

RZ7-FS Electronic Timing Relays

Precision DIN-rail
mounted timing relays
for any industrial
application



The new multifunction RZ7-FSM Electronic Timing Relay provides eight different timing functions and ten different timing ranges.

Sprecher + Schuh's new RZ7-FS precision electronic timing relays offer 19 different output functions applicable to all types of industrial control. In addition to standard ON-Delay and OFF-Delay relays, the series also includes many specials such as an OFF-Delay that operates without supply voltage. Various timing ranges from 0.05 seconds to 60 hours are available, with many relays offering multi-time setting capability in the same device.

Solid state accuracy and reliability

Except for their hard silver contacts, all RZ7-FS timing relays are built with solid state electronics and controlled by a microprocessor. They are accurate to within 0.2 percent. Their ruggedness and high level of accuracy is due to the thorough testing of function, timing characteristics and surge voltage strength performed on *each device* prior to shipment.

In addition, RZ7-FS relays function reliably from 15% under rated operating voltage to 10% over rated voltage (AC). Voltage tolerance is even greater in DC applications.

Eliminates additional relays

The standard RZ7-FS is supplied with one single pole double throw (SPDT) contact within a compact case only 22.5mm wide. If more contacts are required, several relays are available that provide two separate, electrically isolated SPDT contacts within the same narrow footprint. Output two is selectable as an instantaneous contact, which can eliminate the need for auxiliary relays in complex installations. These two pole relays can also be used with an external potentiometer for remote time setting.



Multiple functions and timing ranges in one relay

The RZ7-FSM combines *eight* separate timing functions (plus ON and OFF functions) into one device. In addition, ten timing ranges are individually selectable from 0.05 seconds to 60 hours. These special relays reduce inventories and are ideal for maintaining remote installations where stocking several different timing relays would not be practical.

Many safety and convenience features

- Every RZ7 accepts a broad range of AC and DC supply voltages without special ordering.
- Each relay is equipped with an LED that indicates four output status conditions.
- Finger and back of hand protection to IP40.
- Terminals are captive and supplied in the open position.
- All RZ7's can be surface mounted, rail mounted, or mounted directly on our family of CA7/CS7 or CA4/CS4 devices.
- RZ7 relays can be mounted in any plane.
- Terminals, setting knob and LED's are all accessible from the front of the unit.
- RZ7 Timing Relays are very compact, measuring approximately 1" x 3" x 4".

Quick Selection Guide

Single Function Timing Relays				
RZ7-FS	A	3	A	U23
Type	Function	Contacts	Time Ranges	Supply Voltages
	A On-Delay B Off-Delay C On and Off-Delay D One Shot / Watchdog E Fleeting Off-Delay F Symmetric flasher starting with a pulse G Symmetric flasher starting with a pause I On-Delay pulse generator J On-Delay (pulse controlled) K One Shot / Watch Dog (pulse controlled) L Impulse Converter	<i>All functions:</i> 3 One single pole double throw contact <i>Functions A & B only:</i> 4 Two single pole double throw contacts ② <i>(Available with Time Range "U" only. Not available with "U18" supply voltage)</i>	A 0.05...1 second B 0.15...3 seconds C 0.5...10 seconds D 1.5...30 seconds E 0.05...1 minute F 0.15...3 minutes G 0.5...10 minutes H 1.5...30 minutes I 0.05...1 hour J 0.15...3 hours K 0.5...10 hours L 3.0...60 hours U 0.05s...60 hours ①	<i>Standard:</i> U23 24...48VDC 24...240V 50/60Hz <i>Special Order:</i> U18* 24...240VAC or DC A40 346...440V 50/60Hz ③ Z12 12VDC * Not available with Time Range "U"
RZ7-FS	Q	3	Q	U18
Type	Function	Contacts	Time Ranges	Supply Voltages
	Q Off-Delay Without Supply Voltage	3 One single pole double throw contact 4 Two single pole double throw contacts ②	Q 0.15s...10 minutes ①	U18 24...240VAC or DC

