The 255 Series is a Dual-Coil Latching version of the 219 relay that is used in many applications including Nuclear.



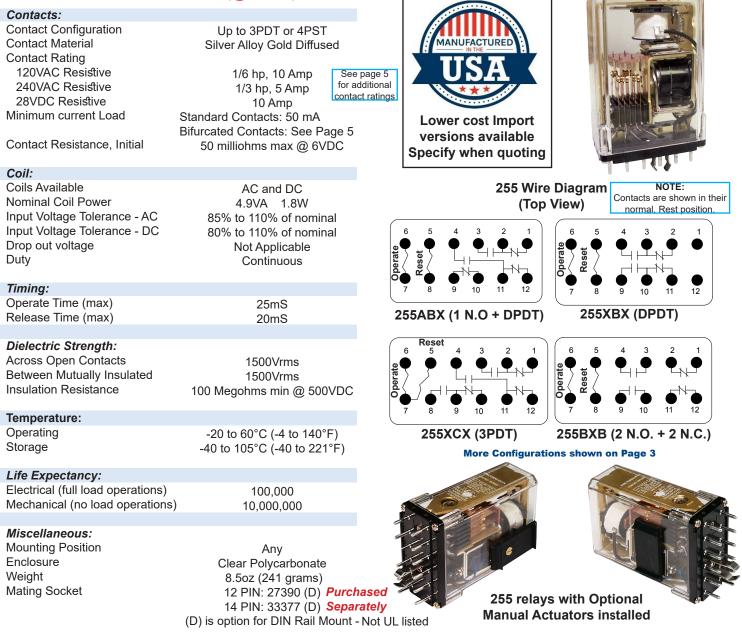
(† 1)

When the operate coil is momentarily energized, contacts transfer and remain so even after coil power is removed. The Reset coil, when momentarily energized, provides electrical reset of the contacts.

Armatures are mechanically interlocked to hold the position to high shock and vibration Nuclear standards. •Optional Manual Set and/or Reset actuators for manual override - must be specified when ordering. •All contacts operate from a common armature to prevent contact overlapping.

Coils are rated for continuous duty. Both coils can be energized at the same time with no damage. The operate coil is dominant.

GENERAL SPECIFICATIONS (@ 25° C)





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UL Contact Load Ratings

Contact Configuration	Current / HP	Load Voltage	Load Frequency	Type of Load
	10 Amp	120 VAC	50/60Hz	Resistive
	5 Amp	240 VAC	50/60Hz	Resistive
All Styles	10 Amp	28 VDC	DC	Resistive
EXCEPT	0.5 Amp	125 VDC	DC	Resistive
Code 33	1/6HP	120 VAC	50/60Hz	Motor
	1/3HP	240 VAC	50/60Hz	Motor
	5 Amp	120 VAC	50/60Hz	General Purpose
Code 33	2.5 Amp	240 VAC	50/60Hz	General Purpose

Additional UL Ratings for code "69" relays incorporating a blowout magnet.

Contact Configuration	Current / HP	Load Voltage	Load Frequency	Type of Load
All Styles EXCEPT Code 33	3 Amp 1Amp	125 VDC 250 VDC	DC DC	Resistive Resistive

See the next page for additional Contact Ratings

Use Code "33" for bifurcated contacts when switching low level current below 50mA.

Coil Specifications

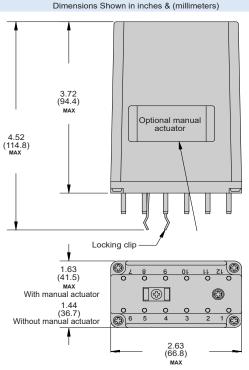
*AC Coil, 50/60HZ						
Reset co	Reset coil (3VA) Operate Coil (5VA)					
Nominal	Resistance	Coil Power	Resistance	Coil Current		
voltage	ohms	(mA)	ohms	(mA)		
	±10%	±10%				
6	6	1000	1.10	5454		
12	21	571	4.20	2857		
24	85	282	15.5	527		
120	2250	53	540	222		
240	9110	26	2150	112		

Current inrush on all AC coils is less than twice the listed milliamperes ratings as shown in the AC coil data table. *Currents shown in table measured at 60Hz

