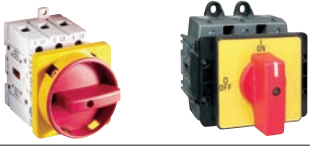


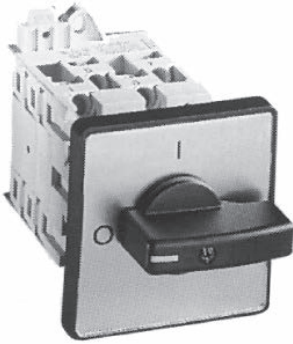


Bulletin 194 Line Overview

2

			
	Bulletin 194E	Bulletin 194L	Bulletin 194R Next Generation
<b>Product Type</b>	Inductive load-rated load switch	Inductive load-rated control/load switch	Fused and non-fused rotary disconnects
<b>Current Range</b>	16...315 A	12...40 A	30 A, 60 A
<b>Main Applications</b>	<ul style="list-style-type: none"> <li>UL, CSA ratings "suitable as at-motor disconnect"</li> </ul>	<ul style="list-style-type: none"> <li>UL, CSA ratings "suitable as at-motor disconnect"</li> </ul>	<ul style="list-style-type: none"> <li>UL 98 ratings "suitable as service entrance disconnecting means"</li> <li>UL 508, CSA ratings "suitable as at-motor disconnect"</li> </ul>
<b>Functionality</b>	<ul style="list-style-type: none"> <li>3- or 6-pole switch configurations for OFF-ON or changeover applications (16...100 A switches)</li> <li>3- or 4-pole switch configurations for OFF-ON or changeover applications (125...315 A switches)</li> </ul>	<ul style="list-style-type: none"> <li>1- to 6-pole multifunction switch control configurations for OFF-ON, changeover, Star-Delta (Wye-Delta), reversing, ammeter, voltmeter, and step switch applications</li> <li>Also available in custom control configurations up to 16 circuits for any unique control switching application.</li> </ul>	<ul style="list-style-type: none"> <li>3- or 4-pole fusible or non-fusible disconnect for standard OFF-ON or emergency stop in a main panel disconnect application</li> <li>4th pole available as modular accessory</li> <li>Test mode switch position</li> </ul>
<b>Mounting Styles</b>	Front/door or base/DIN Rail mounting	Front/door or base/DIN Rail mounting	Base/DIN Rail mounting
<b>Handles</b>	<ul style="list-style-type: none"> <li>Handle colors in grey/black and red/yellow and padlockable versions</li> <li>Legend plates available in 0-I international markings and text styles</li> </ul>	<ul style="list-style-type: none"> <li>Uniformly styled handles: selector knob, disk style, rectangular style, and key-operated versions (Type 1/12/3R, IP66)</li> <li>Handle colors in grey/black and red/yellow and padlockable versions</li> <li>Legend plates available in 0-I international markings and text styles</li> </ul>	<ul style="list-style-type: none"> <li>Available in rotary styles, UL Type 1/3R/4/4X/12, IP66, standard, or test mode versions</li> <li>Handle colors in black and red/yellow and padlockable versions</li> <li>30 A/60 A legend markers (optional) — uses Cat. No. 1492-MS6X12 markers</li> </ul>
<b>Open Switch or Enclosed</b>	<ul style="list-style-type: none"> <li>Open switch (large frame Bul. 194E — open style only)</li> <li>Enclosed: IP66 thermoplastic enclosure or UL/CSA rated enclosure</li> </ul>	<ul style="list-style-type: none"> <li>Open switch</li> </ul>	<ul style="list-style-type: none"> <li>Open switch</li> <li>Enclosed: UL/CSA rated enclosure</li> </ul>
<b>UL/CSA Electrical Ratings:</b>			
<b>Rated Voltage <math>U_e</math></b>	600V AC	600V AC	600V AC
