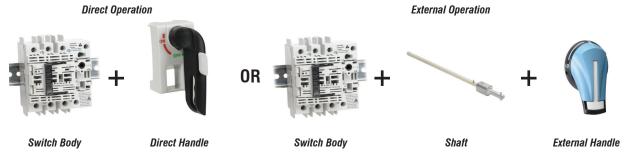


To assemble a switch, please select:



UL 498 Compact Fusible Disconnect Switches								
Part Number	Description	Frame Size	Fuse Type	Price				
37103003	Compact UL 489 fusible front operated switch, 30A, 600VAC, 3-pole							
37104003	Compact UL 489 fusible front operated switch, 30A, 600VAC, 3-pole with switched neutral	1	Class CC					
<u>37105003</u>	Compact UL 489 fusible front operated switch, 30A, 600VAC, 3-pole with unswitched neutral							
<u>37103004</u>	Compact UL 489 fusible front operated switch, 30A, 600VAC, 3-pole							
<u>37104004</u>	Compact UL 489 fusible front operated switch, 30A, 600VAC, 3-pole with switched neutral	2	Class J					
<u>37105004</u>	Compact UL 489 fusible front operated switch, 30A, 600VAC, 3-pole with unswitched neutral							

		Handles					
Part Number	Description	Switch Body Rating (A)	Handle Color	Handle Type	NEMA/ UL Type	Test	Price
<u>37294012</u>	Direct handle for class CC disconnect switches*	30	Black	-	-	-	
<u>37294014</u>	Direct handle for class J disconnect switches*	30	Black	-	-	-	
14930111		30	Black/Blue	S0	4 20 40	I - O	
14940111		30	Red/Yellow	S0	1, 3R, 12	I-0	
149D0111		30	Black/Blue	S0	4, 4X	I - O	
<u>149E0111</u>		30	Red/Yellow	S0		I - O	
<u>141F2111</u>	Front operation handle for compact UL 489	30	Black/Blue	S1	4 20 40	I - O	
<u>141G2111</u>	fusible disconnect switches, defeatable and lockable	30	Red/Yellow	S1	1, 3R, 12	I - O	
<u>141D2111</u>		30	Black/Blue	S1		I-0	
<u>141E2111</u>		30	Red/Yellow	S1		I-0	
<u>141D2115</u>		30	Black/Blue	S1	4, 4X	I - O - Test	
<u>141E2115</u>		30	Red/Yellow	S1		I - O - Test	
141D2911	External heavy duty front handles,	30	Black/Blue	S1	4.4V	I-0	
<u>141E2911</u>	shaft required**	30	Red/Yellow	S1	4, 4X	I-0	

* Defeatable

**Heavy duty handles have larger metal hasp to accommodate multiple locking devices.

Shafts for External Handles								
Part	Switch Body	Handle	Ler	igth	Price			
Number	Rating (A)	Туре	in	mm	Price			
<u>14050620</u>		S0	7.9	200				
14050632			12.6	320				
<u>14050640</u>	20		15.7	400				
<u>14010520</u>	30		7.9	200				
<u>14010532</u>		S1	12.6	320				
<u>14010540</u>			15.7	400				



Circuit Protection tCPR-116

FUSERBLOC UL 489 Compact Fusible Disconnect Switches

Shaft Guide for External Handle								
Part Number	Description	Fits Handle Type	Price					
14290000	This accessory makes alignment connections between the shaft and	S01, S1, S2, S3						
<u>14190000</u>	handle easier. Allows up to 15mm misalignment tolerance. Required for a shaft length longer than 300mm. Included with longer shafts.	S00, S0						

	Auxiliary Contacts									
Part Number	Description	Switch Body Rating (A)	Contacts	Price						
<u>39990701</u>	Front mount auxiliary contacts can be configured to be		1 NO							
<u>39990702</u>	operated on standard and TEST position switches. Each slot can accommodate up to 2 interlocked auxiliary contacts. 3A @ 240VAC.	30 - 600	1 NC							
	For 30 to 200A/J, maximum of 4 auxiliary contacts.									

