Works V2.0;incl Navigator,GX Works,GT Works,MT Works;engl;USB;15 PC´s Class 100101201: FA-Software: Software PLC |
| <u>338821</u> | iQ Works V02-2L0C-G iQ Works V2.0;incl Navigator,GX Works,GT Works,MT Works;German;USB;2 PC´s Class 100101201: FA-Software: Software PLC |
| <u>339022</u> | iQ Works V02-5L0C-G iQ Works V2.0;incl Navigator,GX Works,GT Works,MT Works;German;USB;5 PC´s Class 100101201: FA-Software: Software PLC |
| <u>401853</u> | iQ Works V02-2L0C-IT iQ Works V2.0;incl Navigator,GX Works,GT Works,MT Works;Italian;USB;2 PCs Class 100101201: FA-Software: Software PLC |
| <u>413493</u> | TRIO-PS-2G/1AC/24DC/5 Power supply unit for 100-240V AC; Output 24V DC / 5A, DIN rail mounting Class 100100304: FA-HMI: Other Option |
| <u>414700</u> | TRIO-PS-2G/1AC/24DC/3/C2LPS Power supply unit for 100-240V AC; Output 24V DC / 3A C2LPS, DIN rail mounting Class 100100304: FA-HMI: Other Option |
| <u>506252</u> | TRIO-PS-2G/1AC/24DC/10 Primary switched power supply; input: single phase, output: 24 VDC/10A, DIN rail Class 100100304: FA-HMI: Other Option |
| <u>506253</u> | TRIO-PS-2G/1AC/24DC/20 Primary switched power supply; input: single phase, output: 24 VDC/20A, DIN rail Class 100100304: FA-HMI: Other Option |
| <u>506254</u> | TRIO-PS-2G/3AC/24DC/20 Primary switched power supply; input: 3-phase, output: 24 VDC/20A, DIN rail Class 100100304: FA-HMI: Other Option |
| <u>506255</u> | TRIO-PS-2G/3AC/24DC/40 Primary switched power supply; input: 3-phase, output: 24 VDC/40A, DIN rail Class 100100304: FA-HMI: Other Option |