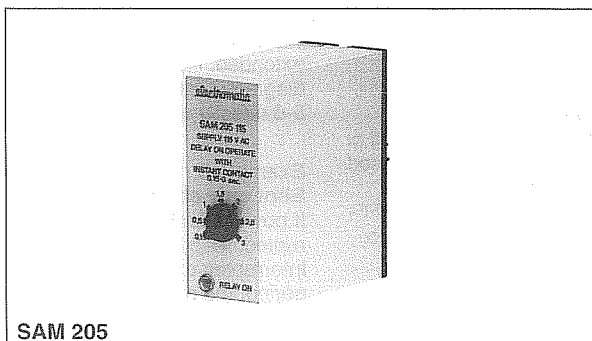
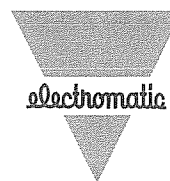


Delay on Operate Timer Type SAM 205



SAM 205

- Time ranges: 0.15 s to 600 s
- Automatic start
- Knob-adjustable time within range
- Two contacts: One instantaneous, one delayed
- Oscillator-controlled time circuit
- Repeatability deviation: $\leq 1\%$
- Output: 2 x 10 A SPDT relay
- Plug-in type module
- S-housing
- LED-indication for relay on
- AC or DC power supply

Product Description

Mono-function, plug-in, delay on operate timers up to 600 s (10 min) covering 5 individual time ranges. Equipped with one instantaneous

output contact, which can be used in applications where an output is desired immediately when power supply is applied.

Ordering Key

SAM 205 024 3S

Housing _____
 Function _____
 Output _____
 Type _____
 Power supply _____
 Time range _____

Type Selection

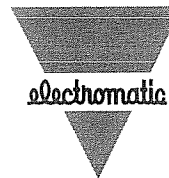
Plug	Output	Time ranges	Supply: 24 VAC	Supply: 115 VAC	Supply: 230 VAC	Supply: 24 VDC
Circular ○	SPDT	0.15- 3 s	SAM 205 024 3S	SAM 205 115 3S	SAM 205 230 3S	SAM 205 724 3S
		0.8 - 18 s	SAM 205 024 18S	SAM 205 115 18S	SAM 205 230 18S	SAM 205 724 18S
		3 - 60 s	SAM 205 024 60S	SAM 205 115 60S	SAM 205 230 60S	SAM 205 724 60S
		8 - 180 s	SAM 205 024 180S	SAM 205 115 180S	SAM 205 230 180S	SAM 205 724 180S
		30 - 600 s	SAM 205 024 600S	SAM 205 115 600S	SAM 205 230 600S	SAM 205 724 600S

Time Specifications

Time ranges	0.15- 3 s 0.8 - 18 s 3 - 60 s 8 - 180 s 30 - 600 s
Time range accuracy	0 to +10% on max. min. actual time $\leq$ min. set time
Repeatability deviation	$\leq 1\%$
Time variation Within rated power supply and ambient temperature	$\leq 0.2\%/^{\circ}\text{C}$ $\leq 0.05\%/V$
Reset Time and/or relay	power supply interruption min. 300 ms

Output Specifications

		SAM 205
Output	Basic electrical insulation	2 x SPDT relay 250 VAC (RMS) (contact/elec., contact/contact)
Contact ratings (Ag-CdO)		μ (micro gap)
Resistive loads	AC 1 DC 1 or	10 A/250 VAC (2500 VA) 1 A/250 VDC (250 W) 10 A/25 VDC (250 W)
Small inductive loads	AC 11 DC 11	2.5 A/230 VAC 5 A/24 VDC
Mechanical life		$\geq 30 \times 10^6$ operations
Electrical life (at max. load) AC 1		$\geq 2.5 \times 10^5$ operations
Operating frequency		≤ 7200 operations/h
Insulation voltages		
Rated insulation voltage		≥ 2.0 kVAC (RMS) (cont./elec.)
Rated transient protection volt.		4 kV (1.2/50 μ s) (cont./elec.) (IEC 664)



Supply Specifications

Power supply AC types		installation cat. III (IEC 664)
Rated operational voltage through pins 2 & 10	230	230 VAC $\pm 15\%$, 45 to 65 Hz
	115	115 VAC $\pm 15\%$, 45 to 65 Hz
	024	24 VAC $\pm 15\%$, 45 to 65 Hz
Dropout tolerance		≥ 40 ms
Rated insulation voltage		≥ 2.0 kVAC (RMS (supply/elec.))
Rated transient protection volt.		4 kV (1.2/50 μ s) (line/neutral)
Power supply DC type		installation cat. III (IEC 664)
Rated operational voltage	724	24 VDC $\pm 15\%$ (pin 2 pos.)
Rated insulation voltage		none
Rated transient protection volt.		800 V (1.2/50 μ s) + / -
Consumption		
AC supply		2.5 VA
DC supply		1.5 W

General Specifications

Power-on delay	≤ 200 ms
Power-off delay	≥ 300 ms
Indication for Output ON	LED, red
Environment	IP 20 B
Pollution degree	2 (IEC 664)
Operating temperature	-20 to +50°C (-4 to +122°F)
Storage temperature	-50 to +85°C (-58 to +185°F)
Weight	AC/DC types 200 g/125 g
Approvals	UL, CSA, SEV

Mode of Operation

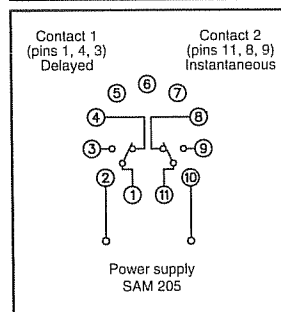
Contact 2 operates instantaneously when power supply is applied. After expiration of the set delay, contact 1 operates.

Both contacts remain in ON-position until power supply is interrupted. After 300 ms the time relay is ready for renewed start.

When interrupting power supply during a time period, contact 1 remains in its OFF-position, and contact 2 returns immediately to OFF-position.

After 300 ms the time relay is ready for renewed start.

Wiring Diagram



Time Setting

Knob-adjustable on scale in seconds.

Accessories

Socket	S 411
Hold down spring	HF
Mounting rack	SM 13
Socket cover	BB 4
Front mounting bezel	FRS 2
Potentiometer lock	PL 1
For further information refer to "Accessories".	

Operation Diagram