	Contact Holder for Additional Auxiliary Contacts								
Part Number			Fuse Types	Price					
<u>39990710</u>	Additional auxiliary contact holder, side mount. For use with Class CC and J FUSERBLOC compact 30A fused switch bodies. Holds a maximum of 4 (2 wide x 2 high).	30	Class CC / J						

	NFPA 79 "Through the Door" Kit								
Part Number			Frame Size	Price					
<u>37294532</u>	Allows retrofit of installations for 30A ratings. Meets both UL 508A and NFPA 79 requirements. Order an S1-type external handle separately.	30	1, 2						

	(II) (E) HETER (77)K ING CONE ED Kade in Fiance		P
「山		I	

14290000









A B

39990710



Technical Characteristics

Characteristics According to UL 489 / CSA 22.2#5							
	37103003, 37104003 37105003	37103004, 37104004 37105004					
General use rating (A)	30	30					
Short circuit rating at 600VAC (kA)	100	100					
Type of fuse	CC	J					
Maximum fuse rating (A)	30	30					
Operational power (hp) / current max operat	ion 3-phase (A)						
220-240 VAC	7.5 / 22	7.5 / 22					
440-480 VAC	15 / 21	15 / 21					
600VAC	20 / 22	20 / 22					
125VDC ¹	3 / 25	3 / 25					
250VDC ²	5 / 20	5 / 20					
Product weight – lb (kg)	1.3 (0.6)	1.4 (0.6)					
Environmental – switch body							
Operating temperature ³	-20°C to 70°C ((-4°F to +158°F)					
Flammability rating	UL 9	4-V0					
Mechanical endurance							
Endurance (number of operating cycles)	10,000	10,000					
Operating torque – lb∙in (N⋅m)	3.5 (0.4)	3.5 (0.4)					
Mounting	35mm DIN rail	or panel mount					
Connection							
Min. connection cross-section (AWG) ²	#14	#14					
Max. connection cross-section (AWG) ²	#10	#10					
Torque – Ib∙in (N∙m)	27 (3)	27 (3)					
Agency Approvals							
UL file # E255272 (UL 489, C22.2 No.5) Accessories UL file # 201138, CSA 112964							

¹ 2 poles in series

² 3 poles in series

³ Temperatures above 40°C, the current rating of the switch has to be derated 1% per °C over 40°C. Example, at 60°C a 100A switch is rated 80A

Note: Short-circuit rating achieved when used with corresponding fuse type and max fuse rating.

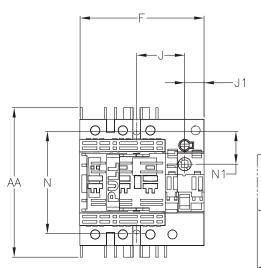
To obtain the most current agency approval information, see the Agency Approval Checklist section on the specific part number's web page.

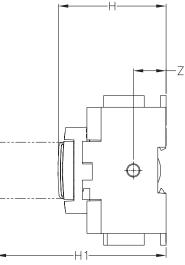




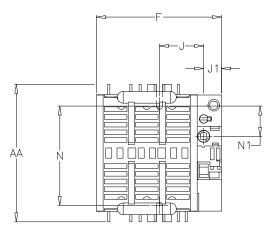
[inches/mm]

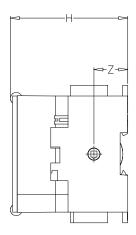






Class J



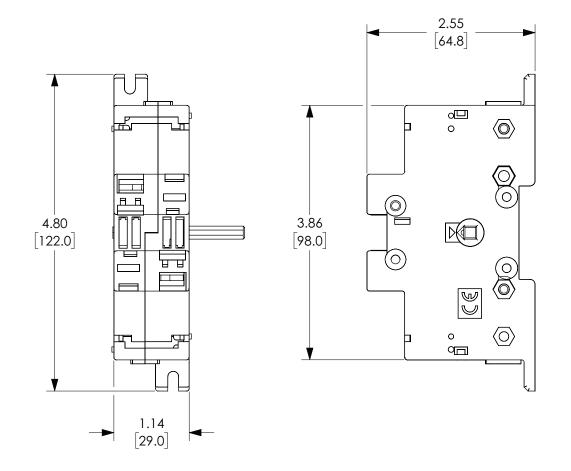


Dimensions										
Switch Body	vitch Body			Switch Mounting		Connection				
Rating (A)	Unit	F	H	H1	J	J1	N	N1	AA	Z
30	in	3.78	3.28	5.19	1.47	0.59	3.13	1	4.56	1.12
Class CC	mm	96	83.5	132	37.5	15	79.5	25.5	116	28.5
30	in	4.13	3.89	-	1.47	0.59	3.30	1	4.56	1.12
Class J	mm	105	99	-	37.5	15	84	25.5	116	28.5



39990710 Contact Holder for Additional Auxiliary Contacts

Dimensions in inches [mm]

