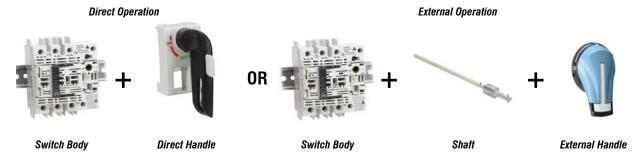
1-800-633-0405 **FUSERBLOC UL 489 Compact Fusible Disconnect Switches**



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			\$114.00					
37104003	Compact UL 489 fusible front operated switch, 30A, 600VAC, 3-pole with switched neutral	1	Class CC	\$147.00					
37105003	Compact UL 489 fusible front operated switch, 30A, 600VAC, 3-pole with unswitched neutral			\$140.00					
<u>37103004</u>	Compact UL 489 fusible front operated switch, 30A, 600VAC, 3-pole			\$114.00					
<u>37104004</u>	Compact UL 489 fusible front operated switch, 30A, 600VAC, 3-pole with switched neutral	2	Class J	\$147.00					
37105004	Compact UL 489 fusible front operated switch, 30A, 600VAC, 3-pole with unswitched neutral			\$141.00					

		Handles					
Part Number	Description	Switch Body Rating (A)	Handle Color	Handle Type	NEMA/ UL Type	Test	Price
37294012	Direct handle for class CC disconnect switches*	30	Black	-	-	-	\$20.50
<u>37294014</u>	Direct handle for class J disconnect switches*	30	Black	-	-	-	\$20.50
<u>14930111</u>		30	Black/Blue	S0		I-0	\$23.50
14940111		30	Red/Yellow	S0	1, 3R, 12	I - O	\$23.50
149D0111		30	Black/Blue	S0	4, 4X	I - O	\$28.50
149E0111		30	Red/Yellow	S0		I - 0	\$28.50
<u>141F2111</u>	Front operation handle for compact UL 489	30	Black/Blue	S1	1, 3R, 12	I - O	\$31.50
141G2111	fusible disconnect switches, defeatable and lockable	30	Red/Yellow	S1		I - 0	\$31.50
141D2111		30	Black/Blue	S1		I - O	\$40.00
<u>141E2111</u>		30	Red/Yellow	S1		I-0	\$40.00
<u>141D2115</u>		30	Black/Blue	S1	4, 4X	I - O - Test	\$42.50
<u>141E2115</u>		30	Red/Yellow	S1		I - O - Test	\$42.50
<u>141D2911</u>	External heavy duty front handles,	30	Black/Blue	S1	4.47	I-0	\$46.50
141E2911	shaft required**	30	Red/Yellow	S1	4, 4X	I-0	\$46.50

* Defeatable

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

Shafts for External Handles							
Part	Switch Body	gth	Price				
Number	Rating (A)	Туре	in	mm	FIICE		
<u>14050620</u>			7.9	200	\$10.00		
14050632		S0	12.6	320	\$12.50		
14050640	20		15.7	400	\$12.50		
<u>14010520</u>	30		7.9	200	\$9.25		
14010532		S1	12.6	320	\$10.50		
<u>14010540</u>			15.7	400	\$12.50		

S1 Handle 141F2111 14050620 <u>14010520</u>

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1-800-633-0405 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	\$6.25					
<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	\$2.50					



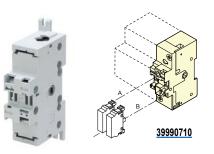
14290000

	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	\$8.75							
<u>39990702</u>	operated on standard and TEST position switches. Each slot can accommodate up to 2 interlocked auxiliary contacts. 3A @ 240VAC. For 30 to 200A/J, maximum of 4 auxiliary contacts.	30 - 600	1 NC	\$8.75							



<u>39990701</u>

Contact Holder for Additional Auxiliary Contacts								
		Switch Body Rating (A)	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	\$13.50				



S. C. M.
<u>37294532</u>

	NFPA 79 "Through the Door" Kit								
Part Number	Description	Switch Body Rating (A)	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	\$43.50					

FUSERBLOC UL 489 Compact Fusible Disconnect Switches



Technical Characteristics

Characteristics According to UL 489 / CSA 22.2#5								
	<u>37103003, 37104003</u> <u>37105003</u>	<u>37103004, 37104004</u> <u>37105004</u>						
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 operati	on 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 – Ib∙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.

