



## MATERIAL FACT SHEET

### 504768 FR-E840-0095SCEPB-60

#### General Data

Price List Text (EN)	Inverter; Pn:3,7-5,5kW;3x380-480V;In max:11,1A;(3,7kW;9,5A);PROFINET;SIL3;IP20
Price List Text (DE)	Umrichter; Pn:3,7-5,5kW;3x380-480V;In max:11,1A;(3,7kW;9,5A);PROFINET;SIL3;IP20
Product Hierarchy	IAK24802
	INVERTER
	FR-E840
Ext. Material Group	10 STANDARD ITEM
ABC Indicator	B (Limited Availability from Stock)

e-shop: [https://mitsubishi-electric-eshop.mee.com/mee/FA\\_IA/EUR/en/p/000000000000504768](https://mitsubishi-electric-eshop.mee.com/mee/FA_IA/EUR/en/p/000000000000504768)

#### FA-Inverter: Inverter

Series	FR-E800 SERIES
Type	FR-E800-ETH SAFETY CONTROL
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)	11,1
Rated Output Current ND (A)	9,5
Rated Motor Capacity LD (kW)	5,5
Rated Motor Capacity ND (kW)	3,7
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	0
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)	137
Power Loss ND (W)	113
Standby Power Consumption (W)	-

Protection Class	IP20
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### Product Dimensions & Weight

Width (mm)	140
Height (mm)	150
Depth (mm)	135
Weight (kg)	1,8

### Logistic Dimensions & Gross Weight

Length (cm)	23,0
Width (cm)	17,0
Height (cm)	21,0
Gross Weight (kg)	2,225
Volume (cdm)	8,211

### Stock Data

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

Sales Start	09.11.2020
Predecessor	No Predecessor

### 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=bltdae25c2bd5f2ff94&amp;q=FR-E840-0095SCEPB-60&amp;doc-lang=en">https://emea.mitsubishielectric.com/fa/advanced-search?ct=document&amp;doc-cats=bltdae25c2bd5f2ff94&amp;q=FR-E840-0095SCEPB-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-E840-0095SCEPB-60&amp;doc-lang=en">https://emea.mitsubishielectric.com/fa/advanced-search?ct=document&amp;doc-cats=blt8050dd1408c11cc2&amp;q=FR-E840-0095SCEPB-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-E840-0095SCEPB-60&amp;doc-lang=en">https://emea.mitsubishielectric.com/fa/advanced-search?ct=document&amp;doc-cats=blt26ecc97a31a841c1&amp;q=FR-E840-0095SCEPB-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-E840-0095SCEPB-60&amp;doc-lang=en">https://emea.mitsubishielectric.com/fa/advanced-search?ct=document&amp;doc-cats=blte8cf990c7c524b4e&amp;q=FR-E840-0095SCEPB-60&amp;doc-lang=en</a>

### Product Packaging

Cardboard (g)	315
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="#">611068</a>	FR-E840 -SCEPB-60 PCB CPU	1	PC
<a href="#">600474</a>	FR-E840-0095-4-3.7K PCB MA	1	PC
<a href="#">611133</a>	FR-E840-0095EPA(B)-60 PCB GA	1	PC
<a href="#">611135</a>	FR-E840-SCEPB-60 PCB TA	1	PC
<a href="#">611136</a>	FR-E840-0040-0095 FAN	1	PC
<a href="#">611139</a>	FR-E800-(SC)EPA(B) UNIT DU	1	PC

Material	Description	Quantity	Unit
<a href="#">611140</a>	FR-E800-3,7K CBL CA	1	PC
<a href="#">611143</a>	FR-E840-0040-0095 COVER FAN	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="#">87244</a>	FR-BAL-B-4,0K Input Reactor 3ph; 400V; for 4,0kW Class 100100406: FA-Inverter: Choke
<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="#">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="#">209737</a>	FFR-SI-18A-SS1 Sinusfilter for 200/230/400V Inverters;max. 18A;FT=4-16kHz;(W*H*D) 190*230*120mm 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="#">221540</a>	USB-CAB-5M USB 2.0 connection cabel, plug USB A to plug USB B (mini), 5m Class 100100303: FA-HMI: Cable
<a href="#">238346</a>	FFR-HEL-H3.7K-E DC Link choke for 400V Inverter; 3,7kW; 8,81mH; 7,1A Class 100100406: FA-Inverter: Choke
<a href="#">254687</a>	NF32-SV 3P 20A Circuit breaker 3pole. In = 20A; Icu = Ics = 2,5kA at AC 440V Class 100100901: FA-MCCB: Moulded-Case Circuit Breaker
<a href="#">254746</a>	NF63-SV 3P 20A Circuit breaker 3pole. In = 20A; Icu = Ics = 7,5kA at AC 440V Class 100100901: FA-MCCB: Moulded-Case Circuit Breaker
<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
<a href="#">288439</a>	MMP-T32LF 25A Motor prot. switch. 10,6kW; Ir=18,0 ~ 25,0A; Icu AC 400V=15kA Class 100101101: FA-MMS: Manual Motor Starter

Material	Description / Price List Text / Classification
<a href="#">312355</a>	FFR-MSH-095-16A-SF1 Radio Noise Filter for FR-E740/E840-060/095; C1 20m, C2 100m 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="#">573101</a>	FR-A8AP-60 E-KIT Incremental Encoder Feedback; E-KIT for FR-E800; Coated Class 100100402: FA-Inverter: Internal Option