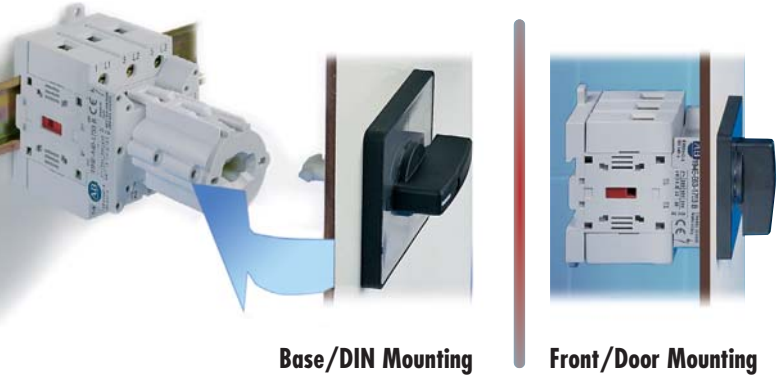


CONTROL AND LOAD SWITCHES 194L

MOTOR-RATED CAM SWITCHES

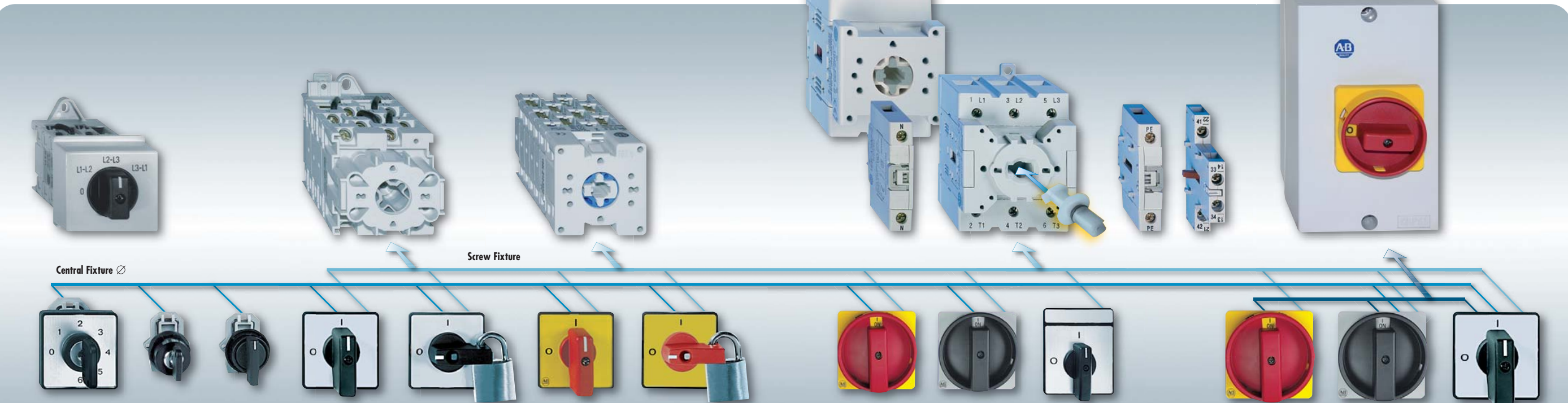
Bulletin 194L Motor Rated Cam Switches are available in many configurations. These switches are designed for your application's most demanding control circuit and motor control needs. The 194L switches are offered in 12 A to 40 A load sizes. Switches may be configured for up to 16 inductive load-rated circuits. Handle operation may be specified for up to 12 positions, with 30, 60, 45 or 90 degrees of positional rotation. Maintained and some spring return functions may be specified.

Customer specific electrical schemes on request. See form on back page.



INSTALLATION AND PANEL FITTINGS

The new 194E Switch disconnectors can be installed in every cabinet. Shaft extensions enable the operation from the front regardless of cabinet depth.



ROBUST, RELIABLE AND COST-EFFECTIVE

The modular structure, easy handling, and high reliability of the Bulletin 194 switches match to the successful Modular Control System MCS.

