FR-E740-040-EC

Industrial automation components

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Manufacturer	Mitsubishi
Catalog number	fr-e740-040-ec
Category	Industrial automation components
Product type	Industrial automation components
Status	Active product

Technical specification

Manufacturer	Mitsubishi Electric
Product Type	Variable Frequency Drive
Series	FR-E700
Rated Motor Capacity	1.5 kW
Input Voltage Range	380 to 480 V AC
Output Frequency Range	0.2 to 400 Hz
Control Methods	Voltage/Frequency Control, Sensorless Vector Control
Dimensions	140 mm x 135 mm x 150 mm
Weight	1.9 kg
Display Type	3-Digit LED
Communication Protocol	Modbus RTU

Description

The Mitsubishi FR-E740-040-EC is a compact and efficient variable frequency drive (VFD) designed for controlling 3-phase AC induction motors. Part of the FR-E700 series, this inverter offers a rated motor capacity of 1.5 kW (2 horsepower) and operates within a voltage range of 380 to 480 V AC, accommodating input fluctuations from 325 to 528 V AC.

It delivers a rated current of 4 amperes and supports output frequencies from 0.2 to 400 Hz, providing flexibility for various industrial applications. The drive features both voltage/frequency control and sensorless vector control methods, ensuring optimal performance across different load

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conditions.

Its compact dimensions (140 mm width x 135 mm depth x 150 mm height) and lightweight design (approximately 1.9 kg) facilitate easy integration into existing systems. The FR-E740-040-EC is equipped with a built-in 3-digit LED display for real-time monitoring and includes a Modbus RTU communication protocol for seamless integration into control networks.

Designed for operation in ambient temperatures ranging from -10°C to 50°C, it is housed in an IP20-rated enclosure, suitable for clean environments or cubicle mounting. This inverter is ideal for applications requiring precise motor control and reliable performance in demanding industrial settings.