



## MATERIAL FACT SHEET

### 412430 FR-A870-04560-E2-60LC

#### 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/000000000000412430](https://mitsubishi-electric-eshop.mee.com/mee/FA_1A/EUR/en/p/000000000000412430)

#### FA-Inverter: Inverter

|                               |                              |
|-------------------------------|------------------------------|
| Series                        | FR-A800 PLUS SERIES          |
| Type                          | FR-A800-LC (LIQUID COOLED)   |
| 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)   | 405                          |
| Rated Motor Capacity ND (kW)  | 355                          |
| Frequency Range (Hz)          | 50/60                        |
| Control Method                | SOFT-PWM/HIGH FRQ PWM/VECTOR |
| Motor Type                    | INDUCTION MOTOR              |
| Integrated EMC Filter         | YES                          |
| Safe Torque Off (STO)         | YES                          |
| Regenerative (4Q)             | NO                           |
| Integrated DC Choke           | NO                           |
| 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                          |
| RS-485                        | 1                            |
| 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)            | 7650                         |
| Power Loss ND (W)             | 6850                         |
| Standby Power Consumption (W) | -                            |
| Protection Class              | IP00                         |

#### Product Dimensions & Weight

|             |      |
|-------------|------|
| Width (mm)  | 675  |
| Height (mm) | 1517 |
| Depth (mm)  | 440  |
| Weight (kg) | 212  |

**Logistic Dimensions & Gross Weight**

|                   |         |
|-------------------|---------|
| Length (cm)       | 0,0     |
| Width (cm)        | 0,0     |
| Height (cm)       | 0,0     |
| Gross Weight (kg) | 233,200 |
| Volume (cdm)      | 0,000   |

**Stock Data**

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

**Life Cycle**

|             |                |
|-------------|----------------|
| Sales Start | 07.01.2019     |
| 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-A870-04560-E2-60LC&amp;doc-lang=en">https://emea.mitsubishielectric.com/fa/advanced-search?ct=document&amp;doc-cats=bltdae25c2bd5f2ff94&amp;q=FR-A870-04560-E2-60LC&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-A870-04560-E2-60LC&amp;doc-lang=en">https://emea.mitsubishielectric.com/fa/advanced-search?ct=document&amp;doc-cats=blt8050dd1408c11cc2&amp;q=FR-A870-04560-E2-60LC&amp;doc-lang=en</a> |
| Network configuration file URL | X                                                                                                                                                                                                                                                                                                             |