



MATERIAL FACT SHEET

406393 FR-A870-02300-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/000000000000406393

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)	185
Rated Motor Capacity ND (kW)	110/160
Frequency Range (Hz)	50/60
Control Method	SOFT-PWM/HIGH FRQ PWM/VECTOR
Motor Type	INDUCTION MOTOR, PM MOTOR
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)	3700
Power Loss ND (W)	3000
Standby Power Consumption (W)	-
Protection Class	IP20

Product Dimensions & Weight

Width (mm)	380
Height (mm)	900
Depth (mm)	410
Weight (kg)	120

Logistic Dimensions & Gross Weight

Length (cm)	0,0
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Width (cm)	0,0
Height (cm)	0,0
Gross Weight (kg)	132,000
Volume (cdm)	0,000

Stock Data

Planned Delivery Time (Days)	212
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Life Cycle

Sales Start	01.10.2018
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-A870-02300-E2-60B&doc-lang=en
Certificates URL Indicator	https://emea.mitsubishielectric.com/fa/advanced-search?ct=document&doc-cats=blt8050dd1408c11cc2&q=FR-A870-02300-E2-60B&doc-lang=en
CAD URL Indicator	https://emea.mitsubishielectric.com/fa/advanced-search?ct=document&doc-cats=blt26ecc97a31a841c1&q=FR-A870-02300-E2-60B&doc-lang=en

Product Packaging

Cardboard (g)	20000
Other paper (g)	0
Aluminum (g)	0
Steel (g)	15
Styrofoam (g)	0
Other plastic (g)	150
Wood (g)	0
Glass (g)	0
Others (g)	0

Spare parts

Material	Description	Quantity	Unit
498604	FR-A800-Series-E2 PCB CPU	1	PC
591442	FR-A870-E 160K-200K PCB MA	1	PC
591444	FR-A870-E 160K-200K PCB POWER	1	PC
591446	FR-A870&A872-E 160K-560K PCB AY	1	PC
591449	FR-A870-E160K-200K PCB GA	4	PC
591451	FR-A870-E 37K-200K PCB AUX	1	PC
591454	FR-A870-160K-E CAPACITOR	6	PC
591458	FR-A870-160K-200K-E DIODE MODULE	1	PC
488132	FR-A870-02300/02860 FAN	2	PC
591464	FR-A870-E160K-200K-E SCRM	3	PC
282932	FR-A840/842/846-ALL TERMINAL BLOCK A80TA	1	PC
591466	FR-DU08 PARAMETER-UNIT ALL	1	PC
591468	FR-A870-160K-200K-E DAMPING CAPACITOR	4	PC
282933	FR-A840-00170-00250/A846-ALL CBL MA-CPU	1	PC

Material	Description	Quantity	Unit
591470	FR-A870 CABLE ALL BKO-CA1972H01	1	PC
591471	FR-A870 CABLE ALL BKO-CA1972H02	1	PC
591475	FR-A870-160K-E DCCT	3	PC
591483	FR-A870-160K-E DC REACTOR	2	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
591488	FR-A870-160K-200K-E COVER BKO-CA2522H73	9	PC
591489	FR-A870-160K-200K-E IP20 COVER	1	PC
591491	FR-A870-160K-200K-E RESISTOR 3.6OHM	1	PC
591492	FR-A870-160K-200K-E RESISTOR TCR20W473JC	12	PC
591493	FR-A870-160K-200K-E TERMINAL BLOCK	1	PC
591494	FR-A870 GROUND WIRE ETH ALL	1	PC
591496	FR-A870-160K-200K-E-60B WIRING HARNESS	1	PC