



MATERIAL FACT SHEET

325723 FR-CS84-050-60

General Data

Product Hierarchy	IAK24602
	INVERTER
	FR-CS84
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/000000000000325723

FA-Inverter: Inverter

Series	FR-CS80 SERIES
Type	FR-CS84 COMPACT INVERTER
Minimum Rated Voltage (V)	380
Min. Permissible Voltage (V)	323
Maximum Rated Voltage (V)	480
Max. Permissible Voltage (V)	550
Current Type	AC
Phases	3
Rated Output Current ND (A)	5
Rated Motor Capacity ND (kW)	2.2
Frequency Range (Hz)	0.2-400
Control Method	ADVANCED MAGN. FLUX VEC. CTRL
Motor Type	INDUCTION MOTOR
Integrated EMC Filter	NO
Safe Torque Off (STO)	NO
Regenerative (4Q)	NO
Integrated DC Choke	NO
Display	FR-LU08
Display Type	4 DIGITS LED
PLC Function	NO
Integrated Digital Inputs	5
Digital Outputs (Transistor)	1
Digital Outputs (Relay)	0
Integrated Analogue Inputs	2
Integrated Analogue Outputs	0
IO Type of Terminal Block	SPRING CLAMP
Expandable	YES
RS-485	1
USB	NO
Ethernet Port	NO
Built-In Network	MODBUS-RTU
Leakage Current (mA)	1
Power Loss ND (W)	75
Standby Power Consumption (W)	-
Protection Class	IP20

Product Dimensions & Weight

Width (mm)	108
Height (mm)	96
Depth (mm)	130
Weight (kg)	0.9

Logistic Dimensions & Gross Weight

Length (cm)	23,0
Width (cm)	14,0
Height (cm)	16,0
Gross Weight (kg)	1,219

Volume (cdm)	5,152
--------------	-------

Stock Data

Planned Delivery Time (Days)	79
------------------------------	----

Life Cycle

Sales Start	01.04.2018
Predecessor	No Predecessor

Additional Product Information

Battery included	NO
------------------	----

Export Data

Commodity Code	85044095
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-CS84-050-60&doc-lang=en
Certificates URL Indicator	https://emea.mitsubishielectric.com/fa/advanced-search?ct=document&doc-cats=blt8050dd1408c11cc2&q=FR-CS84-050-60&doc-lang=en
CAD URL Indicator	https://emea.mitsubishielectric.com/fa/advanced-search?ct=document&doc-cats=blt26ecc97a31a841c1&q=FR-CS84-050-60&doc-lang=en

Product Packaging

Cardboard (g)	352,3
Other paper (g)	0
Aluminum (g)	0
Steel (g)	0
Styrofoam (g)	0
Other plastic (g)	2,2
Wood (g)	0
Glass (g)	0
Others (g)	0

Compatible products

Material	Description / Price List Text / Classification
14253	FR-BLF Large ferrite Class 100100404: FA-Inverter: Filter
50461	FR-BSF01 Small ferrite Class 100100402: FA-Inverter: Internal Option
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

