

# KEB Service Manual

12F5H1D-3A0A

## 1. Description

12F5H1D-3A0A

## 3. Product Information

12F5H1D-3A0A

DISCONTINUED BY MANUFACTURER

DRIVE

3 PHASE

400/480 VAC IN

13.3/10.6 AMP IN

9.5/7.6 AMP OUT

The 12F5H1D-3A0A features a power supply of 24V DC and supports sensor inputs including thermocouples and RTDs. Manufactured by KEB within the F5 Combivert Axis Drive Series, it uses a PID control type and offers communication via RS485 Modbus RTU. It includes a 4-digit LED display and supports relay outputs.

Product Description:

The 12.F5.H1D-3A0A is an Axis drive that is part of the F5 Combivert Axis Drive Series. It is manufactured by the KEB for usage in industrial automation applications.

The unit has the capacity to work in extreme temperatures effectively and with little energy. The drive requires an input power supply which is direct current and is valued at 24 V. The product has the capacity to employ a resolution of up to 0.1°C which makes it efficient and resilient. It can work within a wide variety of temperatures ranging from extremely cold to hot (-50°C to 150°C). This makes the device capable of performing duties in most extreme temperatures across the world. The product employs sensors for inputs which can be categorized into thermocouple and RTD. The F5 Combivert Axis Drive features a relay that ranges from 4-20 mA and is used for its output. It also comes with the 4-digit LED as its display feature. The device uses a mounting type known as the Panel Mount which makes it easy for mounting and dismounting. The 12.F5.H1D-3A0A axis drive` also features the addition specification of the PID control type. The product has certain communication features that make it easy to connect with other control and command devices. It is compatible with the RS485 Modbus RTU protocol and connects seamlessly with this system.

The 12.F5.H1D-3A0A axis drive has a max heat sink temperature value of TOH [°C] 90°C / 194°F. The device is highly efficient as it has an efficiency rating of 98%. The features like ease of communication, high efficiency and adaptability to extremely high temperatures make it highly reliable. The machine is an excellent choice for usage in practices related to Industrial Automation.

Specs

Communication

RS485 Modbus RTU

Control Type

PID

Display

4-digit LED

Efficiency

98%

Max. heat sink temperature TOH [°C]

90°C / 194°F

Mounting

Panel Mount

Output Type

Relay, 4-20 mA

Power Supply

24V DC

Resolution

0.1°C

Sensor Input

Thermocouple, RTD

Temperature Range

-50°C to 150°C

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