<b>Rated Current <math>I_e</math></b>	16...315 A @ 600V	12...40 A @ 600V	30 A, 60 A @ 600V
<b>Rated Power <math>P_e</math> [FLA]</b>	Varies w/ 1- or 3-phase switch, voltage	Varies w/ 1- or 3-phase switch, voltage	Varies w/ 1- or 3-phase switch, voltage
<b>Short-Circuit Ratings</b>	5 kA	5 kA	200 kA
<b>Switching Rate [ops/h]</b>	120	120	180
<b>Mechanical Life [ops]</b>	<ul style="list-style-type: none"> <li>0.2 million (16...100 A switches)</li> <li>0.1 million (125 A and 160 A switches)</li> <li>0.075 million (250 A and 315 A switches)</li> </ul>	<ul style="list-style-type: none"> <li>1 million</li> </ul>	<ul style="list-style-type: none"> <li>10 000</li> </ul>
<b>IEC Rated Current <math>I_e</math></b>			
<b>AC-1</b>	16...315 A @ 600V	12...40 A @ 600V	20...63 A @ 690V
<b>AC-21A</b>	16...315 A @ 600V	12...40 A @ 600V	Varies w/ 1- or 3-phase switch, voltage
<b>AC-22A</b>	16...315 A @ 600V	12...40 A @ 600V	Varies w/ 1- or 3-phase switch, voltage
<b>Ambient Operational Temp.</b>	-25...+60 °C (-13...+140 °F)	-25...+60 °C (-13...+140 °F)	-20...+60 °C (-4...+140 °F)
<b>Ambient Enclosed Temp.</b>	-20...+60 °C (-4...+140 °F)	-20...+60 °C (-4...+140 °F)	-20...+60 °C (-4...+140 °F)
<b>Ambient Storage Temp.</b>	-40...+80 °C (-40...+176 °F)	-40...+80 °C (-40...+176 °F)	-40...+65 °C (-40...+149 °F)
<b>Protection class per IEC 529</b>	<ul style="list-style-type: none"> <li>Switch bodies: IP2</li> </ul>	<ul style="list-style-type: none"> <li>Switch bodies: IP2</li> </ul>	<ul style="list-style-type: none"> <li>Switch bodies: IP2</li> <li>Fuse carriers: IP30</li> </ul>
<b>Optional Accessories</b>	<ul style="list-style-type: none"> <li>IP66 handles</li> <li>Multi-length shafts and shaft extension kits</li> <li>Terminal covers</li> </ul>	<ul style="list-style-type: none"> <li>IP66 handles</li> <li>Multi-length shafts and shaft extension kits</li> <li>Terminal covers</li> </ul>	<ul style="list-style-type: none"> <li>IP66 handles</li> <li>Multi-length shafts</li> <li>Auxiliary contacts</li> <li>Terminal covers</li> <li>NFPA 79 internal handle</li> </ul>
<b>Standards/Certifications</b>	<ul style="list-style-type: none"> <li>UL 508</li> <li>CSA C22.2, No. 14</li> <li>IEC 60947-3 Low Voltage Switchgear and Controlgear part 3</li> <li>CE</li> </ul>	<ul style="list-style-type: none"> <li>UL 508</li> <li>CSA C22.2, No. 14</li> <li>IEC 60947-3 Low Voltage Switchgear and Controlgear part 3</li> <li>CE</li> </ul>	<ul style="list-style-type: none"> <li>UL 98, UL 508</li> <li>CSA C22.2, No. 14</li> <li>IEC 60947-3 Low Voltage Switchgear and Controlgear part 3</li> <li>CE</li> </ul>
<b>Product Selection</b>	<b>Page 2-405</b>	<b>Page 2-435</b>	<b>Page 2-454</b>



## Bulletin 194L IEC Control and Load Switches

- 12, 16, 20, 25, 32, and 40 A inductive load-rated switch
- IP66 water spray and dustproof handles
- IP20 finger-safe terminals
- Switches available for OFF-ON, changeover, star-delta (wye-delta), reversing, ammeter, voltmeter and step switch configurations
- 1...6-Pole versions
- Front/door- or base/ DIN Rail-mounting configurations
- Thermoplastic enclosures IP66
- Suitable as motor disconnect (UL 508)

