



## MATERIAL FACT SHEET

### 247607 FR-D740-160SC-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/000000000000247607](https://mitsubishi-electric-eshop.mee.com/mee/FA_IA/EUR/en/p/000000000000247607)

#### 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)	16
Rated Motor Capacity ND (kW)	7,5
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)	280
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)	25,5
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Width (cm)	23,0
Height (cm)	23,5
Gross Weight (kg)	3,720
Volume (cdm)	13,783

### Stock Data

Planned Delivery Time (Days)	296
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### Life Cycle

Sales Start	05.03.2012
Predecessor	212420 / FR-D740-160-EC

### 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-D740-160SC-EC&amp;doc-lang=en">https://emea.mitsubishielectric.com/fa/advanced-search?ct=document&amp;doc-cats=bltdae25c2bd5f2ff94&amp;q=FR-D740-160SC-EC&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-D740-160SC-EC&amp;doc-lang=en">https://emea.mitsubishielectric.com/fa/advanced-search?ct=document&amp;doc-cats=blt8050dd1408c11cc2&amp;q=FR-D740-160SC-EC&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-D740-160SC-EC&amp;doc-lang=en">https://emea.mitsubishielectric.com/fa/advanced-search?ct=document&amp;doc-cats=blt26ecc97a31a841c1&amp;q=FR-D740-160SC-EC&amp;doc-lang=en</a>

### 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
<a href="#">164630</a>	FR-F740-00083-00126 FAN	2	PC

### Compatible products

Material	Description / Price List Text / Classification
<a href="#">50049</a>	FR-ABR-H7.5K External High-Duty Brake Resistor; 400V; 7,5kW; 75 Ohm; 10%ED Class 100100407: FA-Inverter: Brake 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 2,5 Cable for connecting Inverter and Programming panel; 2,5m 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="#">87246</a>	FR-BAL-B-7,5K Input Reactor 3ph; 400V; for 7,5kW 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="#">127947</a>	BU-UFS 22 Brake Unit 400V; Contin. Braking Current 22A; 10sec peak current 34A Class 100100407: FA-Inverter: Brake Option
<a href="#">129629</a>	RUF22 (PACK OF 1) Brake Resistor for BU-UFS22; 2kW; 1x24 Ohm Class 100100407: FA-Inverter: Brake Option
<a href="#">130832</a>	FR-UDA02 DIN-Rail Adaptor for FR-D720S-1,5k; FR-D740-0,4k-3,7k Class 100100403: FA-Inverter: External Option
<a href="#">157514</a>	FR-DU07 Parameter Unit for inverter type FR-A700-NA Class 100100403: FA-Inverter: External Option
<a href="#">157515</a>	FR-ADP Adaptor Module for Operator Panel FR-DU07 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
<a href="#">209052</a>	FR-PU07BB-L Programming Panel with Copy Function; batterypowered; all FR-700 units; w/o bat. Class 100100403: FA-Inverter: External Option
<a href="#">209738</a>	FFR-SI-25A-SS1 Sinusfilter for 200/230/400V Inverters; max. 25A; FT=4-16kHz; (W*H*D) 210*260*125mm Class 100100404: FA-Inverter: Filter
<a href="#">209756</a>	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
<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="#">238348</a>	FFR-HEL-H7.5K-E DC Link choke for 400V Inverter; 7,5kW; 3,55mH; 14A Class 100100406: FA-Inverter: Choke
<a href="#">247640</a>	BH-D6 3P 32A TYPE C N MCB 3-poles, Rated current 32A, Operating characteristic C Class 100100801: FA-MCB: Miniature Circuit Breaker
<a href="#">254748</a>	NF63-SV 3P 32A Circuit breaker 3pole. In = 32A; Icu = Ics = 7,5kA at AC 440V Class 100100901: FA-MCCB: Moulded-Case Circuit Breaker
<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="#">279242</a>	S-T21 AC200V 2A2B Magnetic contactor. 11kW; 2NO + 2NC; Us = AC 200V, 50Hz Class 100101001: FA-MC: Magnetic Contactor
<a href="#">287527</a>	SD-T21 DC24V 2A2B Magnetic contactor. 11kW; 2NO + 2NC; Us = DC 24V Class 100101001: FA-MC: Magnetic Contactor
<a href="#">312346</a>	FFR-MSH-170-30A-SF1-LL Radio Noise Filter for FR-E740/E840-120/170; C1 10m, C2 30m Class 100100404: FA-Inverter: Filter
<a href="#">312347</a>	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
<a href="#">312356</a>	FFR-MSH-170-30A-SF1 Radio Noise Filter for FR-E740/E840-120/170; C1 20m, C2 100m Class 100100404: FA-Inverter: Filter