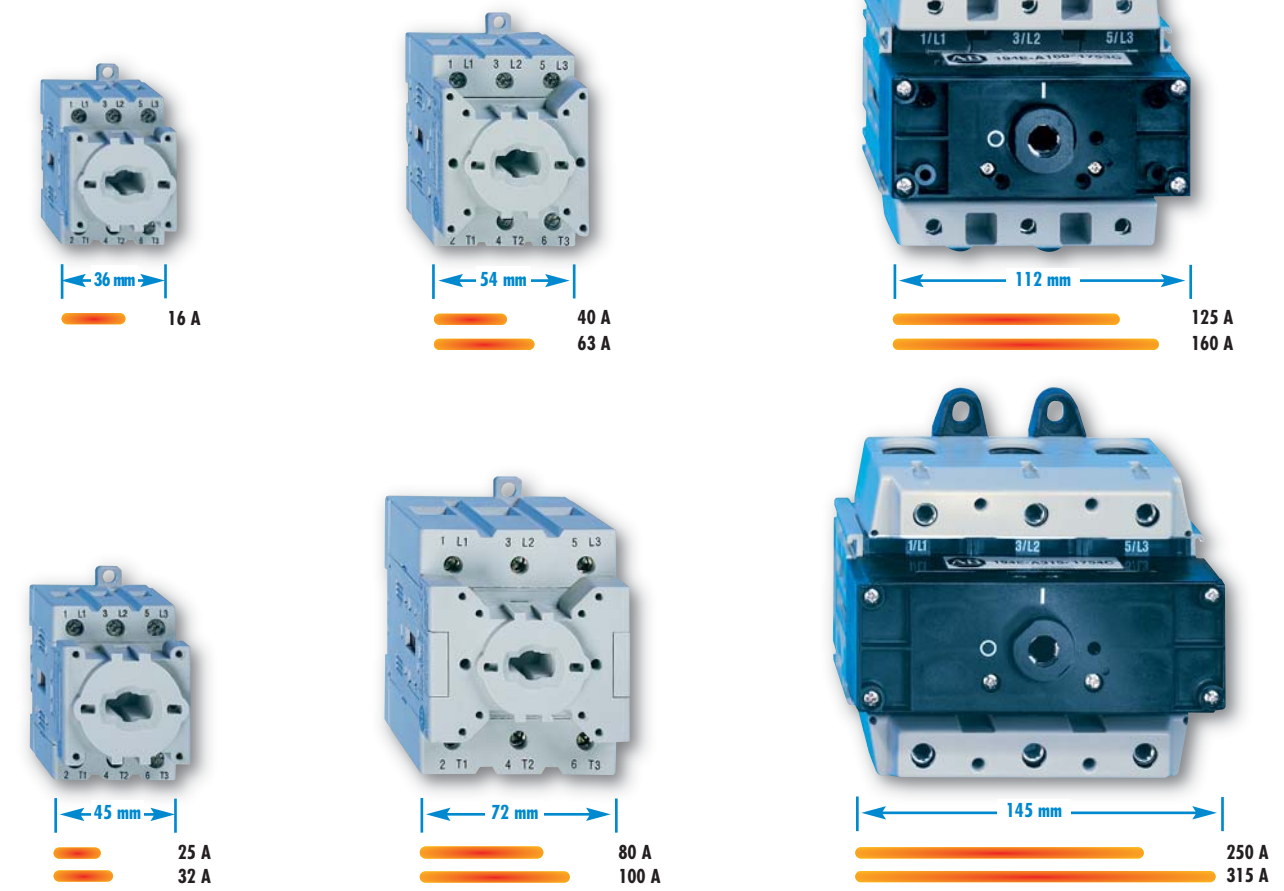
- Easy product selection
- Simple maintenance
- Designed for the world's markets, conform to all standards and suitable for all applications
- Finger-proof switch design (IP20)
- Splash and dust-proof mechanisms and casings (IP65)
- High switching capacity AC-23 A
- Simple fitting and removal of accessories
- Functional, pleasing appearance
- Sturdy construction for heavy-duty industrial use
- Modular, long-lasting system subject to ongoing development and innovation.