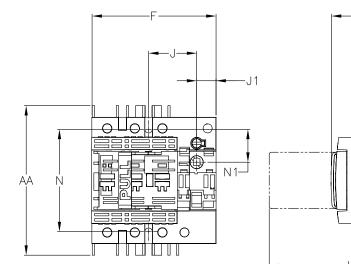


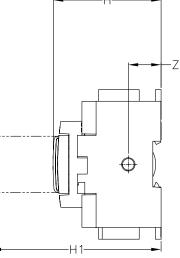
FUSERBLOC UL 489 Compact Fusible Disconnect Switches

Dimensions

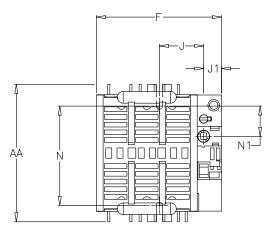
[inches/mm]

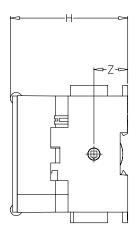
Class CC





Class J





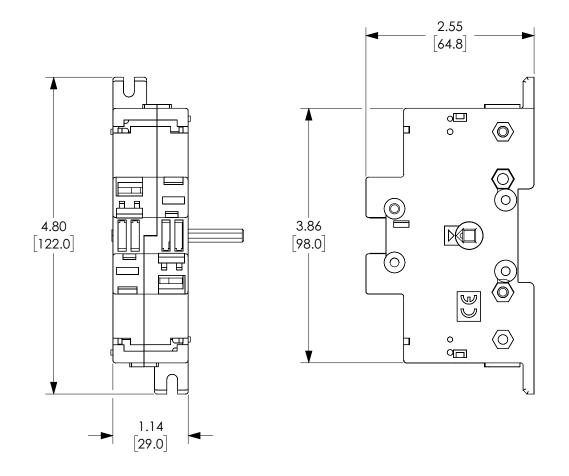
Dimensions										
Switch Body	11-2		Switch Body					Switch Mounting Connection		
Rating (A)	Unit	F	H	H1	J	J1	N	N1	AA	Z
30	in	3.78	3.28	5.19	1.47	0.59	3.13	1	4.56	1.12
Class CC	mm	96	83.5	132	37.5	15	79.5	25.5	116	28.5
30	in	4.13	3.89	-	1.47	0.59	3.30	1	4.56	1.12
Class J	mm	105	99	-	37.5	15	84	25.5	116	28.5

Please see our website <u>www.AutomationDirect.com</u> for complete engineering drawings.

FUSERBLOC UL 489 Compact Fusible Disconnect Switches

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<u>39990710</u> Contact Holder for Additional Auxiliary Contacts Dimensions in inches [mm]



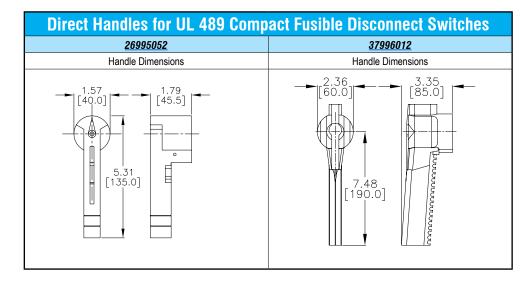
Please see our website <u>www.AutomationDirect.com</u> for complete engineering drawings.

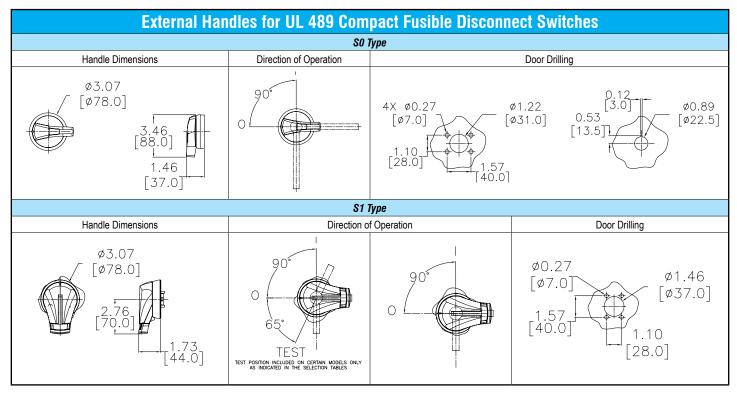
Accessories Dimensions



Handles

[inches/mm]





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

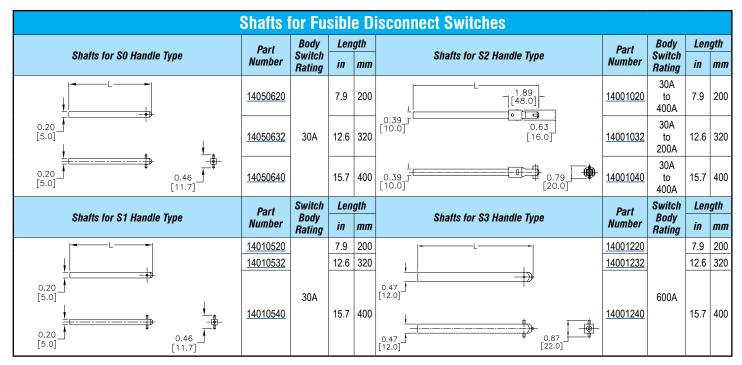
Please see our website www.AutomationDirect.com for complete engineering drawings.

