

KEB Service Manual

07F5A1A-3E2F

1. Description

The 07F5A1A-3E2F offers a compact and versatile solution for automation tasks requiring precise control, with a power output of 0.75 kW and current capacities of 2.6A rated and 4.7A maximum. Designed for controlled indoor environments with an IP 20 rating, it ensures operational stability between -10 and 45° C.

3. Product Information

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Product Description:

The KEB F5 Combivert Axis Drives, model 07.F5.A1A-3E2, provides a versatile and space-efficient solution to a wide range of automation tasks, with a power output of 0.75 kW.

With a rated current of 2.6A and a maximum current of 4.7A, this model is recommended for use in applications that require accurate and efficient control of currents on a small scale.

The 8/16 kHz modulation frequencies offer the possibility of satisfying a range of industrial situations or needs. This reduces electromagnetic interference, which in turn affects the stability of other surrounding equipment, under the EMC standards EN 61800-3 and EN 61000-6. VBG 4 states that an IP 20 protection class unit is appropriate for usage in a

controlled indoor environment since it is protected against solid items entering the unit but not against water. The drive's temperature is properly controlled between -10 and 45° C

thanks to a robust thermal management system that uses air to cool the drive. It is made to function in storage temperatures between -25°C and 70°C. To guarantee the equipment's safety and stability, the safety precautions are almost finished, including the monitoring of earth faults and short circuits that adhere to EN 60204-1 requirements.

To enhance its adaptability to various electrical systems, the drive runs on a three-phase system with a voltage between 305 and 528 VAC. Per EN 55011/C1, it also features an inbuilt filter to lessen electromagnetic interference. To comply with international standards and remove disruptions, a harmonic filter is an optional feature. Enhanced safety features of the

drive include inbuilt 2-channel optocoupler braking that complies with ISO 13849 and provides an SIL 3 by IEC 62061

Specs

Cooling Method

Air-cooled

EMC Standard Compliance

EN 61800-3 and EN 61000-6

Integrated Filter

Complies with EN 55011/C1

Maximum Current

4.7 A

Operating Temperature Range

-10 to +45°C

Phase

3

Protection

IP20

Rated Current

2.6 A

Rated Power

0.75 kW

Safety Features

ISO 13849 and SIL 3 as per IEC 62061

Short-Circuit and Earth Fault Monitoring

Compliance with EN 60204-1

Storage Temperature Range

-25 to +70°C

Switching Frequency

8/16 kHz

Voltage Class

305 to 528 VAC

Warranty

One-year

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