TIME-SAVING TERMINATIONS

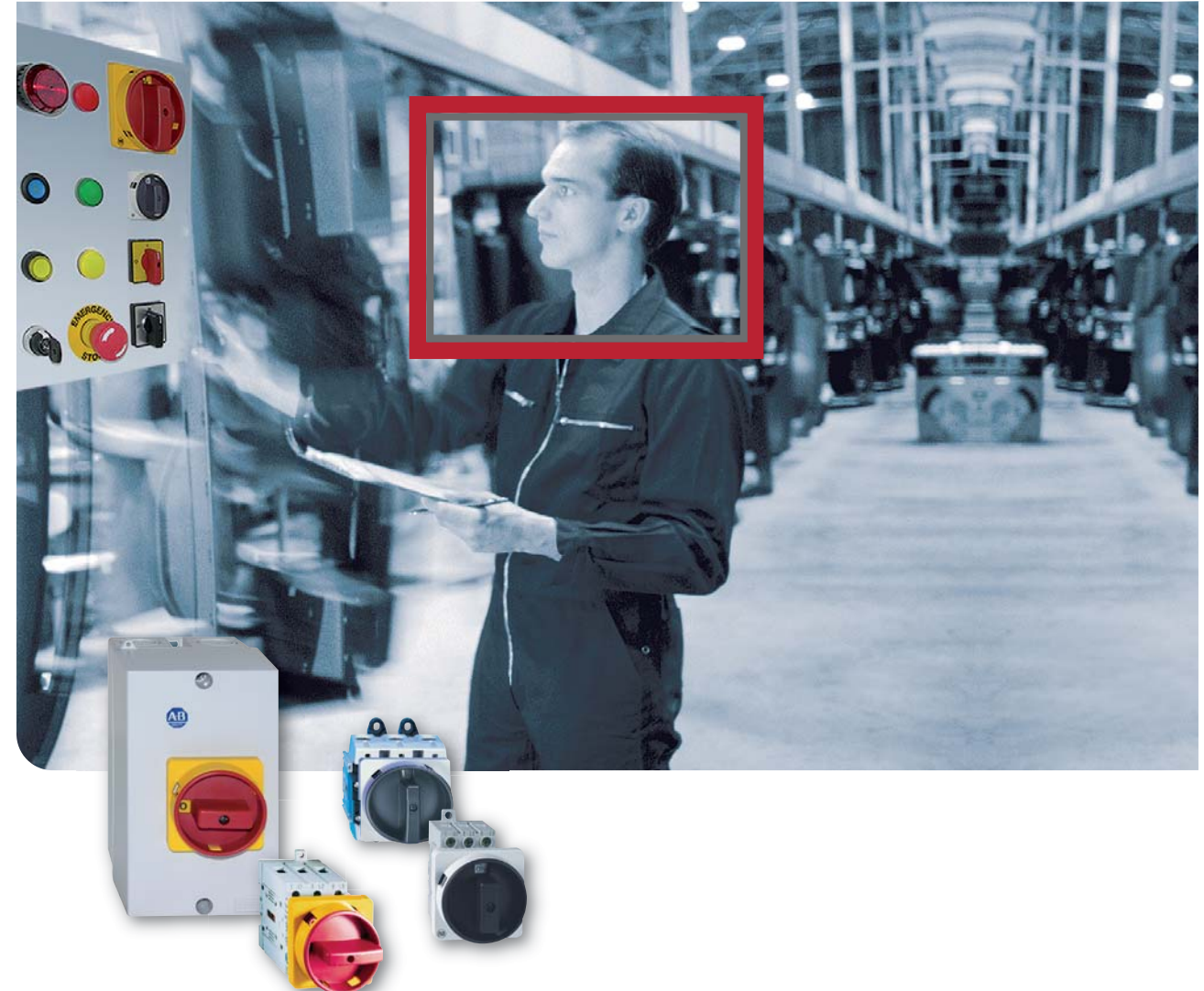
- Large clamping space and cable inlets
- Universal terminal screws for - and + screwdrivers
- Clear terminal markings
- Terminals open and ready for connection on delivery

