



MATERIAL FACT SHEET

318059 FR-F846-00052-E2-60L2

General Data

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|----------------------|--|
| Price List Text (EN) | Inverter AC; Pn: 2,2kW; 3x380-500V;In max: 4,8A; IP55 |
| Price List Text (DE) | Umrichter AC; Pn: 2,2kW; 3x380-500V;In max: 4,8A; IP55 |
| Product Hierarchy | IAK24500 INVERTER FR-F846 IP55 |
| 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/000000000000318059

FA-Inverter: Inverter

| | |
|-------------------------------|--------------------------------|
| Series | FR-F800 SERIES |
| Type | FR-F846-E2 INVERTER |
| Minimum Rated Voltage (V) | 380 |
| Min. Permissible Voltage (V) | 323 |
| Maximum Rated Voltage (V) | 500 |
| Max. Permissible Voltage (V) | 550 |
| Current Type | AC |
| Phases | 3 |
| Rated Output Current LD (A) | 4,8 |
| Rated Motor Capacity LD (kW) | 2,2 |
| Frequency Range (Hz) | 0,2-590 |
| Control Method | MAGNETIC FLUX VECTOR CONTROL |
| Control Method (2) | PM SENSORLESS VECTOR CONTROL |
| Control Method (3) | SOFT-PWM/HIGH FREQUENCY PWM |
| Control Method (4) | V/F CONTROL |
| Motor Type | INDUCTION MOTOR, PM MOTOR |
| Integrated EMC Filter | YES |
| Safe Torque Off (STO) | YES |
| Regenerative (4Q) | NO |
| Integrated DC Choke | YES |
| Display | FR-DU08 |
| Display Type | 5 DIGITS LED (12 SEGMENT) |
| 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 | BACnet/IP |
| Built-In Network (2) | CC-LINK IE FIELD NETWORK BASIC |
| Built-In Network (3) | MELSOFT/FA |
| Built-In Network (4) | MODBUS/TCP |
| Built-In Network (5) | SLMP |
| Built-In Network (6) | iQSS |
| Leakage Current (mA) | 2 |
| Power Loss SLD (W) | 85 |
| Standby Power Consumption (W) | 19 |
| Protection Class | IP55 |

Product Dimensions & Weight

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|-------------|-----|
| Width (mm) | 238 |
| Height (mm) | 520 |
| Depth (mm) | 271 |
| Weight (kg) | 15 |

Logistic Dimensions & Gross Weight

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|-------------------|--------|
| Length (cm) | 31,5 |
| Width (cm) | 62,0 |
| Height (cm) | 40,5 |
| Gross Weight (kg) | 19,340 |
| Volume (cdm) | 79,097 |

Stock Data

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|------------------------------|-----|
| Planned Delivery Time (Days) | 128 |
|------------------------------|-----|

Life Cycle

| | |
|-------------|----------------|
| Sales Start | 01.06.2018 |
| Predecessor | No Predecessor |

Export Data

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|--|------------|
| Commodity Code | 85371091 |
| Legal Control (Dual Use List) | Not Listed |
| Country of Origin | Japan (JP) |
| Preference Status (Supplier Declaration) | Non EU |

Environmental

| | |
|---------------------------------|----------------------------|
| REACH Limit Exceeded | YES |
| REACH Substance CAS Number | 12626-81-2 |
| REACH Substance CAS Number (2) | 1317-36-8 |
| REACH Substance CAS Number (3) | 13560-89-9 |
| REACH Substance CAS Number (4) | 15571-58-1 |
| REACH Substance CAS Number (5) | 540-97-6 |
| REACH Substance CAS Number (6) | 541-02-6 |
| REACH Substance CAS Number (7) | 556-67-2 |
| REACH Substance CAS Number (8) | 68-12-2 |
| REACH Substance CAS Number (9) | 7439-92-1 |
| REACH Substance CAS Number (10) | 96-45-7 |
| 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

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|--------------------------------|---|
| Manual URL Indicator | https://emea.mitsubishielectric.com/fa/advanced-search?ct=document&doc-cats=bltdae25c2bd5f2f94&q=FR-F846-00052-E2-60L2&doc-lang=en |
| Certificates URL Indicator | https://emea.mitsubishielectric.com/fa/advanced-search?ct=document&doc-cats=blt8050dd1408c11cc2&q=FR-F846-00052-E2-60L2&doc-lang=en |
| CAD URL Indicator | https://emea.mitsubishielectric.com/fa/advanced-search?ct=document&doc-cats=blt26ecc97a31a841c1&q=FR-F846-00052-E2-60L2&doc-lang=en |
| Network configuration file URL | https://emea.mitsubishielectric.com/fa/advanced-search?ct=document&doc-cats=blte8cf990c7c524b4e&q=FR-F846-00052-E2-60L2&doc-lang=en |

Product Packaging

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|-------------------|------|
| Cardboard (g) | 3300 |
| Other paper (g) | 0 |
| Aluminum (g) | 0 |
| Steel (g) | 0 |
| Styrofoam (g) | 0 |
| Other plastic (g) | 50 |
| Wood (g) | 0 |
| Glass (g) | 0 |
| Others (g) | 0 |