Material	Description / Price List Text / Classification
87244	FR-BAL-B-4,0K Input Reactor 3ph; 400V; for 4,0kW Class 100100406: FA-Inverter: Choke
88426	SC-FR-PC CONNECTION CABLE PC>INVERTER Programming Cable RS 232>RS485/422; 5m Class 100100405: FA-Inverter: Cable
130832	FR-UDA02 DIN-Rail Adaptor for FR-D720S-1,5k; FR-D740-0,4k-3,7k Class 100100403: FA-Inverter: External Option
130833	FR-UDA01 DIN-Rail Adaptor for FR-D720S-0,2k-0,75k Class 100100403: FA-Inverter: External Option
136031	FR-BIF Radio noise filter for the 200V class inverter Class 100100403: FA-Inverter: External Option
166134	FR-PU07 Programming panel with LCD-Display for all units of FR-700 series 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
202426	FR-BU2-H7.5K Brake Unit without Brake Resistor for all Inverters with DC-Bus Terminals; 400V Class 100100407: FA-Inverter: Brake Option
214795	FR-PA07 Simple Parameter Unit for mounting on enclosure surface; for all FR-E700 Class 100100403: FA-Inverter: External Option
254684	NF32-SV 3P 10A Circuit breaker 3pole. In = 10A; Icu = Ics = 2,5kA at AC 440V Class 100100901: FA-MCCB: Moulded-Case Circuit Breaker
254685	NF32-SV 3P 15A Circuit breaker 3pole. In = 15A; Icu = Ics = 2,5kA at AC 440V Class 100100901: FA-MCCB: Moulded-Case Circuit Breaker
274525	FR-LU08 Clear text LCD Parameter unit for all units of 800 Series Class 100100403: FA-Inverter: External 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
279140	S-T10 AC24V 1A Magnetic contactor. 4kW; 1NO; Us = AC 24V, 50Hz Class 100101001: FA-MC: Magnetic Contactor
279140	S-T10 AC24V 1A Magnetic contactor. 4kW; 1NO; Us = AC 24V, 50Hz Class 100101001: FA-MC: Magnetic Contactor
279141	S-T10 AC48V 1A Magnetic contactor. 4kW; 1NO; Us = AC 48V, 50Hz Class 100101001: FA-MC: Magnetic Contactor
279141	S-T10 AC48V 1A Magnetic contactor. 4kW; 1NO; Us = AC 48V, 50Hz Class 100101001: FA-MC: Magnetic Contactor
279143	S-T10 AC200V 1A Magnetic contactor. 4kW; 1NO; Us = AC 200V, 50Hz Class 100101001: FA-MC: Magnetic Contactor
279143	S-T10 AC200V 1A Magnetic contactor. 4kW; 1NO; Us = AC 200V, 50Hz Class 100101001: FA-MC: Magnetic Contactor
279195	S-T10 AC400V 1A Magnetic contactor. 4kW; 1NO; Us = AC 400V, 50Hz Class 100101001: FA-MC: Magnetic Contactor
279195	S-T10 AC400V 1A Magnetic contactor. 4kW; 1NO; Us = AC 400V, 50Hz Class 100101001: FA-MC: Magnetic Contactor

Material	Description / Price List Text / Classification
279197	S-T10 AC24V 1B Magnetic contactor. 4kW; 1NC; Us = AC 24V, 50Hz Class 100101001: FA-MC: Magnetic Contactor
279197	S-T10 AC24V 1B Magnetic contactor. 4kW; 1NC; Us = AC 24V, 50Hz Class 100101001: FA-MC: Magnetic Contactor
279199	S-T10 AC100V 1B Magnetic contactor. 4kW; 1NC; Us = AC 100V, 50Hz Class 100101001: FA-MC: Magnetic Contactor
279199	S-T10 AC100V 1B Magnetic contactor. 4kW; 1NC; Us = AC 100V, 50Hz Class 100101001: FA-MC: Magnetic Contactor
279200	S-T10 AC200V 1B Magnetic contactor. 4kW; 1NC; Us = AC 200V, 50Hz Class 100101001: FA-MC: Magnetic Contactor
279200	S-T10 AC200V 1B Magnetic contactor. 4kW; 1NC; Us = AC 200V, 50Hz Class 100101001: FA-MC: Magnetic Contactor
288434	MMP-T32LF 6.3A Motor prot. switch. 2,3kW; Ir=4,0 ~ 6,3A; Icu AC 400V=15kA Class 100101101: FA-MMS: Manual Motor Starter
312333	FFR-CSH-080-16A-SF1 Radio Noise Filter for FR-D740-050/080-EC; FR-CS84-050-080; C1 20m; C2 100m Class 100100404: FA-Inverter: Filter
334872	FFR-C-CSH-080-16A-SF1-LL Radio Noise Filter for FR-CS84-050 to 080-60; C1: 10m, C2: 30m Class 100100404: FA-Inverter: Filter