



MATERIAL FACT SHEET

217404 FR-D720-2.2K

General Data

Product Hierarchy	IAK23701
	INVERTER
	FR-D720
Ext. Material Group	10 STANDARD ITEM
ABC Indicator	B (Limited Availability from Stock)

e-shop: https://mitsubishi-electric-eshop.mee.com/mee/FA_IA/EUR/en/p/000000000000217404

FA-Inverter: Inverter

Series	FR-D700 SERIES
Type	FR-D700 COMPACT INVERTER
Minimum Rated Voltage (V)	200
Min. Permissible Voltage (V)	170
Maximum Rated Voltage (V)	240
Max. Permissible Voltage (V)	264
Current Type	AC
Phases	3
Rated Output Current ND (A)	10
Rated Motor Capacity ND (kW)	2.2
Frequency Range (Hz)	-
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)	100
Standby Power Consumption (W)	5,5-14
Protection Class	IP20

Product Dimensions & Weight

Width (mm)	108
Height (mm)	128
Depth (mm)	135,5
Weight (kg)	1,4

Logistic Dimensions & Gross Weight

Length (cm)	22,0
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Width (cm)	19,0
Height (cm)	18,0
Gross Weight (kg)	1,900
Volume (cdm)	7,524

Stock Data

Planned Delivery Time (Days)	128
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Life Cycle

Sales Start	22.10.2008
Predecessor	No Predecessor

Additional Product Information

Battery included	NO
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Export Data

Legal Control (Dual Use List)	Not Listed
Country of Origin	Japan (JP)
Preference Status (Supplier Declaration)	Non EU

Environmental

REACH Limit Exceeded	YES
REACH Substance CAS Number	12060-00-3
REACH Substance CAS Number (2)	127-19-5
REACH Substance CAS Number (3)	13560-89-9
REACH Substance CAS Number (4)	15571-58-1
REACH Substance CAS Number (5)	541-02-6
REACH Substance CAS Number (6)	556-67-2
REACH Substance CAS Number (7)	7439-92-1
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-D720-2.2K&doc-lang=en
Certificates URL Indicator	https://emea.mitsubishielectric.com/fa/advanced-search?ct=document&doc-cats=blt8050dd1408c11cc2&q=FR-D720-2.2K&doc-lang=en
CAD URL Indicator	https://emea.mitsubishielectric.com/fa/advanced-search?ct=document&doc-cats=blt26ecc97a31a841c1&q=FR-D720-2.2K&doc-lang=en

Product Packaging

Cardboard (g)	310
Other paper (g)	0
Aluminum (g)	0
Steel (g)	0
Styrofoam (g)	0
Other plastic (g)	10
Wood (g)	0
Glass (g)	0
Others (g)	20

Spare parts

Material	Description	Quantity	Unit
221882	FR-D720S front cover 0,2-0,75K	1	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

Material	Description / Price List Text / Classification
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
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
209755	FFR-DT-10A-SS1 du/dt Filter for 400V Inverters; max. 10A; FT=2-16kHz; (W*H*D) 100*120*65mm 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
238360	FFR-HEL-2.2K-E DC Link choke for 200V Inverter; 2,2kW; 3,1mH; 10,5A Class 100100406: FA-Inverter: Choke
254687	NF32-SV 3P 20A Circuit breaker 3pole. In = 20A; Icu = Ics = 2,5kA at AC 440V Class 100100901: FA-MCCB: Moulded-Case Circuit Breaker
254746	NF63-SV 3P 20A Circuit breaker 3pole. In = 20A; Icu = Ics = 7,5kA at AC 440V Class 100100901: FA-MCCB: Moulded-Case Circuit Breaker
254781	NF63-HV 3P 20A Circuit breaker 3pole. In = 20A; Icu / Ics = 10 / 8kA 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
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
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
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
279200	S-T10 AC200V 1B Magnetic contactor. 4kW; 1NC; Us = AC 200V, 50Hz Class 100101001: FA-MC: Magnetic Contactor