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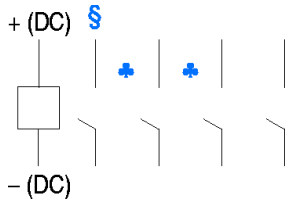
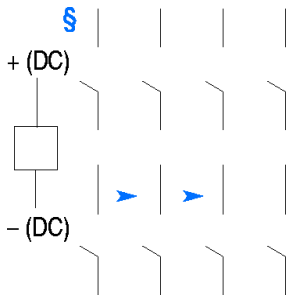
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700-R Sealed Switch Relays



- Sealed contacts
- Extremely long mechanical and electrical life
- Hazardous locations Class 1, Div 2 Groups A, B, C, D
- Harsh environments
- Suitable for applications with shock and vibration
- High reliability circuit integrity

Open Type Relays with Electrically Held Contacts

No. of Poles	Contacts		Contact Arrangement and Markings‡	Cat. No.	
	N.O.	N.C.		AC-Operated Relay	DC-Operated Relay
0	0	0	Relay without Contact	700-R000⊗	700DC-R000⊗
2	2	0		700-R200⊗	700DC-R200⊗
	1	1		700-R110⊗	700DC-R110⊗
	0	2		700-R020⊗	700DC-R020⊗
4	4	0		700-R400⊗	700DC-R400⊗
	3	1		700-R310⊗	700DC-R310⊗
	2	2		700-R220⊗	700DC-R220⊗
	1	3		700-R130⊗	700DC-R130⊗
	0	4		700-R040⊗	700DC-R040⊗
6	6	0		700-R600⊗	700DC-R600⊗
	5	1		700-R510⊗	700DC-R510⊗
	4	2		700-R420⊗	700DC-R420⊗
	3	3		700-R330⊗	700DC-R330⊗
	2	4		700-R240⊗	700DC-R240⊗
	1	5		700-R150⊗	700DC-R150⊗
	0	6		700-R060⊗	700DC-R060⊗
8	8	0		700-R800⊗	700DC-R800⊗
	7	1		700-R710⊗	700DC-R710⊗
	6	2		700-R620⊗	700DC-R620⊗
	5	3		700-R530⊗	700DC-R530⊗
	4	4		700-R440⊗	700DC-R440⊗
	3	5		700-R350⊗	700DC-R350⊗
	2	6		700-R260⊗	700DC-R260⊗
	1	7		700-R170⊗	700DC-R170⊗
	0	8		700-R080⊗	700DC-R080⊗

‡ Arrangement displays all N.O. contacts.
➤ Location of contacts in 6-pole relays.
§ Polarity must be observed for DC voltage (700 DC) relays.
♣ Location of contacts in 2-pole relays.

⊗ Coil Voltage Code

The Cat. No. as listed is incomplete. Select a coil voltage code from the table below to complete the cat. no. Example: Cat. No. 700-R000⊗ becomes Cat. No. 700-R000A24.

Current	Hz	24	48	110	120	208	220	230-250	240
AC	25	–	–	C11	C1	–	–	–	C2
	50	–	–	A1	–	–	A2	–	–
	60	A24	A48	–	A1	A20	–	–	A2
DC	–	Z24	Z48	–	–	Z1	–	Z2	–

Accessories

Operating Coils

	Coil Volts	700-R 2-...8-Pole AC		700-R 2-...8-Pole DC
		60 Hz	50 Hz	
	24	77AB27	77AB27	77D152
	48	77AB134	77AB134	77D166
	110	77AB86	77AB86	–
	115...125	–	–	77D155
	120	77AB86	77AB86	–
	208	–	–	–
	220	77AB83	77AB83	–
	240	77AB83	77AB83	–
	230...250	–	–	77D156

Mounting Accessories

	Description	Relays per Strip	Pkg. Qty.	Cat. No.
	Relay Rail • Simplifies panel layout • Indexed strips are easily cut to the required length and bolted, riveted, or spot-welded in place. • Relays are installed next to one another on the mounting strip with the captive mounting screws provided • Rows of relays on Relay Rail form their own wiring trough • Can be used with the following relays: – 700P – 700DC-P – 700S-P – 700N – 700-R – 700-RTC	4	5	700-MP4
		8	5	700-MP8
		12	5	700-MP12
		16	5	700-MP16
	DIN (#3) symmetrical hat rail • 35 mm x 7.5 mm x 1 m		10	199-DR1
	DIN Rail Adapter • Can be used with the following relays: – 700P – 700DC-P – 700S-P – 700N – 700-R – 700-RTC		1	700-DRA

