



## MATERIAL FACT SHEET

### 216908 FR-A741-15K

#### General Data

|                     |                          |
|---------------------|--------------------------|
| Product Hierarchy   | IAK22602                 |
|                     | INVERTER                 |
|                     | FR-A741                  |
| 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/000000000000216908](https://mitsubishi-electric-eshop.mee.com/mee/FA_IA/EUR/en/p/000000000000216908)

#### FA-Inverter: Inverter

|                               |                  |
|-------------------------------|------------------|
| Series                        | FR-A SERIES      |
| Type                          | FR-A741 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 ND (A)   | 31               |
| Rated Motor Capacity ND (kW)  | 15               |
| Frequency Range (Hz)          | 0,2-400          |
| Control Method                | VECTOR CONTROL   |
| Motor Type                    | INDUCTION MOTOR  |
| Brake Chopper ED (%)          | 30               |
| Integrated EMC Filter         | YES              |
| Safe Torque Off (STO)         | NO               |
| Regenerative (4Q)             | YES              |
| Integrated DC Choke           | NO               |
| Display                       | FR-DU07          |
| Display Type                  | 4 DIGITS LED     |
| PLC Function                  | YES              |
| Program Memory                | 1K               |
| 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     | SCREW            |
| Expandable                    | YES              |
| RS-485                        | 2                |
| USB                           | 1                |
| Built-In Network              | MODBUS-RTU       |
| Leakage Current (mA)          | 1                |
| Power Loss ND (W)             | 860              |
| Standby Power Consumption (W) | 12,2             |
| Protection Class              | IP00             |

#### Product Dimensions & Weight

|             |     |
|-------------|-----|
| Width (mm)  | 300 |
| Height (mm) | 600 |
| Depth (mm)  | 294 |
| Weight (kg) | 40  |

#### Logistic Dimensions & Gross Weight

|             |      |
|-------------|------|
| Length (cm) | 43,0 |
| Width (cm)  | 71,0 |

|                   |         |
|-------------------|---------|
| Height (cm)       | 40,5    |
| Gross Weight (kg) | 46,500  |
| Volume (cdm)      | 123,647 |

Stock Data

|                              |     |
|------------------------------|-----|
| Planned Delivery Time (Days) | 240 |
|------------------------------|-----|

Life Cycle

|             |                |
|-------------|----------------|
| Sales Start | 29.09.2008     |
| Predecessor | No Predecessor |

Additional Product Information

|                  |    |
|------------------|----|
| Battery included | NO |
|------------------|----|

Export Data

|                                          |            |
|------------------------------------------|------------|
| Commodity Code                           | 85044095   |
| 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      | <a href="#">117-81-7</a>   |
| REACH Substance CAS Number (2)  | <a href="#">12626-81-2</a> |
| REACH Substance CAS Number (3)  | <a href="#">13560-89-9</a> |
| REACH Substance CAS Number (4)  | <a href="#">15571-58-1</a> |
| REACH Substance CAS Number (5)  | <a href="#">2451-62-9</a>  |
| REACH Substance CAS Number (6)  | <a href="#">25155-23-1</a> |
| REACH Substance CAS Number (7)  | <a href="#">540-97-6</a>   |
| REACH Substance CAS Number (8)  | <a href="#">541-02-6</a>   |
| REACH Substance CAS Number (9)  | <a href="#">556-67-2</a>   |
| REACH Substance CAS Number (10) | <a href="#">7439-92-1</a>  |
| REACH Substance CAS Number (11) | <a href="#">872-50-4</a>   |
| 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-A741-15K&amp;doc-lang=en">https://emea.mitsubishielectric.com/fa/advanced-search?ct=document&amp;doc-cats=bltdae25c2bd5f2ff94&amp;q=FR-A741-15K&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-A741-15K&amp;doc-lang=en">https://emea.mitsubishielectric.com/fa/advanced-search?ct=document&amp;doc-cats=blt8050dd1408c11cc2&amp;q=FR-A741-15K&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-A741-15K&amp;doc-lang=en">https://emea.mitsubishielectric.com/fa/advanced-search?ct=document&amp;doc-cats=blt26ecc97a31a841c1&amp;q=FR-A741-15K&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-A741-15K&amp;doc-lang=en">https://emea.mitsubishielectric.com/fa/advanced-search?ct=document&amp;doc-cats=blte8cf990c7c524b4e&amp;q=FR-A741-15K&amp;doc-lang=en</a> |

