

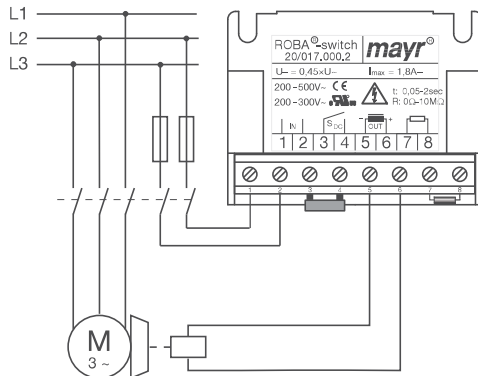
Installation and Operational Instructions for ROBA®-switch Type 017._00.2

(B.017+002.EN)

Technical Data				Type 017.000.2		Type 017.100.2	
				Size 10	Size 20	Size 10	Size 20
Input voltage	$\pm 10\%$ 50 / 60 Hz	U_{AC}	[VAC]	100 – 250	200 – 500	100 – 250	200 – 500
Output voltage	$(= 0.9 \times U_{AC})$	U_{bridge}	[VDC]	90 – 225	180 – 450	90 – 225	180 – 450
	$(= 0.45 \times U_{AC})$	$U_{half-wave}$	[VDC]	45 – 113	90 – 225	45 – 113	90 – 225
Output current	at $\leq 45\text{ °C}$	I_{RMS}	[A]	2.0	1.8	3.0	2.0
	at max. 70 °C	I_{RMS}	[A]	1.0	0.9	1.5	1.0
Fitted protective varistors		U_{RMS}	[V]	275	550	275	550
Device fuses				FF 5 A (H) 5 x 20 mm	FF 4 A (H) 6.3 x 32 mm	FF 6.3 A (H) 5 x 20 mm	FF 5 A (H) 6.3 x 32 mm
Protection				IP65 components	IP20 terminals	IP10 R _{ext}	
Terminals				Nominal cross-section 1.5 mm ² (AWG 22-14), screws M3, max. tightening torque 0.5 Nm			
Ambient temperature			[°C]	-25 to +70			
Storage temperature			[°C]	-40 to +70			
Conformity markings							
Installation conditions				The installation position can be user-defined. Please ensure sufficient heat dissipation and air convection! Do not install near to sources of intense heat!			

Wiring example

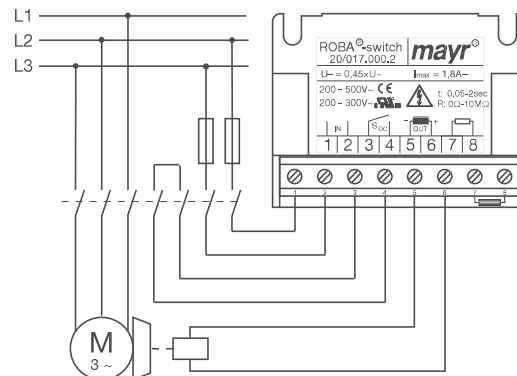
(400 VAC, AC-side switching)



AC-side switching means **low-noise switching**; however, the brake engagement time is longer (approx. 6 – 10 times longer than with DC-side switching), use for non-critical braking times.

Wiring example

(400 VAC, DC-side switching)



DC-side switching means **short brake engagement times (e.g. for EMERGENCY STOP operation)**; but louder switching noises will occur.

Protection circuit



When using DC-side switching, the coil must be protected by a suitable protection circuit according to VDE 0580, which is integrated in *mayr*®-rectifiers. Nevertheless, the high voltage induced on circuit interruption produces switching sparks, which lead to contact consumption. Therefore, only use the main contacts of a contactor suitable for inductive loads with a minimum contact opening of 3 mm for switching the DC-side contact S_{DC}. Connecting the main contacts in series reduces wear.