Bulletin 194L control and load switches are flexible, adaptable, time- and space-saving devices. Switches are available as front/door- or Base/DIN rail-mounting versions. Uniformly styled handles, featuring marked legend plates, are available in Selector-Knob, Disk-Style, Rectangular-Style and Key-Operated versions. Selector-Knob versions are available in three sizes. Most handles are available in grey/black or red/yellow and have padlockable versions.

A new thermoplastic enclosure features constructions of impact-resistant ABS or corrosion resistant NORYL materials. Both shallow and deep versions include 35 mm DIN mounting Rail, grounding and neutral terminals, and captive cover screws. Enclosures may be ordered with or without cover openings for handle mounting. Enclosures are rated for use in IP66 (UL Type 1, 3, 3R, 12) environments.

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 Product Selection ..... 2-435  
 Accessories..... 2-440  
 Switching Diagrams.. 2-442  
 Specifications..... 2-448  
 Approximate Dimensions..... 2-449

### Standards Compliance

IEC 60947-3 Low-voltage switchgear and control gear part 3  
 UL 508  
 CSA: C22.2 No. 14

### Certifications

UL Listed (File No. E14841, Guide NLRV)  
 CSA Certified (LR 13908)  
 Meets IEC, VDE and BS Standard requirements  
 CE

### Product Overview



**OFF-ON Switch**

#### OFF-ON Switch

Two-position switch used to connect or disconnect a variety of inductive loads including: solenoids, handles, valves, magnetic starters and relays.



**Star-Delta (Wye-Delta) Switch**

#### Star-Delta (Wye-Delta) Switch

Three-position (Off-Wye-Delta) switch used to manually control reduced-voltage motor starting. Operating the switch manually changes the wiring configuration of the motor from a star configuration to delta configuration after the controller operator has determined that the motor is up to operating speed.



**Ammeter Switch**

#### Ammeter Switch

Multi-position switch used to connect one or more phases of an electrical supply to an ammeter, so that the current in each phase can be displayed on one ammeter.



**Step Switch**

#### Step Switch

Multi-position switch used to connect a variety of loads to an electrical supply in a pre-determined logical sequence. A typical application would be temperature control of a heating oven or furnace.



**Changeover Switch**

#### Changeover Switch

Two-position switch used in control applications to change between alternate power supplies. This device can typically be used to manually switch power supplies from a primary source to a stand-by/emergency supply in the event of a power outage.



**Voltmeter Switch**

#### Voltmeter Switch

Multi-position switch used to connect two lines of the electrical supply system to a voltmeter so that the voltage between the lines (phase-to-phase or phase-to-neutral) can be displayed on one voltmeter.



**Reversing Switch**






#### Reversing Switch

Three-phase, three-position (Forward-Off-Reverse) switch used to manually control a motor's direction of rotation. Operating the switch changes the wiring configuration of the motor to operate in the forward or reverse direction.

# IEC Control and Load Switches

## Product Selection/Catalog Number Explanation

### Bulletin 194L Control and Load Switches

Base/DIN Rail Mounting	Front/Door Mounting	Base/DIN Rail Mounting	Front/Door Mounting	Front/Door Mounting
				
12...25 A Base Mount	12...25 A Front Mount	32 A and 40 A Base Mount	32 A and 40 A Front Mount	32 A and 40 A Front Mount, for use with 22.5 mm mounting hole style handle

### Catalog Number Explanation

194L - A 16 - 175 3

a                      b                      c                      d



a

Installation Type	
Code	Description
A	Base/DIN Mounting
E	Front/Door Mounting
C	Front/Door Mounting (For use with 32 A and 40 A switches only. Use when selecting 22.5 mm hole-mounting style handle.)