Multi-Function Timing Relay				
RZ7-FS	M	3	U	U23
Type	Function	Contacts	Time Ranges	Supply Voltages
	M Multi-Function <i>Eight single functions plus ON & OFF function (for installation/maintenance)</i> - On-Delay - Off-Delay - On and Off-Delay - One Shot / Watchdog - Fleeting Off-Delay - Symmetric flasher starting with a pulse	3 One single pole double throw contact 4 Two single pole double throw contacts ②	U 0.15...60 hours ①	<i>Standard:</i> U23 24...48VDC 24...240V 50/60Hz <i>Special Order:</i> U18 24...240VAC or DC A40 346...440V 50/60Hz ③ Z12 12VDC

Special Function Timing Relays				
RZ7-FS	H	3	U	U23
Type	Function	Contacts	Time Ranges	Supply Voltages
	H Repeat Cycle Timer (Flasher) <i>Includes four separate functions</i> - Supply voltage controlled, output starts with a pause - Supply voltage controlled, output starts with a pulse - Pulse controlled, output starts with a pause - Pulse controlled, output starts with a pulse	<i>All functions:</i> 3 One single pole double throw contact	<i>For equal timing of pulse and pause</i> U 0.05s...60 hours ① <i>For separate timing of pulse and pause</i> V 2 x 0.05s...60 hours ①	<i>Standard:</i> U23 24...48VDC 24...240V 50/60Hz <i>Special Order:</i> A40 346...440V 50/60Hz ③ Z12 12VDC
RZ7-FS	Y	2	C	U23
Type	Function	Contacts	Time Ranges	Supply Voltages
	Y Wye Delta Timing Relay	2 Two normally open contacts	C 0.5...10 seconds D 1.5...30 seconds E 0.05...1 minute F 0.15...3 minutes G 0.5...10 minutes	<i>Standard:</i> U23 24...48VDC 24...240V 50/60Hz <i>Special Order:</i> A40 346...440V 50/60Hz ③

① Multi-time setting range. See Technical Section for specific time settings.

② Second output selectable as timed or instantaneous.

③ Timers with supply voltage code A40 (346...440VAC) are not UL listed.

RZ7-FS Timing Relays – Single Function, One and Two Pole

Functional Description	Functional Diagram	Terminal Arrangement	Type	Catalog Number	Price
ON-Delay Timing Relay (A) When supply voltage is applied, output contact(s) change state after time delay t .			<ul style="list-style-type: none"> One SPDT contact Single timing range 	RZ7-FSA3*U23	61
			<ul style="list-style-type: none"> Two SPDT contacts ② Multi-timing range (from 0.05s to 60h) ④ 	RZ7-FSA3UU23	64
			<ul style="list-style-type: none"> Two SPDT contacts ② Multi-timing range (from 0.05s to 60h) ④ 	RZ7-FSA4UU23	84
OFF-Delay Timing Relay (B) When control contact "S" closes, output contact(s) change state immediately. When control contact S opens, output contact(s) change state after time delay t . Constant supply voltage required on terminals A1/A2. Note: Control pulse duration minimum 50ms (AC) - 30ms (DC).			<ul style="list-style-type: none"> One SPDT contact Single timing range 	RZ7-FSB3*U23	61
			<ul style="list-style-type: none"> One SPDT contact Multi-timing range (from 0.05s to 60h) ④ 	RZ7-FSB3UU23	64
			<ul style="list-style-type: none"> Two SPDT contacts ② Multi-timing range (from 0.05s to 60h) ④ 	RZ7-FSB4UU23	84
Off-Delay Without Supply Voltage (Q) ⑤ When supply voltage is applied, output contact(s) change state immediately. When supply voltage is removed, output contact(s) change state after time delay t .			<ul style="list-style-type: none"> One SPDT contact Multi-timing range (from 0.15s to 10min) ⑤ 	RZ7-FSQ3QU18	121
			<ul style="list-style-type: none"> Two SPDT contacts Multi-timing range (from 0.15s to 10min) ⑤ 	RZ7-FSQ4QU18	141

Ordering Instructions

- Specify catalog number
- Replace (*) with Timing Range Code **Refer to table at right**

Supply Voltage

Single Function RZ7-FS...U23 timers (except RZ7-FSQ) accept supply voltages of 24...48VDC and 24...240VAC (RZ7-FSQ accepts 24...240VAC or DC). Other voltages are available by special order. See Quick Selection Guide on page G40 for details or contact your Sprecher + Schuh representative for information.

