



## MATERIAL FACT SHEET

### 325745 FR-CS84-120-60

#### General Data

Product Hierarchy	IAK24602
	INVERTER
	FR-CS84
Ext. Material Group	10 STANDARD ITEM
ABC Indicator	A (Available from Stock)

e-shop: <https://emea-fa.mitsubishielectric.com/fa/shop/material-page/000000000000325745>

#### 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)	12
Rated Motor Capacity ND (kW)	5.5
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)	140
Standby Power Consumption (W)	-
Protection Class	IP20

#### Product Dimensions & Weight

Width (mm)	197,5
Height (mm)	150
Depth (mm)	134
Weight (kg)	1,9

#### Logistic Dimensions & Gross Weight

Length (cm)	22,0
Width (cm)	22,0
Height (cm)	22,0
Gross Weight (kg)	2,226

Volume (cdm)	10,648
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### Stock Data

Planned Delivery Time (Days)	98
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### Life Cycle

Sales Start	01.04.2018
Predecessor	No Predecessor

### Additional Product Information

Battery included	NO
Product Code	INV(O/O MDI)

### 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	<a href="https://emea.mitsubishielectric.com/fa/advanced-search?ct=document&amp;doc-cats=bltdae25c2bd5f2ff94&amp;q=FR-CS84-120-60&amp;doc-lang=en">https://emea.mitsubishielectric.com/fa/advanced-search?ct=document&amp;doc-cats=bltdae25c2bd5f2ff94&amp;q=FR-CS84-120-60&amp;doc-lang=en</a>
Certificates URL Indicator	<a href="https://emea.mitsubishielectric.com/fa/advanced-search?ct=document&amp;doc-cats=blt8050dd1408c11cc2&amp;q=FR-CS84-120-60&amp;doc-lang=en">https://emea.mitsubishielectric.com/fa/advanced-search?ct=document&amp;doc-cats=blt8050dd1408c11cc2&amp;q=FR-CS84-120-60&amp;doc-lang=en</a>
CAD URL Indicator	<a href="https://emea.mitsubishielectric.com/fa/advanced-search?ct=document&amp;doc-cats=blt26ecc97a31a841c1&amp;q=FR-CS84-120-60&amp;doc-lang=en">https://emea.mitsubishielectric.com/fa/advanced-search?ct=document&amp;doc-cats=blt26ecc97a31a841c1&amp;q=FR-CS84-120-60&amp;doc-lang=en</a>

### Product Packaging

Cardboard (g)	457,1
Other paper (g)	0
Aluminum (g)	0
Steel (g)	0
Styrofoam (g)	0
Other plastic (g)	5,64
Wood (g)	0
Glass (g)	0
Others (g)	0

### Compatible products

Material	Description / Price List Text / Classification
<a href="#">14253</a>	FR-BLF Large ferrite Class 100100404: FA-Inverter: Filter
<a href="#">50461</a>	FR-BSF01 Small ferrite Class 100100402: FA-Inverter: Internal Option
<a href="#">70727</a>	FR-A5 CBL 1 Cable for connecting Inverter and Programming panel; 1m Class 100100405: FA-Inverter: Cable
<a href="#">70728</a>	FR-A5 CBL 3 Cable for connecting Inverter and Programming panel; 3m Class 100100405: FA-Inverter: Cable
<a href="#">70729</a>	FR-A5 CBL 5 Cable for connecting Inverter and Programming panel; 5m Class 100100405: FA-Inverter: Cable