b

Load Size			
Code	Description	Code	Description
12	12 A	25	25 A
16	16 A	32	32 A
20	20 A	40	40 A

c

Code	Function	Configuration	Use with Switch Style*⊛:	Circuit Diagram Ref. No.
150	On/Off	2-Position (60 degrees)	194L-E, 12...40 A, 1...6 poles	1501...1506
175		2-Position (90 degrees)	194L-E or 194L-A, 12...40 A, 1...6 poles	1751...1756
178		2-Position (90 degrees-inverted)	194L-E or 194L-A, 12...40 A, 1...4 poles	1781...1784
225	Change-Over	1-2 (without 0, 45 degrees)	194L-E, 12...40 A, 1...5 poles or 194L-A, 12...40 A, 1...2 poles	2251...2255
250		1-2 (without 0, 60 degrees)	194L-E, 12...40 A, 1...5 poles	2501...2505
300		1-0-2 (with 0, 30 degrees, spring return)	194L-E, 12 A, 1...3 poles	3001...3003
325		1-0-2 (with 0, 45 degrees)	194L-E or 194L-A, 12...40 A, 1...4 poles	3251...3254
326		1-0-2 (with 0, 45 degrees, spring return)	194L-E, 12 A, 1...3 poles	3261...3263
350		1-0-2 (with 0, 60 degrees)	194L-E, 12...40 A, 1...4 poles	3501...3504
375		1-0-2 (with 0, 90 degrees)	194L-E, 12...40 A, 1...4 poles	3751...3754
425	Step Switch	1-2-3 (45 degrees)	194L-E or 194L-A, 12...40 A, 1 pole 194L-E, 12...40 A, 2...3 poles	4251...4253
426		1-2-3-4 (45 degrees)	194L-E, 12...40 A, 1...3 poles 194L-A, 12...40 A, 2 poles	4261...4263
427		1-2-3-4-5 (45 degrees)	194L-E or 194L-A, 12...40 A, 1 pole	4271
428		1-2-3-4-5-6 (45 degrees)	194L-E or 194L-A, 12...40 A, 1 pole	4281
450		1-2-3 (60 degrees)	194L-E, 12...40 A, 1...3 poles	4501...4503
451		1-2-3-4 (60 degrees)	194L-E, 12...40 A, 1...3 poles	4511...4513
452		1-2-3-4-5 (60 degrees)	194L-E, 12...40 A, 1 pole	4521
453		1-2-3-4-5-6 (60 degrees)	194L-E, 12...40 A, 1 pole	4531
500		0-1-2-3-4 (30 degrees)	194L-E, 12...40 A, 1...3 poles	5001...5003
501		0-1-2-3-4-5 (30 degrees)	194L-E, 12...40 A, 1...3 poles	5011...5013
525		0-1-2 (45 degrees)	194L-E or 194L-A, 12...40 A, 1 pole 194L-E, 12...40 A, 2...3 poles	5251...5253
526		0-1-2-3 (45 degrees)	194L-E or 194L-A, 12...40 A, 1 pole 194L-E, 12...40 A, 2...3 poles	5261...5263
527		0-1-2-3-4 (45 degrees)	194L-E or 194L-A, 12...40 A, 1 pole 194L-E, 12...40 A, 2...3 poles	5271...5273
528		0-1-2-3-4-5 (45 degrees)	194L-E or 194L-A, 12...40 A, 1 pole 194L-E, 12...40 A, 2...3 poles	5281...5283
550		0-1-2 (60 degrees)	194L-E, 12...40 A, 1...3 poles	5501...5503
551	0-1-2-3 (60 degrees)	194L-E, 12...40 A, 1...3 poles	5511...5513	
552	0-1-2-3-4 (60 degrees)	194L-E, 12...40 A, 1...3 poles	5521...5523	
553	0-1-2-3-4-5 (60 degrees)	194L-E, 12...40 A, 1...3 poles	5531...5533	
725	Star-Delta (Wye-Delta)	0-Y-Δ (45/90 degrees)	194L-E or 194L-A, 12...40 A, 3 poles	7253
732		0-Y-Δ (45/90 degrees)	194L-E or 194L-A, 12...40 A, 3 poles	7323
750		0-Y-Δ (60 degrees)	194L-E, 12...40 A, 3 poles	7503
730	Reversing	1-0-2 (45 degrees)	194L-E or 194L-A, 12...40 A, 3 poles	7303
754		1-0-2 (60 degrees)	194L-E, 12...40 A, 3 poles	7543
825	Voltmeter	0-RN-SN-TN-TR-ST-RS (45 degrees)	194L-E or 194L-A, 12 A, 1 pole	8251
827		0-RS-ST-TR (45 degrees)	194L-E or 194L-A, 12 A, 1 pole	8271
875	Ammeter	0-1-2-3 (90 degrees)	194L-E or 194L-A, 12 A, 1 pole	8751
876		0-1-2-3-4 (90 degrees)	194L-E or 194L-A, 12 A, 1 pole	8761
877		0-1 (90 degrees inverted)	194L-E or 194L-A, 12 A, 1 pole	8771

