



MATERIAL FACT SHEET

747989 FR-D820S-2.2K-100-EPB-60

General Data

| | |
|----------------------|--|
| Price List Text (EN) | Inverter; 2.2kW; 200V class; Single-Phase Input; 10.0A; PROFINET; Coated |
| Price List Text (DE) | Umrichter; 2.2kW; 200V class; Einphasen-Eingang; 10.0A; PROFINET; Coated |
| Product Hierarchy | IAK24903 INVERTER FR-D820S |
| Ext. Material Group | 10 STANDARD ITEM |
| ABC Indicator | B (Limited Availability from Stock) |

e-shop: <https://emea.mitsubishielectric.com/fa/shop/material-page/000000000000296613>

FA-Inverter: Inverter

| | |
|-------------------------------|--------------------------------|
| Series | FR-D800 SERIES |
| Type | FR-D800 COMPACT INVERTER |
| Minimum Rated Voltage (V) | 200 |
| Min. Permissible Voltage (V) | 170 |
| Maximum Rated Voltage (V) | 240 |
| Max. Permissible Voltage (V) | 264 |
| Current Type | AC |
| Phases | 1 |
| Rated Output Current SLD (A) | - |
| Rated Output Current LD (A) | - |
| Rated Output Current ND (A) | 10,0 |
| Rated Output Current HD (A) | - |
| Rated Motor Capacity SLD (kW) | - |
| Rated Motor Capacity LD (kW) | - |
| Rated Motor Capacity ND (kW) | 2,2 |
| Rated Motor Capacity HD (kW) | - |
| Frequency Range (Hz) | 0,2 TO 590 HZ |
| Control Method | Adv. magnetic flux vector |
| Control Method (2) | PM sensorless vector control |
| Control Method (3) | V/F control |
| Motor Type | INDUCTION MOTOR |
| Brake Chopper ED (%) | 100 |
| Integrated EMC Filter | NO |
| Safe Torque Off (STO) | YES |
| Regenerative (4Q) | NO |
| Integrated DC Choke | NO |
| Display | BUILT-IN |
| Display Type | 4 DIGITS LED |
| PLC Function | NO |
| Integrated Digital Inputs | 5 |
| Digital Outputs (Transistor) | 1 |
| Digital Outputs (Relay) | 1 |
| Integrated Analogue Inputs | - |
| Integrated Analogue Outputs | - |
| IO Type of Terminal Block | SPRING CLAMP |
| Expandable | NO |
| RS-485 | - |
| USB | TYPE C |
| Ethernet Port | 1 |
| Built-In Network | CC-Link IE Field Network Basic |
| Built-In Network (2) | CC-Link IE TSN |
| Built-In Network (3) | MODBUS RTU |
| Built-In Network (4) | PROFINET |
| Leakage Current (mA) | - |
| Protection Class | IP20 |

Product Dimensions & Weight

| | |
|-------------|-----|
| Width (mm) | 108 |
| Height (mm) | 128 |
| Depth (mm) | 145 |
| Weight (kg) | 1,3 |

Logistic Dimensions & Gross Weight

| | |
|-------------------|-------|
| Length (cm) | 20,0 |
| Width (cm) | 12,0 |
| Height (cm) | 19,0 |
| Gross Weight (kg) | 1,500 |
| Volume (m3) | 0,005 |

Stock Data

| | |
|------------------------------|----|
| Planned Delivery Time (Days) | 98 |
|------------------------------|----|

Life Cycle

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|-------------|--|
| Sales Start | 26.07.2025 |
| Predecessor | 247600 / FR-D720S-100SC-EC |

Additional Product Information

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|------------------|----|
| Battery included | NO |
|------------------|----|

Export Data

| | |
|--|------------|
| Commodity Code | 85044095 |
| Legal Control (Dual Use List) | Not Listed |
| Country of Origin | China (CN) |
| Preference Status (Supplier Declaration) | Non EU |

Environmental

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

Conformity

| | |
|----|-----------|
| CE | COMPLIANT |
|----|-----------|

Documentation & Media Data

| | |
|--------------------------------|---|
| Manual URL Indicator | https://emea.mitsubishielectric.com/fa/advanced-search?ct=document&doc-cats=bltdae25c2bd5f2f94&q=FR-D820S-2.2K-100-EPB-60&doc-lang=en |
| Certificates URL Indicator | https://emea.mitsubishielectric.com/fa/advanced-search?ct=document&doc-cats=blt8050dd1408c11cc2&q=FR-D820S-2.2K-100-EPB-60&doc-lang=en |
| CAD URL Indicator | https://emea.mitsubishielectric.com/fa/advanced-search?ct=document&doc-cats=blt26ecc97a31a841c1&q=FR-D820S-2.2K-100-EPB-60&doc-lang=en |
| Network configuration file URL | https://emea.mitsubishielectric.com/fa/advanced-search?ct=document&doc-cats=blte8cf990c7c524b4e&q=FR-D820S-2.2K-100-EPB-60&doc-lang=en |

Spare parts

| Material | Description | Quantity | Unit |
|------------------------|---------------------------------|----------|------|
| 591470 | FR-A870 CABLE ALL BKO-CA1972H01 | 1 | PC |
| 754158 | FR-D800S Front cover below | 1 | PC |

Compatible products

| Material | Description / Price List Text / Classification |
|------------------------|---|
| 70727 | FR-A5 CBL 1 Cable for connecting Inverter and Programming panel; 1m Class 100100405: FA-Inverter: Cable |
| 70728 | FR-A5 CBL 3 Cable for connecting Inverter and Programming panel; 3m Class 100100405: FA-Inverter: Cable |
| 70729 | FR-A5 CBL 5 Cable for connecting Inverter and Programming panel; 5m Class 100100405: FA-Inverter: Cable |
| 166134 | FR-PU07 Programming panel with LCD-Display for all units of FR-700 series Class 100100403: FA-Inverter: External Option |

| Material | Description / Price List Text / Classification |
|------------------------|--|
| 209052 | FR-PU07BB-L Programming Panel with Copy Function; batterypowered; all FR-700 units; w/o bat. Class 100100403: FA-Inverter: External Option |
| 274525 | FR-LU08 Clear text LCD Parameter unit for all units of 800 Series Class 100100403: FA-Inverter: External Option |
| 275503 | FR Configurator-M+FR-Configurator2 FR-Configurator for 700 series; multi I + FR-Configurator2 for 800 series Class 100101203: FA-Software: Software Inverter |
| 296613 | FR-LU08-01 Clear text LCD Parameter unit for all units of 800 Series (IP55) Class 100100403: FA-Inverter: External Option |