



## MATERIAL FACT SHEET

### 247596 FR-D720S-014SC-EC

#### General Data

|                     |                          |
|---------------------|--------------------------|
| Product Hierarchy   | IAK23701                 |
|                     | INVERTER                 |
|                     | FR-D720                  |
| 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/000000000000247596](https://mitsubishi-electric-eshop.mee.com/mee/FA_IA/EUR/en/p/000000000000247596)

#### 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)   | 1,4                          |
| Rated Motor Capacity ND (kW)  | 0,2                          |
| 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)             | 20                           |
| Standby Power Consumption (W) | 5,5-14                       |
| Protection Class              | IP20                         |

#### Product Dimensions & Weight

|             |      |
|-------------|------|
| Width (mm)  | 68   |
| Height (mm) | 128  |
| Depth (mm)  | 80,5 |
| Weight (kg) | 0,5  |

#### Logistic Dimensions & Gross Weight

|             |      |
|-------------|------|
| Length (cm) | 23,0 |
|-------------|------|

|                   |       |
|-------------------|-------|
| Width (cm)        | 18,0  |
| Height (cm)       | 10,0  |
| Gross Weight (kg) | 0,820 |
| Volume (cdm)      | 4,140 |

#### Stock Data

|                              |     |
|------------------------------|-----|
| Planned Delivery Time (Days) | 100 |
|------------------------------|-----|

#### Life Cycle

|             |                          |
|-------------|--------------------------|
| Sales Start | 05.03.2012               |
| Predecessor | 214190 / FR-D720S-014-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       | <a href="https://emea.mitsubishielectric.com/fa/advanced-search?ct=document&amp;doc-cats=bltdae25c2bd5f2ff94&amp;q=FR-D720S-014SC-EC&amp;doc-lang=en">https://emea.mitsubishielectric.com/fa/advanced-search?ct=document&amp;doc-cats=bltdae25c2bd5f2ff94&amp;q=FR-D720S-014SC-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-D720S-014SC-EC&amp;doc-lang=en">https://emea.mitsubishielectric.com/fa/advanced-search?ct=document&amp;doc-cats=blt8050dd1408c11cc2&amp;q=FR-D720S-014SC-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-D720S-014SC-EC&amp;doc-lang=en">https://emea.mitsubishielectric.com/fa/advanced-search?ct=document&amp;doc-cats=blt26ecc97a31a841c1&amp;q=FR-D720S-014SC-EC&amp;doc-lang=en</a> |

#### Product Packaging

|                   |        |
|-------------------|--------|
| Cardboard (g)     | 485,75 |
| 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      |

#### Compatible products

| Material              | Description / Price List Text / Classification                                                                         |
|-----------------------|------------------------------------------------------------------------------------------------------------------------|
| <a href="#">70727</a> | FR-A5 CBL 1<br>Cable for connecting Inverter and Programming panel; 1m<br>Class 100100405: FA-Inverter: Cable          |
| <a href="#">70728</a> | FR-A5 CBL 3<br>Cable for connecting Inverter and Programming panel; 3m<br>Class 100100405: FA-Inverter: Cable          |
| <a href="#">70729</a> | FR-A5 CBL 5<br>Cable for connecting Inverter and Programming panel; 5m<br>Class 100100405: FA-Inverter: Cable          |
| <a href="#">88426</a> | SC-FR-PC CONNECTION CABLE PC>INVERTER<br>Programming Cable RS 232>RS485/422; 5m<br>Class 100100405: FA-Inverter: Cable |

