



MATERIAL FACT SHEET

314882 FR-A842-12120-2-60P

General Data

Product Hierarchy	IAK24103
	INVERTER
	FR-A840 from 2160
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/000000000000314882

FA-Inverter: Inverter

Series	FR-A SERIES
Type	FR-A800 ADVANCED INVERTER
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)	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
Display	FR-DU08
Display Type	5 DIGITS LED (12 SEGMENT)
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	1+1 MINI
Built-In Network	MODBUS-RTU
Leakage Current (mA)	2(DELTA) / 1(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)	0,0
Width (cm)	0,0
Height (cm)	0,0
Gross Weight (kg)	320,760
Volume (cdm)	0,000

Stock Data

Planned Delivery Time (Days)	113
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Life Cycle

Sales Start	01.08.2017
Predecessor	No Predecessor

Additional Product Information

Binding Tariff Information	DEBTI-19524/22-1
BTI validity date	14.05.2026
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
Shipping Approvals	ABS,BV,DNV GL,LR,NK
UKCA	COMPLIANT

Documentation & Media Data

Manual URL Indicator	https://emea.mitsubishielectric.com/fa/advanced-search?ct=document&doc-cats=bltdae25c2bd5f2ff94&q=FR-A842-12120-2-60P&doc-lang=en
Certificates URL Indicator	https://emea.mitsubishielectric.com/fa/advanced-search?ct=document&doc-cats=blt8050dd1408c11cc2&q=FR-A842-12120-2-60P&doc-lang=en
CAD URL Indicator	https://emea.mitsubishielectric.com/fa/advanced-search?ct=document&doc-cats=blt26ecc97a31a841c1&q=FR-A842-12120-2-60P&doc-lang=en

Product Packaging

Cardboard (g)	7495,00
Other paper (g)	0,00
Aluminum (g)	0
Steel (g)	0
Styrofoam (g)	0,00
Other plastic (g)	789,00
Wood (g)	39000,00
Glass (g)	0
Others (g)	0

Spare parts

Material	Description	Quantity	Unit
487884	FR-A842-09620-12120-2-60P PCB CPU	1	PC
282893	FR-A842-07700-12120-2-60 PCB MA	1	PC
282925	FR-A840-04320-2-60 PCB POWER	2	PC
283593	FR-A840-03610-2-60 CAPACITOR	12	PC
282929	FR-A840-04320-12120/CC2 FUSE HOLDER	4	PC
282930	FR-A840-04320-12120/CC2 FUSE	4	PC
283680	FR-A842-ALL FUSE 6.9URD32TTF0900	6	PC
283451	FR-A842-07700-12120 FAN	4	PC
283444	FR-A840-03250-12120-2-60 IGBT CM450DY207	18	PC
282932	FR-A840/842/846-ALL TERMINAL BLOCK A80TA	1	PC

Material	Description	Quantity	Unit
286226	FR-DU08	1	PC
283484	FR-A840-00770-2-60 OR BIGGER CBL MA-CPU	1	PC
591470	FR-A870 CABLE ALL BKO-CA1972H01	1	PC
591471	FR-A870 CABLE ALL BKO-CA1972H02	1	PC
282939	FR-A842-12120-2-60 / CC2-500K DCCT	3	PC
591486	FR-A870 COVER INTERFACE ALL	1	PC
282940	FR-A840/842/CC2-ALL CASE CPU	1	PC
283707	FR-A840-00930-12120-2-60 COVER	1	PC
282942	FR-A840-03250-12120 BALANCE RESISTOR	24	PC