- ① For timing control, a voltage other than the supply voltage can also be used.
- ② Output two is selectable as an instantaneous contact by sliding a switch on the faceplate.
- ③ Bridge or potentiometer 10kΩ, min. 0.25W (low voltage) for external time setting.
- ④ Timing range is screwdriver selectable from the faceplate. Timing range selections include those found in the Timing Range Code chart.

Timing Range Codes

Timing Range	Code
0.05...1 sec	A
0.15...3 sec	B
0.5...10 sec	C
1.5...30 sec	D
0.05...1 min	E
0.15...3 min	F
0.5...10 min	G
1.5...30 min	H
0.05...1 hour	I
0.15...3 hour	J
0.5...10 hour	K
3.0...60 hour	L



RZ7-FS two pole timing relay

- ⑤ Timing range is screwdriver selectable from the faceplate. Exact timing ranges can be found in the Technical Section.
- ⑥ Due to shock during shipment, the state of the contacts should be verified before initial use.

RZ7-FS Timing Relays – Single Function, One Pole

Functional Description	Functional Diagram	Terminal Arrangement	Type	Catalog Number	Price
<p>ON and OFF-Delay Timing Relay (C) When control contact "S" closes, output contact changes state after time delay t. When control contact S opens, output contact changes state again after time delay t. Constant supply voltage required on terminals A1/A2.</p> <p><i>Note: Closure duration of S must be greater than t.</i></p>			<ul style="list-style-type: none"> • One SPDT contact • Single timing range 	RZ7-FSC3*U23	68
<p>One Shot / Watchdog Relay (D) When supply voltage is applied, the output contact changes state for time period t.</p>			<ul style="list-style-type: none"> • One SPDT contact • Single timing range 	RZ7-FSD3*U23	68
<p>Fleeting OFF-Delay Timing Relay (E) When control contact "S" is pulsed, output contact changes state for time period t.</p> <p><i>Note: Control pulse duration minimum 50ms (AC) - 30ms (DC).</i></p>			<ul style="list-style-type: none"> • One SPDT contact • Single timing range 	RZ7-FSE3*U23	68
<p>Symmetric Flasher Starting With A Pulse (F) When supply voltage is applied, output contact changes state immediately and then repeatedly changes after every time period t, continuing until supply voltage is removed.</p>			<ul style="list-style-type: none"> • One SPDT contact • Single timing range 	RZ7-FSF3*U23	68

Ordering Instructions

- Specify catalog number
- Replace (*) with Timing Range Code **Refer to table at right**

Supply Voltage

Single Function RZ7-FS...U23 timers (except RZ7-FSQ) accept supply voltages of 24...48VDC and 24...240VAC (RZ7-FSQ accepts 24...240VAC or DC). Other voltages are available by special order. See Quick Selection Guide on page G40 for details or contact your Sprecher + Schuh representative for information.

Timing Range Codes

Timing Range	Code
0.05...1 sec	A
0.15...3 sec	B
0.5...10 sec	C
1.5...30 sec	D
0.05...1 min	E
0.15...3 min	F
0.5...10 min	G
1.5...30 min	H
0.05...1 hour	I
0.15...3 hour	J
0.5...10 hour	K
3.0...60 hour	L



RZ7-FS one pole timing relay

① For timing control, a voltage other than the supply voltage can also be used.

