

# RELAYS & CONTACTORS



## ABB GENERAL-PURPOSE RELAYS 1SVR4056 CR-M, CR-P, CR-U SERIES



NEW!



1SVR4056 CR-P, -M, -U Series



### DESCRIPTION

The **ABB** general-purpose relays are available in the **CR-P Series** blade-style pcb relays, the **CR-U Series** pin-style relays, and the **CR-M Series** miniature-style relays. The standard series modeling codes are represented by the **1SVR4056 Series** part numbers shown in our ordering charts. Both numbers are recognizable in the industry, but all are ordered using the **1SVR4056 Series** part numbering style.

The **CR-P Series** relays are available in both SPDT and DPDT configurations driven by AC or DC coils with blade terminals for socket mounting. The SPDT models have a 16A switching capacity while the DPDT models have an 8A switching capacity.

The **CR-U Series** relays are available in both DPDT and 3PDT configurations driven by AC or DC coils with pin terminals for socket mounting. Both the DPDT and 3PDT models have a 10A switching capacity.

The **CR-M Series** miniature relays are available in DPDT, 3PDT and 4PDT configurations driven by AC or DC coils with blade terminals for socket mounting. The DPDT models have a 12A switching capacity while the 3PDT is at 10A and the 4PDT is at 6A.

### FEATURES

- Cadmium-free contact material
- Blade, pin and compact models
- PCB, Surface or DIN rail mounting available (dependent on sockets)
- LED available on CR-U and CR-M models
- Integrated test button on CR-U and CR-M models

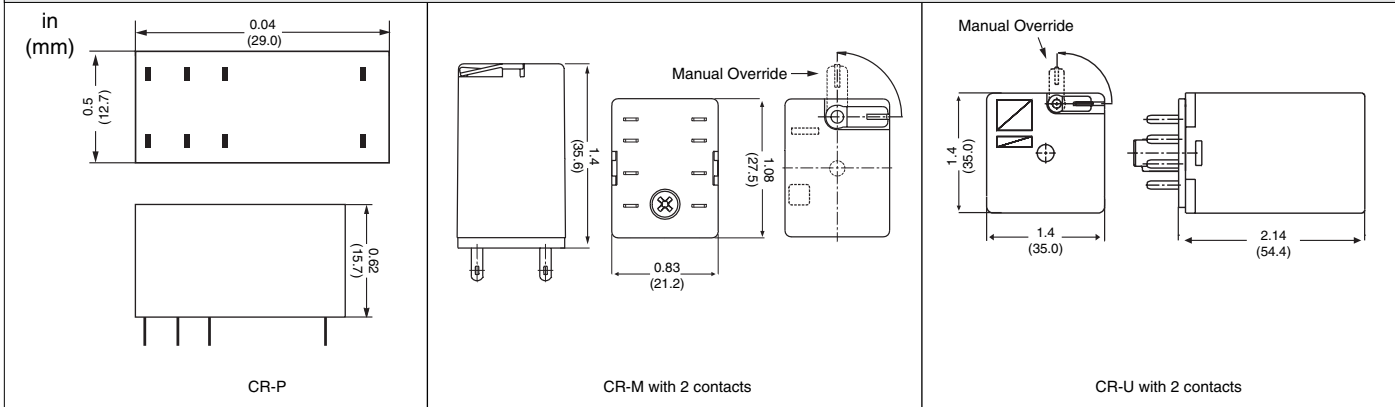
SPECIFICATIONS				
COIL RATINGS				
MODEL	1SVR4056 CR-P SERIES		1SVR4056 CR-M SERIES	1SVR4056 CR-U SERIES
COIL				
Make/Pull-in Voltage AC (50/60Hz)	≥80% of nominal		≥80% of nominal	≥80% of nominal
Make/Pull-in Voltage DC	≥70% of nominal		≥80% of nominal	≥80% of nominal
Dropout Voltage AC/DC	≥10% of nominal		≥10% of nominal	≥10% of nominal
Maximum Voltage @ 55°C	≥255% of nominal		≥110% of nominal	≥110% of nominal
Coil Power AC (60Hz)	.75VA		1.6VA	2.5VA
Coil Power DC	0.4 to 0.48W		0.9W	1.5W
Coil Resistance at Rated Voltage	24 VAC	400Ω ±10%	158Ω ±10%	75Ω ±10%
	120 VAC	10200Ω ±10%	3770Ω ±10%	1910Ω ±10%
	230 VAC	38500Ω ±10%	16100Ω ±10%	7080Ω ±10%
	12 VDC	360Ω ±10%	160Ω ±10%	110Ω ±10%
	24 VDC	1440Ω ±10%	640Ω ±10%	430Ω ±10%
CONTACT RATINGS				
Contact Material		Silver Nickel		
Resistive Load	SPDT	16A @230VAC	NA	NA
	2PDT	8A @230VAC	12A @ 230VAC	10A @230VAC
	3PDT	NA	10A @ 230VAC	10A @230VAC
	4PDT	NA	6A @230VAC	NA
	SPDT	1.5A @ 230VAC	NA	NA
Inductive Load	2PDT	1.5A @ 230VAC	1.5A @230VAC	1.5A @230VAC
	3PDT	NA	1.5A @230VAC	1.5A @230VAC
	4PDT	NA	1A @230VAC	NA
Minimum Switching Voltage		5V	10V (5V for 4PDT)	10V
Minimum Switching Current		5mA (2mA for 2PDT)	5mA (2mA for 4PDT)	5mA
Response Time (milli-seconds)		7ms	13ms	18ms (DC) / 12ms (AC)
Release Time (milli-seconds)		3ms	3ms (DC) / 8ms (AC)	7ms (DC) / 10ms (AC)
Resistance		100mΩ		
Operating Temperature	AC	-40° to 158°F(-40° to 70° C)	-40° to 131°F(-40° to 55° C)	-40° to 131°F(-40° to 55° C)
	DC	-40° to 185°F (-40° to 85°C)	-40° to 158°F(-40° to 70° C)	-40° to 158°F(-40° to 70° C)



