



MATERIAL FACT SHEET

412465 FR-A842-07700-E2-60R2R

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/000000000000412465

FA-Inverter: Inverter

Series	FR-A800 PLUS SERIES
Type	FR-A800-R2R (FOR ROLL TO ROLL)
Minimum Rated Voltage (V)	430
Min. Permissible Voltage (V)	430
Maximum Rated Voltage (V)	780
Max. Permissible Voltage (V)	780
Current Type	DC
Phases	3
Rated Output Current ND (A)	610
Rated Motor Capacity ND (kW)	315
Rated Motor Capacity HD (kW)	280
Frequency Range (Hz)	0,2-590
Control Method	SOFT-PWM/HIGH FRQ PWM/VECTOR
Motor Type	INDUCTION 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
USB	2
Ethernet Port	1
Built-In Network	MODBUS-RTU
Leakage Current (mA)	35(DELTA) / 2(STAR)
Power Loss SLD (W)	5800
Power Loss LD (W)	5050
Power Loss ND (W)	4450
Power Loss HD (W)	3900
Standby Power Consumption (W)	80
Protection Class	IP00

Product Dimensions & Weight

Width (mm)	540
Height (mm)	1330
Depth (mm)	440
Weight (kg)	163

Logistic Dimensions & Gross Weight

Length (cm)	0,0
Width (cm)	0,0
Height (cm)	0,0
Gross Weight (kg)	192,060
Volume (cdm)	0,000

Stock Data

Planned Delivery Time (Days)	156
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Life Cycle

Sales Start	07.01.2019
Predecessor	296486 / FR-A842-07700-2-60R2R

Additional Product Information

Difference to Standard 1	ROLL TO ROLL CONTROL
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	Japan (JP)
Preference Status (Supplier Declaration)	Non EU

Environmental

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-A842-07700-E2-60R2R&doc-lang=en
Certificates URL Indicator	https://emea.mitsubishielectric.com/fa/advanced-search?ct=document&doc-cats=blt8050dd1408c11cc2&q=FR-A842-07700-E2-60R2R&doc-lang=en
CAD URL Indicator	https://emea.mitsubishielectric.com/fa/advanced-search?ct=document&doc-cats=blt26ecc97a31a841c1&q=FR-A842-07700-E2-60R2R&doc-lang=en
Network configuration file URL	https://emea.mitsubishielectric.com/fa/advanced-search?ct=document&doc-cats=blte8cf990c7c524b4e&q=FR-A842-07700-E2-60R2R&doc-lang=en

Product Packaging

Cardboard (g)	21000
Other paper (g)	0
Aluminum (g)	0
Steel (g)	50
Styrofoam (g)	0
Other plastic (g)	395
Wood (g)	0
Glass (g)	0
Others (g)	800

Spare parts

Material	Description	Quantity	Unit
282925	FR-A840-04320-2-60 PCB POWER	1	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
282935	FR-A842-07700-2-60 / CC2-315K DCCT	3	PC
282940	FR-A840/842/CC2-ALL CASE CPU	1	PC
282942	FR-A840-03250-12120 BALANCE RESISTOR	16	PC
282943	FR-A842-07700-08660 / CC2 ALL THERMISTOR	1	PC
283444	FR-A840-03250-12120-2-60 IGBT CM450DY207	15	PC
283484	FR-A840-00770-2-60 OR BIGGER CBL MA-CPU	1	PC