DC Coil				
Reset coil (1.4W) Operate Coil (1.8W)				
Nominal	Resistance	Coil Current	Resistance	Coil Current
voltage	ohms	(mA)	ohms	(mA)
	±10%	±10%		
6	32.1	187	15.5	385
12	120	100	63.5	189
24	360	67	250	96.0
48	1800	26.7	975	49.2
115/125	8000	14.4	6200	20.0
250	24600	10.2	27777	9.0
DC roleva 1.8 Watta (2.5 Watta @ 125VDC)				

DC relays, 1.8 Watts (2.5 Watts @ 125VDC)

Outline Dimensions



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Our series 255 is a Mechanical Latching Relay:

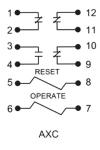
- Our 255 Latched relay can remain in that state until it is released electrically or by using an optional manual reset button.
- The 255 has a variety of contact combinations that can be used making it a very versatile relay.
- Our contacts have a Gold diffused plating for long life and lower contact resistance.
- Our standard contacts operate at from 50 mA up to 10A depending on the voltage and optional Bifurcated contacts that operate below 50 mA up to 5A. Both types can be used on the same relay as an option.
- The wiping action of the contact blades and the higher contact pressures used assure that oxidation that can form on ordinary contacts over a period of time are mechanically cleaned with each activation.
- Duty cycle is continuous.
- If needed, both coils can be energized at the same time because the operate coil is dominant. Interrupting the voltage to the operate coil will unlatch the relay.
- 255 has higher and longer reliability and are used a variety of applications from Airport runways to Nuclear plants and airport runways for examples.
- The 255 Relay functions in sever ambient temperatures.

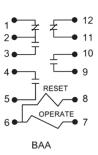
Also, the 255 is qualified.

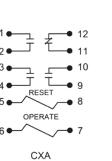
- IEEE 344 project;
- Mild EQ aging assessment
 - o Justified 1.0E+5 Rads γ
 - o supports 40 service life @ 104°F with assumption of AOO of 120°F.
 - o Measured coil temperature rise
 - o Simulated operation aging
- Seismic sequence: resonance search, five (5) OBEs, four (4) SSEs
 - o SSE RRS (#1 #3) peak of ~10g horizontal and ~7 g vertical; and ZPA of 1.9g.
 - o SSE #4 was High-g test peak of 15g horizontal and 10g vertical

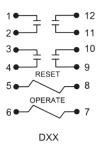
Note: The above qualification was done by Framatome. For further information please contact Framatome at www.us.areva-np.com









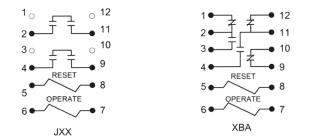


MANUFACTURE

Lower cost Import

versions available

Specify when quoting





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Series 255 Part Numbering System

	255	XBX	*69 P	L M V1 33 N	120VAC
Series Part Number: ┥		1.1	- I -	1.1	1.1
Contact Type :					
Standard 10 Amp Gold	Diffused Silver Alloy (minimum 50 mA	()		
Bifurcated – 5 Amp Go					
Contact Combination: Standa	[.] d – 12 Pin Plug (other	s available)			
XBX (DPDT) (2 Form C)					
XCX (3PDT) (3 Form C)					
AAX (SPST- NO & SPDT)	(1 Form A & 1 Form C))			
AAB (SPST & SPDT & DP	ST-NC) (1 Form A & 1 F	Form C & 2 Form	n B)		
ABX (SPST- NO & DPDT)	(1 Form & 2 Form C)				
AXB (SPST- NO & 2PST-	NC) (1 Form A & 2 For	rm B)			
AXC (SPST- NO, 3PST- N	C) (1 Form A, 3 Form, E	3			
BAA (DPST & SPDT & SP	ST-NC) (2 Form A & 1 F	Form C & 1 Form	n B)		
BXB (DPST- N0 & DPST-	NC) (2 Form A & 2 For	rm B)			
XBA (DPDT & SPST- NC)	(2 Form C & 1 Form B))			
CXA (3PST- NO & SPST-	NC) (3 Form A & 1 Forr	m B)			
DXX (4PST- NO) (4 Form	A)				
XXD (4PST- NC)(4 Form	і B)				
HXX (SPST- NO-DM) (Fo	rm X)				
XXH (SPST- NC-DB) (1 Fo	vrm Y)				
HXH (SPST-NO-DM & SP	ST-NC-DB) (1 Form X 8	& 1 Form Y)			
JXX (DPST- NO-DM) (2 F	orm X)				
XXJ (DPST- NC-DB) (2 Fo	orm Y)				
XHX (SPDT- DM-DB) (1 F	orm Z)				
Other special options availab	le – 14 Pin, special adjustm	ents, special wiring,	, octal plug		
Enclosure:					
Lexan Finger Protective	Cover – P (Standard))			
Other special options availab	le – Gasket sealed cover, co	lored covers			
Other Option Codes: 🛛 🔶					
Blowout Magnet – Code			# order		
LED indicator – Code L					
Manual Actuator – Code			g Manual Actu	ator)	
Coil Suppression Diode					
AC Coil - Arc Suppressio	=	• • •	-		
Bifurcated Contacts – Co	ode 33 (5 Amp@120)	VAC UL - Rated) (Special option - m	ixed bifurcated and standara	contacts)
Cover Gasket - Code N					
Other special options availab		AF) Network across	coil,		
Coil Voltage – Class B, 105C Ir	•				
VAC – 6, 12, 24, 120, 20					
VDC - 6, 12, 24, 48, 110, Other special options available	-	voltages Arc Suppre	ssor (back FMF) N	etwork across coil	