Front Deck

	Description		Cat. No.
	Front Deck • For Bulletin 700-R and 700DC-R 2-, 3-, and 4-pole relays	1 N.O. contact (700-R relay)	700-RA10
		1 N.C. contact (700-R relay)	700-RA01
		1 N.O. contact (700-RM relay)	700-RB10
		1 N.C. contact (700-RM relay)	700-RB01

Contact Cartridges

	Description	Cartridge Type	Color	Cat. No.
	Contact Cartridges • Used to increase no. of poles in a relay • N.O., N.C., and Dummy cartridges are interchangeable • Dummy cartridges should be placed in unused cartridge slots to guard against entrance of foreign material.	N.O.	Green	700-CR5
		N.C.	Yellow	700-CR6
		Dummy	Black	700-CR9

Surge Suppressors

	Description		Pkg. Qty.	Cat. No.
	Surge Suppressor When the circuit to a DC operating coil is opened, the inductive energy stored in the coil can generate very high transient voltages. With the addition of the appropriate surge suppressor, the stored energy is absorbed and dissipated, limiting the voltage spikes. • not required with AC 700-R or -RM relays because the AC operating coil transients are suppressed by a full wave rectifier connected to the coil	24...48V AC/DC	1	199-FSMA9
		50...120V AC/DC	1	199-FSMA10
		130...250V AC/DC	1	199-FSMA11

Specifications

Application Data

Because of the inherent characteristics of this device, the normally open contacts may close before the normally closed contacts open on energization and the normally closed contacts may close before the normally open contacts open on de-energization.

Table 127 - Ratings

AC Voltage						DC Voltage			
NEMA Rating Designation	Voltage		Make	Break	Continuous Carrying Current [A]	NEMA Rating Designation	Volts DC	Make/Break	Continuous Carrying Current [A]
B300	Up to 300V AC	120V	30	3	5	NEMA P300	46...300	138VA	5
		240V	15	1.5					
C600	Above 300V AC	480V	3.75	0.375	2.5		5...46	3 A	5
		600V	3.0	0.30					

Table 128 - Maximum Allowable Off-State Leakage Current

Voltage	Maximum Off-State Leakage Current [mA]
	Type R
24V DC	23
24V AC	23
120V AC	5

Table 129 - Relay Data

Type		700-R
Contact Arrangement		Up to 8 poles, available in any combination of N.O. or N.C. contacts
Contact Material		W (tungsten in a controlled gas atmosphere)
Coil Voltage Range		24...250V AC 24...250V DC
Coil Power	Sealed Voltage Range: -15... +10%	5.5VA, 50/60 Hz 5.5 W DC
	Inrush	5.5VA, 50/60 Hz 5.5 W DC
Pickup Time		30 ms
Dropout Time		30 ms
Operating Temperature		-40...+60 °C (-40...+140 °F)
Mounting		Panel mount
Haz. Loc. Ratings		Class I, Division 2, Groups A, B, C, and D
Standards Compliance		
Certifications		

Table 130 - Standards Compliance and Certifications

Type	700-R
Standards Compliance	ISA 12.12, CSA C22.2, No. 213, EN/IEC 60947-1, -5-1
Certifications	cULus Listed (File No. E10314, Guide NOIV/NOIV7), CE Marked

Approximate Dimensions

Approximate dimensions are shown in millimeters (inches).
Dimensions are not intended for manufacturing purposes.

700-R Relays													
Type of Relay	No. of Poles	Open Type Without Enclosures					Approx. Ship Wt. [kg (lb)]	Type 1 General-purpose Enclosure					Approx. Ship Wt. [kg (lb)]
		Drawing Number	A Wide	B High	C Deep	D		A Wide	B High	C Deep	D	E	
700-R, 700DC-R	2...4	1	55.56 (2-3/16)	88.90 (3-1/2)	92.25 (3-3/8)	79.38 (3-1/8)	0.91 (2)	104.78 (4-1/8)	185.74 (7-5/16)	103.19 (4-1/16)	146.05 (5-3/4)	85.73 (3-3/8)	1.81 (4)
	5...8	2	55.56 (2-3/16)	88.90 (3-1/2)	111.13 (4-3/8)	79.38 (3-1/8)	1.02 (2-1/4)	112.71 (4-7/16)	228.60 (9)	120.65 (4-3/4)	206.38 (8-1/8)	92.08 (3-5/8)	2.49 (5)

Figure 127 - 700-R400...