Product Packaging

|                   |      |
|-------------------|------|
| Cardboard (g)     | 6200 |
| 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    |

Spare parts

| Material               | Description                          | Quantity | Unit |
|------------------------|--------------------------------------|----------|------|
| <a href="#">259286</a> | FR-A741-11-15K IGBT CM75TL-24NF/202G | 3        | PC   |
| 259283                 | FR-A741-5.5-15K FAN                  | 2        | PC   |
| 238051                 | FR-A741-15K Mainboard A741MB15A      | 1        | PC   |

**Compatible products**

| 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 2,5<br>Cable for connecting Inverter and Programming panel; 2,5m<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="#">88426</a>  | SC-FR-PC CONNECTION CABLE PC>INVERTER<br>Programming Cable RS 232>RS485/422; 5m<br>Class 100100405: FA-Inverter: Cable                     |
| <a href="#">136577</a> | QC30-USB<br>PLC Q Series CPU Programming cable for USB interface, 3 m<br>Class 100100214: FA-MOD PLC: Cable                                |
| <a href="#">156775</a> | FR-A7AX<br>16-Bit-Digital-Input; BCD/Binary-Code; 24V DC; 5mA for FR-F/A700<br>Class 100100402: FA-Inverter: Internal Option               |
| <a href="#">156776</a> | FR-A7AY<br>Digital-/Analog Output; Output load: 24V DC; 0,1A for FR-F/A700<br>Class 100100402: FA-Inverter: Internal Option                |
| <a href="#">156777</a> | FR-A7AR<br>Relay output; 3 additional output relays for FR-A/F700<br>Class 100100402: FA-Inverter: Internal Option                         |
| <a href="#">156778</a> | FR-A7NC<br>CC-Link Interface for FR-A/F700<br>Class 100100402: FA-Inverter: Internal Option                                                |
| <a href="#">157514</a> | FR-DU07<br>Parameter Unit for inverter type FR-A700-NA<br>Class 100100403: FA-Inverter: External Option                                    |
| <a href="#">157515</a> | FR-ADP<br>Adaptor Module for Operator Panel FR-DU07<br>Class 100100403: FA-Inverter: External Option                                       |
| <a href="#">158524</a> | FR-A7NP<br>ProfibusDP Interface for FR-A/F700<br>Class 100100402: FA-Inverter: Internal Option                                             |
| <a href="#">158525</a> | FR-A7ND<br>DeviceNet Interface for FR-A/F700<br>Class 100100402: FA-Inverter: Internal Option                                              |
| <a href="#">166133</a> | FR-A7AP<br>Encoder Feedback for FR-A700<br>Class 100100402: FA-Inverter: Internal 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="#">167612</a> | FR-RJ45-HUB10<br>Distribution Module for RJ45; 10 way<br>Class 100100403: FA-Inverter: External Option                                     |
| <a href="#">167613</a> | FR-RJ45-HUB4<br>Distribution Module for RJ45; 4 way<br>Class 100100403: FA-Inverter: External Option                                       |
| <a href="#">167614</a> | FR-RJ45-TR<br>Terminal Resistor Plug RJ45<br>Class 100100403: FA-Inverter: External Option                                                 |
| 191399                 | FR-A7PS<br>Power Supply Terminal Block 12V<br>Class 100100402: FA-Inverter: Internal Option                                                |
| <a href="#">191402</a> | FR-A7AL<br>Master Slave AB Phase I/O<br>Class 100100402: FA-Inverter: Internal Option                                                      |
| <a href="#">209739</a> | FFR-SI-32A-SS1<br>Sinusfilter for 200/230/400V Inverters;max. 32A;FT=4-16kHz;(W*H*D) 210*260*135mm<br>Class 100100404: FA-Inverter: Filter |
| <a href="#">209757</a> | FFR-DT-47A-SS1<br>du/dt Filter for 400V Inverters; max. 47A; FT=2-16kHz; (W*H*D) 155*195*110mm<br>Class 100100404: FA-Inverter: Filter     |
| <a href="#">227841</a> | FFR-RS-15k-45A-EF100<br>Radio Noise Filter for FR-A741-11k to 15k; C1 20m; C2 100m<br>Class 100100404: FA-Inverter: Filter                 |