RZ7-FS Timing Relays – Single Function, One Pole

G
Control &
Timing Relays
RZ7-FS

Functional Description	Functional Diagram	Terminal Arrangement	Type	Catalog Number	Price
<p>Symmetric Flasher Starting With A Pause (G) When supply voltage is applied, output contact changes state after time period t and then repeatedly changes again after every period t, continuing until supply voltage is removed.</p>			<ul style="list-style-type: none"> • One SPDT contact • Single timing range 	RZ7-FSG3*U23	68
<p>On-Delay Pulse Generator (I) When supply voltage is applied, output contact changes state after time period t. Output contact changes state again after 0.5 seconds.</p>			<ul style="list-style-type: none"> • One SPDT contact • Single timing range 	RZ7-FSI3*U23	68
<p>On-Delay (pulse controlled) (J) When control contact "S" is pulsed, the output contact changes state after time period t.</p>			<ul style="list-style-type: none"> • One SPDT contact • Single timing range 	RZ7-FSJ3*U23	68
<p>One Shot / Watchdog (pulse controlled) (K) When control contact "S" closes, the output contact changes state immediately. After the last pulse of contact S, the output contact changes state after time delay t.</p>			<ul style="list-style-type: none"> • One SPDT contact • Single timing range 	RZ7-FSK3*U23	68
<p>Impulse Converter (L) When a pulse is applied to control contact "S", the output contact changes state immediately for time period t. Pulses received during timing period t have no further effect. Note: The period t is not dependent on the length of the control pulse. Control pulse duration minimum 50ms (AC) - 30ms (DC).</p>			<ul style="list-style-type: none"> • One SPDT contact • Single timing range 	RZ7-FSL3*U23	68

Ordering Instructions

- Specify catalog number
- Replace (*) with Timing Range Code **Refer to table at right**

Supply Voltage

Single Function RZ7-FS..U23 timers (except RZ7-FSQ) accept supply voltages of 24...48VDC and 24...240VAC (RZ7-FSQ accepts 24...240VAC or DC). Other voltages are available by special order. See Quick Selection Guide on page G40 for details or contact your Sprecher + Schuh representative for information.

Timing Range Codes

Timing Range	Code
0.05...1 sec	A
0.15...3 sec	B
0.5...10 sec	C
1.5...30 sec	D
0.05...1 min	E
0.15...3 min	F
0.5...10 min	G
1.5...30 min	H
0.05...1 hour	I
0.15...3 hour	J
0.5...10 hour	K
3.0...60 hour	L




RZ7-FS one pole timing relay

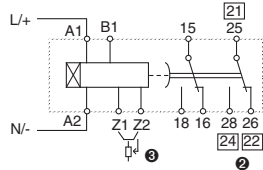
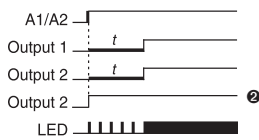
① For timing control, a voltage other than the supply voltage can also be used.

RZ7-FS Timing Relays – Multi-Function, One and Two Pole

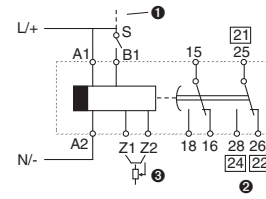
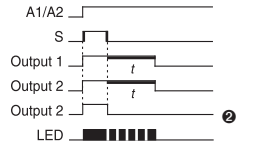
Control & Timing Relays
RZ7-FS

RZ7-FSM Multi-Function Relay	Functional Description	Type	Catalog Number	Price
	<p>Multi-Function Relay (M) The RZ7-FSM multifunction relay combines <i>eight</i> timing functions plus ON and OFF functions (for installation and maintenance). Each timing function and timing range is selectable from the face of the relay with a screwdriver actuated knob. The RZ7-FSM offers the following timing functions:</p> <p>On-Delay On and Off-Delay Fleeting Off-Delay On-Delay Pulse Generator ON Function (see below) OFF Function (see below)</p> <p>Off-Delay One Shot / Watchdog Impulse Converter Symmetric Flasher Starting With a Pulse</p> <p>The two pole RZ7-FSM4 offers two separate, electrically isolated single pole double throw (SPDT) contacts which allow applications in complex installations without additional auxiliary relays. This series may also be operated remotely via an external potentiometer.</p>	<ul style="list-style-type: none"> One SPDT contact Multifunction, multi-timing range relay (from 0.05s to 60h) ④ 	RZ7-FSM3UU23	101
		<ul style="list-style-type: none"> Two SPDT contacts ② Multifunction, multi-timing range relay (from 0.05s to 60h) ④ 	RZ7-FSM4UU23	121