LOAD SWITCHES 194E

SAFE SEPARATION UP TO 315 A



LISTEN.
THINK.
SOLVE.®



THE VERSATILE SWITCH LINE

WIDE SELECTION OF FUNCTIONS, TOUGH AND RELIABLE, FAST MOUNTING

CONTROL AND LOAD SWITCHES 194L AND 194E

SPECIAL SWITCHES

SWITCH SPECIFICATIONS FOR SPECIAL VERSIONS OF BULLETIN 194L SWITCHES

Customer:	Delivery date:	Date:	Rockwell Automation
Quantity:	Customer order no.:		
Legend plate		Quantity	
<input type="checkbox"/> 30° <input type="checkbox"/> 60° <input type="checkbox"/> 45° <input type="checkbox"/> 90°			
8	31-32 29-30 27-28		29 30 25 26 21 22
7	25-26 23-24 21-22		31 32 27 28 23 24
6	19-20 17-18 15-16		17 18 13 14
5	11-12 9-10		19 20 15 16
4	7-8 5-6		9 10 11 12
3	3-4 1-2		7 8 3 4
Switch elements	Contacts		5 6 1 2
X Closed contact X - X Contact closed in several positions		Return	
Notes			
Switch type			
Rated current		Actuator	
A			

www.rockwellautomation.com

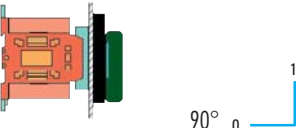
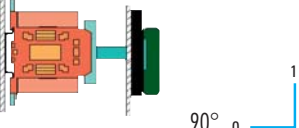
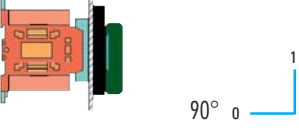
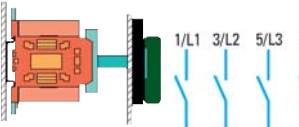
Power, Control and Information Solutions Headquarters
 Americas: Rockwell Automation, 1201 South Second Street, Milwaukee, WI 53204 USA, Tel: (1) 414.382.2000, Fax: (1) 414.382.4444
 Europe/Middle East/Africa: Rockwell Automation, Vorstlaan/Boulevard du Souverain 36, 1170 Brussels, Belgium, Tel: (32) 2 663 0600, Fax: (32) 2 663 0640
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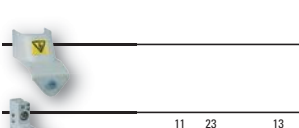
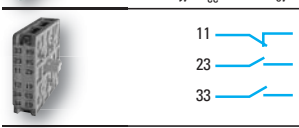




