



MATERIAL FACT SHEET

247599 FR-D720S-070SC-EC

General Data

| | |
|---------------------|--------------------------|
| Product Hierarchy | IAK23701 |
| | INVERTER |
| | FR-D720 |
| Ext. Material Group | 10 STANDARD ITEM |
| ABC Indicator | A (Available from Stock) |

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 | 1 |
| Rated Output Current ND (A) | 7 |
| Rated Motor Capacity ND (kW) | 1.5 |
| 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) | 80 |
| Standby Power Consumption (W) | 5,5-14 |
| Protection Class | IP20 |

Product Dimensions & Weight

| | |
|-------------|-----|
| Width (mm) | 108 |
| Height (mm) | 128 |
| Depth (mm) | 150 |
| Weight (kg) | 1,5 |

Logistic Dimensions & Gross Weight

| | |
|-------------|------|
| Length (cm) | 22,0 |
|-------------|------|

| | |
|-------------------|-------|
| Width (cm) | 19,0 |
| Height (cm) | 20,5 |
| Gross Weight (kg) | 1,880 |
| Volume (cdm) | 8,569 |

Stock Data

| | |
|------------------------------|-----|
| Planned Delivery Time (Days) | 296 |
|------------------------------|-----|

Life Cycle

| | |
|-------------|--------------------------|
| Sales Start | 05.03.2012 |
| Predecessor | 214193 / FR-D720S-070-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 |

Product Packaging

| | |
|-------------------|-------|
| Cardboard (g) | 352,6 |
| 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 |

Spare parts

| Material | Description | Quantity | Unit |
|----------|-------------------------|----------|------|
| 164630 | FR-F740-00083-00126 FAN | 1 | PC |

Compatible products

| Material | Description / Price List Text / Classification |
|----------|--|
| 46787 | FR-ABR-2.2K External High-Duty Brake Resistor; 2,2kW; 230V; 60 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 |
| 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 |
|---------------|--|
| <u>88426</u> | SC-FR-PC CONNECTION CABLE PC>INVERTER Programming Cable RS 232>RS485/422; 5m Class 100100405: FA-Inverter: Cable |
| <u>127962</u> | BU-UFS 22J Brake Unit 200V; Contin. Braking Current 22A; 10sec peak current 34A Class 100100407: FA-Inverter: Brake Option |
| <u>129633</u> | RUFC22J Brake Resistor for BU-UFS22J; 1,2kW; 1x12 Ohm Class 100100407: FA-Inverter: Brake Option |
| <u>130832</u> | FR-JDA02 DIN-Rail Adaptor for FR-D720S-1,5k; FR-D740-0,4k-3,7k Class 100100403: FA-Inverter: External Option |
| <u>157514</u> | FR-DU07 Parameter Unit for inverter type FR-A700-NA Class 100100403: FA-Inverter: External Option |
| <u>157515</u> | FR-ADP Adaptor Module for Operator Panel FR-DU07 Class 100100403: FA-Inverter: External Option |
| <u>166134</u> | FR-PU07 Programming panel with LCD-Display for all units of FR-700 series Class 100100403: FA-Inverter: External Option |
| <u>209052</u> | FR-PU07BB-L Programming Panel with Copy Function; batterypowered; all FR-700 units; w/o bat. Class 100100403: FA-Inverter: External Option |
| <u>209736</u> | FFR-SI-8.3A-SS1 Sinusfilter for 200/230/400V Inverters; max. 8,3A; FT=4-16kHz; (W*H*D) 155*205*95mm Class 100100404: FA-Inverter: Filter |
| <u>209755</u> | 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 |
| <u>214795</u> | FR-PA07 Simple Parameter Unit for mounting on enclosure surface; for all FR-E700 Class 100100403: FA-Inverter: External Option |
| <u>238359</u> | FFR-HEL-1.5K-E DC Link choke for 200V Inverter; 1,5kW; 4,3mH; 7,3A Class 100100406: FA-Inverter: Choke |
| <u>247648</u> | BH-D6 2P 25A TYPE C N MCB 2-poles, Rated current 25A, Operating characteristic C Class 100100801: FA-MCB: Miniature Circuit Breaker |
| <u>254690</u> | NF32-SV 3P 32A Circuit breaker 3pole. In = 32A; Icu = Ics = 2,5kA at AC 440V Class 100100901: FA-MCCB: Moulded-Case Circuit Breaker |
| <u>275503</u> | FR Configurator-M+FR-Configurator2 FR-Configurator for 700 series; multi I + FR-Configurator2 for 800 series Class 100101203: FA-Software: Software Inverter |
| <u>279143</u> | S-T10 AC200V 1A Magnetic contactor. 4kW; 1NO; Us = AC 200V, 50Hz Class 100101001: FA-MC: Magnetic Contactor |
| <u>279200</u> | S-T10 AC200V 1B Magnetic contactor. 4kW; 1NC; Us = AC 200V, 50Hz Class 100101001: FA-MC: Magnetic Contactor |
| <u>287431</u> | SD-T12 DC24V 1A1B Magnetic contactor. 5,5kW; 1NO + 1NC; Us = DC 24V Class 100101001: FA-MC: Magnetic Contactor |
| <u>312349</u> | FFR-CS-080-20A-SF1 Radio Noise Filter for FR-E820S-0050-0080/FR-D720S/FR-CS82S; C1: 20m, C2: 50m Class 100100404: FA-Inverter: Filter |
| <u>312352</u> | FFR-CS-080-20A-SF1-LL Radio Noise Filter for FR-E820S-0050-0080/FR-D720S; C1: 10m Class 100100404: FA-Inverter: Filter |
| <u>495007</u> | NF32-SVF 3P 32A Circuit breaker F 3pole. In = 32A; Icu = Ics = 2,5kA at AC 440V Class 100100901: FA-MCCB: Moulded-Case Circuit Breaker |