Accessories Dimensions



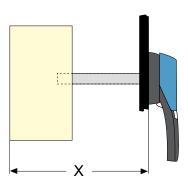
Shafts for Fusible Disconnect Switches

[inches/mm]



Please see our website <u>www.AutomationDirect.com</u> for complete engineering drawings.

	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	ngth	Part			
Rating (A)	in	mm	Туре	in	mm	Number			
30	4.02 - 9.65	102 - 245	S0	7.9	200	<u>14050620</u>			
30	4.02 - 14.37	102 - 365	S0	12.6	320	<u>14050632</u>			
30	4.02 - 17.52	102 - 445	S0	15.7	400	<u>14050640</u>			
30	4.02 - 9.65	102 - 245	S1	7.9	200	<u>14010520</u>			
30	4.02 - 14.37	102 - 365	S1	12.6	320	<u>14010532</u>			
30	4.02 - 17.52	102 - 445	S1	15.7	400	<u>14010540</u>			
30 - 100	5.3 - 9.06	135 - 230	S2	7.9	200	<u>14001020</u>			
200	5.7 - 9.06	145 - 230	S2	7.9	200	<u>14001020</u>			
400	7.87 - 10.24	200 - 260	S2	7.9	200	<u>14001020</u>			
30 - 100	5.3 - 13.78	135 - 350	S1, S2	12.6	320	<u>14001032</u>			
200	5.7 - 13.78	145 - 350	S2	12.6	320	<u>14001032</u>			
400	7.87 - 14.96	200 - 380	S2	12.6	320	<u>14001032</u>			
30 - 100	5.3 - 16.93	135 - 430	S1, S2	15.7	400	<u>14001040</u>			
200	5.7 - 16.93	145 - 430	S2	15.7	400	<u>14001040</u>			
400	7.87 - 18.1	200 - 460	S2	15.7	400	<u>14001040</u>			
600 - 800	10.63 - 11.97	270 - 304	S3	7.9	200	<u>14001220</u>			
600 - 800	10.63 - 16.69	270 - 424	S3	12.6	320	<u>14001232</u>			
600 - 800	10.63 - 19.84	270 - 504	S3	15.7	400	<u>14001240</u>			



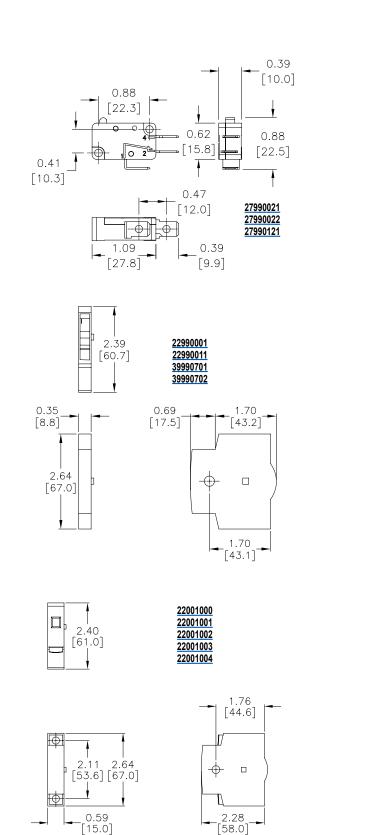
1-800-633-0405 **Accessories Dimensions**

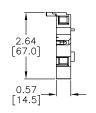


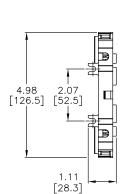
3999U041 3999U042

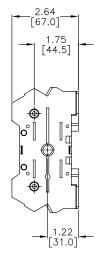
Auxiliary Contacts and Additional Poles

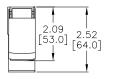
[inches/mm]



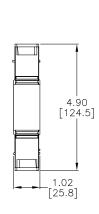


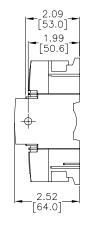


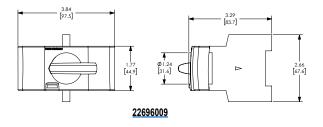












Please see our website www.AutomationDirect.com for complete engineering drawings.

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Disconnect Switches

Introduction

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

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

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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

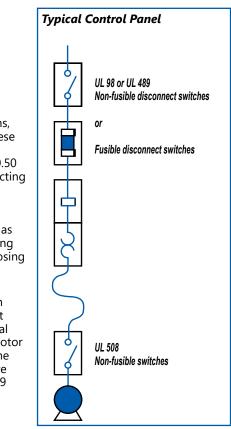
UL[®] Standards for Electrical Machinery

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.