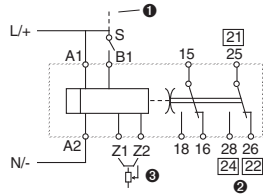
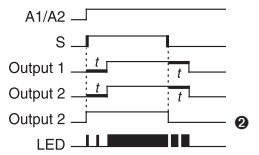
On-Delay (A)



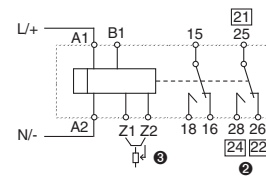
Off-Delay (B)



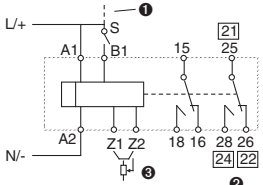
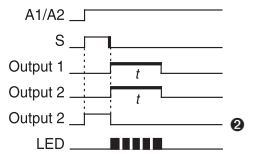
On and Off-Delay (C)



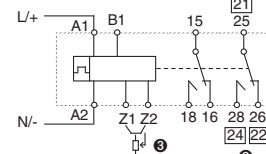
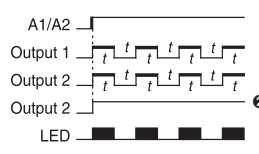
One Shot / Watchdog (D)



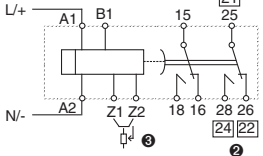
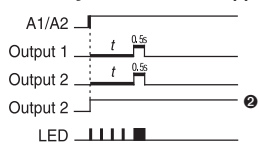
Fleeting Off-Delay (E)



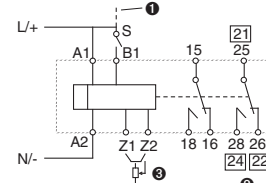
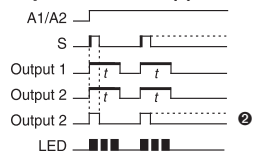
Symmetric Flasher Starting With a Pulse (F)



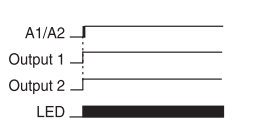
On-Delay Pulse Generator (I)



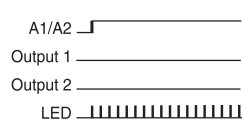
Impulse Converter (L)



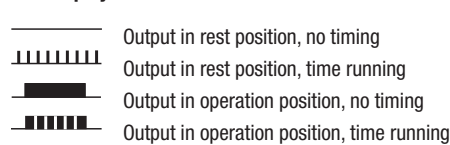
ON-Function



OFF-Function



LED display indicates function



Supply Voltage

The RZ7-FSM timer accepts supply voltages of 24...48VDC and 24...240VAC. Other supply voltages are available by special order. See Quick Selection Guide on page G40 for details or contact your Sprecher + Schuh representative for information.

- ① For timing control, a voltage other than the supply voltage can also be used.
- ② Output two is selectable as an instantaneous contact by sliding a switch on the faceplate
- ③ Bridge or potentiometer 10kΩ, min. 0.25W (low voltage) for external time setting.
- ④ Function selection and timing range is screwdriver selectable from the faceplate. Exact timing range selections can be found in Technical Information.

