



## MATERIAL FACT SHEET

### 500111 FR-E840-0026-4-60

#### General Data

Price List Text (EN)	Inverter; Pn:0,75-1,5kW;3x380-480V;In max:3,5A;(0,75kW;2,6A);RS-485;IP20
Price List Text (DE)	Umrichter; Pn:0,75-1,5kW;3x380-480V;In max:3,5A;(0,75kW;2,6A);RS-485;IP20
Product Hierarchy	IAK24802
	INVERTER
	FR-E840
Ext. Material Group	10 STANDARD ITEM
ABC Indicator	A (Available from Stock)

e-shop: [https://mitsubishi-electric-eshop.mee.com/mee/FA\\_IA/EUR/en/p/000000000000500111](https://mitsubishi-electric-eshop.mee.com/mee/FA_IA/EUR/en/p/000000000000500111)

#### FA-Inverter: Inverter

Series	FR-E800 SERIES
Type	FR-E800 RS485 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 LD (A)	3,5
Rated Output Current ND (A)	2,6
Rated Motor Capacity LD (kW)	1,5
Rated Motor Capacity ND (kW)	0,75
Frequency Range (Hz)	0,2-590
Control Method	MAGNETIC FLUX VECTOR CONTROL
Control Method (2)	PM SENSORLESS VECTOR CONTROL
Control Method (3)	REAL SENSORLESS VECTOR CONTROL
Control Method (4)	V/F CONTROL
Motor Type	INDUCTION MOTOR, PM 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-DIGIT LED
PLC Function	YES
Program Memory	2K
Program Memory Unit	STEPS
Integrated Digital Inputs	7
Digital Outputs (Transistor)	2
Digital Outputs (Relay)	1
Integrated Analogue Inputs	2
Integrated Analogue Outputs	1
IO Type of Terminal Block	SPRING CLAMP
Expandable	YES
RS-485	1
USB	1 (MINI B)
Ethernet Port	NO
Built-In Network	MODBUS RTU
Leakage Current (mA)	1,2
Power Loss LD (W)	55
Power Loss ND (W)	38
Standby Power Consumption (W)	-
Protection Class	IP20

### Product Dimensions & Weight

Width (mm)	108
Height (mm)	128
Depth (mm)	129,5
Weight (kg)	1,2

### Logistic Dimensions & Gross Weight

Length (cm)	20,5
Width (cm)	12,5
Height (cm)	20,0
Gross Weight (kg)	1,439
Volume (cdm)	5,125

### Stock Data

Planned Delivery Time (Days)	300
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### Life Cycle

Sales Start	09.11.2020
Predecessor	<a href="#">240981 / FR-E740-026SC-E6</a>

### 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
UL/cUL	COMPLIANT
EAC	COMPLIANT
UKCA	COMPLIANT

### Documentation & Media Data

Manual URL Indicator	<a href="https://emea.mitsubishielectric.com/fa/advanced-search?ct=document&amp;doc-cats=bltdae25c2bd5f2f94&amp;q=FR-E840-0026-4-60&amp;doc-lang=en">https://emea.mitsubishielectric.com/fa/advanced-search?ct=document&amp;doc-cats=bltdae25c2bd5f2f94&amp;q=FR-E840-0026-4-60&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-E840-0026-4-60&amp;doc-lang=en">https://emea.mitsubishielectric.com/fa/advanced-search?ct=document&amp;doc-cats=blt8050dd1408c11cc2&amp;q=FR-E840-0026-4-60&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-E840-0026-4-60&amp;doc-lang=en">https://emea.mitsubishielectric.com/fa/advanced-search?ct=document&amp;doc-cats=blt26ecc97a31a841c1&amp;q=FR-E840-0026-4-60&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-E840-0026-4-60&amp;doc-lang=en">https://emea.mitsubishielectric.com/fa/advanced-search?ct=document&amp;doc-cats=blte8cf990c7c524b4e&amp;q=FR-E840-0026-4-60&amp;doc-lang=en</a>

### Product Packaging

Cardboard (g)	215
Other paper (g)	0
Aluminum (g)	0
Steel (g)	0
Styrofoam (g)	0
Other plastic (g)	10
Wood (g)	0
Glass (g)	0
Others (g)	0

