

KEB Service Manual

09F5C1B-3A0A

1. Description

09F5C1B-3A0A

3. Product Information

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09F5C1B-3A0A | KEB | Frequency Inverter, 3 Phase, Input:, 400VAC, 5.7A, 50/60Hz

DRIVE

F5 SERIES

3 PHASE

INPUT: 400 VAC / 50/60 HZ / 5.7 AMP

OUTPUT: 0-480 VAC / 0-800 HZ / 4.1 AMP

1.5 KW

IP20

Height

22 cm / 8,6 in

Width

9 cm / 3,5 in

Length

16 cm / 6,2 in

Weight

2 kg / 4,4 lbs

Power

1,5 kW

Family

COMBIVERT F5

Manufactured by KEB, the 09F5C1B-3A0A is part of the F5 Combivert Axis Drive Series and features a power rating of 1.5 kW. It operates on a 3-phase 400 V system with a maximum current of 8.9 A and supports short-circuit monitoring. The drive is enclosed in an IP 20 rated casing and functions within an operation temperature range of -10 to 45 °C.

Product Description:

The 09F5C1B-3A0A by KEB's F5 Combivert Axis Drive Series offers a power rating of 1.5 kW. This makes it a robust and efficient solution in various industrial applications requiring reliable power management. It runs on an input current of 4.1 A and operates with a maximum current of 8.9 A to handle different operational loads. Designed to work perfectly on a 3-phase 400 V power supply, the 09.F5.C1B-3A0A ensures uniform performance in a wide industrial range. All of this is made possible by highly developed drive technology. This model strictly follows the standards of EN 61800-2 and EN 61800-5-1, ensuring reliable performance along with safety. Further, it follows EN 61800-3 regarding emitted interference, thereby minimizing electromagnetic interference possibilities and ensuring that the equipment will be in harmony with adjacent equipment as well. The IP 20 grade enclosure ensures it is moderately protected in a controlled indoor area. The device operates between -10 to 45 °C and is stored at -25 to 70 °C conditions thus ensuring extra durability as well as versatility for different applications.

In terms of control, offers some enhanced features of short-circuit and earth fault monitoring, improving the overall safety of operation. Its feedback control features are: resolver, incremental encoder, Sin/Cos encoder, and absolute encoder that ensures accuracy in monitoring and adjusting motor performance. A potential-free operator connection is also available with serial interfaces to integrate the model into complex systems that ensure effective data exchange and operator control. The switching frequency ranges from 8 to 16 kHz; they provide adequate and versatile capabilities of power modulation. In general, the 09.F5.C1B-3A0A is an industrially reliable drive with numerous features, achieved through outstanding performance, safety, and flexibility.

Specs

Absolute Encoder Feedback

Supported

Earth Fault Monitoring

Yes

Emitted Interference Standard

EN 61800-3

Enclosure Type

IP 20

Incremental Encoder Feedback

Supported

Input Current (I_n)

4.1 A

Maximum Current (I_{max})

8.9 A

Operating Temperature Range

-10 to 45 °C

Potential-free Operator Connection

Yes

Power Rating

1.5 kW

Product Standard

EN 61800-2, -5-1

Resolver Feedback

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Supported

Serial Interfaces

Available

Short-circuit Monitoring

Yes

Sin/Cos Encoder Feedback

Supported

Storage Temperature Range

-25 to 70 °C

Switching Frequency (f_s N/max)

8 / 16 kHz

Voltage

3-phase 400 V

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