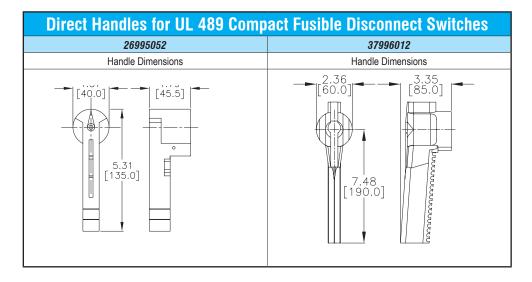


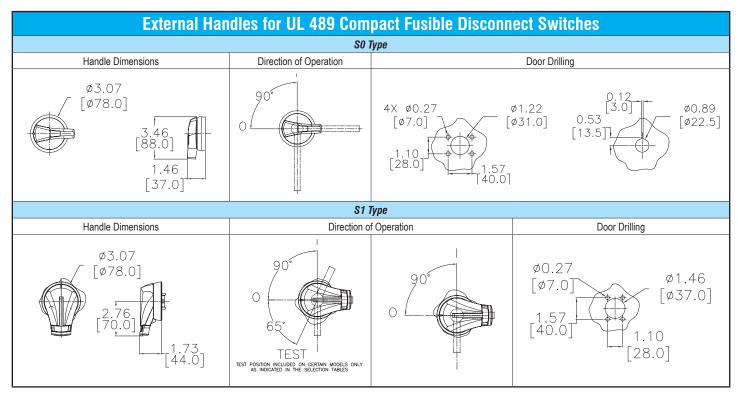
Accessories Dimensions



Handles

[inches/mm]





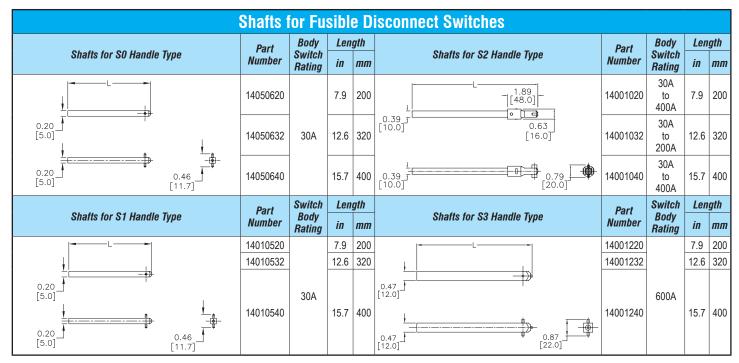
Note: Test position included on certain models only as indicated in the selection tables.

Accessories Dimensions

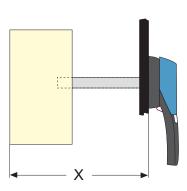


Shafts for Fusible Disconnect Switches

[inches/mm]



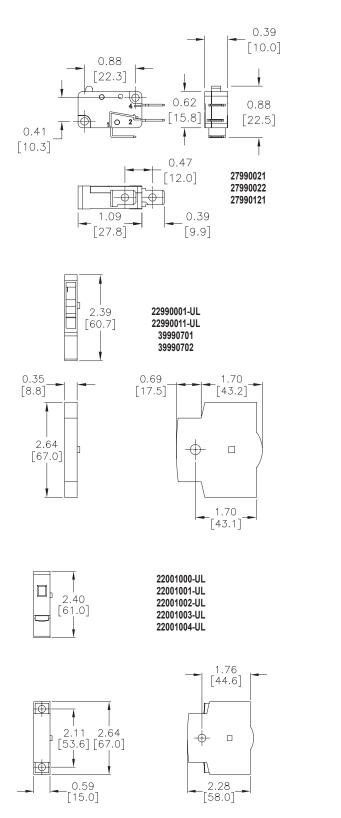
Shaft Length Minimum Dimensions								
Use standard lengths: –7.9 in / 200mm – 12.6 in / 320mm – 15.7 in / 400mm								
Switch Body	Dimen	sion X	Handle	Len	gth	Part		
Rating (A)	in	mm	Туре	in	mm	Number		
30	4.02 - 9.65	102 - 245	S0	7.9	200	14050620		
30	4.02 - 14.37	102 - 365	S0	12.6	320	14050632		
30	4.02 - 17.52	102 - 445	S0	15.7	400	14050640		
30	4.02 - 9.65	102 - 245	S1	7.9	200	14010520		
30	4.02 - 14.37	102 - 365	S1	12.6	320	14010532		
30	4.02 - 17.52	102 - 445	S1	15.7	400	14010540		
30 - 100	5.3 - 9.06	135 - 230	S2	7.9	200	14001020		
200	5.7 - 9.06	145 - 230	S2	7.9	200	14001020		
400	7.87 - 10.24	200 - 260	S2	7.9	200	14001020		
30 - 100	5.3 - 13.78	135 - 350	S1, S2	12.6	320	14001032		
200	5.7 - 13.78	145 - 350	S2	12.6	320	14001032		
400	7.87 - 14.96	200 - 380	S2	12.6	320	14001032		
30 - 100	5.3 - 16.93	135 - 430	S1, S2	15.7	400	14001040		
200	5.7 - 16.93	145 - 430	S2	15.7	400	14001040		
400	7.87 - 18.1	200 - 460	S2	15.7	400	14001040		
600 - 800	10.63 - 11.97	270 - 304	S3	7.9	200	14001220		
600 - 800	10.63 - 16.69	270 - 424	S3	12.6	320	14001232		
600 - 800	10.63 - 19.84	270 - 504	S3	15.7	400	14001240		



