MITSUBISHI ELECTRIC EUROPE B.V.

Industrial Automation
Mitsubishi-Electric-Platz 1 40882 Ratingen Deutschland
Telefon +49 (0) 2102 486-0 Fax +49 (0) 2102 486-1120
https://emea.mitsubishielectric.com/fa

MATERIAL FACT SHEET

500096 FR-E840-0040EPB-60

General Data

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/000000000000500096

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)	5,5
Rated Output Current ND (A)	4
Rated Motor Capacity LD (kW)	2,2
Rated Motor Capacity ND (kW)	1,5
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)	85
Power Loss ND (W)	59
Standby Power Consumption (W)	-
Protection Class	IP20

Product Dimensions & Weight

Width (mm)	108
Height (mm)	128
Depth (mm)	135
Weight (kg)	1,4

Logistic Dimensions & Gross Weight

Length (cm)	20,5
Width (cm)	12,5
Height (cm)	20,0
Gross Weight (kg)	1,615
Volume (cdm)	5,125

Stock Data

Planned Delivery Time (Days)	79

Life Cycle

Sales Start	09.11.2020
Predecessor	316574 / FR-E740-040SC-ENE

Additional Product Information

Battery included	NO

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	1317-36-8
REACH Substance CAS Number (2)	540-97-6
REACH Substance CAS Number (3)	541-02-6
REACH Substance CAS Number (4)	7439-92-1
REACH Substance CAS Number (5)	556-67-2
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	https://emea.mitsubishielectric.com/fa/advanced-search?ct=document&doc-cats=bltdae25c2bd5f2ff94&q=FR-E840-0040EPB-60&doc-lang=en
Certificates URL Indicator	https://emea.mitsubishielectric.com/fa/advanced-search?ct=document&doc-cats=blt8050dd1408c11cc2&q=FR-E840-0040EPB-60&doc-lang=en
CAD URL Indicator	https://emea.mitsubishielectric.com/fa/advanced-search?ct=document&doc-cats=blt26ecc97a31a841c1&q=FR-E840-0040EPB-60&doc-lang=en
Network configuration file URL	https://emea.mitsubishielectric.com/fa/advanced-search?ct=document&doc-cats=blte8cf990c7c524b4e&q=FR-E840-0040EPB-60&doc-lang=en

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
600707	FR-E820/E860EPB PCB CPU	1	PC
600476	FR-E840-0040-4-1.5K PCB MA	1	PC
611071	FR-E840-0040EPA(B)-60 PCB GA	1	PC
606267	FR-E820(S)/E840/E860 PCB TERMINAL	1	PC
611136	FR-E840-0040-0095 FAN	1	PC
611139	FR-E800-(SC)EPA(B) parameter unit	1	PC
611140	FR-E800-3,7K CBL CA	1	PC
591470	FR-A870 CABLE ALL BKO-CA1972H01	1	PC
611143	FR-E840-0040-0095 COVER FAN	1	PC
611144	FR-E800 COVER TOP ALL	1	PC

Compatible products

Material	Description / Price List Text / Classification
703088	EM-AMF 1.5KW 340V 150HZ PM Motor; 1.5kW; Flange type; 3000r/min Class 100100410: FA-Inverter: Motor
703089	EM-AMFW 1.5KW 340V 150HZ PM Motor; 1.5kW; Flange type; IP65; 3000r/min Class 100100410: FA-Inverter: Motor
703090	EM-AMFT 1.5KW 340V 150HZ PM Motor; 1.5kW; Flange type; Terminal Block; 3000r/min Class 100100410: FA-Inverter: Motor
703091	EM-AMFB 1.5KW 340V 150HZ PM Motor; 1.5kW; Flange type; With brake; 3000r/min Class 100100410: FA-Inverter: Motor
703092	EM-AMFBW 1.5KW 340V 150HZ PM Motor; 1.5kW; Flange type; With brake; IP65; 3000r/min Class 100100410: FA-Inverter: Motor
703093	EM-AMFBT 1.5KW 340V 150HZ PM Motor; 1.5kW; Flange type; Terminal Block; With brake; 3000r/min Class 100100410: FA-Inverter: Motor
703094	EM-AMFK 1.5KW 340V 150HZ PM Motor; 1.5kW; Flange type; With key; 3000r/min Class 100100410: FA-Inverter: Motor
703095	EM-AMFKW 1.5KW 340V 150HZ PM Motor; 1.5kW; Flange type; With key; IP65; 3000r/min Class 100100410: FA-Inverter: Motor
703096	EM-AMFKT 1.5KW 340V 150HZ PM Motor; 1.5kW; Flange type; Terminal Block; With key; 3000r/min Class 100100410: FA-Inverter: Motor
703097	EM-AMFBK 1.5KW 340V 150HZ PM Motor; 1.5kW; Flange type; With brake; With key; 3000r/min Class 100100410: FA-Inverter: Motor
703098	EM-AMFBKW 1.5KW 340V 150HZ PM Motor; 1.5kW; Flange type; With brake; With key; IP65; 3000r/min Class 100100410: FA-Inverter: Motor
703099	EM-AMFBKT 1.5KW 340V 150HZ PM Motor; 1.5kW; Flange type; Terminal Block; With brake; With key; 3000r/min Class 100100410: FA-Inverter: Motor