



MATERIAL FACT SHEET

406273 FR-A872-05690-E2-60

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/000000000000406273

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	DC
Phases	3
Rated Output Current ND (A)	512
Rated Motor Capacity ND (kW)	450
Frequency Range (Hz)	50/60
Control Method	SOFT-PWM/HIGH FRQ PWM/VECTOR
Motor Type	INDUCTION MOTOR, PM MOTOR
Integrated EMC Filter	NO
Safe Torque Off (STO)	YES
Regenerative (4Q)	NO
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)	5060
Power Loss ND (W)	4580
Standby Power Consumption (W)	-
Protection Class	IP00

Product Dimensions & Weight

Width (mm)	240
Height (mm)	1600
Depth (mm)	565
Weight (kg)	186

Logistic Dimensions & Gross Weight

Length (cm)	174,0
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Width (cm)	58,0
Height (cm)	84,0
Gross Weight (kg)	240,000
Volume (cdm)	847,728

Stock Data

Planned Delivery Time (Days)	184
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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-A872-05690-E2-60&doc-lang=en
Certificates URL Indicator	https://emea.mitsubishielectric.com/fa/advanced-search?ct=document&doc-cats=blt8050dd1408c11cc2&q=FR-A872-05690-E2-60&doc-lang=en
CAD URL Indicator	https://emea.mitsubishielectric.com/fa/advanced-search?ct=document&doc-cats=blt26ecc97a31a841c1&q=FR-A872-05690-E2-60&doc-lang=en

Product Packaging

Cardboard (g)	0
Other paper (g)	0
Aluminum (g)	0
Steel (g)	0
Styrofoam (g)	0
Other plastic (g)	0
Wood (g)	57.600
Glass (g)	0
Others (g)	0

Spare parts

Material	Description	Quantity	Unit
498604	FR-A800-Series-E2 PCB CPU	1	PC
591443	FR-A872-E 450K-560K PCB MA	1	PC
591445	FR-A872-E 450K-560K PCB POWER	2	PC
591446	FR-A870&A872-E 160K-560K PCB AY	1	PC
591450	FR-A872-E 450L-560K PCB GA	12	PC
591456	FR-A870-400K-560K-E CAPACITOR	12	PC
591459	FR-A870-450K-560K-E FUSE INPUT-DC	2	PC
591460	FR-A870-450K-560K-E FUSE DC-IGBT	8	PC
591461	FR-A870-450K-560K-E FUSE FR10GR69V10	1	PC
591462	FR-A870-450K-560K-E FAN	3	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	12	PC
591469	FR-A870-450K-560K-E CABLE	1	PC

Material	Description	Quantity	Unit
591470	FR-A870 CABLE ALL BKO-CA1972H01	1	PC
591471	FR-A870 CABLE ALL BKO-CA1972H02	1	PC
591477	FR-A870-450K-E DCCT	3	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
591492	FR-A870-160K-200K-E RESISTOR TCR20W473JC	24	PC
591494	FR-A870 GROUND WIRE ETH ALL	1	PC