



## MATERIAL FACT SHEET

### 406264 FR-A870-00890-E2-60

#### General Data

|                     |                                        |
|---------------------|----------------------------------------|
| Product Hierarchy   | IAK24107                               |
|                     | INVERTER                               |
|                     | FR-A870                                |
| Ext. Material Group | 10 STANDARD ITEM                       |
| ABC Indicator       | C (Non-Stock Material / Make-to-Order) |

e-shop: [https://mitsubishi-electric-eshop.mee.com/mee/FA\\_1A/EUR/en/p/000000000000406264](https://mitsubishi-electric-eshop.mee.com/mee/FA_1A/EUR/en/p/000000000000406264)

#### FA-Inverter: Inverter

|                               |                              |
|-------------------------------|------------------------------|
| Series                        | FR-A SERIES                  |
| Type                          | FR-A800-E INVERTER           |
| Minimum Rated Voltage (V)     | 525/600                      |
| Min. Permissible Voltage (V)  | 472/540                      |
| Maximum Rated Voltage (V)     | 600/690                      |
| Max. Permissible Voltage (V)  | 660/759                      |
| Current Type                  | AC                           |
| Phases                        | 3                            |
| Rated Output Current ND (A)   | 66                           |
| Rated Motor Capacity ND (kW)  | 55                           |
| Frequency Range (Hz)          | 50/60                        |
| Control Method                | SOFT-PWM/HIGH FRQ PWM/VECTOR |
| Motor Type                    | INDUCTION MOTOR, PM MOTOR    |
| Brake Chopper ED (%)          | -                            |
| Integrated EMC Filter         | YES                          |
| Safe Torque Off (STO)         | YES                          |
| Regenerative (4Q)             | NO                           |
| Integrated DC Choke           | YES                          |
| Display                       | FR-DU08                      |
| Display Type                  | 5 DIGITS LED                 |
| PLC Function                  | YES                          |
| Program Memory                | 6K                           |
| Program Memory Unit           | STEPS                        |
| Integrated Digital Inputs     | 12                           |
| Digital Outputs (Transistor)  | 5                            |
| Digital Outputs (Relay)       | 2                            |
| Integrated Analogue Inputs    | 3                            |
| Integrated Analogue Outputs   | 2                            |
| IO Type of Terminal Block     | SPRING CLAMP                 |
| Expandable                    | YES                          |
| USB                           | 1+1 MINI                     |
| Ethernet Port                 | 1                            |
| Built-In Network              | CC-LINK IE FIELD BASIC       |
| Built-In Network (2)          | MODBUS/TCP                   |
| Leakage Current (mA)          | -                            |
| Power Loss SLD (W)            | 1400                         |
| Power Loss ND (W)             | 900                          |
| Standby Power Consumption (W) | -                            |
| Protection Class              | IP20                         |

#### Product Dimensions & Weight

|             |     |
|-------------|-----|
| Width (mm)  | 251 |
| Height (mm) | 753 |
| Depth (mm)  | 410 |
| Weight (kg) | 59  |

**Logistic Dimensions & Gross Weight**

|                   |         |
|-------------------|---------|
| Length (cm)       | 89,0    |
| Width (cm)        | 61,0    |
| Height (cm)       | 49,0    |
| Gross Weight (kg) | 71,000  |
| Volume (cdm)      | 266,021 |

**Stock Data**

|                              |     |
|------------------------------|-----|
| Planned Delivery Time (Days) | 212 |
|------------------------------|-----|

**Life Cycle**

|             |                |
|-------------|----------------|
| Sales Start | 01.09.2019     |
| Predecessor | No Predecessor |

**Additional Product Information**

|                            |                  |
|----------------------------|------------------|
| Binding Tariff Information | DEBTI-21865/22-1 |
| BTI validity date          | 01.01.2026       |
| Battery included           | NO               |

**Export Data**

|                                          |            |
|------------------------------------------|------------|
| Legal Control (Dual Use List)            | Not Listed |
| Country of Origin                        | Japan (JP) |
| Preference Status (Supplier Declaration) | Non EU     |

**Environmental**

|                            |           |
|----------------------------|-----------|
| 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-A870-00890-E2-60&amp;doc-lang=en">https://emea.mitsubishielectric.com/fa/advanced-search?ct=document&amp;doc-cats=bltdae25c2bd5f2ff94&amp;q=FR-A870-00890-E2-60&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-A870-00890-E2-60&amp;doc-lang=en">https://emea.mitsubishielectric.com/fa/advanced-search?ct=document&amp;doc-cats=blt8050dd1408c11cc2&amp;q=FR-A870-00890-E2-60&amp;doc-lang=en</a> |

**Spare parts**

| Material               | Description                              | Quantity | Unit |
|------------------------|------------------------------------------|----------|------|
| <a href="#">498604</a> | FR-A800-Series-E2 PCB CPU                | 1        | PC   |
| 591281                 | FR-A870-E 37K-55K PCB MA                 | 1        | PC   |
| 591447                 | FR-A870-E 37K-55K PCB AY                 | 1        | PC   |
| 591448                 | FR-A870-E 37K-55K PCB GA                 | 3        | PC   |
| 591451                 | FR-A870-E 37K-200K PCB AUX               | 2        | PC   |
| 591453                 | FR-A870-55K-E CAPACITOR                  | 3        | PC   |
| 591457                 | FR-A870-37K-55K-E DIODE MODULE           | 1        | PC   |
| <a href="#">676273</a> | FR-A870-00590-00890 FAN                  | 1        | PC   |
| 591463                 | FR-A870-37K-55K-E SCRM                   | 3        | PC   |
| <a href="#">282932</a> | FR-A840/842/846-ALL TERMINAL BLOCK A80TA | 1        | PC   |
| 591466                 | FR-DU08 PARAMETER-UNIT ALL               | 1        | PC   |
| 591467                 | FR-A870-37K-55K/400K-560K CAPACITOR      | 3        | PC   |
| 282933                 | FR-A840-00170-00250/A846-ALL CBL MA-CPU  | 1        | PC   |
| <a href="#">591470</a> | FR-A870 CABLE ALL BKO-CA1972H01          | 1        | PC   |
| 591471                 | FR-A870 CABLE ALL BKO-CA1972H02          | 1        | PC   |
| 591474                 | FR-A870-55K-E DCCT                       | 1        | PC   |
| 591482                 | FR-A870-55K-E DC REACTOR                 | 1        | PC   |
| <a href="#">282940</a> | FR-A840/842/CC2-ALL CASE CPU             | 1        | PC   |
| 591485                 | FR-A870 COVER CA PCB PRINT ALL           | 1        | PC   |
| 591486                 | FR-A870 COVER INTERFACE ALL              | 1        | PC   |
| 591487                 | FR-A870-37K-55K-E COVER BKO-CA2720H72    | 9        | PC   |
| 591490                 | FR-A870-37K-55K-E RESISTOR 3.6OHM        | 1        | PC   |
| 282941                 | FR-A840-77A-116A BALANCE RESISTOR        | 6        | PC   |
| 591494                 | FR-A870 GROUND WIRE ETH ALL              | 1        | PC   |