RZ7-FS Timing Relays – Special Function, One Pole

Functional Description	Functional Diagram	Terminal Arrangement	Type	Catalog Number	Price
<p>Wye-Delta Timing Relay (Y) When supply voltage is applied, output contact Y closes for time period t. After time period t, plus a fixed time period t_p, (50-65ms) output contact Δ closes.</p>			<ul style="list-style-type: none"> Two single pole N.O. contacts Single timing range 	RZ7-FSY2*U23	81
<p>Repeat Cycle Timer (H) - (Flasher) The Repeat Cycle Timer offers four different operating characteristics within the same relay. Depending on how the unit is wired, cycles are initiated either by supply voltage being applied or by a pulse from control contact "S". Regardless of the activation method, each cycle may begin with a pause or a pulse.</p> <p>The RZ7-FSH3U relay sets the pulse and pause durations equally. The RZ7-FSH3V allows individual time settings of pulse and pause. Both relays offer multiple time settings between 0.05s and 60h, selectable in ten increments.</p>	<p><i>Supply voltage controlled, output starts with a pause</i></p>		<ul style="list-style-type: none"> One SPDT contact Multi-timing range (from 0.05s to 60h) ② <p>Equal setting of pause and pulse</p> <p>Individual setting of pause and pulse</p>	RZ7-FSH3UU23	81
	<p><i>Supply voltage controlled, output starts with a pulse</i></p>			RZ7-FSH3UU23	81
	<p><i>Pulse controlled, output starts with a pause</i></p>			RZ7-FSH3VU23	81
	<p><i>Pulse controlled, output starts with a pulse</i></p>			RZ7-FSH3VU23	81

Ordering Instructions

- Specify catalog number
- Replace (*) with Timing Range Code **Refer to table at right**

Timing Range Codes

Timing Range	Code
0.5...10 sec	C
1.5...30 sec	D
0.05...1 min	E
0.15...3 min	F
0.5...10 min	G






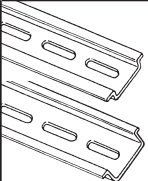
RZ7-FSY one pole timing relay

Supply Voltage




These timers accept supply voltages of 24...48VDC and 24...240VAC. A supply voltage of 346...440VAC is also available by special order. See Quick Selection Guide on page G40 for details or contact your Sprecher + Schuh representative for information.

① For timing control, a voltage other than the supply voltage can also be used.
 ② Timing range is screwdriver selectable from the faceplate. Exact timing range selections can be found in Technical Information.

Accessories

Accessory	Description	Catalog Number	Price
	Setting Knob With Scale - For time setting without tools.	RZ7-FSK	5
	Panel Mounting Adaptor - For surface mounting RZ7-FS/FE timing relays.	26.506.221-01	4
	Dovetail joint - for fitting all timers to CA7/CS7 and CA4/CS4 devices	25.944.201-03	1.30
	DIN-rail - 2 meter lengths (≈ 6' 6") Top Hat, low profile (price per rail) Top Hat, high profile (price per rail)	3F 3AF	17 26

Marking Systems

Component	Description	Pkg. Qty.	Catalog Number	Price Each
	Label Sheet - 1 sheet with 105 self-adhesive paper labels each, 6 x 17mm	1	CA7-FMS	1
	Marking Tag Sheet - 1 sheet with 160 perforated paper labels each, 6 x 17mm. To be used with transparent cover.	1	CA7-FMP	1
	Transparent Cover - To be used with Marking Tag Sheets.	100 ①	CA7-FMC	.10
	Tag Carrier - For marking with Series V7 Clip-on Tags.	100 ①	CA7-FMA2	.10

① Minimum order quantity is one package of 100. Price each x 100 = total price.