Accessories Dimensions

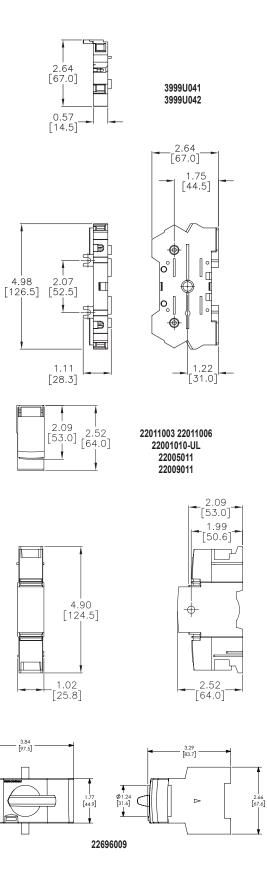
Auxiliary Contacts and Additional Poles

[inches/mm]



Please see our website for complete engineering drawings.







Disconnect Switches

Introduction

UL[®]/CSA[®] Standards for Disconnect Switches

UL 98 – Enclosed and Deadfront Switches (CSA C22.2 No. 4)

These requirements cover enclosed or deadfront switches, with or without provision for fuses, at 600V or less. These products are used as disconnecting means without restrictions; they are heavy-duty products requiring 2 inches (50mm) minimum of creepage distance between phases, which gives maximum safety for users and installation. The short-circuit withstand of these products goes up to 200kA.

UL 489 – Molded Case Switches (CSA C22.22 No. 5)

These requirements cover molded case circuit breakers, molded case switches and fused molded case switches, rated at 600V or less and 6000A or less.

NFPA® 79 Electrical Standard for Industrial Machinery

The following types of machines are identified as industrial machinery:

- Metalworking machine tools, including machines that cut or form metal
- Plastics machinery
- Wood machinery, including woodworking, laminating and sawmill machines
- Assembly machines
- Material handling machines, including industrial robots and transfer machines
- Inspection and testing machines, including coordinate measuring and in-process gauging machines

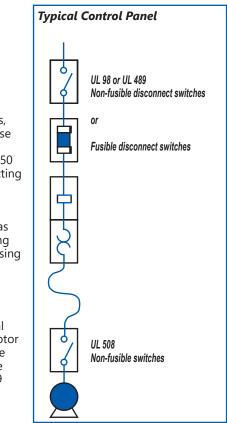
UL[®] Standards for Electrical Machinery

UL 508 – Industrial Control

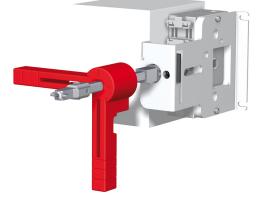
Equipment (CSA C22.2 No. 14)

These requirements cover manual, magnetic and solidstate starters and controllers, overload relays, pushbuttons, selector switches and control lights. These products are smaller, requiring only a creepage distance between phases of 0.50 inch (12.7 mm). Their use as a disconnecting means is limited to local disconnection of motors. These products can be used as a disconnect means only when they have been additionally tested "suitable as motor disconnect." This additional testing ensures that the switch has a proper closing capacity on a short circuit.

UL 508 devices **cannot** be used as main disconnect of an electrical panel, e.g., at the entrance of control panels. A manual motor controller marked "suitable as motor disconnect" shall be installed only on the load side of the branch circuit protective device [UL 508A 30.3.3 and NEC 430.109 (6)].







Meeting the requirements of UL508A and NFPA79 The disconnect shall be operable independent of the door position.

The disconnect must be operable, by qualified persons, independent of the door position without the use of accessory tools or devices. **Note:** NFPA 79; Paragraph 5.3.3.1 (5).

An operating mechanism for the disconnecting means shall be operable independent of the door position without the use of accessory tools or devices. **Note:** UL 508A; Paragraph 66.6.3 c.