

Application

ROBA®-multiswitch fast acting rectifiers are used to connect DC consumers to alternating voltage supplies, for example electromagnetic brakes and clutches (ROBA-stop®, ROBA®-quick, ROBATIC®), electromagnets, electrovalves, etc.

Fast acting rectifier ROBA®-multiswitch 019.100.2

- Consistently controlled output voltage in the entire input voltage range.
- Consumer operation with overexcitation or power reduction
- Input voltage: 100 – 500 VAC
- Max. output current I_{RMS} : 2 A
- UL-approved

ROBA®-multiswitch units are not suitable for all applications, e.g. use of the ROBA®-multiswitch when operating noise-damped brakes is not possible without taking additional measures. The product's suitability should be checked before use.

Function

The ROBA®-multiswitch units are (dependent on size) used for an input voltage of between 100 and 500. After switch-on, they emit the rectified bridge voltage for 50 ms and then control the 90 or 180 VDC overexcitation voltages. After the overexcitation period, they control the 52 or 104 VDC holding voltages. The overexcitation period can be adjusted via a DIP-switch to 150 ms, 450 ms, 1 s, 1,5 s and 2 s.

On special designs, deviating values are possible for each design.

Electrical Connection (Terminals)

- 1 + 2 Input voltage (fitted protective varistor)
- 3 + 4 Connection for external contact for DC-side switch-off
- 5 + 6 Output voltage (fitted protective varistor)

Technical Data

Input voltage	see Table 1
Output voltage	see Table 1
Protection	IP65 components, IP20 terminals
Terminal nom. cross-section	1,5 mm ² , (AWG 22-14)
Ambient temperature	-25 °C up to +70 °C
Storage temperature	-40 °C up to +70 °C

Order Number

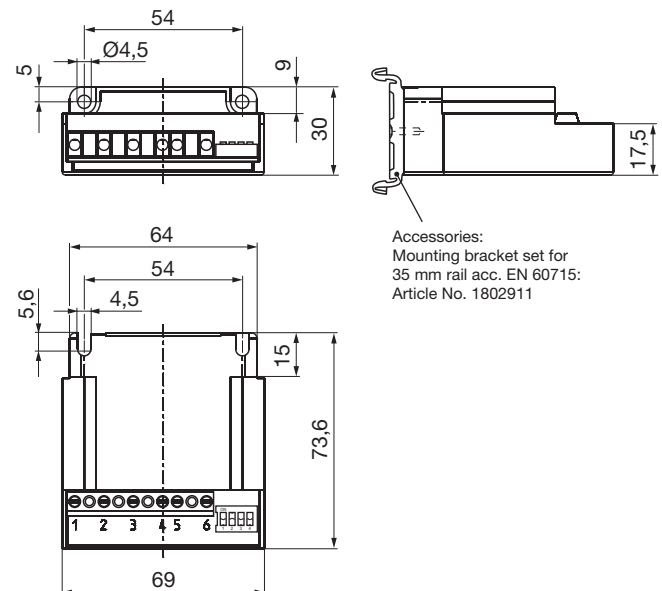
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Size
10
20



Dimensions (mm)



Accessories:
Mounting bracket set for
35 mm rail acc. EN 60715:
Article No. 1802911

ROBA®-multiswitch Sizes, Table 1

				Size	
				10	20
Input voltage *	± 10 % acc. EN 50160	U_i [VAC]		100 – 275	200 – 500
	Frequency		[Hz]	50 – 60	50 – 60
Output voltage *	± 10 %	U_o [VDC]		90	180
	± 10 %	U_H [VDC]		52	104
Output current	at ≤ 45 °C	I_{RMS} [ADC]		2,0	2,0
	at max. 70 °C	I_{RMS} [ADC]		1,0	1,0
Conformity markings					

* On special designs, deviating values are possible.
The values stated on the Type tag are decisive.