Other special options available: special coil resistances & voltages, Arc Suppressor (back EMF) Network across coil



Additional Contact Ratings

Switching Type

Make & Break

Make & Carry

Make & Break

Make & Carry

Carry & Break

Make & Carry

Carry & Break

Make & Carry

Carry & Break

Make & Break

Highest Load for Standard Contacts

Current, A

10A 10A

5A

10A

4A

3A

0.5A, Inuctive

4A

1.1A, Inductive

4A

2A

1A

0.15A, Inductive

1.5A

0.55A, Inductive

10A, 3A Inductive, 1/6 HP

10A, 1/3 HP

10A

7A

4.5A

Voltage

28 VDC, "69"

48 VDC, "69"

125 VDC, "69"

125 VDC, "69"

250 VDC, "69"

250 VDC, "69"

120 VAC

240 VAC

277 VAC

Lowest Loa	d for Bi	furcated	Contacts
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*Current - A, Resistive unless otherwise noted

Voltage	Current, A	Switching Type
5 VDC	0.1A	Make & Break
12 VDC	0.075A	Make & Break
28 VDC	0.01A	Make & Break
48 VDC	0.005A	Make & Break
125VDC	0.005A	Make & Break
250 VDC	0.001A	Make & Break
120 VAC	0.01A	Make & Break
240 VAC	0.005A	Make & Break
480 VAC	0.001A	Make & Break

Highest Load for Bifurcated Contacts

*Current - A, Resistive unless otherwise noted

Voltage	Current, A	Switching Type
	5A	Make & Carry
28 VDC	3A	Carry & Break
	2.5	Make & Break
	3A	Make & Carry
48 VDC	2A	Carry & Break
	1.5A	Make & Break
	1A	Make & Carry
125VDC	0.5	Carry & Break
	0.25	Make & Break
	0.5A	Make & Carry
250 VDC	0.25A	Carry & Break
	0.1A	Make & Break
	5A	Make & Carry
120 VAC	3A	Carry & Break
	5	Make & Break
	2.5A	Make & Carry
240 VAC	1.5A	Carry & Break
	2.5 A	Make & Break
	2.5A	Make & Carry
277 VAC	1.5A	Carry & Break
	1.0A	Make & Break
480.1/4.0	0.5A	Make & Carry
480 VAC	0.2A	Make & Break

Lowest Load for Standard Contacts

*Current - A, Resistive unless otherwise noted

Voltage	Current, A	Switching Type
5 VDC	1A	Make & Break
12 VDC	0.75A	Make & Break
28 VDC	0.050A	Make & Break
48 VDC	0.050A	Make & Break
125VDC	0.050 A	Make & Break
250 VDC	0.050A	Make & Break
120 VAC	0.050A	Make & Break
240 VAC	0.050A	Make & Break
480 VAC	0.050A	Make & Break