d

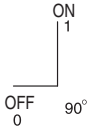


No. of Poles	
Code	Description
1	1 Pole
2	2 Poles
3	3 Poles
4	4 Poles
5	5 Poles
6	6 Poles

\* Not all possible configurations are available. Some configurations may have longer delivery times and minimum order quantities.  
 ⊛ When choosing front mount style 194L-E for 32 A or 40 A, use the 194L-C code only if a 194L-HC style handle is being used.





Bulletin 194L  
**IEC Control and Load Switches**  
 Product Selection

Frequently Ordered 194L Switches — Base/Front-Mounted Switches  
 (Switch Handles listed on page 2-437)







2

ON-OFF Switch Body (Includes Shaft)	No. of Poles	No. of Circuits	Contact Target Configuration X = Contact Closed O = Contact Open		Rated Current [A]	Mounting Type	Cat. No.
			Control Knob Position				
			OFF/0	ON/1			
							
1-Circuit ON-OFF Switch	1	1	O	X	20	Front/Door	194L-E20-1751
					25	Base/DIN	194L-A25-1751
						Front/Door	194L-E25-1751
2-Circuit ON-OFF Switch	2	1 2	O O	X X	12	Base/DIN	194L-A12-1752
					16	Front/Door	194L-E12-1752
					20	Base/DIN	194L-A20-1752
					25	Front/Door	194L-E25-1752
3-Circuit ON-OFF Switch	3	1 2 3	O O O	X X X	12	Base/DIN	194L-A12-1753
					16	Front/Door	194L-E12-1753
					20	Base/DIN	194L-A20-1753
					25	Front/Door	194L-E25-1753
4-Circuit ON-OFF Switch	4	1 2 3 4	O O O O	X X X X	12	Base/DIN	194L-A12-1754
					20	Base/DIN	194L-A20-1754
						Front/Door	194L-E20-1754
					25	Base/DIN	194L-A25-1754
						Front/Door	194L-E25-1754
6-Circuit ON-OFF Switch	6	1 2 3 4 5 6	O O O O O O	X X X X X X	16	Front/Door	194L-E16-1756
					20	Base/DIN	194L-A20-1756
						Front/Door	194L-E20-1756
					25	Base/DIN	194L-A25-1756
						Front/Door	194L-E25-1756

Reversing Switch Body (Includes Shaft)	No. of Poles	No. of Circuits	Contact Target Configuration X = Contact Closed O = Contact Open			Rated Current [A]	Mounting Type	Cat. No.
			Control Knob Position					
			1	0	2			
								
5-Circuit Reversing Switch	3	1 2 3 4 5	O X X O X	O O O O O	X O O X X	25	Front/Door	194L-E25-7543

