ABB ABB Series Service Manual

SS832

1. Description

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3. Product Information

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The Voting Unit separates the redundant Power Supply Units, supervises the voltage supplied, and generates supervision signals to be connected to the power consumer.

Green LED’s, mounted on the front panel of the voting unit, provide a visual indication that the correct output voltage is being delivered. Simultaneously with the green LED illuminating, a voltage-free contact closes the path to the corresponding “OK connector”. Voting Unit trip levels are factory preset.

Features and benefits

Simple DIN-rail mounting

Class I Equipment, (when connected to Protective Earth, (PE))

Over-voltage Category III for connection to primary main

TN network

Protective separation of secondary circuit from primary circuit

Accepted for SELV and PELV applications

The output of the units is protected against over current

(current limit) and over voltage (OVP)

General info

Article number 3BSC610068R1

Type Voter

Rated output current 10 A (20 A in parallel operation)

Rated output power -

Rated output voltage -

Rated input power 2 x 10 A

Mains/input voltage, nominal 2x24 V d.c.

Applications -

Efficiency -

Detailed data

Mains voltage variation allowed -

Mains frequency 60 V d.c.

Primary peak inrush current at power on -

Load sharing -

Supervision relay Yes

Power Factor (at rated output power) -

Heat dissipation 18 W

Output voltage regulation at max. current 0.85 V typ.

Ripple (peak to peak) -

Secondary voltage holdup time at mains blackout -

Maximum output current 25 A (Overload)

Maximum ambient temperature 55 °C

Primary: Recommended external fuse -

Secondary: Short circuit Max 25 A RMS

Output over voltage protection -

Environment and certification

CE mark Yes

Electrical safety IEC 61131-2, UL 508, EN 50178

ATEX Zone 2 No

IECEx Zone 2 No

Hazardous Location, Class 1 Div 2 No

Marine certification ABS, BV, DNV-GL, LR

Protection rating IP20 according to IEC 60529

Corrosive atmosphere ISA-S71.04 G2

Pollution degree Degree 2, IEC 60664-1

Mechanical operating conditions IEC 61131-2

EMC EN 61000-6-4 and EN 61000-6-2

Overvoltage Categories -

RoHS compliance DIRECTIVE/2011/65/EU (EN 50581:2012)

WEEE compliance DIRECTIVE/2012/19/EU

Dimensions

Width 32 mm (1.26")

Depth 117 mm (4.61")

Height 125 mm (4.9")

Weight (lbs.) 350 g (0.77 lbs.)

Mounting spacing W mm 15 mm (0.59")

Mounting spacing H mm 25 mm (1")