



## MATERIAL FACT SHEET

### 738951 FR-D840-2.2K-050-60

#### General Data

|                     |                                     |
|---------------------|-------------------------------------|
| Product Hierarchy   | IAK24904                            |
|                     | INVERTER                            |
|                     | FR-D840                             |
| Ext. Material Group | 10 STANDARD ITEM                    |
| ABC Indicator       | B (Limited Availability from Stock) |

e-shop: <https://emea.mitsubishielectric.com/fa/shop/material-page/000000000000738951>

#### FA-Inverter: Inverter

|                               |                                |
|-------------------------------|--------------------------------|
| Series                        | FR-D800 SERIES                 |
| Type                          | FR-D800 COMPACT INVERTER       |
| Minimum Rated Voltage (V)     | 380                            |
| Min. Permissible Voltage (V)  | 323                            |
| Maximum Rated Voltage (V)     | 480                            |
| Max. Permissible Voltage (V)  | 528                            |
| Current Type                  | AC                             |
| Phases                        | 3                              |
| Rated Output Current SLD (A)  | 8,1                            |
| Rated Output Current LD (A)   | -                              |
| Rated Output Current ND (A)   | 5,0                            |
| Rated Output Current HD (A)   | -                              |
| Rated Motor Capacity SLD (kW) | 3,70                           |
| Rated Motor Capacity LD (kW)  | -                              |
| Rated Motor Capacity ND (kW)  | 2,2                            |
| Rated Motor Capacity HD (kW)  | -                              |
| Frequency Range (Hz)          | 0,2 TO 590 HZ                  |
| Control Method                | Adv. magnetic flux vector      |
| Control Method (2)            | PM sensorless vector control   |
| Control Method (3)            | V/F control                    |
| Motor Type                    | INDUCTION MOTOR                |
| Brake Chopper ED (%)          | 100                            |
| 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    | -                              |
| Integrated Analogue Outputs   | -                              |
| IO Type of Terminal Block     | SPRING CLAMP                   |
| Expandable                    | NO                             |
| RS-485                        | 1                              |
| USB                           | TYPE C                         |
| Ethernet Port                 | -                              |
| Built-In Network              | CC-Link IE Field Network Basic |
| Built-In Network (2)          | CC-Link IE TSN                 |
| Built-In Network (3)          | MODBUS RTU                     |
| Leakage Current (mA)          | -                              |
| Protection Class              | IP20                           |

#### Product Dimensions & Weight

|             |     |
|-------------|-----|
| Width (mm)  | 108 |
| Height (mm) | 128 |

|             |       |
|-------------|-------|
| Depth (mm)  | 155,5 |
| Weight (kg) | 1,3   |

#### Logistic Dimensions & Gross Weight

|                   |       |
|-------------------|-------|
| Length (cm)       | 22,0  |
| Width (cm)        | 13,0  |
| Height (cm)       | 20,5  |
| Gross Weight (kg) | 1,500 |
| Volume (cdm)      | 5,863 |

#### Stock Data

|                              |    |
|------------------------------|----|
| Planned Delivery Time (Days) | 98 |
|------------------------------|----|

#### Life Cycle

|             |                          |
|-------------|--------------------------|
| Sales Start | 10.02.2025               |
| Predecessor | 241930 / FR-D740-2.2K-60 |

#### 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

|                            |           |
|----------------------------|-----------|
| Dangerous Goods Class      | NO        |
| Dangerous Goods Identifier | NO        |
| RoHS Compliance            | COMPLIANT |
| WEEE                       | B2B       |

#### Conformity

|    |           |
|----|-----------|
| CE | COMPLIANT |
|----|-----------|

#### Documentation & Media Data

|                                |                                                                                                                                                                                                                                                                                                           |
|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Manual URL Indicator           | <a href="https://emea.mitsubishielectric.com/fa/advanced-search?ct=document&amp;doc-cats=bltdae25c2bd5f2f94&amp;q=FR-D840-2.2K-050-60&amp;doc-lang=en">https://emea.mitsubishielectric.com/fa/advanced-search?ct=document&amp;doc-cats=bltdae25c2bd5f2f94&amp;q=FR-D840-2.2K-050-60&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-D840-2.2K-050-60&amp;doc-lang=en">https://emea.mitsubishielectric.com/fa/advanced-search?ct=document&amp;doc-cats=blt8050dd1408c11cc2&amp;q=FR-D840-2.2K-050-60&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-D840-2.2K-050-60&amp;doc-lang=en">https://emea.mitsubishielectric.com/fa/advanced-search?ct=document&amp;doc-cats=blt26ecc97a31a841c1&amp;q=FR-D840-2.2K-050-60&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-D840-2.2K-050-60&amp;doc-lang=en">https://emea.mitsubishielectric.com/fa/advanced-search?ct=document&amp;doc-cats=blte8cf990c7c524b4e&amp;q=FR-D840-2.2K-050-60&amp;doc-lang=en</a> |

#### Product Packaging

|                   |     |
|-------------------|-----|
| Cardboard (g)     | 210 |
| 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="#">591470</a> | FR-A870 CABLE ALL BKO-CA1972H01       | 1        | PC   |
| <a href="#">754155</a> | FR-D800S Adjustment wheel parameters  | 1        | PC   |
| <a href="#">754158</a> | FR-D800S Front cover below            | 1        | PC   |
| <a href="#">754221</a> | FR-D800 PCB Control Board D80CA15B-60 | 1        | PC   |

#### Compatible products

| Material              | Description / Price List Text / Classification                                                                               |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------|
| <a href="#">46412</a> | FR-ABR-H2.2K<br>External High-Duty Brake Resistor; 400V; 2,2kW; 250 Ohm; 10%ED<br>Class 100100407: FA-Inverter: Brake Option |

| 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="#">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="#">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="#">274525</a> | FR-LU08<br>Clear text LCD Parameter unit for all units of 800 Series<br>Class 100100403: FA-Inverter: External Option                                              |
| <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="#">296613</a> | FR-LU08-01<br>Clear text LCD Parameter unit for all units of 800 Series (IP55)<br>Class 100100403: FA-Inverter: External Option                                    |