Material	Description / Price List Text / Classification
<a href="#">87245</a>	FR-BAL-B-5,5K Input Reactor 3ph; 400V; for 5,5kW Class 100100406: FA-Inverter: Choke
<a href="#">88426</a>	SC-FR-PC CONNECTION CABLE PC>INVERTER Programming Cable RS 232>RS485/422; 5m Class 100100405: FA-Inverter: Cable
<a href="#">130832</a>	FR-UJA02 DIN-Rail Adaptor for FR-D720S-1,5k; FR-D740-0,4k-3,7k Class 100100403: FA-Inverter: External Option
<a href="#">130833</a>	FR-UJA01 DIN-Rail Adaptor for FR-D720S-0,2k-0,75k Class 100100403: FA-Inverter: External Option
<a href="#">136031</a>	FR-BIF Radio noise filter for the 200V class inverter Class 100100403: FA-Inverter: External Option
<a href="#">166134</a>	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
<a href="#">167613</a>	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
<a href="#">202426</a>	FR-BU2-H7.5K Brake Unit without Brake Resistor for all Inverters with DC-Bus Terminals; 400V Class 100100407: FA-Inverter: Brake Option
<a href="#">214795</a>	FR-PA07 Simple Parameter Unit for mounting on enclosure surface; for all FR-E700 Class 100100403: FA-Inverter: External Option
<a href="#">254687</a>	NF32-SV 3P 20A Circuit breaker 3pole. In = 20A; Icu = Ics = 2,5kA at AC 440V Class 100100901: FA-MCCB: Moulded-Case Circuit Breaker
<a href="#">254689</a>	NF32-SV 3P 30A Circuit breaker 3pole. In = 30A; Icu = Ics = 2,5kA at AC 440V Class 100100901: FA-MCCB: Moulded-Case Circuit Breaker
<a href="#">274525</a>	FR-LU08 Clear text LCD Parameter unit for all units of 800 Series Class 100100403: FA-Inverter: External Option
<a href="#">275503</a>	FR Configurator-M+FR-Configurator2 FR-Configurator for 700 series; multi I + FR-Configurator2 for 800 series Class 100101203: FA-Software: Software Inverter
<a href="#">279204</a>	S-T12 AC24V 1A1B Magnetic contactor. 5,5kW; 1NO + 1NC; Us = AC 24V, 50Hz Class 100101001: FA-MC: Magnetic Contactor
<a href="#">279205</a>	S-T12 AC48V 1A1B Magnetic contactor. 5,5kW; 1NO + 1NC; Us = AC 48V, 50Hz Class 100101001: FA-MC: Magnetic Contactor
<a href="#">279206</a>	S-T12 AC100V 1A1B Magnetic contactor. 5,5kW; 1NO + 1NC; Us = AC 100V, 50Hz Class 100101001: FA-MC: Magnetic Contactor
<a href="#">279207</a>	S-T12 AC200V 1A1B Magnetic contactor. 5,5kW; 1NO + 1NC; Us = AC 200V, 50Hz Class 100101001: FA-MC: Magnetic Contactor
<a href="#">279209</a>	S-T12 AC400V 1A1B Magnetic contactor. 5,5kW; 1NO + 1NC; Us = AC 400V, 50Hz Class 100101001: FA-MC: Magnetic Contactor
<a href="#">279211</a>	S-T12 AC24V 2A Magnetic contactor. 5,5kW; 2NO; Us = AC 24V, 50Hz Class 100101001: FA-MC: Magnetic Contactor
<a href="#">279214</a>	S-T12 AC200V 2A Magnetic contactor. 5,5kW; 2NO; Us = AC 200V, 50Hz Class 100101001: FA-MC: Magnetic Contactor
<a href="#">279239</a>	S-T21 AC24V 2A2B Magnetic contactor. 11kW; 2NO + 2NC; Us = AC 24V, 50Hz Class 100101001: FA-MC: Magnetic Contactor

Material	Description / Price List Text / Classification
<a href="#">279241</a>	S-T21 AC100V 2A2B Magnetic contactor. 11kW; 2NO + 2NC; Us = AC 100V, 50Hz Class 100101001: FA-MC: Magnetic Contactor
<a href="#">279242</a>	S-T21 AC200V 2A2B Magnetic contactor. 11kW; 2NO + 2NC; Us = AC 200V, 50Hz Class 100101001: FA-MC: Magnetic Contactor
<a href="#">279244</a>	S-T21 AC400V 2A2B Magnetic contactor. 11kW; 2NO + 2NC; Us = AC 400V, 50Hz Class 100101001: FA-MC: Magnetic Contactor
288438	MMP-T32LF 18A Motor prot. switch. 7,9kW; Ir=12,0 ~ 18,0A; Icu AC 400V=15kA Class 100101101: FA-MMS: Manual Motor Starter
<a href="#">334869</a>	FFR-C-MSH-160-30A-SF1 Radio Noise Filter for FR-CS84-120 to 160-60; C1: 20m, C2: 70m Class 100100404: FA-Inverter: Filter
<a href="#">334873</a>	FFR-C-MSH-160-30A-SF1-LL Radio Noise Filter for FR-CS84-120 to 160-60; C1:10m, C2: 30m Class 100100404: FA-Inverter: Filter
<a href="#">475731</a>	NF32-SVF 3P 30A Circuit breaker F 3pole. In = 30A; Icu = Ics = 2,5kA at AC 440V Class 100100901: FA-MCCB: Moulded-Case Circuit Breaker
757918	EFR-EFF-3G-22A EMC footprint filter; 3x400V; group G; C1:20m / C2:50m / C3:100m; Leakage <3,5mA Class 100100404: FA-Inverter: Filter