| Material               | Description / Price List Text / Classification                                                                                                                     |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 127962                 | BU-UFS 22J<br>Brake Unit 200V; Contin. Braking Current 22A; 10sec peak current 34A<br>Class 100100407: FA-Inverter: Brake Option                                   |
| 129633                 | RUFC22J<br>Brake Resistor for BU-UFS22J; 1,2kW; 1x12 Ohm<br>Class 100100407: FA-Inverter: Brake Option                                                             |
| <a href="#">130833</a> | FR-UDA01<br>DIN-Rail Adaptor for FR-D720S-0,2k-0,75k<br>Class 100100403: FA-Inverter: External Option                                                              |
| <a href="#">134968</a> | FR-BAL-S-B-0,2K<br>Input Reactor; 1 ph.; 230 V; for 0,2 K<br>Class 100100406: FA-Inverter: Choke                                                                   |
| <a href="#">157514</a> | FR-DU07<br>Parameter Unit for inverter type FR-A700-NA<br>Class 100100403: FA-Inverter: External Option                                                            |
| <a href="#">157515</a> | FR-ADP<br>Adaptor Module for Operator Panel FR-DU07<br>Class 100100403: FA-Inverter: External Option                                                               |
| <a href="#">166134</a> | FR-PU07<br>Programming panel with LCD-Display for all units of FR-700 series<br>Class 100100403: FA-Inverter: External Option                                      |
| <a href="#">209052</a> | FR-PU07BB-L<br>Programming Panel with Copy Function; batterypowered; all FR-700 units; w/o bat.<br>Class 100100403: FA-Inverter: External Option                   |
| <a href="#">209735</a> | FFR-SI-4.5A-SS1<br>Sinusfilter for 200/230/400V Inverters;max. 4,5A;FT=4-16kHz;(W*H*D) 125*180*75mm<br>Class 100100404: FA-Inverter: Filter                        |
| <a href="#">209755</a> | FFR-DT-10A-SS1<br>du/dt Filter for 400V Inverters; max. 10A; FT=2-16kHz; (W*H*D) 100*120*65mm<br>Class 100100404: FA-Inverter: Filter                              |
| <a href="#">214795</a> | FR-PA07<br>Simple Parameter Unit for mounting on enclosure surface; for all FR-E700<br>Class 100100403: FA-Inverter: External Option                               |
| <a href="#">247646</a> | BH-D6 2P 6A TYPE C N<br>MCB 2-poles, Rated current 6A, Operating characteristic C<br>Class 100100801: FA-MCB: Miniature Circuit Breaker                            |
| <a href="#">254683</a> | NF32-SV 3P 6A<br>Circuit breaker 3pole. In = 6A; Icu = Ics = 2,5kA at AC 440V<br>Class 100100901: FA-MCCB: Moulded-Case Circuit Breaker                            |
| <a href="#">275503</a> | FR Configurator-M+FR-Configurator2<br>FR-Configurator for 700 series; multi l + FR-Configurator2 for 800 series<br>Class 100101203: FA-Software: Software Inverter |
| <a href="#">279143</a> | S-T10 AC200V 1A<br>Magnetic contactor. 4kW; 1NO; Us = AC 200V, 50Hz<br>Class 100101001: FA-MC: Magnetic Contactor                                                  |
| <a href="#">279200</a> | S-T10 AC200V 1B<br>Magnetic contactor. 4kW; 1NC; Us = AC 200V, 50Hz<br>Class 100101001: FA-MC: Magnetic Contactor                                                  |
| <a href="#">287431</a> | SD-T12 DC24V 1A1B<br>Magnetic contactor. 5,5kW; 1NO + 1NC; Us = DC 24V<br>Class 100101001: FA-MC: Magnetic Contactor                                               |
| <a href="#">312348</a> | FFR-CS-050-14A-SF1<br>Radio Noise Filter for FR-E820S-0008-0030/FR-D720S/FR-CS82S; C1: 20m, C2: 50m<br>Class 100100404: FA-Inverter: Filter                        |
| <a href="#">312351</a> | FFR-CS-050-14A-SF1-LL<br>Radio Noise Filter for FR-E820S-0008-0030/FR-D720S; C1: 10m<br>Class 100100404: FA-Inverter: Filter                                       |