Material	Description	Quantity	Unit
283680	FR-A842-ALL FUSE 6.9URD32TTF0900	4	PC

Compatible products

Material	Description / Price List Text / Classification
70727	FR-A5 CBL 1 Cable for connecting Inverter and Programming panel; 1m Class 100100405: FA-Inverter: Cable
70728	FR-A5 CBL 2,5 Cable for connecting Inverter and Programming panel; 2,5m Class 100100405: FA-Inverter: Cable
70729	FR-A5 CBL 5 Cable for connecting Inverter and Programming panel; 5m Class 100100405: FA-Inverter: Cable
88426	SC-FR-PC CONNECTION CABLE PC>INVERTER Programming Cable RS 232>RS485/422; 5m Class 100100405: FA-Inverter: Cable
104666	FN 3359-1000-99 f.A-280-375K/F-375K Radio Noise Filter for FR-A&F-06830-09620; C2 100m; C4 100m Class 100100404: FA-Inverter: Filter
157515	FR-ADP Adaptor Module for Operator Panel FR-DU07 Class 100100403: FA-Inverter: External Option
167612	FR-RJ45-HUB10 Distribution Module for RJ45; 10 way Class 100100403: FA-Inverter: External Option
167613	FR-RJ45-HUB4 Distribution Module for RJ45; 4 way Class 100100403: FA-Inverter: External Option
167614	FR-RJ45-TR Terminal Resistor Plug RJ45 Class 100100403: FA-Inverter: External Option
209749	FFR-SI-683A-SS1 Sinusfilter for 400V Inverters; max. 683A; FT=2-16kHz; (W*H*D) 620*745*max.550mm Class 100100404: FA-Inverter: Filter
209764	FFR-DT-683A-SS1 du/dt Filter for 400V Inverters; max. 683A; FT=2-16kHz; (W*H*D) 240*325*230mm Class 100100404: FA-Inverter: Filter
221540	USB-CAB-5M USB 2.0 connection cabel, plug USB A to plug USB B (mini), 5m Class 100100303: FA-HMI: Cable
262948	A8NDPV1 Profibus DPV1 with Dsub Interface for FR-A/F800 Class 100100402: FA-Inverter: Internal Option
262949	A8NPRT_2P Profinet 2port Interface for FR-A/F800 with Drive Profile Class 100100402: FA-Inverter: Internal Option
262950	A8NEIP_2P EtherNet/IP 2port Interface for FR-A/F800 Class 100100402: FA-Inverter: Internal Option
269426	FR-A8AX 16-Bit-Digital-Input; BCD/Binary-Code; 24V DC; 5mA for FR-F/A800 Class 100100402: FA-Inverter: Internal Option
269427	FR-A8AY Digital-/Analog Output; Output load: 24V DC; 0,1A for FR-F/A800 Class 100100402: FA-Inverter: Internal Option
269428	FR-A8AR Relay output; 3 additional output relays for FR-A/F800 Class 100100402: FA-Inverter: Internal Option
269431	FR-A8NC CC-Link Interface for FR-A/F800 Class 100100402: FA-Inverter: Internal Option
269432	FR-A8ND DeviceNet Interface for FR-A/F800 Class 100100402: FA-Inverter: Internal Option
270295	FR-HC2-H400K KIT Harmonic Converter 400kW for Power Factor correction; 400V Class; KIT Class 100100403: FA-Inverter: External Option
273102	FR-A8NCE CC-Link IE Field Interface for FR-A/F800 Class 100100402: FA-Inverter: Internal Option

Material	Description / Price List Text / Classification
273314	FR-HEL-H355K DC Link choke for 400V Inverter with 355kW Motor Class 100100406: FA-Inverter: Choke
274507	FR-CC2-H315K-60 AC/DC Rectifier; Pn: 315kW; 3x380-500V; int. DC Choke; IP00; 200%60s/250%3s Class 100100403: FA-Inverter: External Option
274514	FR-A8NP ProfibusDP Interface for FR-A/F800 with FR-A/F700 PPO types Class 100100402: FA-Inverter: Internal Option
274526	FR-A8TAT Adapter for control terminal of A/F700 to A/F800 Class 100100402: FA-Inverter: Internal Option
275503	FR Configurator-M+FR-Configurator2 FR-Configurator for 700 series; multi I + FR-Configurator2 for 800 series Class 100101203: FA-Software: Software Inverter
283940	FR-A8AZ Analog Input/ output, Thermistor interface Class 100100402: FA-Inverter: Internal Option
284809	A8NECT_2P Ethercat 2port Interface for FR-A/F800 Class 100100402: FA-Inverter: Internal Option
290115	FR-A8NCN Control Net Interface for FR-A800 series Class 100100402: FA-Inverter: Internal Option
290116	FR-A8TR Screw Terminal Block for FR-A/F800 Class 100100402: FA-Inverter: Internal Option
294939	FR-D-Sub9-A8NP-01 D-Sub9 Connection Adapter for FR-A8NP + Cover Class 100100402: FA-Inverter: Internal Option
296613	FR-LU08-01 Clear text LCD Parameter unit for all units of 800 Series (IP55) Class 100100403: FA-Inverter: External Option
307170	FR-A8ERS-60 Optioncard to change Ethernet board to serial communication Class 100100402: FA-Inverter: Internal Option
403133	FR-A8AVP Phase detection option board of FR-A/F800 Class 100100402: FA-Inverter: Internal Option
403134	FR-A8VPB-H Phase detection transformer box for FR-A8AVP Class 100100403: FA-Inverter: External Option
487882	FR-A8NCG Plug-in Option for CC-Link IE TSN Communication Function Class 100100402: FA-Inverter: Internal Option
594984	S-N600AB AC200V 2A2B Magnetic contactor. 330kW; 2NO + 2NC; Us = AC 200V, 50Hz; Non-Reversing Class 100101001: FA-MC: Magnetic Contactor
596902	RHF-5P 355-400-50-00-S High efficient double-stage passive harmonic filter for THDi <5%;400V;50Hz;355kW Class 100100404: FA-Inverter: Filter
596909	RHF-8P 355-400-50-00-S High efficient double-stage passive harmonic filter for THDi <8%;400V;50Hz;355kW Class 100100404: FA-Inverter: Filter