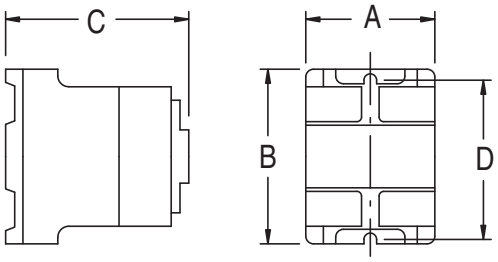


Figure 128 - 700-R800...

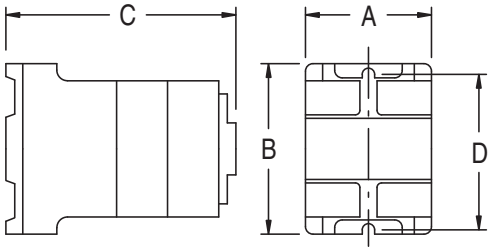


Figure 129 - Type 1 Enclosure

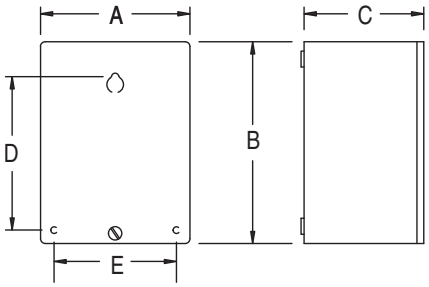
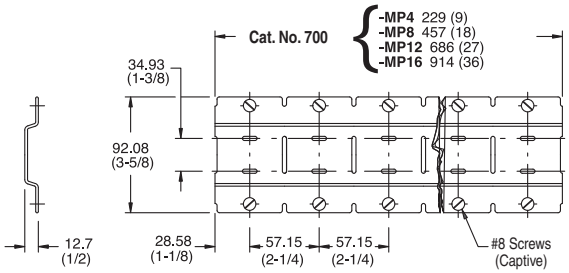
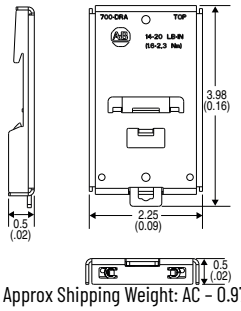


Figure 130 - Relay Rail for 700-P, -N, -NM, -R, -RM, -RT, -RTA Relays



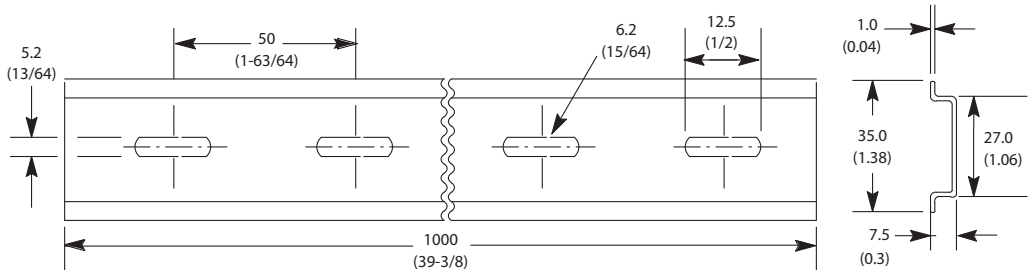
Secure the mounting strip with two screws at each end relay position.
Use a minimum of one screw at the 3rd, 5th, 7th, etc., relay positions.
Alternate between upper and lower horizontal slots.

Figure 131 - Cat. No. 700-DRA DIN Rail Adapter



Approx Shipping Weight: AC – 0.97 kg (2.13 lb), DC – 1.62 kg (3.58 lb)

Figure 132 - Cat. No. 199-DR1 DIN Mounting Rail, Series B



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