



MATERIAL FACT SHEET

406378 FR-A870-00890-E2-60B

General Data

Product Hierarchy	IAK24107
	INVERTER
	FR-A870
Ext. Material Group	10 STANDARD ITEM
ABC Indicator	C (Non-Stock Material / Make-to-Order)

e-shop: https://mitsubishi-electric-eshop.mee.com/mee/FA_1A/EUR/en/p/000000000000406378

FA-Inverter: Inverter

Series	FR-A SERIES
Type	FR-A800-E INVERTER
Minimum Rated Voltage (V)	525/600
Min. Permissible Voltage (V)	472/540
Maximum Rated Voltage (V)	600/690
Max. Permissible Voltage (V)	660/759
Current Type	AC
Phases	3
Rated Output Current ND (A)	66
Rated Motor Capacity ND (kW)	55
Frequency Range (Hz)	50/60
Control Method	SOFT-PWM/HIGH FRQ PWM/VECTOR
Motor Type	INDUCTION MOTOR, PM MOTOR
Brake Chopper ED (%)	-
Integrated EMC Filter	YES
Safe Torque Off (STO)	YES
Regenerative (4Q)	YES
Integrated DC Choke	YES
Display	FR-DU08
Display Type	5 DIGITS LED
PLC Function	YES
Program Memory	6K
Program Memory Unit	STEPS
Integrated Digital Inputs	12
Digital Outputs (Transistor)	5
Digital Outputs (Relay)	2
Integrated Analogue Inputs	3
Integrated Analogue Outputs	2
IO Type of Terminal Block	SPRING CLAMP
Expandable	YES
USB	1+1 MINI
Ethernet Port	1
Built-In Network	CC-LINK IE FIELD BASIC
Built-In Network (2)	MODBUS/TCP
Leakage Current (mA)	-
Power Loss SLD (W)	1400
Power Loss ND (W)	900
Standby Power Consumption (W)	-
Protection Class	IP20

Product Dimensions & Weight

Width (mm)	251
Height (mm)	753
Depth (mm)	410
Weight (kg)	59

Logistic Dimensions & Gross Weight

Length (cm)	89,0
Width (cm)	61,0
Height (cm)	49,0
Gross Weight (kg)	71,000
Volume (cdm)	266,021

Stock Data

Planned Delivery Time (Days)	212
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Life Cycle

Sales Start	01.09.2019
Predecessor	No Predecessor

Additional Product Information

Binding Tariff Information	DEBTI-21865/22-1
BTI validity date	01.01.2026
Battery included	NO

Export Data

Legal Control (Dual Use List)	Not Listed
Country of Origin	Japan (JP)
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-A870-00890-E2-60B&doc-lang=en
Certificates URL Indicator	https://emea.mitsubishielectric.com/fa/advanced-search?ct=document&doc-cats=blt8050dd1408c11cc2&q=FR-A870-00890-E2-60B&doc-lang=en

Spare parts

Material	Description	Quantity	Unit
498604	FR-A800-Series-E2 PCB CPU	1	PC
591281	FR-A870-E 37K-55K PCB MA	1	PC
591447	FR-A870-E 37K-55K PCB AY	1	PC
591448	FR-A870-E 37K-55K PCB GA	3	PC
591451	FR-A870-E 37K-200K PCB AUX	2	PC
591453	FR-A870-55K-E CAPACITOR	3	PC
591457	FR-A870-37K-55K-E DIODE MODULE	1	PC
676273	FR-A870-00590-00890 FAN	1	PC
591463	FR-A870-37K-55K-E SCRM	3	PC
591465	FR-A870-37K-55K-E TRM	1	PC
282932	FR-A840/842/846-ALL TERMINAL BLOCK A80TA	1	PC
591466	FR-DU08 PARAMETER-UNIT ALL	1	PC
591467	FR-A870-37K-55K/400K-560K CAPACITOR	4	PC
282933	FR-A840-00170-00250/A846-ALL CBL MA-CPU	1	PC
591470	FR-A870 CABLE ALL BKO-CA1972H01	1	PC
591471	FR-A870 CABLE ALL BKO-CA1972H02	1	PC
591474	FR-A870-55K-E DCCT	1	PC
591482	FR-A870-55K-E DC REACTOR	1	PC
282940	FR-A840/842/CC2-ALL CASE CPU	1	PC
591485	FR-A870 COVER CA PCB PRINT ALL	1	PC
591486	FR-A870 COVER INTERFACE ALL	1	PC
591487	FR-A870-37K-55K-E COVER BKO-CA2720H72	9	PC
591490	FR-A870-37K-55K-E RESISTOR 3.6OHM	1	PC
282941	FR-A840-77A-116A BALANCE RESISTOR	6	PC
591494	FR-A870 GROUND WIRE ETH ALL	1	PC