



## MATERIAL FACT SHEET

### 247605 FR-D740-080SC-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/000000000000247605](https://mitsubishi-electric-eshop.mee.com/mee/FA_IA/EUR/en/p/000000000000247605)

#### 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)   | 8                            |
| Rated Motor Capacity ND (kW)  | 3,7                          |
| 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)             | 180                          |
| Standby Power Consumption (W) | 10,5-17                      |
| Protection Class              | IP20                         |

#### Product Dimensions & Weight

|             |       |
|-------------|-------|
| Width (mm)  | 108   |
| Height (mm) | 128   |
| Depth (mm)  | 165,5 |
| Weight (kg) | 1,5   |

#### Logistic Dimensions & Gross Weight

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

|                   |       |
|-------------------|-------|
| Width (cm)        | 19,0  |
| Height (cm)       | 20,5  |
| Gross Weight (kg) | 1,900 |
| Volume (cdm)      | 8,569 |

#### Stock Data

|                              |     |
|------------------------------|-----|
| Planned Delivery Time (Days) | 170 |
|------------------------------|-----|

#### Life Cycle

|             |                         |
|-------------|-------------------------|
| Sales Start | 05.03.2012              |
| Predecessor | 212418 / FR-D740-080-EC |

#### Additional Product Information

|                  |    |
|------------------|----|
| Battery included | NO |
|------------------|----|

#### Export Data

|                                          |            |
|------------------------------------------|------------|
| 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-D740-080SC-EC&amp;doc-lang=en">https://emea.mitsubishielectric.com/fa/advanced-search?ct=document&amp;doc-cats=bltdae25c2bd5f2ff94&amp;q=FR-D740-080SC-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-D740-080SC-EC&amp;doc-lang=en">https://emea.mitsubishielectric.com/fa/advanced-search?ct=document&amp;doc-cats=blt8050dd1408c11cc2&amp;q=FR-D740-080SC-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-D740-080SC-EC&amp;doc-lang=en">https://emea.mitsubishielectric.com/fa/advanced-search?ct=document&amp;doc-cats=blt26ecc97a31a841c1&amp;q=FR-D740-080SC-EC&amp;doc-lang=en</a> |

#### Product Packaging

|                   |       |
|-------------------|-------|
| Cardboard (g)     | 363,8 |
| 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 |
|------------------------|-------------------------|----------|------|
| <a href="#">164630</a> | FR-F740-00083-00126 FAN | 1        | PC   |

#### Compatible products

| Material              | Description / Price List Text / Classification                                                                               |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------|
| <a href="#">46413</a> | FR-ABR-H3.7K<br>External High-Duty Brake Resistor; 400V; 3,7kW; 150 Ohm; 10%ED<br>Class 100100407: FA-Inverter: Brake Option |
| <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 2,5<br>Cable for connecting Inverter and Programming panel; 2,5m<br>Class 100100405: FA-Inverter: Cable            |

| Material               | Description / Price List Text / Classification                                                                                                                     |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <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="#">87244</a>  | FR-BAL-B-4,0K<br>Input Reactor 3ph; 400V; for 4,0kW<br>Class 100100406: FA-Inverter: Choke                                                                         |
| <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                                             |
| <a href="#">127947</a> | BU-UFS 22<br>Brake Unit 400V; Contin. Braking Current 22A; 10sec peak current 34A<br>Class 100100407: FA-Inverter: Brake Option                                    |
| <a href="#">129629</a> | RUFC22 (PACK OF 1)<br>Brake Resistor for BU-UFS22; 2kW; 1x24 Ohm<br>Class 100100407: FA-Inverter: Brake Option                                                     |
| <a href="#">130832</a> | FR-UDA02<br>DIN-Rail Adaptor for FR-D720S-1,5k; FR-D740-0,4k-3,7k<br>Class 100100403: FA-Inverter: External Option                                                 |
| <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="#">209737</a> | FFR-SI-18A-SS1<br>Sinusfilter for 200/230/400V Inverters;max. 18A;FT=4-16kHz;(W*H*D) 190*230*120mm<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="#">238346</a> | FFR-HEL-H3.7K-E<br>DC Link choke for 400V Inverter; 3,7kW; 8,81mH; 7,1A<br>Class 100100406: FA-Inverter: Choke                                                     |
| <a href="#">247644</a> | BH-D6 3P 20A TYPE C N<br>MCB 3-poles, Rated current 20A, Operating characteristic C<br>Class 100100801: FA-MCB: Miniature Circuit Breaker                          |
| <a href="#">254746</a> | NF63-SV 3P 20A<br>Circuit breaker 3pole. In = 20A; Icu = Ics = 7,5kA 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 I + 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="#">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="#">312333</a> | FFR-CSH-080-16A-SF1<br>Radio Noise Filter for FR-D740-050/080-EC; FR-CS84-050-080; C1 20m; C2 100m<br>Class 100100404: FA-Inverter: Filter                         |
| <a href="#">312345</a> | FFR-CSH-080-16A-SF2-LL<br>Radio Noise Filter for FR-D740-050/080; C1 10m, C2 30m<br>Class 100100404: FA-Inverter: Filter                                           |