



MATERIAL FACT SHEET

307192 FR-AF840-05470-60

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/000000000000307192

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)	432
Rated Motor Capacity ND (kW)	220
Rated Motor Capacity HD (kW)	185
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)	5850
Power Loss LD (W)	5100
Power Loss ND (W)	4550
Power Loss HD (W)	3700
Standby Power Consumption (W)	125
Protection Class	IP00

Product Dimensions & Weight

Width (mm)	680
Height (mm)	1010
Depth (mm)	380
Weight (kg)	166

Logistic Dimensions & Gross Weight

Length (cm)	118,0
Width (cm)	82,5
Height (cm)	52,0
Gross Weight (kg)	170,000
Volume (cdm)	506,220

Stock Data

Planned Delivery Time (Days)	100
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Life Cycle

Sales Start	15.02.2017
Predecessor	169837 / FR-AF740-05470-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=bltdae25c2bd5f2ff94&q=FR-AF840-05470-60&doc-lang=en
Certificates URL Indicator	https://emea.mitsubishielectric.com/fa/advanced-search?ct=document&doc-cats=blt8050dd1408c11cc2&q=FR-AF840-05470-60&doc-lang=en
CAD URL Indicator	https://emea.mitsubishielectric.com/fa/advanced-search?ct=document&doc-cats=blt26ecc97a31a841c1&q=FR-AF840-05470-60&doc-lang=en

Product Packaging

Cardboard (g)	15093
Other paper (g)	0
Aluminum (g)	0
Steel (g)	0
Styrofoam (g)	0
Other plastic (g)	495
Wood (g)	0
Glass (g)	0
Others (g)	0

Spare parts

Material	Description	Quantity	Unit
282892	FR-A840-04320-06830-2-60 PCB MA	1	PC
282925	FR-A840-04320-2-60 PCB POWER	1	PC
282927	FR-A840/CC2-325A-432A-547A-DC CAPACITOR	8	PC
282928	FR-A840-03250-12120/CC2 DM	12	PC
282929	FR-A840-04320-12120/CC2 FUSE HOLDER	2	PC
282930	FR-A840-04320-12120/CC2 FUSE	2	PC
282932	FR-A840/842/846-ALL TERMINAL BLOCK A80TA	1	PC
282942	FR-A840-03250-12120 BALANCE RESISTOR	16	PC
283444	FR-A840-03250-12120-2-60 IGBT CM450DY207	12	PC
283466	FR-A840-05470-06830-2-60/CC2 INRUSH RES.	1	PC
283478	FR-A840-05470-2-60 DCCT	3	PC

Material	Description	Quantity	Unit
283484	FR-A840-00770-2-60 OR BIGGER CBL MA-CPU	1	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