



## MATERIAL FACT SHEET

### 738927 FR-D820S-0.2K-014-60

#### General Data

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/000000000000738927>

#### 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)	1,4
Rated Output Current HD (A)	-
Rated Motor Capacity SLD (kW)	-
Rated Motor Capacity LD (kW)	-
Rated Motor Capacity ND (kW)	0,2
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 (%)	0
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	1
USB	TYPE C
Ethernet Port	-
Built-In Network	CC-Link IE Field Network Basic
Built-In Network (2)	CC-Link IE TSN
Built-In Network (3)	MODBUS RTU
Leakage Current (mA)	-
Protection Class	IP20

#### Product Dimensions & Weight

Width (mm)	68
Height (mm)	128

Depth (mm)	80,5
Weight (kg)	0,5

### Logistic Dimensions & Gross Weight

Length (cm)	17,0
Width (cm)	14,5
Height (cm)	11,5
Gross Weight (kg)	0,600
Volume (cdm)	2,835

### Stock Data

Planned Delivery Time (Days)	98
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### Life Cycle

Sales Start	10.02.2025
Predecessor	241902 / FR-D720S-0.2K-60

### Additional Product Information

Battery included	NO
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### Export Data

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

### Environmental

REACH Limit Exceeded	YES
REACH Substance CAS Number	<a href="#">3648-18-8</a>
REACH Substance CAS Number (2)	<a href="#">68-12-2</a>
REACH Substance CAS Number (3)	<a href="#">693-98-1</a>
REACH Substance CAS Number (4)	<a href="#">71868-10-5</a>
REACH Substance CAS Number (5)	<a href="#">7439-92-1</a>
REACH Substance CAS Number (6)	<a href="#">79-94-7</a>
Dangerous Goods Class	NO
Dangerous Goods Identifier	NO
RoHS Compliance	COMPLIANT
WEEE	B2B

### Conformity

CE	COMPLIANT
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### Documentation & Media Data

Manual URL Indicator	<a href="https://emea.mitsubishielectric.com/fa/advanced-search?ct=document&amp;doc-cats=bltdae25c2bd5f2ff94&amp;q=FR-D820S-0.2K-014-60&amp;doc-lang=en">https://emea.mitsubishielectric.com/fa/advanced-search?ct=document&amp;doc-cats=bltdae25c2bd5f2ff94&amp;q=FR-D820S-0.2K-014-60&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=FR-D820S-0.2K-014-60&amp;doc-lang=en">https://emea.mitsubishielectric.com/fa/advanced-search?ct=document&amp;doc-cats=blt8050dd1408c11cc2&amp;q=FR-D820S-0.2K-014-60&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=FR-D820S-0.2K-014-60&amp;doc-lang=en">https://emea.mitsubishielectric.com/fa/advanced-search?ct=document&amp;doc-cats=blt26ecc97a31a841c1&amp;q=FR-D820S-0.2K-014-60&amp;doc-lang=en</a>
Network configuration file URL	<a href="https://emea.mitsubishielectric.com/fa/advanced-search?ct=document&amp;doc-cats=blte8cf990c7c524b4e&amp;q=FR-D820S-0.2K-014-60&amp;doc-lang=en">https://emea.mitsubishielectric.com/fa/advanced-search?ct=document&amp;doc-cats=blte8cf990c7c524b4e&amp;q=FR-D820S-0.2K-014-60&amp;doc-lang=en</a>

### Product Packaging

Cardboard (g)	135
Other paper (g)	0
Aluminum (g)	0
Steel (g)	0
Styrofoam (g)	0
Other plastic (g)	2,2
Wood (g)	0
Glass (g)	0
Others (g)	0

### Spare parts

Material	Description	Quantity	Unit
<a href="#">591470</a>	FR-A870 CABLE ALL BKO-CA1972H01	1	PC
<a href="#">754155</a>	FR-D800S Adjustment wheel parameters	1	PC
<a href="#">754156</a>	FR-D800S Front cover, below	1	PC

**Compatible products**

Material	Description / Price List Text / Classification
<a href="#">70727</a>	FR-A5 CBL 1 Cable for connecting Inverter and Programming panel; 1m Class 100100405: FA-Inverter: Cable
<a href="#">70728</a>	FR-A5 CBL 3 Cable for connecting Inverter and Programming panel; 3m Class 100100405: FA-Inverter: Cable
<a href="#">70729</a>	FR-A5 CBL 5 Cable for connecting Inverter and Programming panel; 5m Class 100100405: FA-Inverter: Cable
<a href="#">130833</a>	FR-UDA01 DIN-Rail Adaptor for FR-D720S-0,2k-0,75k Class 100100403: FA-Inverter: External Option
<a href="#">166134</a>	FR-PU07 Programming panel with LCD-Display for all units of FR-700 series Class 100100403: FA-Inverter: External Option
<a href="#">209052</a>	FR-PU07BB-L Programming Panel with Copy Function; batterypowered; all FR-700 units; w/o bat. Class 100100403: FA-Inverter: External Option
<a href="#">274525</a>	FR-LU08 Clear text LCD Parameter unit for all units of 800 Series Class 100100403: FA-Inverter: External Option
<a href="#">275503</a>	FR Configurator-M+FR-Configurator2 FR-Configurator for 700 series; multi I + FR-Configurator2 for 800 series Class 100101203: FA-Software: Software Inverter
<a href="#">296613</a>	FR-LU08-01 Clear text LCD Parameter unit for all units of 800 Series (IP55) Class 100100403: FA-Inverter: External Option