

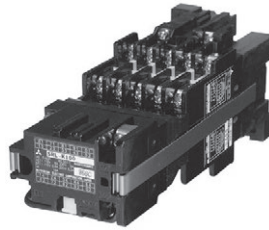
# 7 MS-K Series Contactor Type Contactor Relays

## 7.5 SRL-K100, SRLD-K100 Mechanically Latched Contactor Relays

SRL is SR with a mechanical latch mechanism attached at the top. Simply energizing the closing coil for approximately 0.5 seconds causes mechanical retention in the closed state, tripping only when the tripping coil is energized. Closing coils are available as SRL AC operated types or SRLD DC operated types. These are sometimes called keep relays or momentary energizing relays.

### Features

- Can be used as a memory relay  
The mechanical retention prevents opening due to power failures or voltage drops.
- Reduced coil power consumption  
The constant power consumption of the solenoid of the operation coil can be reduced.
- Allows manual closing
- Allows manual tripping



SRL-K100

- No buzzing sound
- Stable operation  
The self-demagnetizing break contact of the closing coil has been built into the latch mechanism.
- High contact reliability  
The adoption of twin contacts improves the contact reliability.
- IEC 35 mm rail mounting is fully adopted

### Performance

Closing Coil Operation Category	Model Name	Tripping Coil Self-Demagnetizing	Closing Coil Self-Demagnetizing	Contact Arrangement (Valid)	Switching Frequency [Times/Hour]	Switching Durability (Ten Thousand Times)	
						Electrical	Mechanical
AC Operated	SRL-K100	Incl.	Incl.	9a, 8a1b, 7a2b, 6a3b, 5a4b, 4a5b	1200	50	100
DC Operated	SRLD-K100						

### Properties

Frame		Operation Coil Input [VA]	Contact Arrangement	Operating Voltage [V]		Operating Time [ms]			
				Closing	Tripping	Closing Coil ON → Make Contact ON	Closing Coil ON → Break Contact OFF	Tripping Coil ON → Make Contact OFF	Tripping Coil ON → Break Contact ON
AC Operated	SRL-K100	Closing 100 Tripping 90	8a1b	115 to 156	68 to 110	8 to 16	6 to 15	10 to 18	11 to 20
			4a5b	115 to 155	70 to 115	8 to 16	6 to 15	10 to 18	11 to 20
DC Operated	SRLD-K100	Closing 90 Tripping 100	8a1b	50 to 80	35 to 75	10 to 18	10 to 19	10 to 18	10 to 19
			4a5b	45 to 80	35 to 80	10 to 20	10 to 19	10 to 18	10 to 19

### Operation Coil Rating (SRL, SRLD-K100)

For AC				For DC		
Coil Designation	Rated Voltage [V]		Coil Indicator	Coil Designation	Rated Voltage	Coil Indicator
	50 Hz	60 Hz				
AC12V	12	12	Rated Voltage/ Frequency	DC12V	DC12 V	Rated Voltage
AC24V	24	24		DC24V	DC24 V	
AC48V	48 to 50	48 to 50		DC48V	DC48 V	
AC100V	100	100 to 110		DC100V	DC100 V to 110 V	
AC120V	110 to 120	115 to 120		DC125V	DC120 V to 125 V	
AC200V	200	200 to 220		DC200V	DC200 V to 220 V	
AC220V	208 to 220	220				
AC260V	240 to 260	260 to 280				
AC400V	380 to 415	400 to 440				
AC440V	415 to 440	460 to 480				
AC500V	500	500 to 550				

Note 1. DC coils have no polarity.

The designation is a symbol to be specified when ordering.

	Item	Reference Page	Remarks
	· Rating	Pages 168, 169	Same as SR- □ .
	· Handling	Page 161	Same as SRL, SRLD- □ .
	· How to Order	Page 178	—
	· Combining with Optional Units	Page 184	—