



MATERIAL FACT SHEET

500431 FR-A860-00450-E1-N6

General Data

Product Hierarchy	IAK24108
	INVERTER
	FR-A860
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_IA/EUR/en/p/000000000000500431

FA-Inverter: Inverter

Series	FR-A SERIES
Type	FR-A800-E INVERTER
Minimum Rated Voltage (V)	525
Min. Permissible Voltage (V)	472
Maximum Rated Voltage (V)	600
Max. Permissible Voltage (V)	660
Current Type	AC
Phases	3
Rated Output Current ND (A)	33
Rated Motor Capacity ND (kW)	22
Rated Motor Capacity HD (kW)	18,5
Frequency Range (Hz)	0,2-590
Control Method	VECTOR CONTROL
Motor Type	INDUCTION MOTOR, PM MOTOR
Integrated EMC Filter	YES
Safe Torque Off (STO)	YES
Regenerative (4Q)	NO
Integrated DC Choke	NO
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)	680
Power Loss LD (W)	610
Power Loss ND (W)	480
Power Loss HD (W)	340
Standby Power Consumption (W)	-
Protection Class	IP00

Product Dimensions & Weight

Width (mm)	250
Height (mm)	517
Depth (mm)	190
Weight (kg)	16,83

Logistic Dimensions & Gross Weight

Length (cm)	63,5
Width (cm)	30,0
Height (cm)	27,0
Gross Weight (kg)	18,551
Volume (cdm)	51,435

Stock Data

Planned Delivery Time (Days)	212
------------------------------	-----

Life Cycle

Sales Start	09.03.2020
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	NOT IN SCOPE
WEEE	B2B

Conformity

CE	NON-COMPLIANT
UL/cUL	COMPLIANT
EAC	COMPLIANT
Shipping Approvals	NON-COMPLIANT
UKCA	NON-COMPLIANT

Documentation & Media Data

Manual URL Indicator	https://emea.mitsubishielectric.com/fa/advanced-search?ct=document&doc-cats=bltdae25c2bd5f2ff94&q=FR-A860-00450-E1-N6&doc-lang=en
Certificates URL Indicator	https://emea.mitsubishielectric.com/fa/advanced-search?ct=document&doc-cats=blf8050dd1408c11cc2&q=FR-A860-00450-E1-N6&doc-lang=en

Spare parts

Material	Description	Quantity	Unit
591280	FR-A800-E1-60 PCB CPU	1	PC
283450	FR-A840-00470-01800-2-60 FAN	1	PC
283438	FR-A840-00470-00770-2-60 THYRISTORMODULE	1	PC
282932	FR-A840/842/846-ALL TERMINAL BLOCK A80TA	1	PC
591470	FR-A870 CABLE ALL BKO-CA1972H01	1	PC
591471	FR-A870 CABLE ALL BKO-CA1972H02	1	PC
283483	FR-A840-00470-00620-2-60 CBL MA-CPU	1	PC
282934	FR-A840-00470-2-60/A846-00470-2-60 DCCT	1	PC
591486	FR-A870 COVER INTERFACE ALL	1	PC
283697	FR-A840-00470/00620-2-60 COVER LOWER FR.	1	PC
283699	FR-A840-00470/00620-2-60 COVER FAN	1	PC
283460	FR-A840-00470-00620-2-60 INRUSH RES.	1	PC
591494	FR-A870 GROUND WIRE ETH ALL	1	PC