**Bulletin 194L Handles (for use with Bulletin 194L Switches)**

Color	Handles (Includes Legend Plate and Control Knob)			
Red/Yellow (Emergency Stop colors)	 Type I	 Type L With Locking For One Padlock (Padlock Not Included)	 Type N *	Bulletin 194L handles are available in both screw fixing and 22.5 mm mounting hole style. IP66, UL Type 3/3R/12 for all 194L Handles
Black/Grey (Standard Operation colors)	 Type A	 Type E With Locking For One Padlock (Padlock Not Included)	 Type G*	

\* These handles are for use with -175 and -178 (ON-OFF) switches only and are dual marked with ON-OFF and 1-0.

**Catalog Number Explanation**

**194L - HE      6      N - 175**  
*a*    *b*    *c*    *d*

**a**

Code	Installation Type
HC	22.5 mm Mounting Hole Style Handle (for use with front-mounted switches)
HE	Screw-Mounting Handle (for use with front- and base-mounted switches)

**b**

Code	Use with Handle Type	Handle Legend Plate Size	Use With 194L Switch Size
4	A, E, I, L	48 mm x 48 mm (1-57/64 in. x 1-57/64 in.)	194L-A12...A25 194L-E12...E25 194L-C32...C40
	S	48 mm x 62 mm (1-57/64 in. x 2-7/16 in.)	
6	A, E, I, L	64 mm x 64 mm (2-33/64 in. x 2-33/64 in.)	
	G, N*	67 mm x 67 mm (2-41/64 in. x 2-41/64 in.)	194L-A12...40 A 194L-E12...40 A
	S	64 mm x 78 mm (2-33/64 in. x 3-5/64 in.)	

\* Use Type G and N with ON-OFF function only (selection "d").

**c**

Code	Legend Plate Type	Color
A	Square	Grey/Black
I	Square	Red/Yellow
E	Square/Lockable	Grey/Black
L	Square/Lockable	Red/Yellow
G	Disc/Lockable (up to 3 locks)	Grey/Black
N	Disc/Lockable (up to 3 locks)	Red/Yellow
S	Large Square with extra legend area	Grey/Black

**d**

See Table on the next page.
-----------------------------

*d*


2

Code	Description	Legend Marking	Code	Description	Legend Marking	Code	Description	Legend Marking
150	O-I		426	1-2-3-4 (45° Step Switch)		551	0-1-2-3 (60° Step Switch)	
150I	OFF-ON		427	1-2-3-4-5 (45° Step Switch)		552	0-1-2-3-4 (60° Step Switch)	
175	O-I		428	1-2-3-4-5-6 (45° Step Switch)		553	0-1-2-3-4-5 (60° Step Switch)	
175I	OFF-ON		450	1-2-3 (60° Step Switch)		725	0-Y-Δ (45°/90° Star-Delta Switch)	
178	O-I		451	1-2-3-4 (60° Step Switch)		732	0-Y-Δ (45°/90° Star-Delta Switch)	
178I	OFF-ON		452	1-2-3-4-5 (60° Step Switch)		750	0-Y-Δ (60° Star-Delta Switch)	
225	1-2 (45° Changeover without O)		453	1-2-3-4-5-6 (60° Step Switch)		754	Same as Code 350. Use order code 350.	
250	1-2 (60° Changeover without O)		500	0-1-2-3-4 (30° Step Switch)		825	0-RN-SN-TN-TR-ST-RS (45° Voltmeter Switch)	
300	1-0-2 (30° Changeover with spring return)		501	0-1-2-3-4-5 (30° Step Switch)		827	0-RS-ST-TR (45° Voltmeter Switch)	
325	1-0-2 (45° Changeover with O)		525	0-1-2 (45° Step Switch)		875	0-1-2-3 (90° Ammeter Switch — 3 c.t.'s)	
326	Same as Code 325. Use order code 325.		526	0-1-2-3 (45° Step Switch)		876	1-2-3-4 (90° Ammeter Switch — 4 c.t.'s)	
350	1-0-2 (Reversing 45° Changeover with O)		527	0-1-2-3-4 (45° Step Switch)		877	0-1 (90° Ammeter Switch — 1 c.t.)	
375	1-0-2 (90° Changeover with O)		528	0-1-2-3-4-5 (45° Step Switch)				
425	1-2-3 (45° Step Switch)		550	0-1-2 (60° Step Switch)				



