

Technical Data SDO



Fig. 1 SDO photo

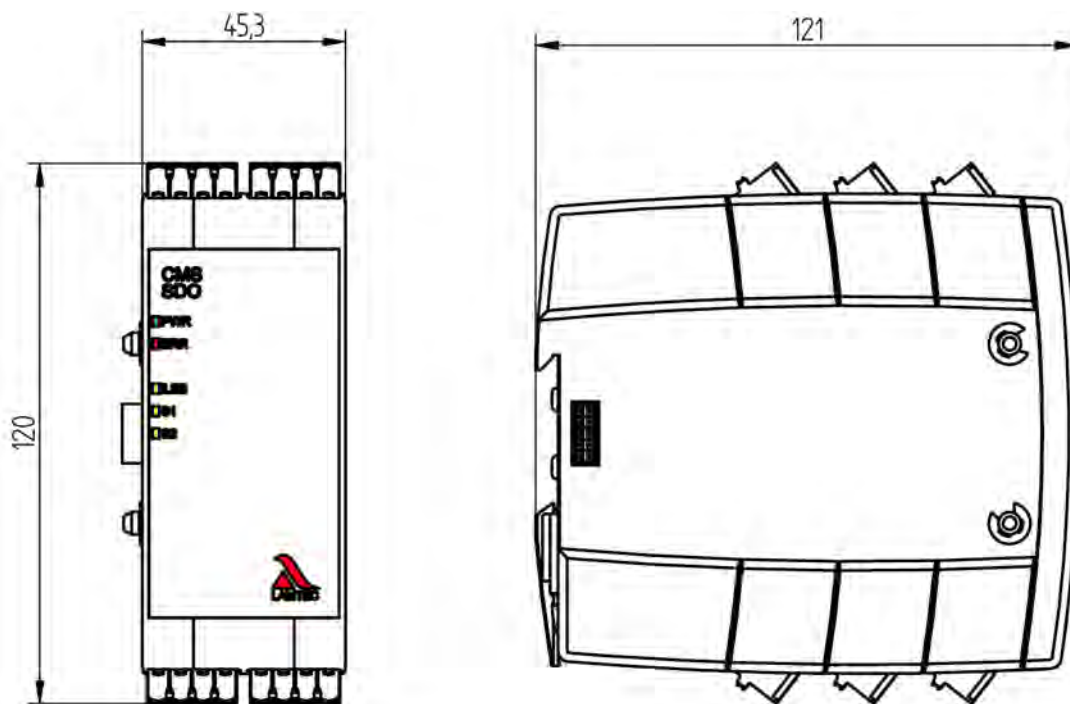


Fig. 2 SDO dimensional drawing

Part number

SDO Safe Digital Output component

Type 668R0500-XX

* XX = dependent on the configuration

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Dimensions (h × w × d)	120 × 45.3 × 121 mm / 4.72 x 1.78 x 4.76" in								
Weight	0.335 kg / 0.74 lb								
Power supply voltage									
Module	24 VDC ±20 % (by internal connecting plugs from MCC)								
Outputs	230 V/120 V +10/-15 %, 47-63 Hz, 24 VDC ± 20 %								
Backup fuse max. for outputs	8 A quick-acting								
Current draw	min: 40 mA max: 170 mA								
Power consumption	5 W								
Flammability	UL94 V-0								
Digital outputs	<p>$I_{\max} = 2 \text{ A}$ per output, maximum total current over all outputs: 8 A $\cos\varphi \geq 0,2$</p> <p>for operation with SPS or similar, digital inputs: – logic 1 = output ON: $U = 230 \text{ V}/120 \text{ V}/230 \text{ V}$ incl. tolerance – logic 0 = output OFF see Fig. 3 Power of the additional resistor when output is switched ON and Fig. 4-26 Residual voltage with output switched off</p> <table border="1"> <thead> <tr> <th></th> <th>24 VDC</th> <th>120 VAC</th> <th>230 VAC</th> </tr> </thead> <tbody> <tr> <td>short circuit current</td> <td>1.23 mA</td> <td>1.41 A_{ms}</td> <td>1.47 A_{ms}</td> </tr> </tbody> </table> <p>residual voltage through self-test function (Fig. 4-26 Residual voltage with output switched off)</p>		24 VDC	120 VAC	230 VAC	short circuit current	1.23 mA	1.41 A _{ms}	1.47 A _{ms}
	24 VDC	120 VAC	230 VAC						
short circuit current	1.23 mA	1.41 A _{ms}	1.47 A _{ms}						

Environmental Conditions

Operation	permitted temperature range	-30 ... +70°C (non-condensing)/ -22 ... +158 °F
	permitted humidity	5 % ... 95 % relative humidity
Transportation/ Storage	permitted temperature range	-40 ... +80°C (non-condensing)/-40 ... +176 °F
	permitted humidity	5 % ... 95 % relative humidity
Degree of protection	DIN EN 60529	IP20 (as long as all terminals are mounted)

NOTICE

The limits of the technical data must be strictly adhered to.