LOAD SWITCHES 194E FRONT AND BASE MOUNTING

	Current Rating AC-21A/690V [A]	Power Rating AC-23A/400V [kW]	With Type N Actuator	With Type G Actuator	With Type A Actuator
	Cat.No.	Cat.No.	Cat.No.	Cat.No.	Cat.No.
194E 16...315 A					
Front/Door Mounting 3 Poles					
	16	7.5	194E-E16-1753-4N	194E-E16-1753-4G	194E-E16-1753-4A
	25	11	194E-E25-1753-6N	194E-E25-1753-6G	194E-E25-1753-6A
	32	15	194E-E32-1753-6N	194E-E32-1753-6G	194E-E32-1753-6A
	40	22	194E-E40-1753-6N	194E-E40-1753-6G	194E-E40-1753-6A
	63	30	194E-E63-1753-6N	194E-E63-1753-6G	194E-E63-1753-6A
	80	37	194E-E80-1753-6N	194E-E80-1753-6G	194E-E80-1753-6A
	100	55	194E-E100-1753-6N	194E-E100-1753-6G	194E-E100-1753-6A
	125	45	194E-E125-1753 + 194E-HE8N-175	194E-E125-1753 + 194E-HE8G-175	194E-E125-1753 + 194E-HE8A-175
	160	55	194E-E160-1753 + 194E-HE8N-175	194E-E160-1753 + 194E-HE8G-175	194E-E160-1753 + 194E-HE8A-175
	250	90	194E-E250-1753 + 194E-HE8N-175	194E-E250-1753 + 194E-HE8G-175	194E-E250-1753 + 194E-HE8A-175
	315	110	194E-E315-1753 + 194E-HE8N-175	194E-E315-1753 + 194E-HE8G-175	194E-E315-1753 + 194E-HE8A-175
Base/DIN Mounting 3 Poles					
	16	7.5	194E-A16-1753-4N	194E-A16-1753-4G	194E-A16-1753-4A
	25	11	194E-A25-1753-6N	194E-A25-1753-6G	194E-A25-1753-6A
	32	15	194E-A32-1753-6N	194E-A32-1753-6G	194E-A32-1753-6A
	40	22	194E-A40-1753-6N	194E-A40-1753-6G	194E-A40-1753-6A
	63	30	194E-A63-1753-6N	194E-A63-1753-6G	194E-A63-1753-6A
	80	37	194E-A80-1753-6N	194E-A80-1753-6G	194E-A80-1753-6A
	100	55	194E-A100-1753-6N	194E-A100-1753-6G	194E-A100-1753-6A
	125	45	194E-A125-1753 + 194E-HE8N-175	194E-A125-1753 + 194E-HE8G-175	194E-A125-1753 + 194E-HE8A-175
	160	55	194E-A160-1753 + 194E-HE8N-175	194E-A160-1753 + 194E-HE8G-175	194E-A160-1753 + 194E-HE8A-175
	250	90	194E-A250-1753 + 194E-HE8N-175	194E-A250-1753 + 194E-HE8G-175	194E-A250-1753 + 194E-HE8A-175
	315	110	194E-A315-1753 + 194E-HE8N-175	194E-A315-1753 + 194E-HE8G-175	194E-A315-1753 + 194E-HE8A-175
Front/Door Mounting 4 Poles					
	125	45	194E-E125-1754 + 194E-HE8N-175	194E-E125-1754 + 194E-HE8G-175	194E-E125-1754 + 194E-HE8A-175
	160	55	194E-E160-1754 + 194E-HE8N-175	194E-E160-1754 + 194E-HE8G-175	194E-E160-1754 + 194E-HE8A-175
	250	90	194E-E250-1754 + 194E-HE8N-175	194E-E250-1754 + 194E-HE8G-175	194E-E250-1754 + 194E-HE8A-175
	315	110	194E-E315-1754 + 194E-HE8N-175	194E-E315-1754 + 194E-HE8G-175	194E-E315-1754 + 194E-HE8A-175
Base/DIN Mounting 4 Poles					
	125	45	194E-A125-1754 + 194E-HE8N-175	194E-A125-1754 + 194E-HE8G-175	194E-A125-1754 + 194E-HE8A-175
	160	55	194E-A160-1754 + 194E-HE8N-175	194E-A160-1754 + 194E-HE8G-175	194E-A160-1754 + 194E-HE8A-175
	250	90	194E-A250-1754 + 194E-HE8N-175	194E-A250-1754 + 194E-HE8G-175	194E-A250-1754 + 194E-HE8A-175
	315	110	194E-A315-1754 + 194E-HE8N-175	194E-A315-1754 + 194E-HE8G-175	194E-A315-1754 + 194E-HE8A-175