**Frequently Ordered 194L Handles — Base/Front-Mounted Switch Handles**  
 (Switch Body listed on page 2-435)

Handle Type	Degree of Protection	Handle Color	Legend Plate Size	For Use With	Legend Plate Marking	Cat. No.*
A	IP66	Black/Grey	48 mm x 48 mm (1-57/64 in. x 1-57/64 in.)	194L-E12...40 A, -7543	1-0-2	<b>194L-HC4A-350</b>
			48 mm x 48 mm (1-57/64 in. x 1-57/64 in.)	194L-E12...40 A, -7543 194L-A12...40 A, -7543		<b>194L-HE4A-350</b>
			64 mm x 64 mm (2-33/64 in. x 2-33/64 in.)	194L-E12...40 A, -7543 194L-A12...40 A, -7543		<b>194L-HE6A-350</b>
E		Black/Grey	48 x 48 mm (1-57/64 x 1-57/64 in.)	194E-16...63 A 194L-E12...40 A, -1753 194L-A12...40 A, -1753	0-1	194L-HE4E-175
L				Red/Yellow	48 x 48 mm (1-57/64 x 1-57/64 in.)	194E-16...63 A 194L-E12...40 A, -1753 194L-A12...40 A, -1753
		G	Black/Grey			67 x 67 mm (2-41/64 x 2-41/64 in.)
N	Red/Yellow			67 x 67 mm (2-41/64 x 2-41/64 in.)	194E-25...100 A 194L-E12...40 A, -1753 194L-A12...40 A, -1753	
		L	Red/Yellow		48 x 48 mm (1-57/64 x 1-57/64 in.)	194L-E12...40 A, -1753
OFF-ON	<b>194L-HC4L-175I</b>					

\* For 22.5 mm mounting hole style (code HC), select either handle type A, E, I, or L with 48 x 48 mm legend plate size (code 4) only or handle type G or N with 64 x 64 mm legend plate size (code 6) only.

Rectangular Knob Handle (Includes Legend Plate and Control Knob)	Color	Locking Provision	Legend Plate Size	For Use With	Fixing	Legend Marking	Cat. No.
	Black/Grey	None	48 mm x 48 mm (1-57/64 in. x 1-57/64 in.)	194L-A 12...40 A switches ONLY	Screw	0-1	194L-HE4P-175
						OFF-ON	<b>194L-HE4P-175I</b>

**22.5 mm Mounting Hole Style Knob and Keyed Type Handles**

	Description	Fixing	Pkg. Qty.	Cat. No.
 <b>Type B</b>	22.5 mm Mounting Hole Style Handles (IP65) Handle Style: Knob Lever with Latch (For Use With 194E-E25...100 A, -1753) or 194L-E12...40 A	22.5 mm Mounting Hole Style	1	194L-HCB-001
 <b>Type D</b>	22.5 mm Mounting Hole Style Handles Key Removal Position (Includes Latch) For Use With 194L-E 12...40 A, 194E-E16...63 A, - 1753	22.5 mm Mounting Hole Style	1	194L-HCDC-001
	22.5 mm Mounting Hole Style Handles Key Removal Position (Includes Latch) For Use With 194L-E 12...40 A, 194E-E16...63 A, - 1753			194L-HCDD-001
	22.5 mm Mounting Hole Style Handles Key Removal Position (Includes Latch) For Use With 194L-E 12...40 A, 194E-E16...63 A, - 1753			194L-HCDG-001
	22.5 mm Mounting Hole Style Handles Key Removal Position (Includes Latch) For Use With 194L-E 12...40 A, 194E-E16...63 A - 1753			194L-HCDH-001