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Power of the additional resistor when output is switched ON

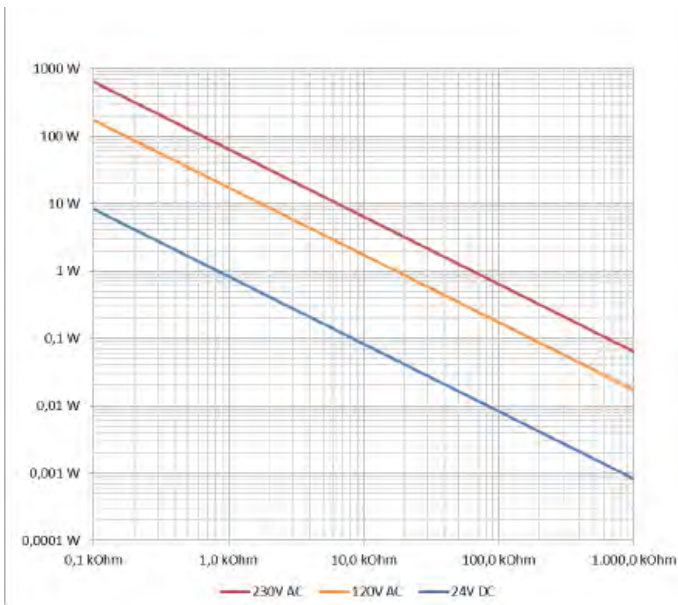


Fig. 3 Power of the additional resistor when output is switched ON

Residual voltage when output is switched OFF

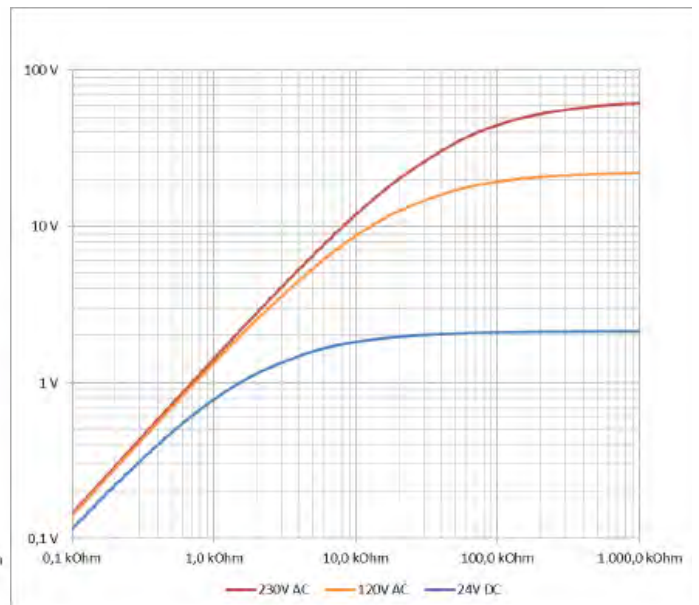


Fig. 4 Residual voltage when output is switched OFF

Order Information

Description/Type	Order no. - selection
SDO Safe Digital Output Component, power supply 24 VDC/4,1 W Module with 8 safety digital outputs	668R0500...
A 10 – LINE VOLTAGE OF THE OUTPUTS	Selection
120 VAC	120VAC
230 VAC	230VAC
24 VDC	24VDC
A 20 – CUSTOMER	Selection
STANDARD	S
A 30 – COLOR	Selection
BLACK (STANDARD)	SW
A 40 – CONNECTOR SET	Selection
SCREW TERMINALS Connector set included	SC
SPRING TERMINALS Connector set included	FED
WITHOUT Connector set not included, must be ordered separately, see „Separate Connector Sets for SDO“	0

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Separate connector sets for SDO

when attribute 40 „CONNECTOR SET“ = selection „0“

Description/Type	Order no.
Screw Terminals SDO Supply Voltage of Outputs 120/230 VAC	668R0068
Screw Terminals SDO Supply Voltage of Outputs 24 VDC	668R0069
Spring Terminals SDO Supply Voltage of Outputs 120/230VAC	668R0078
Spring Terminals SDO Supply Voltage of Outputs 24VDC	668R0079



The information in this publication is subject to technical changes.



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