

# Dimension Sheet for ROBA<sup>®</sup>-multiswitch Type 019.100.2

(M.0191002.GB)



## Application

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

### Fast acting rectifier ROBA<sup>®</sup>-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: 2 A



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



## Function

The ROBA<sup>®</sup>-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 150ms, 450ms, 1s, 1.5s and 2s.

## Electrical Connection (Terminals)

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

## Technical Data

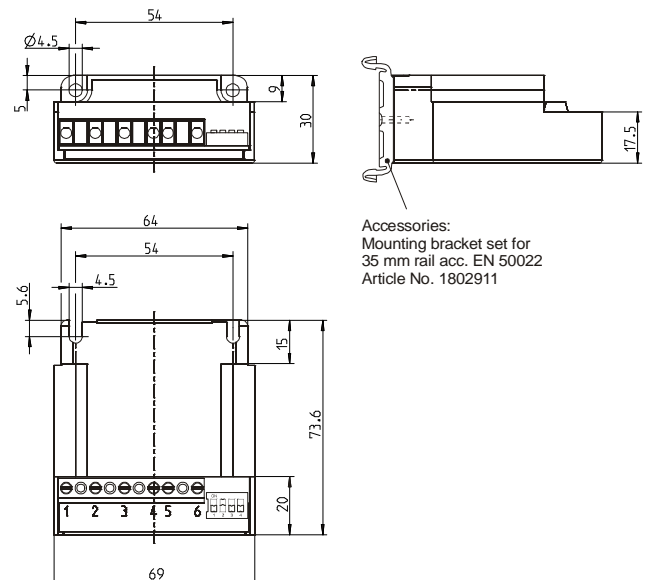
Input voltage see Table 1  
 Output voltage see Table 1  
 Protection IP65 components, IP20 terminals  
 Terminal nominal cross-section 1,5 mm<sup>2</sup> (AWG 22-14)  
 Ambient temperature -25 °C up to +70 °C  
 Bearing temperature -40 °C up to +105 °C

## Order Example

To be stated on order:	Size	Type
Order number	—	019.100.2

Sizes 10 - 20

## Dimensions (mm)



Accessories:  
 Mounting bracket set for  
 35 mm rail acc. EN 50022  
 Article No. 1802911

ROBA<sup>®</sup>-multiswitch Sizes, Table 1

	Size	
	10	20
Input voltage VAC ±10 % acc. EN 50160	100 - 275	200 - 500
Frequency input voltage Hz	50 - 60	50 - 60
Output voltage $U_{over}$ VDC ±10 %	90	180
Output voltage $U_{hold}$ VDC ±10 %	52	104
Output current $I_{RMS}$ at ≤ 45 °C ADC	2,0	2,0
Output current $I_{RMS}$ at max. 70°C ADC	1,0	1,0
Conformity markings	CE	CE