

# radicon

with you at every turn

Mitsubishi Inverters and Servo motors



Servos and Invertors



To compliment the range of geared motors and reducers, Radicon can now offer Mitsubishi Electric, frequency inverters and servo motors.

The addition allows Radicon to offer full system solutions backed by one of the worlds largest and most advanced manufacturers of inverter drives and servo motor technology.

The frequency inverters, developed by Mitsubishi Electric, boast cutting-edge technologies for optimum motor torque and speed control

The FR-A800 series is the successor of the highly successful FR-A700 series. It is equipped with the new state-of-the-art high speed processor by Mitsubishi Electric. With better than ever control performance and response level, safe and accurate operation is assured in a diverse range of applications.

Some of the outstanding features are the integrated USB ports for programming and parameter copying, an-easy to-read control panel, optimum power usage and energy saving functions, improved system safety, three expansion slots for a range of option and supported network cards.

With its impressive versatility to meet equipment system needs ranging from machining and molding to winding, the FR-A800 is an extremely economical and highly-versatile solution for a wide range of applications

The FR-A800 series is fully backwards compatible with the FR-A700 series. Parameters can be easily copied by FR Configurator 2. In order to match the former machine response time, the input/output signals of the FR-A800 can be delayed.



### FR-A800 at a glance

#### Power range

0.4-630kw

#### Input

200/400/500V\* 3 ph (50/60 Hz)

#### Output frequency

0-590 Hz

0-1000 Hz special type

#### Protection

up to 22kW IP20, from 30kW IP00

#### Control

V/f, OEC, RSV, CLV, Built-in PLC  
Autotuning for AC and PM (Permanent Magnet Motors)

#### Integrated interfaces

Modbus RTU, RS485, USB

#### Optional extras

Analogue + digital I/Os,  
Encoder feedback

#### Network links

CC-link, CC-link IE field, Profibus DPV1,  
Profinet, Devicenet: Ethernet IP,  
SSCNETIII/H, LonWorks, Can bus

#### EMC Protection

Integrated

\* Depends on performance class



## MITSUBISHI DRIVES PROVIDE MAXIMUM DRIVE PERFORMANCE FOR PLANT AND MACHINERY

The class leading drives from Mitsubishi Electric have been designed for use in applications where maximum output and performance, increased efficiency and reliability are guaranteed. At the same time our use of in-house technology advancements enables the optimisation of plant efficiency and energy balance. The drives are very user-friendly and offer numerous network connections.

With the recent launch of the FR-A800 series of drives, Mitsubishi Electric introduces its very latest drive technology with an output range extending from 750 watts up to a maximum of 1 megawatt. They are able to drive both standard asynchronous motors and IPM/SPM motor technology, offering intelligent autotune functionality.

A powerful built in PLC ensures that the drive gives the user wide scope for application specific coding. This is fully password protected to protect valuable IP. A powerful built in positioning function further enhances flexibility.

Like all Mitsubishi Electric inverters, the FR-A800 series comes with numerous protective, safety and overload functions, high-quality temperature-resistant capacitors, continuously lubricated encapsulated cooling fans and double-coated control and circuit boards. Integrated maintenance timers indicate component fatigue. All these features increase the equipment availability by providing predictive and condition-based maintenance functionality.

At the Nagoya Works in Japan, around 5000 employees ensure the quality and reliability of Mitsubishi Electric inverters for the use in a wide range of industries. More than 4000 test and inspection procedures are carried out, enabling the company to secure maximum quality and reliability. More than 18,000,000 Mitsubishi Electric inverters have already been sold worldwide.

### MR-J3 Servos at a glance

#### Power range

MR-J3-A/B	0.1-37kW
MR-J3-BS	0.1-37kW
MR-J3-A4/B4	0.6-110kW
MR-J3-BS4	0.6-55kW
MR-J3-T/T4	0.1-55kW
MR-E-A/AG	0.1-2kW

#### Input

MR-J3-A/B/BS/T and MR-E-A/AG:	200-230 V AC (50/60 Hz)
MR-J3-A4/B4/BS4/T4:	380-480 V AC (50/60 Hz)

#### Speed frequency response

Up to 2100Hz

#### Control functions with enhanced tuning technology

Real-time Auto-tuning and Model Adaptive Control; Advanced vibration suppression

#### Integrated interfaces

RS-422

#### Network links

MR-J3-B: SSCNET III  
MR-J3-T: CC-link

#### Safety Solutions

According to EN IEC 61800-5-2  
Safe torque off (STO)  
Safe stop 1 (SS1) (only with MR-J3-D05)

#### Safety option card

MR-J3-D05

**Radicon** believes in engineering quality relationships with our customers that strengthen what we can achieve together. Our business and the people within our business are committed to building long lasting partnerships that are as reliable as our products and as smooth as our service.

Radicon and sister company Benzlers are now part of Elecon Engineering, Asia's largest and fastest growing gear manufacturer. This partnership means that we can offer our customers an enhanced range of standard and bespoke engineering solutions including drop in replacements, all supplied with the product quality and engineering expertise demanded from and delivered by the Radicon business.

**Radicon - with you at every turn**

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