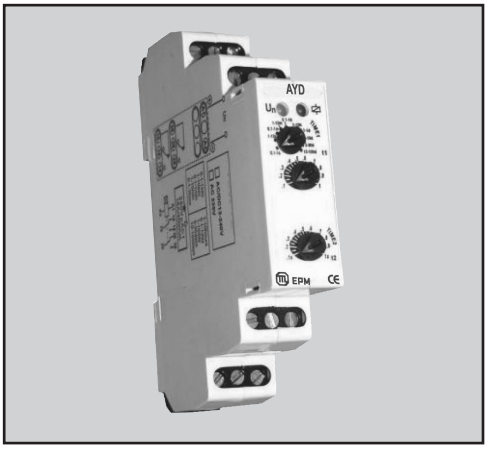
3.1 General



3.1.1 Product range

AYD – timer for star-delta starters
AAC – asymmetric cycler
ATM1, ATM3 – multifunction timing relays

3.1.2 Standards

EN 61812-1, EN 50081, EN 61000

3.1.3 Technical data – Table No. 41

	AYD	AAC	ATM1	ATM3
Number of functions	1	2	10	
Supply	A1-A2	A1-A2	A1-A2	
Supply voltage UNI	AC/DC 12..240 V/50-60Hz	AC/DC 12..240 V/50-60Hz	AC/DC 12..240 V/50-60Hz	
Power consumption	AC 0,7-3 VA/DC 0,5-1,7 W	AC 0,7-3 VA/DC 0,5-1,7 W	AC 0,7-3 VA/DC 0,5-1,7 W	
Supply voltage tolerance ± 15 %	± 15 %		± 15 %	
Supply indication	green LED	green LED	green LED	
Time ranges	0,1 s..100 days	0,1 s..100 days	0,1 s..10 days	
Time setting	rotary switch + potentiometer	rotary switch + potentiometer	rotary switch + potentiometer	
Time deviation	5 % (mechanical setting)	5 % (mechanical setting)	5 % (mechanical setting)	
Repeat accuracy	0,2 % – (set value stability)	0,2 % – (set value stability)	0,2 % – (set value stability)	
Temperature coefficient	0,01 %/K at 20 °C	0,01 %/K at 20 °C	0,01 %/K at 20 °C	
No. of the output change-over contacts	2	1	1	3
Rated op. current	16 A/AC-1	16 A/AC-1	16 A/AC-1	8 A/AC-1
Breaking capacity in AC-1 [VA]	4 000 VA/384 W	4 000 VA/384 W	4 000 VA/384 W	2 000 VA/192 W
Peak current	30 A/<3 s	30 A/<3 s	30 A/<3 s	10 A/<3 s
Rated op. voltage	250 V AC1/24 V DC	250 V AC1/24 V DC	250 V AC1/24 V DC	
Min. DC output load	500 mV	500 mV	500 mV	
Output signalization	multifunction red LED	multifunction red LED	multifunction red LED	
Mechanical durability [op. cycles]		$3x10^7$	$3x10^7$	$3x10^7$
Electrical durability [op. cycles]		$0,7x10^5$	$0,7x10^5$	$0,7x10^5$
Max. recovery time period [ms]	max. 150 ms	max. 150 ms	max. 150 ms	
Operational ambient temperature range	–20..60 °C	–20..60 °C	–20..60 °C	
Storage ambient temperature range	–30..70 °C	–30..70 °C	–30..70 °C	
Dielectric strength	2,5 kV	2,5 kV	2,5 kV	
Mounting position	any	any	any	
Mounting	on a 35-mm rail acc. to EN 50022	on a 35-mm rail acc. to EN 50022	on a 35-mm rail acc. to EN 50022	
Degree of protection	IP20	IP20	IP20	
Max. wire cross-section	2,5 mm^2	2,5 mm^2	2,5 mm^2	
Outline dimensions [mm]	90 x 17,6 x 65	90 x 17,6 x 65	90 x 17,6 x 65	
Mass [g]	93	68	68	93