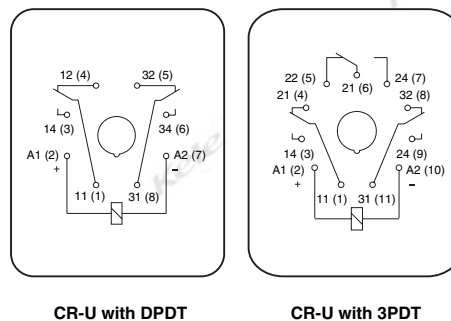
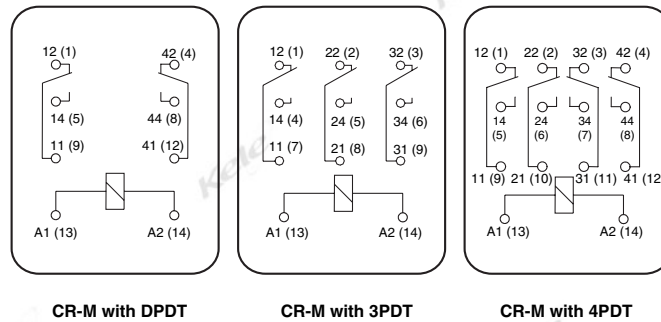
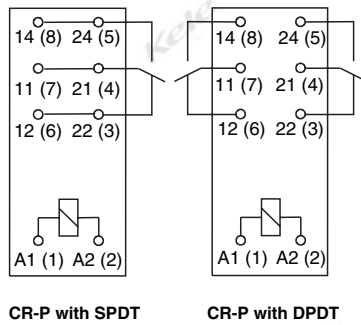
# RELAYS & CONTACTORS

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### DIMENSIONS



### WIRING



# RELAYS & CONTACTORS

## ABB GENERAL-PURPOSE RELAYS 1SVR4056 CR-M, CR-P, CR-U SERIES



### ORDERING INFORMATION

MODEL	DESCRIPTION (order sockets separately)
1SVR4056	CR Series interface relays, plug-in style
	<b>CONTACT CONFIGURATION W/ CONTACT RATING (all amp ratings measured @ 250V)</b>
<b>00</b>	SPDT - 16A for P-Series (blade style) (standard CR-PSS Socket)*
<b>01</b>	2PDT - 8A for P-Series (blade style) (standard CR-PSS Socket)*
<b>11</b>	2PDT - 12A for M-Series (blade style-mini) (standard CR-M2SS Socket)*
<b>12</b>	3PDT - 10A for M-Series (blade style-mini) (standard CR-M3SS Socket)*
<b>13</b>	4PDT - 6A for M-Series (blade style-mini) (standard CR-M4SS Socket)*
<b>21</b>	2PDT - 10A for U-Series (pin style) (standard CR-U2SS Socket)*
<b>22</b>	3PDT - 10A for U-Series (pin style) (standard CR-U3SS Socket)*
	<b>COIL VOLTAGE</b>
<b>R0</b>	24 VAC
<b>R1</b>	24 VDC
<b>R2</b>	120 VAC
<b>R3</b>	230 VAC
<b>R4</b>	12 VDC
	<b>LED OPTION</b>
<b>000</b>	No LED
<b>100</b>	With LED (Not available for P Series relays)

1SVR4056 01 R1 000 *Example: 1SVR405601R1000*

CR plug in relay w/ 2PDT 8amp contact 24 VDC no LED

### RELATED PRODUCTS

\* Sockets and accessories can be found on the **ABB relay Sockets** catalog page for more options

**DIN-3F  
BAM-1000**

### RELATED PRODUCTS

35 mm DIN rail, steel, 39.4" (1m), RoHS compliant  
DIN rail