MITSUBISHI ELECTRIC EUROPE B.V.

Industrial Automation
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MATERIAL FACT SHEET

247606 FR-D740-120SC-EC

General Data

Product Hierarchy	IAK23801
	INVERTER
	FR-D740
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/000000000000247606

FA-Inverter: Inverter

Series	FR-D700 SERIES
Type	FR-D700 COMPACT INVERTER
Minimum Rated Voltage (V)	380
Min. Permissible Voltage (V)	325
Maximum Rated Voltage (V)	480
Max. Permissible Voltage (V)	528
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	MAGNETIC FLUX VECTOR CONTROL
Control Method (2)	SOFT-PWM/HIGH FREQUENCY PWM
Control Method (3)	V/F CONTROL
Motor Type	INDUCTION MOTOR
Brake Chopper ED (%)	30
Integrated EMC Filter	NO
Safe Torque Off (STO)	YES
Regenerative (4Q)	NO
Integrated DC Choke	NO
Display	BUILT-IN
Display Type	4 DIGITS LED
PLC Function	NO
Integrated Digital Inputs	5
Digital Outputs (Transistor)	1
Digital Outputs (Relay)	1
Integrated Analogue Inputs	2
Integrated Analogue Outputs	1
IO Type of Terminal Block	SPRING CLAMP
Expandable	NO
RS-485	1
USB	NO
Ethernet Port	NO
Built-In Network	MODBUS-RTU
Leakage Current (mA)	1
Power Loss ND (W)	240
Standby Power Consumption (W)	13,5-22,5
Protection Class	IP20

Product Dimensions & Weight

Width (mm)	220
Height (mm)	150
Depth (mm)	155
Weight (kg)	3,1

Logistic Dimensions & Gross Weight

Length (cm)	23,0

Width (cm)	21,5
Height (cm)	18,0
Gross Weight (kg)	3,700
Volume (cdm)	8,901

Stock Data

Planned Delivery Time (Days)	100

Life Cycle

Sales Start	05.03.2012
Predecessor	212419 / FR-D740-120-EC

Additional Product Information

Binding Tariff Information	DEBTI-14477/24-1
BTI validity date	07.07.2027
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-D740-120SC-EC&doc-lang=en
Certificates URL Indicator	https://emea.mitsubishielectric.com/fa/advanced-search?ct=document&doc-cats=blt8050dd1408c11cc2&q=FR-D740-120SC-EC&doc-lang=en
CAD URL Indicator	https://emea.mitsubishielectric.com/fa/advanced-search?ct=document&doc-cats=blt26ecc97a31a841c1&q=FR-D740-120SC-EC&doc-lang=en

Product Packaging

Cardboard (g)	1569,35
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

Spare parts

Material	Description	Quantity	Unit
164630	FR-F740-00083-00126 FAN	2	PC

Compatible products

Material	Description / Price List Text / Classification
50045	FR-ABR-H5.5K External High-Duty Brake Resistor; 400V; 5,5kW; 110 Ohm; 10%ED Class 100100407: FA-Inverter: Brake Option
70727	FR-A5 CBL 1 Cable for connecting Inverter and Programming panel; 1m Class 100100405: FA-Inverter: Cable

Material	Description / Price List Text / Classification
70728	FR-A5 CBL 3 Cable for connecting Inverter and Programming panel; 3m Class 100100405: FA-Inverter: Cable
70729	FR-A5 CBL 5 Cable for connecting Inverter and Programming panel; 5m Class 100100405: FA-Inverter: Cable
87245	FR-BAL-B-5,5K Input Reactor 3ph; 400V; for 5,5kW 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
127947	BU-UFS 22 Brake Unit 400V; Contin. Braking Current 22A; 10sec peak current 34A Class 100100407: FA-Inverter: Brake Option
129629	RUFC22 (PACK OF 1) Brake Resistor for BU-UFS22; 2kW; 1x24 Ohm Class 100100407: FA-Inverter: Brake Option
130832	FR-UDA02 DIN-Rail Adaptor for FR-D720S-1,5k; FR-D740-0,4k-3,7k Class 100100403: FA-Inverter: External Option
157514	FR-DU07 Parameter Unit for inverter type FR-A700-NA Class 100100403: FA-Inverter: External Option
157515	FR-ADP Adaptor Module for Operator Panel FR-DU07 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
209052	FR-PU07BB-L Programming Panel with Copy Function; batterypowered; all FR-700 units; w/o bat. Class 100100403: FA-Inverter: External Option
209737	FFR-SI-18A-SS1 Sinusfilter for 200/230/400V Inverters;max. 18A;FT=4-16kHz;(W*H*D) 190*230*120mm Class 100100404: FA-Inverter: Filter
209756	FFR-DT-25A-SS1 du/dt Filter for 400V Inverters; max. 25A; FT=2-16kHz; (W*H*D) 125*140*80mm Class 100100404: FA-Inverter: Filter
214795	FR-PA07 Simple Parameter Unit for mounting on enclosure surface; for all FR-E700 Class 100100403: FA-Inverter: External Option
238347	FFR-HEL-H5.5K-E DC Link choke for 400V Inverter; 5,5kW; 4,74mH; 10,5A Class 100100406: FA-Inverter: Choke
247640	BH-D6 3P 32A TYPE C N MCB 3-poles, Rated current 32A, Operating characteristic C Class 100100801: FA-MCB: Miniature Circuit Breaker
254748	NF63-SV 3P 32A Circuit breaker 3pole. In = 32A; Icu = Ics = 7,5kA at AC 440V Class 100100901: FA-MCCB: Moulded-Case Circuit Breaker
275503	FR Configurator-M+FR-Configurator2 FR-Configurator for 700 series; multi I + FR-Configurator2 for 800 series Class 100101203: FA-Software: Software Inverter
279207	S-T12 AC200V 1A1B Magnetic contactor. 5,5kW; 1NO + 1NC; Us = AC 200V, 50Hz Class 100101001: FA-MC: Magnetic Contactor
279242	S-T21 AC200V 2A2B Magnetic contactor. 11kW; 2NO + 2NC; Us = AC 200V, 50Hz Class 100101001: FA-MC: Magnetic Contactor
287527	SD-T21 DC24V 2A2B Magnetic contactor. 11kW; 2NO + 2NC; Us = DC 24V Class 100101001: FA-MC: Magnetic Contactor
312346	FFR-MSH-170-30A-SF1-LL Radio Noise Filter for FR-E740/E840-120/170; C1 10m, C2 30m Class 100100404: FA-Inverter: Filter
312347	FR-MSH-170-30A-SB1-LL Radio Noise Filter for FR-D/E740-120/160; C1 10m, Book size mounting Class 100100404: FA-Inverter: Filter

Material	Description / Price List Text / Classification
312356	FFR-MSH-170-30A-SF1 Radio Noise Filter for FR-E740/E840-120/170; C1 20m, C2 100m Class 100100404: FA-Inverter: Filter