

Dimension Sheet for ROBA®-multiswitch Type 019._00.2

(M.019+002.EN)

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®) as well as electromagnets, electrovalves, etc.

Fast acting rectifier ROBA®-multiswitch 019._00.2

- 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; 4.5 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 is used for operation at an input voltage of between 100 and 500 VAC, depending on the size. After switch-on, it emits the rectified bridge voltage for 50 ms and then regulates to the permanently programmed overexcitation voltage. After the overexcitation time ends, it regulates to the permanently programmed holding voltage. For the overexcitation voltage and holding voltage values of the standard design, please see Table 1. On special designs, deviating values are possible. The overexcitation time can be adjusted via a DIP switch to 150 ms, 450 ms, 1 s, 1.5 s and 2 s.

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
Frequency	50 – 60 Hz
Output voltage	see Table 1
Output current	
Type 019.100.2	2 A at $\leq 45^\circ\text{C}$; 1 A at max. 70°C
Type 019.200.2	4.5 A at $\leq 45^\circ\text{C}$; 2.25 A at max. 70°C
Protection	IP65 components, IP20 terminals, IP20 DIP switch
Terminal	
nominal 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

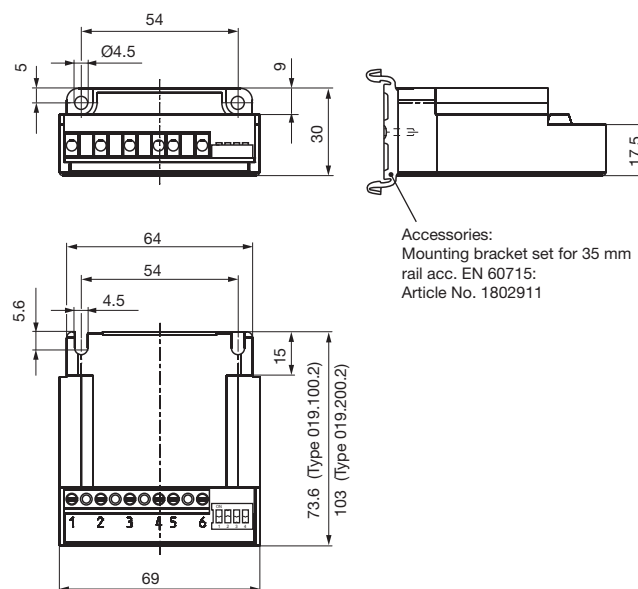
_	/	0	1	9	.	_	0	0	.	2
▲						▲				
Size							1			max. 2.0 A I_{RMS}
10							2			max. 4.5 A I_{RMS}
20										

Example:

Order number 20 / 019.100.2 and article number 8225580



Dimensions (mm)



ROBA®-multiswitch Sizes, Table 1

Size	Type	Input voltage * ± 10 % acc. EN 50160 [VAC]	Output voltage * ± 10 %		Article number
			U_o^{**} [VDC]	U_H^{**} [VDC]	
10	019.100.2	100 – 275	90	52	8186586
	019.100.2	200 – 500	180	104	8185591
	019.200.2	200 – 500	180	104	8242954
20	019.100.2	230	207	30	8225580
	019.200.2	230	207	30	8237887
	019.100.2	300 – 500	240	52	8220914

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

** U_o : overexcitation voltage; U_H : holding voltage