Technical Data

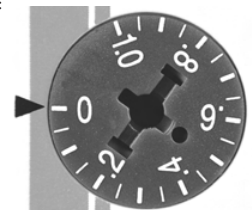
Timing Characteristics (according to VDE 0435, Part 2021)		
Timing ranges for		
RZ7-FSM-A, B, C, D, E, F, I, & L	(1s)	0.05...1 sec
RZ7-FSH	(3s)	0.15...3 sec
	(10s)	0.5...10 sec
	(1mn)	0.05...1 min
	(3mn)	0.15...3 min
	(10mn)	0.5...10 min
	(1h)	0.05...1 hour
	(3h)	0.15...3 hours
	(10h)	0.5...10 hours
	(60h)	3...60 hours
RZ7-FSQ	(2.5s)	0.15...2.5 sec
	(10s)	0.5...10 sec
	(80s)	4...80 sec
	(10mn)	0.5...10 min
Setting accuracy	±5% of full scale value	
Repeatability	±0.2% of the setting values	
Tolerance	Voltage: ±0.001%/°ΔU Temperature: ±0.025%/°C	
Power Supply		
Supply voltages	24...48VDC and 24...240VAC, 50/60Hz (dual voltage) 12VDC 24...240V AC or DC (universal voltage) 346...440VAC, 50/60Hz	
Voltage tolerance	AC: -15%... +10% DC: -20%... +20%	
Power consumption	AC: 5VA at 240V DC: 0.5W at 24V	
Time energized	100%	
Reset time	50ms	
Voltage interruption	≤20ms without reset (supply voltage)	
Input Impedance	Relay On: 3k-13k ohms Relay Off: 0.7k-4k ohms	
Cable length (supply voltage control)	250 meters (800 ft.) max.	
Pulse Control (B1)		
Impulse duration	≥50ms (AC), ≥30ms (DC)	
Input voltage	Supply voltage range	
Input current	1 mA	
Max. Leakage Current	400 micro Amps	
Cable length	max. 250 m (800 ft.) without parallel load between B1 & A2 max. 50 m (160 ft.) with load (<3kΩ) between B1 & B2	
Outputs		
Type of outputs	Relay contacts: hard silver	
Maximum admissible operating voltage	Alternating current: 440VAC	
Dielectric Coil to contact Withstand Voltage	5,000 V	
Switching capacity	Current I_m : (AC1) Power:	
	8A (5A for RZ7-FSQ) 2000VA according to IEC947-5-1: 3A/440VAC (inductive load, AC14) 3A/250VAC (inductive load, AC15) 1A/24VDC (inductive load, DC13) according to UL 508: 1.5A/250VAC (B300) 3A/120VAC (B300)	
Short circuit resistance	10 A gL (fast blow fuse)	

Life expectancy (electrical)	4 million ops. at 1A/250VAC, $\cos\varphi = 1$ 0.2 million ops. at 6A/250VAC, $\cos\varphi = 1$ 1.5 million ops. at 1A/250VAC, $\cos\varphi = 0.3$ 0.3 million ops. at 3A/250VAC, $\cos\varphi = 0.3$ 0.5 million ops. at 6A/24VDC, resistive 2 million ops. at 4A/24VDC, resistive 2 million ops. at 0.2A/230VDC, resistive 1 million ops. at 0.4A/24VDC, L/R = 20ms 1 million ops. at 0.2A/110VDC, L/R = 20ms 1 million ops. at 0.1A/230VDC, L/R = 20ms
Life expectancy (mechanical)	30 million operations
General Data	
Insulation Characteristics	2 kVAC/50 Hz test voltage according to VDE 0435 and 6 kV 1.2/50 μs surge voltage according to IEC 947-1 between all inputs and outputs
EMC/Interference Immunity	Performance of following requirements: - Surge capacity of the supply voltage according to IEC1000-4-5: 4 kV 1.2/50 μs - Burst according to IEC 1000-4-4: 6 kV/ 6/50ns - ESD discharge according to IEC 1000-4-2: - Contact 8 kV, air 8 kV - Electromagnetic HF field according to IEC 801-3 and conducted electromagnetic HF signal according to IEC 801-6: Level 3
EMC/Emission	Electromagnetic fields according to EN 55 022: Class B
Safe isolation	According to VDE 106, part 101
Climatic withstand	56 cycles (24h) at 25...40°C and 95% relative humidity according to IEC 68-2-30 and IEC 68-2-3.
Vibration resistance	4 g in 3 axis at 10...500 Hz, test FC according
Shock resistance	50 g according to IEC 68-2-27
Protection class	Enclosure: IP40 IP30 (single function) Terminal: IP20 according to IEC 947-1
Weight	100g
Approvals/Standards	UL, C-UL up to 240VAC, Germanischer Lloyd, CE
Ambient temperature	Open: -25°C... +60°C Enclosed: -25°C... +45°C Storage: -25°C... +85°C
Connections	Screw terminal - M3.5 for Pozidrive No.2, Phillips and slotted screws No.2 suitable for power screwdriver. Rated tightening torque - 0.8 Nm (max. 1.2 Nm) - [8.8 lb-in] Wire Size - Dual-chamber system for terminal cross-sections of 1 x 0.5mm ² (solid) or 2 x 2.5mm ² (flexible with sleeve), AWG 20...14. Finger Protection - According to VDE 0106
Mounting	- Snap-on mounting (35mm DIN-rail) - Side mounting on CA7/CA4 contactors and CS7/CS4 with dovetail joint [surface mounting in any position]
Relays	- Screw fixing by Panel Mount Adapter and two screws (M4) [surface mounting in any position]
Disposal	Synthetic material without dioxin according to EC/EFTA notification No. 93/0141/D. Electrical contacts contain cadmium.
Standards	EN 60947-1, EN 60947-5-1, EN 50081-1, IEC 947, UL 508, CSA 22.2

