



MATERIAL FACT SHEET

504759 FR-E820S-0015SCEPB-60

General Data

Product Hierarchy	IAK24801
	INVERTER
	FR-E820
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/000000000000504759

FA-Inverter: Inverter

Series	FR-E800 SERIES
Type	FR-E800-ETH SAFETY CONTROL
Minimum Rated Voltage (V)	200
Min. Permissible Voltage (V)	170
Maximum Rated Voltage (V)	240
Max. Permissible Voltage (V)	264
Current Type	AC
Phases	1
Rated Output Current ND (A)	1,5
Rated Motor Capacity ND (kW)	0,2
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
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	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)	-
Power Loss ND (W)	18
Standby Power Consumption (W)	-
Protection Class	IP20

Product Dimensions & Weight

Width (mm)	68
Height (mm)	128

Depth (mm)	80,5
Weight (kg)	0,5

Logistic Dimensions & Gross Weight

Length (cm)	17,0
Width (cm)	15,0
Height (cm)	12,0
Gross Weight (kg)	0,653
Volume (cdm)	3,060

Stock Data

Planned Delivery Time (Days)	79
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Life Cycle

Sales Start	09.11.2020
Predecessor	No Predecessor

Additional Product Information

Battery included	NO
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Export Data

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	https://emea.mitsubishielectric.com/fa/advanced-search?ct=document&doc-cats=bltdae25c2bd5f2ff94&q=FR-E820S-0015SCEPB-60&doc-lang=en
Certificates URL Indicator	https://emea.mitsubishielectric.com/fa/advanced-search?ct=document&doc-cats=blt8050dd1408c11cc2&q=FR-E820S-0015SCEPB-60&doc-lang=en
CAD URL Indicator	https://emea.mitsubishielectric.com/fa/advanced-search?ct=document&doc-cats=blt26ecc97a31a841c1&q=FR-E820S-0015SCEPB-60&doc-lang=en
Network configuration file URL	https://emea.mitsubishielectric.com/fa/advanced-search?ct=document&doc-cats=blte8cf990c7c524b4e&q=FR-E820S-0015SCEPB-60&doc-lang=en

Product Packaging

Cardboard (g)	145
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
611068	FR-E840 -SCEPB-60 PCB CPU	1	PC
611135	FR-E840-SCEPB-60 PCB TA	1	PC
611139	FR-E800-(SC)EPA(B) UNIT DU	1	PC
611140	FR-E800-3,7K CBL CA	1	PC
611144	FR-E800 COVER TOP ALL	1	PC

Compatible products

Material	Description / Price List Text / Classification
70727	FR-A5 CBL 1 Cable for connecting Inverter and Programming panel; 1m Class 100100405: FA-Inverter: Cable
70728	FR-A5 CBL 2,5 Cable for connecting Inverter and Programming panel; 2,5m Class 100100405: FA-Inverter: Cable
70729	FR-A5 CBL 5 Cable for connecting Inverter and Programming panel; 5m Class 100100405: FA-Inverter: Cable
130832	FR-UDA02 DIN-Rail Adaptor for FR-D720S-1,5k; FR-D740-0,4k-3,7k Class 100100403: FA-Inverter: External Option
134969	FR-BAL-S-B-0,4K Input Reactor; 1 ph.; 230 V; for 0,4 K Class 100100406: FA-Inverter: Choke
202426	FR-BU2-H7.5K Brake Unit without Brake Resistor for all Inverters with DC-Bus Terminals; 400V Class 100100407: FA-Inverter: Brake Option
238357	FFR-HEL-0.4K-E DC Link choke for 200V Inverter; 0,4kW; 17mH; 2,1A Class 100100406: FA-Inverter: Choke
254682	NF32-SV 3P 5A Circuit breaker 3pole. In = 5A; Icu = Ics = 2,5kA at AC 440V Class 100100901: FA-MCCB: Moulded-Case Circuit Breaker
254741	NF63-SV 3P 5A Circuit breaker 3pole. In = 5A; Icu = Ics = 7,5kA at AC 440V Class 100100901: FA-MCCB: Moulded-Case Circuit Breaker
279143	S-T10 AC200V 1A Magnetic contactor. 4kW; 1NO; Us = AC 200V, 50Hz Class 100101001: FA-MC: Magnetic Contactor
279200	S-T10 AC200V 1B Magnetic contactor. 4kW; 1NC; Us = AC 200V, 50Hz Class 100101001: FA-MC: Magnetic Contactor
288434	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
312348	FFR-CS-050-14A-SF1 Radio Noise Filter for FR-E820S-0008-0030/FR-D720S/FR-CS82S; C1: 20m, C2: 50m Class 100100404: FA-Inverter: Filter
312351	FFR-CS-050-14A-SF1-LL Radio Noise Filter for FR-E820S-0008-0030/FR-D720S; C1: 10m Class 100100404: FA-Inverter: Filter
679083	EM-AMFW 0.2KW 135V 100HZ PM Motor; 0.2kW; Flange type; IP65; 3000r/min Class 100100410: FA-Inverter: Motor
679084	EM-AMFB 0.2KW 135V 100HZ PM Motor; 0.2kW; Flange type; With brake; 3000r/min Class 100100410: FA-Inverter: Motor
679085	EM-AMFBW 0.2KW 135V 100HZ PM Motor; 0.2kW; Flange type; With brake; IP65; 3000r/min Class 100100410: FA-Inverter: Motor
679086	EM-AMFK 0.2KW 135V 100HZ PM Motor; 0.2kW; Flange type; With key; 3000r/min Class 100100410: FA-Inverter: Motor
679087	EM-AMFKW 0.2KW 135V 100HZ PM Motor; 0.2kW; Flange type; With key; IP65; 3000r/min Class 100100410: FA-Inverter: Motor
679088	EM-AMFBK 0.2KW 135V 100HZ PM Motor; 0.2kW; Flange type; With brake; With key; 3000r/min Class 100100410: FA-Inverter: Motor
679089	EM-AMFBKW 0.2KW 135V 100HZ PM Motor; 0.2kW; Flange type; With brake; With key; IP65; 3000r/min Class 100100410: FA-Inverter: Motor
703048	EM-AMFT 0.2KW 135V 100HZ PM Motor; 0.2kW; Flange type; Terminal Block; 3000r/min Class 100100410: FA-Inverter: Motor
703049	EM-AMFBT 0.2KW 135V 100HZ PM Motor; 0.2kW; Flange type; Terminal Block; With brake; 3000r/min Class 100100410: FA-Inverter: Motor

Material	Description / Price List Text / Classification
703050	EM-AMFKT 0.2KW 135V 100HZ PM Motor; 0.2kW; Flange type; Terminal Block; With key; 3000r/min Class 100100410: FA-Inverter: Motor
703051	EM-AMFBKT 0.2KW 135V 100HZ PM Motor; 0.2kW; Flange type; Terminal Block; With brake; With key; 3000r/min Class 100100410: FA-Inverter: Motor