



MATERIAL FACT SHEET

307186 FR-AF840-02160-60

General Data

Product Hierarchy	IAK244
	INVERTER
	FR-AF840 from 2160
Ext. Material Group	10 STANDARD ITEM
ABC Indicator	A (Available from Stock)

e-shop: https://mitsubishi-electric-eshop.mee.com/mee/FA_IA/EUR/en/p/000000000000307186

FA-Inverter: Inverter

Series	FR-A/F800 SERIES
Type	BASE UNIT FOR INV A840/F840
Minimum Rated Voltage (V)	380
Min. Permissible Voltage (V)	323
Maximum Rated Voltage (V)	500
Max. Permissible Voltage (V)	550
Current Type	AC
Phases	3
Rated Output Current ND (A)	144
Rated Motor Capacity ND (kW)	75
Rated Motor Capacity HD (kW)	55
Frequency Range (Hz)	-
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
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
RS-485	2
USB	2
Leakage Current (mA)	35(DELTA) / 2(STAR)
Power Loss SLD (W)	2520
Power Loss LD (W)	2100
Power Loss ND (W)	1790
Power Loss HD (W)	1350
Standby Power Consumption (W)	46
Protection Class	IP00

Product Dimensions & Weight

Width (mm)	465
Height (mm)	620
Depth (mm)	300
Weight (kg)	52

Logistic Dimensions & Gross Weight

Length (cm)	88,0
Width (cm)	61,0
Height (cm)	50,0
Gross Weight (kg)	58,000
Volume (cdm)	268,400

Stock Data

Planned Delivery Time (Days)	100
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Life Cycle

Sales Start	15.02.2017
Predecessor	169831 / FR-AF740-02160-EC

Additional Product Information

Binding Tariff Information	DEBTI-51859/20-1
BTI validity date	17.10.2024
Battery included	NO

Export Data

Legal Control (Dual Use List)	Not Listed
Country of Origin	China (CN)
Preference Status (Supplier Declaration)	Non EU

Environmental

REACH Limit Exceeded	NO
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=bltdae25c2bd5f2f94&q=FR-AF840-02160-60&doc-lang=en
Certificates URL Indicator	https://emea.mitsubishielectric.com/fa/advanced-search?ct=document&doc-cats=blt8050dd1408c11cc2&q=FR-AF840-02160-60&doc-lang=en
CAD URL Indicator	https://emea.mitsubishielectric.com/fa/advanced-search?ct=document&doc-cats=blt26ecc97a31a841c1&q=FR-AF840-02160-60&doc-lang=en

Product Packaging

Cardboard (g)	5718,2
Other paper (g)	0
Aluminum (g)	0
Steel (g)	0
Styrofoam (g)	0
Other plastic (g)	215
Wood (g)	0
Glass (g)	0
Others (g)	0

Spare parts

Material	Description	Quantity	Unit
282897	FR-A840-02160-02600-2-60 PCB GA	3	PC
282907	FR-A840-02160-02600-2-60 PCB AUX	1	PC
282932	FR-A840/842/846-ALL TERMINAL BLOCK A80TA	1	PC
283440	FR-A840-02160-02600-2-60 THYRISTORMODULE	1	PC
283449	FR-A840-02160-03610-2-60 FAN	3	PC
283463	FR-A840-02160-02600-2-60 INRUSH RES.	1	PC
283472	FR-A840-02160-2-60 DCCT	3	PC
283484	FR-A840-00770-2-60 OR BIGGER CBL MA-CPU	1	PC
283592	FR-A840-02160-02600-2-60 CAPACITOR	6	PC
283712	FR-A840-02160-03610-2-60 COVER FAN	3	PC

Compatible products

Material	Description / Price List Text / Classification
307201	FR-CA80-02-2-60 Control Card for FR-A840-02160 up to 12120 Class 100100402: FA-Inverter: Internal Option
307203	FR-CA80-02-E2-60 Control Card for FR-A840-02160 up to 12120 Ethernet Version Class 100100402: FA-Inverter: Internal Option
307204	FR-CF80-01-2-60 Control Card for FR-F840-00770 -12120 Class 100100402: FA-Inverter: Internal Option
307205	FR-CF80-01-E2-60 Control Card for FR-F840-00770 -12120 Ethernet Version Class 100100402: FA-Inverter: Internal Option