



## MATERIAL FACT SHEET

### 234806 FR-E740-120SC-EC

#### General Data

|                     |                                        |
|---------------------|----------------------------------------|
| Product Hierarchy   | IAK234                                 |
|                     | INVERTER                               |
|                     | FR-E740                                |
| Ext. Material Group | 10 DISCONTINUED                        |
| ABC Indicator       | C (Non-Stock Material / Make-to-Order) |

e-shop: [https://mitsubishi-electric-eshop.mee.com/mee/FA\\_I/A/EUR/en/p/000000000000234806](https://mitsubishi-electric-eshop.mee.com/mee/FA_I/A/EUR/en/p/000000000000234806)

#### FA-Inverter: Inverter

|                               |                              |
|-------------------------------|------------------------------|
| Series                        | FR-E700 SERIES               |
| Type                          | FR-E700 STANDARD 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)   | 12                           |
| Rated Motor Capacity ND (kW)  | 5,5                          |
| Frequency Range (Hz)          | -                            |
| Control Method                | MAGNETIC FLUX VECTOR CONTROL |
| Control Method (2)            | 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                  | 3 DIGITS LED                 |
| PLC Function                  | NO                           |
| Integrated Digital Inputs     | 6                            |
| Digital Outputs (Transistor)  | 2                            |
| Digital Outputs (Relay)       | 1                            |
| Integrated Analogue Inputs    | 2                            |
| Integrated Analogue Outputs   | 1                            |
| IO Type of Terminal Block     | SPRING CLAMP                 |
| Expandable                    | YES                          |
| RS-485                        | 1                            |
| USB                           | 1                            |
| Built-In Network              | MODBUS-RTU                   |
| Leakage Current (mA)          | 1                            |
| Power Loss ND (W)             | 310                          |
| Standby Power Consumption (W) | 11,6                         |
| Protection Class              | IP20                         |

#### Product Dimensions & Weight

|             |     |
|-------------|-----|
| Width (mm)  | 220 |
| Height (mm) | 150 |
| Depth (mm)  | 153 |
| Weight (kg) | 3,2 |

#### Logistic Dimensions & Gross Weight

|             |      |
|-------------|------|
| Length (cm) | 24,5 |
| Width (cm)  | 23,0 |
| Height (cm) | 23,0 |

|                   |        |
|-------------------|--------|
| Gross Weight (kg) | 4,000  |
| Volume (cdm)      | 12,961 |

### Stock Data

|                              |     |
|------------------------------|-----|
| Planned Delivery Time (Days) | 300 |
|------------------------------|-----|

### Life Cycle

|                          |                                            |
|--------------------------|--------------------------------------------|
| Sales Start              | 30.08.2010                                 |
| Discontinued (EOL)       | 09.12.2022                                 |
| Last Time Buy (LTB)      | 01.03.2023                                 |
| Last Time Purchase (LTP) | 01.04.2023                                 |
| End of Service (EOS)     | 01.03.2030                                 |
| Predecessor              | 211960 / FR-E740-120-EC                    |
| Successor                | <a href="#">500115 / FR-E840-0120-4-60</a> |

### Additional Product Information

|                  |    |
|------------------|----|
| 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-E740-120SC-EC&amp;doc-lang=en">https://emea.mitsubishielectric.com/fa/advanced-search?ct=document&amp;doc-cats=bltdae25c2bd5f2ff94&amp;q=FR-E740-120SC-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-E740-120SC-EC&amp;doc-lang=en">https://emea.mitsubishielectric.com/fa/advanced-search?ct=document&amp;doc-cats=blt8050dd1408c11cc2&amp;q=FR-E740-120SC-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-E740-120SC-EC&amp;doc-lang=en">https://emea.mitsubishielectric.com/fa/advanced-search?ct=document&amp;doc-cats=blt26ecc97a31a841c1&amp;q=FR-E740-120SC-EC&amp;doc-lang=en</a> |
| Network configuration file URL | <a href="https://emea.mitsubishielectric.com/fa/advanced-search?ct=document&amp;doc-cats=blte8cf990c7c524b4e&amp;q=FR-E740-120SC-EC&amp;doc-lang=en">https://emea.mitsubishielectric.com/fa/advanced-search?ct=document&amp;doc-cats=blte8cf990c7c524b4e&amp;q=FR-E740-120SC-EC&amp;doc-lang=en</a> |

### Product Packaging

|                   |        |
|-------------------|--------|
| Cardboard (g)     | 1576,4 |
| 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   |
| 264450                 | FR-E700SC-EC PCB CPU                   | 1        | PC   |
| <a href="#">264451</a> | FR-E700SC-EC PCB INTERFACE RS485       | 1        | PC   |
| <a href="#">264452</a> | FR-E740-SC-120 & 170 MA-bd E74MA7.5-SC | 1        | PC   |
| 264454                 | FR-E740SC-120 GA-board E74GA5.5-SC     | 1        | PC   |
| 264458                 | FR-E740-300-EC COVER FRONT             | 1        | PC   |