



MATERIAL FACT SHEET

307199 FR-AF842-12120-60

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/000000000000307199

FA-Inverter: Inverter

Series	FR-A/F800 SERIES
Type	BASE UNIT FOR INV A842/F842
Minimum Rated Voltage (V)	430
Min. Permissible Voltage (V)	430
Maximum Rated Voltage (V)	780
Max. Permissible Voltage (V)	780
Current Type	DC
Phases	1
Rated Output Current ND (A)	962
Rated Motor Capacity ND (kW)	500
Rated Motor Capacity HD (kW)	450
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)	9810
Power Loss LD (W)	8630
Power Loss ND (W)	7400
Power Loss HD (W)	6490
Standby Power Consumption (W)	111
Protection Class	IP00

Product Dimensions & Weight

Width (mm)	680
Height (mm)	1580
Depth (mm)	440
Weight (kg)	243

Logistic Dimensions & Gross Weight

Length (cm)	68,0
Width (cm)	94,0
Height (cm)	177,0
Gross Weight (kg)	298,000
Volume (cdm)	1.131,384

Stock Data

Planned Delivery Time (Days)	113
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Life Cycle

Sales Start	15.02.2017
Predecessor	169844 / FR-AF740-12120-EC

Additional Product Information

Battery included	NO
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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-AF842-12120-60&doc-lang=en
Certificates URL Indicator	https://emea.mitsubishielectric.com/fa/advanced-search?ct=document&doc-cats=blt8050dd1408c11cc2&q=FR-AF842-12120-60&doc-lang=en
CAD URL Indicator	https://emea.mitsubishielectric.com/fa/advanced-search?ct=document&doc-cats=blt26ecc97a31a841c1&q=FR-AF842-12120-60&doc-lang=en

Product Packaging

Cardboard (g)	7495
Other paper (g)	0
Aluminum (g)	0
Steel (g)	0
Styrofoam (g)	0
Other plastic (g)	789
Wood (g)	39000
Glass (g)	0
Others (g)	0

Spare parts

Material	Description	Quantity	Unit
282925	FR-A840-04320-2-60 PCB POWER	2	PC
282929	FR-A840-04320-12120/CC2 FUSE HOLDER	4	PC
282930	FR-A840-04320-12120/CC2 FUSE	4	PC
282932	FR-A840/842/846-ALL TERMINAL BLOCK A80TA	1	PC
282939	FR-A842-12120-2-60 / CC2-500K DCCT	3	PC
282942	FR-A840-03250-12120 BALANCE RESISTOR	24	PC
283444	FR-A840-03250-12120-2-60 IGBT CM450DY207	18	PC
283484	FR-A840-00770-2-60 OR BIGGER CBL MA-CPU	1	PC
283680	FR-A842-ALL FUSE 6.9URD32TTF0900	6	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