| Material               | Description / Price List Text / Classification                                                                                                                     |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <a href="#">253073</a> | NF63-SV 3P 50A<br>Circuit breaker 3pole. In = 50A; Icu = Ics = 7,5kA at AC 440V<br>Class 100100901: FA-MCCB: Moulded-Case Circuit Breaker                          |
| <a href="#">254786</a> | NF63-HV 3P 50A<br>Circuit breaker 3pole. In = 50A; Icu / Ics = 10 / 8kA at AC 440V<br>Class 100100901: FA-MCCB: Moulded-Case Circuit Breaker                       |
| <a href="#">254837</a> | NF125-SV 3P 50A<br>Circuit breaker 3pole. In = 50A; Icu = Ics = 25kA at AC 440V<br>Class 100100901: FA-MCCB: Moulded-Case Circuit Breaker                          |
| <a href="#">275503</a> | FR Configurator-M+FR-Configurator2<br>FR-Configurator for 700 series; multi l + FR-Configurator2 for 800 series<br>Class 100101203: FA-Software: Software Inverter |
| <a href="#">279239</a> | S-T21 AC24V 2A2B<br>Magnetic contactor. 11kW; 2NO + 2NC; Us = AC 24V, 50Hz<br>Class 100101001: FA-MC: Magnetic Contactor                                           |
| <a href="#">279240</a> | S-T21 AC48V 2A2B<br>Magnetic contactor. 11kW; 2NO + 2NC; Us = AC 48V, 50Hz<br>Class 100101001: FA-MC: Magnetic Contactor                                           |
| <a href="#">279241</a> | S-T21 AC100V 2A2B<br>Magnetic contactor. 11kW; 2NO + 2NC; Us = AC 100V, 50Hz<br>Class 100101001: FA-MC: Magnetic Contactor                                         |
| <a href="#">279242</a> | S-T21 AC200V 2A2B<br>Magnetic contactor. 11kW; 2NO + 2NC; Us = AC 200V, 50Hz<br>Class 100101001: FA-MC: Magnetic Contactor                                         |
| <a href="#">279243</a> | S-T21 AC300V 2A2B<br>Magnetic contactor. 11kW; 2NO + 2NC; Us = AC 300V, 50Hz<br>Class 100101001: FA-MC: Magnetic Contactor                                         |
| <a href="#">279244</a> | S-T21 AC400V 2A2B<br>Magnetic contactor. 11kW; 2NO + 2NC; Us = AC 400V, 50Hz<br>Class 100101001: FA-MC: Magnetic Contactor                                         |
| <a href="#">279245</a> | S-T21 AC500V 2A2B<br>Magnetic contactor. 11kW; 2NO + 2NC; Us = AC 500V, 50Hz<br>Class 100101001: FA-MC: Magnetic Contactor                                         |
| 283759                 | A7NETH-2P<br>Ethernet/IP, ProfiNet I/O, BacNet/IP, EtherCat, Modbus TCP&MC protocol A/F/E700<br>Class 100100402: FA-Inverter: Internal Option                      |
| 283759                 | A7NETH-2P<br>Ethernet/IP, ProfiNet I/O, BacNet/IP, EtherCat, Modbus TCP&MC protocol A/F/E700<br>Class 100100402: FA-Inverter: Internal Option                      |
| 283759                 | A7NETH-2P<br>Ethernet/IP, ProfiNet I/O, BacNet/IP, EtherCat, Modbus TCP&MC protocol A/F/E700<br>Class 100100402: FA-Inverter: Internal Option                      |
| 283759                 | A7NETH-2P<br>Ethernet/IP, ProfiNet I/O, BacNet/IP, EtherCat, Modbus TCP&MC protocol A/F/E700<br>Class 100100402: FA-Inverter: Internal Option                      |
| <a href="#">288440</a> | MMP-T32LF 32A<br>Motor prot. switch. 15kW; Ir=24,0 ~ 32,0A; Icu AC 400V=15kA<br>Class 100101101: FA-MMS: Manual Motor Starter                                      |
| <a href="#">289335</a> | FR-A8NS<br>SSCNet Interface for FR-A800<br>Class 100100402: FA-Inverter: Internal Option                                                                           |
| <a href="#">591575</a> | RHF-5P 15-400-50-20-C<br>High efficient double-stage passive harmonic filter for THDi <5%;400V;50Hz;15kW<br>Class 100100404: FA-Inverter: Filter                   |
| <a href="#">591595</a> | RHF-8P 15-400-50-20-C<br>High efficient double-stage passive harmonic filter for THDi <8%;400V;50Hz;15kW<br>Class 100100404: FA-Inverter: Filter                   |