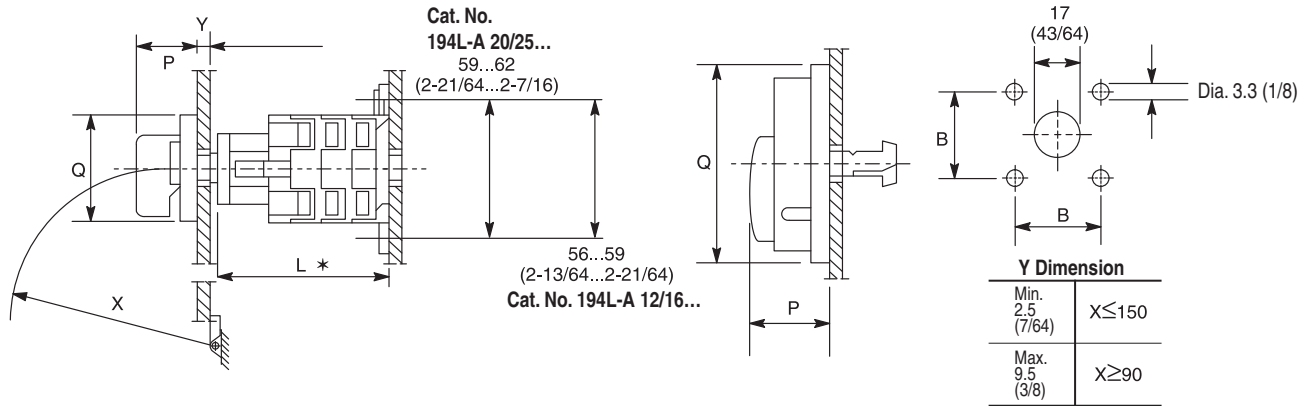
Bulletin 194L  
**IEC Control and Load Switches**  
 Approximate Dimensions

Dimensions are shown in millimeters (inches). Dimensions are not intended to be used for manufacturing purposes.

**Control Knob**

Cat. No.	P	Q
194L-HE4A...	28 (1-7/64)	48 (1-57/64) x 48 (1-57/64)
194L-HE4L...		48 (1-57/64) x 62 (2-7/16)
194L-HE4S...		64 (2-33/64) x 64 (2-33/64)
194L-HE6A...		64 (2-33/64) x 78 (3-5/64)
194L-HE6L...		67 (2-41/64) x 67 (2-41/64)
194L-HE6N...		
194L-HE6G...		34 (1-11/32)

**Cat. No. 194L-A... for Base/DIN Rail Installation**



Cat. No.	L *			
	No. of Contacts			
	1...2	3...4	5...6	7...8
194L-A12/16...	58 (2-9/32)	68 (2-11/16)	78 (3-5/64)	88 (3-15/32)
194L-A20/25...	58 (2-9/32)	71.5 (2-13/16)	84 (3-5/16)	96.5 (3-51/64)
194L-A32/40...	67.5 (2-21/32)	85 (3-11/32)	102.5 (4-1/32)	120 (4-47/64)

**Control Knob**

Cat. No.	P	B	Q	
194L-HE4A...	28 (1-7/64)	36 (1-27/64)	48 (1-57/64) x 48 (1-57/64)	
194L-HE4L...			48 (1-57/64) x 62 (2-7/16)	
194L-HE4S...		48 (1-57/64)	64 (2-33/64) x 64 (2-33/64)	
194L-HE6A...			64 (2-33/64) x 78 (3-5/64)	
194L-HE6L...			67 (2-41/64) x 67 (2-41/64)	
194L-HE6S...		34 (1-11/32)		
194L-HE6N...				
194L-HE6G...				

\* With DIN 46 277 (35) Rail + 2.5 mm (7/64)