LOAD SWITCHES 194E IN THERMOPLASTIC ENCLOSURE

	Current Rating AC-21A/690V [A]	Power Rating AC-23A/400V [kW]	With Type N Actuator	With Type G Actuator	With Type A Actuator
	Cat.No.	Cat.No.	Cat.No.	Cat.No.	Cat.No.
194E 16...100 A					
3 Poles					
	16	7.5	194E-Y16M-1753-4N	194E-Y16M-1753-4G	194E-Y16M-1753-4A
	25	11	194E-Y25M-1753-6N	194E-Y25M-1753-6G	194E-Y25M-1753-6A
	32	15	194E-Y32M-1753-6N	194E-Y32M-1753-6G	194E-Y32M-1753-6A
	40	22	194E-Y40M-1753-6N	194E-Y40M-1753-6G	194E-Y40M-1753-6A
	63	30	194E-Y63M-1753-6N	194E-Y63M-1753-6G	194E-Y63M-1753-6A
	80	37	194E-Y80M-1753-6N	194E-Y80M-1753-6G	194E-Y80M-1753-6A
	100	45	194E-Y100M-1753-6N	194E-Y100M-1753-6G	194E-Y100M-1753-6A
6 Poles					
	16	7.5	194E-Y16M-1756-6N	194E-Y16M-1756-6G	194E-Y16M-1756-6A
	25	11	194E-Y25M-1756-6N	194E-Y25M-1756-6G	194E-Y25M-1756-6A
	32	15	194E-Y32M-1756-6N	194E-Y32M-1756-6G	194E-Y32M-1756-6A
	40	22	194E-Y40M-1756-6N	194E-Y40M-1756-6G	194E-Y40M-1756-6A
	63	30	194E-Y63M-1756-6N	194E-Y63M-1756-6G	194E-Y63M-1756-6A






ACCESSORIES 194E


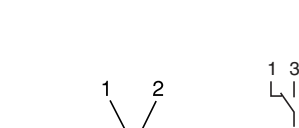
	Package Quantity	For use with	Cat. No.
Terminal Cover 3 Poles			
	2	194E-16 194E-25/32 194E-40/63 194E-80/100	194E-16-C3 194E-25-C3 194E-40-C3 194E-80-C3
Terminal Cover 1 Pole			
	2	194E-16 194E-25/32 194E-40/63 194E-80/100	194E-16-C1 194E-25-C1 194E-40-C1 194E-80-C1
Terminal Cover (1Pole)			
	1	194E-125...160 194E-250...315	194E-AE125-C1 194E-AE250-C1
Auxiliary Contact Blocks			
	1	1 N.C. + 1 N.O. left- or right-side mounting	194E-E16...100 194E-E-P11 194E-A16...100 194E-A-P11
	1	1 N.C. + 2 N.O. left- or right-side mounting	194E-A125...160 194E-AB-P21-160 194E-A250...315 194E-AB-P21-315 194E-125...160 194E-EF-P21-160 194E-250...315 194E-EF-P21-315
Fourth Pole			
	1	1 early-make contact	194E-A16 194E-A16-NP 194E-A25 194E-A25-NP 194E-A32 194E-A32-NP 194E-A40 194E-A40-NP 194E-A63 194E-A63-NP 194E-A80 194E-A80-NP 194E-A100 194E-A100-NP 194E-E16 194E-E16-NP 194E-E25 194E-E25-NP 194E-E32 194E-E32-NP 194E-E40 194E-E40-NP 194E-E63 194E-E63-NP 194E-E80 194E-E80-NP 194E-E100 194E-E100-NP 194E-16 194E-G3821 194E-25/32 194E-G3660 194E-40/63 194E-G3661 194E-80/100 194E-G3662
Mechanical coupling for 6 Poles Switches			
	1		

