



## MATERIAL FACT SHEET

### 500094 FR-E840-0016EPB-60

#### General Data

Product Hierarchy	IAK24802
	INVERTER
	FR-E840
Ext. Material Group	10 STANDARD ITEM
ABC Indicator	A (Available from Stock)

e-shop: <https://emea.mitsubishielectric.com/fa/shop/material-page/000000000000500094>

#### FA-Inverter: Inverter

Series	FR-E800 SERIES
Type	FR-E800-ETH 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)	2,1
Rated Output Current ND (A)	1,6
Rated Motor Capacity LD (kW)	0,75
Rated Motor Capacity ND (kW)	0,4
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 DIGITS LED
PLC Function	YES
Program Memory	2K
Program Memory Unit	STEPS
Integrated Digital Inputs	2
Digital Outputs (Transistor)	0
Digital Outputs (Relay)	1
Integrated Analogue Inputs	2
Integrated Analogue Outputs	0
IO Type of Terminal Block	SPRING CLAMP
Expandable	YES
RS-485	NO
USB	1 (MINI B)
Ethernet Port	2
Built-In Network	CC-LINK IE FIELD BASIC
Built-In Network (2)	CC-LINK IE TSN
Built-In Network (3)	MODBUS/TCP
Built-In Network (4)	PROFINET
Leakage Current (mA)	1,2
Power Loss LD (W)	34
Power Loss ND (W)	26
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)	1,419
Volume (cdm)	5,125

### Stock Data

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

Sales Start	09.11.2020
Predecessor	316572 / FR-E740-016SC-ENE

### Additional Product Information

Battery included	NO
Product Code	INV(O/O MDI)

### 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="#">1317-36-8</a>
REACH Substance CAS Number (2)	<a href="#">540-97-6</a>
REACH Substance CAS Number (3)	<a href="#">541-02-6</a>
REACH Substance CAS Number (4)	<a href="#">556-67-2</a>
REACH Substance CAS Number (5)	<a href="#">7439-92-1</a>
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=bltdae25c2bd5f2ff94&amp;q=FR-E840-0016EPB-60&amp;doc-lang=en">https://emea.mitsubishielectric.com/fa/advanced-search?ct=document&amp;doc-cats=bltdae25c2bd5f2ff94&amp;q=FR-E840-0016EPB-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-E840-0016EPB-60&amp;doc-lang=en">https://emea.mitsubishielectric.com/fa/advanced-search?ct=document&amp;doc-cats=blt8050dd1408c11cc2&amp;q=FR-E840-0016EPB-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-E840-0016EPB-60&amp;doc-lang=en">https://emea.mitsubishielectric.com/fa/advanced-search?ct=document&amp;doc-cats=blt26ecc97a31a841c1&amp;q=FR-E840-0016EPB-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-E840-0016EPB-60&amp;doc-lang=en">https://emea.mitsubishielectric.com/fa/advanced-search?ct=document&amp;doc-cats=blte8cf990c7c524b4e&amp;q=FR-E840-0016EPB-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="#">600707</a>	FR-E820/E860EPB PCB CPU	1	PC
<a href="#">600478</a>	FR-E840-0016-4-0.4K PCB MA	1	PC
<a href="#">611069</a>	FR-E840-0016EPA(B)-60 PCB GA	1	PC
<a href="#">606267</a>	FR-E820(S)/E840/E860 PCB TERMINAL	1	PC
<a href="#">611139</a>	FR-E800-(SC)EPA(B) parameter unit	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="#">703056</a>	EM-AMF 0.4KW 320V 100HZ PM Motor; 0.4kW; Flange type; 3000r/min Class 100100410: FA-Inverter: Motor
<a href="#">703057</a>	EM-AMFW 0.4KW 320V 100HZ PM Motor; 0.4kW; Flange type; IP65; 3000r/min Class 100100410: FA-Inverter: Motor
<a href="#">703058</a>	EM-AMFT 0.4KW 320V 100HZ PM Motor; 0.4kW; Flange type; Terminal Block; 3000r/min Class 100100410: FA-Inverter: Motor
<a href="#">703059</a>	EM-AMFB 0.4KW 320V 100HZ PM Motor; 0.4kW; Flange type; With brake; 3000r/min Class 100100410: FA-Inverter: Motor
<a href="#">703060</a>	EM-AMFBW 0.4KW 320V 100HZ PM Motor; 0.4kW; Flange type; With brake; IP65; 3000r/min Class 100100410: FA-Inverter: Motor
<a href="#">703061</a>	EM-AMFBT 0.4KW 320V 100HZ PM Motor; 0.4kW; Flange type; Terminal Block; With brake; 3000r/min Class 100100410: FA-Inverter: Motor
<a href="#">703062</a>	EM-AMFK 0.4KW 320V 100HZ PM Motor; 0.4kW; Flange type; With key; 3000r/min Class 100100410: FA-Inverter: Motor
<a href="#">703063</a>	EM-AMFKW 0.4KW 320V 100HZ PM Motor; 0.4kW; Flange type; With key; IP65; 3000r/min Class 100100410: FA-Inverter: Motor
<a href="#">703064</a>	EM-AMFKT 0.4KW 320V 100HZ PM Motor; 0.4kW; Flange type; Terminal Block; With key; 3000r/min Class 100100410: FA-Inverter: Motor
<a href="#">703065</a>	EM-AMFBK 0.4KW 320V 100HZ PM Motor; 0.4kW; Flange type; With brake; With key; 3000r/min Class 100100410: FA-Inverter: Motor
<a href="#">703066</a>	EM-AMFBKW 0.4KW 320V 100HZ PM Motor; 0.4kW; Flange type; With brake; With key; IP65; 3000r/min Class 100100410: FA-Inverter: Motor
<a href="#">703067</a>	EM-AMFBKT 0.4KW 320V 100HZ PM Motor; 0.4kW; Flange type; Terminal Block; With brake; With key; 3000r/min Class 100100410: FA-Inverter: Motor