



## MATERIAL FACT SHEET

### 738960 FR-D840-7.5K-163-60

#### General Data

Price List Text (EN)	Inverter; 7.5kW; 400V class; 16.3A; Coated
Price List Text (DE)	Umrichter; 7.5kW; 400V class; 16.3A; Coated
Product Hierarchy	IAK24904
	INVERTER
	FR-D840
Ext. Material Group	10 STANDARD ITEM
ABC Indicator	B (Limited Availability from Stock)

e-shop: <https://emea.mitsubishielectric.com/fa/shop/material-page/000000000000312356>

#### FA-Inverter: Inverter

Series	FR-D800 SERIES
Type	FR-D800 COMPACT INVERTER
Minimum Rated Voltage (V)	380
Min. Permissible Voltage (V)	323
Maximum Rated Voltage (V)	480
Max. Permissible Voltage (V)	528
Current Type	AC
Phases	3
Rated Output Current SLD (A)	22
Rated Output Current LD (A)	-
Rated Output Current ND (A)	16,3
Rated Output Current HD (A)	-
Rated Motor Capacity SLD (kW)	11,00
Rated Motor Capacity LD (kW)	-
Rated Motor Capacity ND (kW)	7,5
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	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)	220
Height (mm)	152
Depth (mm)	155
Weight (kg)	2,4

### Logistic Dimensions & Gross Weight

Length (cm)	25,0
Width (cm)	23,0
Height (cm)	19,0
Gross Weight (kg)	2,900
Volume (cdm)	10,925

### Stock Data

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

Sales Start	10.02.2025
Predecessor	<a href="#">247607 / FR-D740-160SC-EC</a>

### 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

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=bltdae25c2bd5f2f94&amp;q=FR-D840-7.5K-163-60&amp;doc-lang=en">https://emea.mitsubishielectric.com/fa/advanced-search?ct=document&amp;doc-cats=bltdae25c2bd5f2f94&amp;q=FR-D840-7.5K-163-60&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-D840-7.5K-163-60&amp;doc-lang=en">https://emea.mitsubishielectric.com/fa/advanced-search?ct=document&amp;doc-cats=blt8050dd1408c11cc2&amp;q=FR-D840-7.5K-163-60&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-D840-7.5K-163-60&amp;doc-lang=en">https://emea.mitsubishielectric.com/fa/advanced-search?ct=document&amp;doc-cats=blt26ecc97a31a841c1&amp;q=FR-D840-7.5K-163-60&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-D840-7.5K-163-60&amp;doc-lang=en">https://emea.mitsubishielectric.com/fa/advanced-search?ct=document&amp;doc-cats=blte8cf990c7c524b4e&amp;q=FR-D840-7.5K-163-60&amp;doc-lang=en</a>

### Product Packaging

Cardboard (g)	510
Other paper (g)	0
Aluminum (g)	0
Steel (g)	0
Styrofoam (g)	0
Other plastic (g)	5,64
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="#">754158</a>	FR-D800S Front cover below	1	PC
<a href="#">754221</a>	FR-D800 PCB Control Board D80CA15B-60	1	PC

**Compatible products**

Material	Description / Price List Text / Classification
<a href="#">50048</a>	FR-ABR-7.5K External High-Duty Brake Resistor; 7,5kW; 230V; 20 Ohm; 10%ED Class 100100407: FA-Inverter: Brake Option
<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="#">157515</a>	FR-ADP Adaptor Module for Operator Panel FR-DU07 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="#">214795</a>	FR-PA07 Simple Parameter Unit for mounting on enclosure surface; for all FR-E700 Class 100100403: FA-Inverter: External Option
<a href="#">253721</a>	FR-HC2-H7.5K Harmonic Converter 7,5 kW for Power Factor correction, 400 V Class Class 100100403: FA-Inverter: External Option
<a href="#">270286</a>	FR-HC2-H7.5K KIT Harmonic Converter 7,5 kW for Power Factor correction; 400V Class; KIT 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="#">296613</a>	FR-LU08-01 Clear text LCD Parameter unit for all units of 800 Series (IP55) Class 100100403: FA-Inverter: External Option
<a href="#">312356</a>	FFR-MSH-170-30A-SF1 Radio Noise Filter for FR-E740/E840-120/170; C1 20m, C2 100m Class 100100404: FA-Inverter: Filter