CONTROL AND LOAD SWITCHES 194L

	Current Rating AC-21A/690V [A]	Poles	Cat.No.	With Type N Actuator	With Type G Actuator	With Type A Actuator
				Cat.No.	Cat.No.	Cat.No.
194L 12...40 A						
ON-OFF Switches						
Front/Door Mounting						
	12	1	194L-E12-1751			
		2	194L-E12-1752			
		3	194L-E12-1753			
		4	194L-E12-1754			
		6	194L-E12-1756			
		1	194L-E16-1751			
		2	194L-E16-1752			
		3	194L-E16-1753			
		4	194L-E16-1754			
		6	194L-E16-1756			
		1	194L-E20-1751			
		2	194L-E20-1752			
		3	194L-E20-1753			
		4	194L-E20-1754			
		6	194L-E20-1756			
		1	194L-E25-1751			
		2	194L-E25-1752			
		3	194L-E25-1753			
		4	194L-E25-1754			
		6	194L-E25-1756			
		1	194L-E32-1751			
		2	194L-E32-1752			
		3	194L-E32-1753			
		4	194L-E32-1754			
		6	194L-E32-1756			
		1	194L-E40-1751			
		2	194L-E40-1752			
		3	194L-E40-1753			
		4	194L-E40-1754			
		6	194L-E40-1756			
		1	194L-E40-1756	+ 194L-HE4N-175	+ 194L-HE4G-175	+ 194L-HE4A-175
		2	194L-E40-1756	+ 194L-HE6N-175	+ 194L-HE6G-175	+ 194L-HE6A-175

ACCESSORIES 194L AND 194E

	Package Quantity	For use with	Cat. No.
Metal Shaft Extensions			
	1	Length 110...235 mm	194L-A12...40, 194E-A16...100 194L-G3393
	1	Length 230...350 mm	194L-A12...40, 194E-A16...100 194L-G3394
Shaft Extensions (and enclosure extensions)			
	10	(Max. 4 pieces), 1 piece length = 24 mm	194L-A12...40, 194E-A16...100 194L-G2853
Thermal Covers 3/4 Poles			
	10		194L-A12...25 194L-G3572M 194L-G3576M 194L-A32/40 1,2 194L-G3572M 194L-G3576M 194E-A25/32 3,4 194L-G3572M 194L-G3576M 194L-A12/6 5...10 194L-G3573M 194L-G3577M 194L-A20/25 5...8 194L-G3573M 194L-G3577M 194L-A32/40 3,4 194L-G3573M 194L-G3577M 194E-A25/32 6 194L-G3663M 194E-G3664M 194E-A40/63 3,4 194E-G3663M 194E-G3664M 194E-A80/00 6 194E-G3665M 194E-G3665M
Thermoplastic Enclosure			
	1		

	Current Rating AC-21A/690V [A]	Poles	Cat.No.	With Type A Actuator
				Cat.No.
194L 12...40 A				
Changeover Switches				
Front/Door Mounting				
	12	1	194L-E12-3251	
		2	194L-E12-3252	
		3	194L-E12-3253	
		4	194L-E12-3254	
		1	194L-E16-3251	
		2	194L-E16-3252	
		3	194L-E16-3253	
		4	194L-E16-3254	
		1	194L-E20-3251	
		2	194L-E20-3252	
		3	194L-E20-3253	
		4	194L-E20-3254	
		1	194L-E25-3251	
		2	194L-E25-3252	
		3	194L-E25-3253	
		4	194L-E25-3254	
		3	194L-E32-3253	+ 194L-HE4A-325
		4	194L-E32-3254	+ 194L-HE6A-325
		3	194L-E40-3253	
		4	194L-E40-3254	
Changeover Switches				
	12	1	194L-E12-2501	
		2	194L-E12-2502	
		3	194L-E12-2503	
		1	194L-E16-2501	
		2	194L-E16-2502	
		3	194L-E16-2503	
		1	194L-E20-2501	
		2	194L-E20-2502	
		3	194L-E20-2502	
		1	194L-E25-2501	
		2	194L-E25-2502	
		3	194L-E25-2503	
		1	194L-E32-2501	
		2	194L-E32-2502	
		3	194L-E32-2503	
		1	194L-E40-2501	
		2	194L-E40-2502	
		3	194L-E40-2503	
		1	194L-E12-7303	