RZ7 Relative Scale Setting Knob

Series RZ7 Timing Relays have a "relative scale" setting knob numbered 0 to 1.0. Think about this as 0 to 100% of the relay's built-in time range. Example: To set an RZ7-FS timing relay (with a 0.05 to 1 minute range) to activate after 25 seconds:

- 1) Divide the desired activation time (25 seconds) by the maximum time limit of the relay (60 seconds).
 $25 \div 60 = .416$
- 2) Rotate the setting knob to just past the .4 mark.

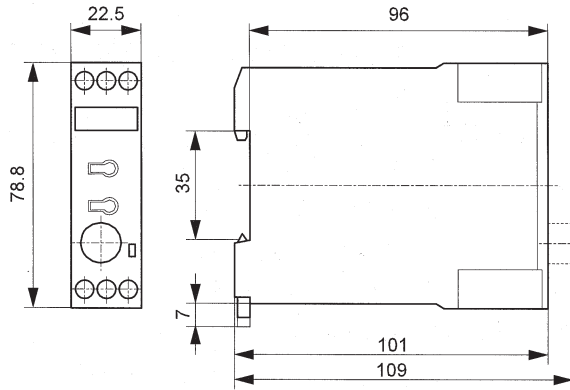


Dimensions

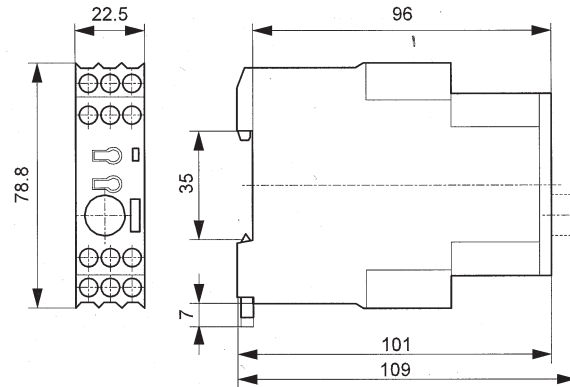
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Control &
Timing Relays
RZ7-FS

Series RZ7-FS Timing Relays (one and two pole)

- Dimensions are in millimeters
- Dimensions not intended for manufacturing purposes



RZ7-FS (1 SPDT contact)



RZ7-FS (2 SPDT contacts)

Panel Mount Adaptor (26.506.221-01)

- Dimensions are in millimeters
- Dimensions not intended for manufacturing purposes