### Spare parts

Material	Description	Quantity	Unit
<a href="#">600706</a>	FR-E840-0.4K-7.5K 1-60/0-60 PCB CPU	1	PC
<a href="#">600477</a>	FR-E840-0026-4-0.75K PCB MA	1	PC
<a href="#">611070</a>	FR-E840-0026EPA(B)-60 PCB GA	1	PC
<a href="#">611134</a>	FR-E840-4(5)-60 PCB TA	1	PC
<a href="#">611138</a>	FR-E800 UNIT DU	1	PC
<a href="#">611140</a>	FR-E800-3,7K CBL CA	1	PC
<a href="#">591470</a>	FR-A870 CABLE ALL BKO-CA1972H01	1	PC
<a href="#">611144</a>	FR-E800 COVER TOP ALL	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 2,5 Cable for connecting Inverter and Programming panel; 2,5m 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="#">130832</a>	FR-JDA02 DIN-Rail Adaptor for FR-D720S-1,5k; FR-D740-0,4k-3,7k Class 100100403: FA-Inverter: External Option
<a href="#">134973</a>	FR-BAL-B-0,75K Input Reactor 3ph; 400V; for 0,75kW Class 100100406: FA-Inverter: Choke
<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="#">167612</a>	FR-RJ45-HUB10 Distribution Module for RJ45; 10 way Class 100100403: FA-Inverter: External Option
<a href="#">167613</a>	FR-RJ45-HUB4 Distribution Module for RJ45; 4 way Class 100100403: FA-Inverter: External Option
<a href="#">167614</a>	FR-RJ45-TR Terminal Resistor Plug RJ45 Class 100100403: FA-Inverter: External Option
<a href="#">202426</a>	FR-BU2-H7.5K Brake Unit without Brake Resistor for all Inverters with DC-Bus Terminals; 400V Class 100100407: FA-Inverter: Brake 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="#">209735</a>	FFR-SI-4.5A-SS1 Sinusfilter for 200/230/400V Inverters;max. 4,5A;FT=4-16kHz;(W*H*D) 125*180*75mm Class 100100404: FA-Inverter: Filter
<a href="#">209755</a>	FFR-DT-10A-SS1 du/dt Filter for 400V Inverters; max. 10A; FT=2-16kHz; (W*H*D) 100*120*65mm Class 100100404: FA-Inverter: Filter
<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="#">238343</a>	FFR-HEL-H0.75K-E DC Link choke for 400V Inverter; 0,75kW; 46,9mH; 1,6A Class 100100406: FA-Inverter: Choke
<a href="#">254682</a>	NF32-SV 3P 5A Circuit breaker 3pole. In = 5A; Icu = Ics = 2,5kA at AC 440V Class 100100901: FA-MCCB: Moulded-Case Circuit Breaker
<a href="#">254741</a>	NF63-SV 3P 5A Circuit breaker 3pole. In = 5A; Icu = Ics = 7,5kA at AC 440V Class 100100901: FA-MCCB: Moulded-Case Circuit Breaker
<a href="#">274525</a>	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="#">279195</a>	S-T10 AC400V 1A Magnetic contactor. 4kW; 1NO; Us = AC 400V, 50Hz Class 100101001: FA-MC: Magnetic Contactor
<a href="#">279195</a>	S-T10 AC400V 1A Magnetic contactor. 4kW; 1NO; Us = AC 400V, 50Hz Class 100101001: FA-MC: Magnetic Contactor
<a href="#">279202</a>	S-T10 AC400V 1B Magnetic contactor. 4kW; 1NC; Us = AC 400V, 50Hz Class 100101001: FA-MC: Magnetic Contactor
<a href="#">279202</a>	S-T10 AC400V 1B Magnetic contactor. 4kW; 1NC; Us = AC 400V, 50Hz Class 100101001: FA-MC: Magnetic Contactor

Material	Description / Price List Text / Classification
<a href="#">288434</a>	MMP-T32LF 6.3A Motor prot. switch: 2,3kW; Ir=4,0 - 6,3A; Icu AC 400V=15kA Class 100101101: FA-MMS: Manual Motor Starter
<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="#">312332</a>	FFR-CSH-036-8A-SF1 Radio Noise Filter for E840-016/026/040; C1 20m, C2 100m Class 100100404: FA-Inverter: Filter
<a href="#">312334</a>	FFR-CSH-036-8A-SF1-LL Radio Noise Filter for E840-016/026/040; C1 10m, C2 30m Class 100100404: FA-Inverter: Filter
<a href="#">506377</a>	FR-A8AX-60 E-KIT 16-Bit-Digital-Input; BCD/Binary-Code; 24V DC; 5mA; Coated; E-KIT for FR-E800 Class 100100402: FA-Inverter: Internal Option
<a href="#">506378</a>	FR-A8AY-60 E-KIT Digital-/Analog Output; Output load: 24V DC; 0,1A; Coated; E-KIT for FR-E800 Class 100100402: FA-Inverter: Internal Option
<a href="#">506379</a>	FR-A8AR-60 E-KIT Relay output; 3 additional output relays; Coated; E-KIT for FR-E800 Class 100100402: FA-Inverter: Internal Option
<a href="#">506380</a>	FR-A8NP-60 E-KIT Profibus Network connection; Coated; E-KIT for FR-E800 Class 100100402: FA-Inverter: Internal Option
<a href="#">506381</a>	FR-A8ND-60 E-KIT DeviceNet Network connection; Coated; E-KIT for FR-E800 Class 100100402: FA-Inverter: Internal Option
<a href="#">506412</a>	FR-A8NC-60 E-KIT CC-Link Network connection; Coated; E-KIT for FR-E800 Class 100100402: FA-Inverter: Internal Option
<a href="#">573101</a>	FR-A8AP-60 E-KIT Incremental Encoder Feedback; E-KIT for FR-E800; Coated Class 100100402: FA-Inverter: Internal Option