

# Block-Type Switch Disconnectors 194E -16 A

 **Allen-Bradley**

The Range of Switch Disconnectors Extended

 **Rockwell  
Automation**

# 194E - 16 A

## Block-Type Switch Disconnectors



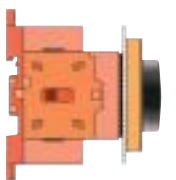
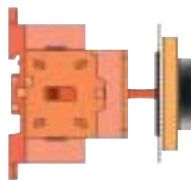
Front mounting



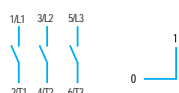
Base mounting

### Main Features:

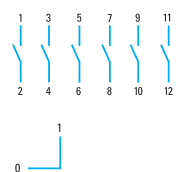
- Rated current ( $I_n$ ) 16 A, 690 V AC (AC-1 and AC-21 A)
- Finger safe design (IP20) of all live parts and terminals, including accessories
- Snap-on, modular accessories
- The terminals are provided of self-centring cable guides
- Approvals:  USA, Canada
- Certifications: 

Front mounting	Base mounting	Description	Cat. No.	Pkg. Qty.
		3P ON-OFF Switch base mounting (only body)	194E-A16-1753	1
		3P ON-OFF Switch front mounting (only body)	194E-E16-1753	1
		3P ON-OFF Sw.base mount. with actuator type «A»	194E-A16-1753-4A	1
		3P ON-OFF Sw.front mount. with actuator type «A»	194E-E16-1753-4A	1
		3P ON-OFF Sw.base mount. with actuator type «G»	194E-A16-1753-4G	1
		3P ON-OFF Sw.front mount. with actuator type «G»	194E-E16-1753-4G	1
		3P ON-OFF Sw.base mount. with actuator type «N»	194E-A16-1753-4N	1
		3P ON-OFF Sw.front mount. with actuator type «N»	194E-E16-1753-4N	1

### 3 pole



### 6 pole



Description	Cat. No.	Pkg. Qty.
6P ON-OFF Switch base mounting	194E-A16-1756	1
6P ON-OFF Switch front mounting	194E-E16-1756	1

### 3 pole



3P Changeover Switch base mounting	194E-A16-3753	1
3P Changeover Switch front mounting	194E-E16-3753	1

## Enclosure

### 3 pole

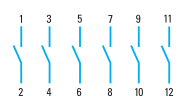


M16/20

IP65

Description	Cat. No.	Pkg. Qty.
3P ON-OFF Sw. in enclosure with actuator type «A»	194E-Y16M-1753-4A	1
3P ON-OFF Sw. in enclosure with actuator type «G»	194E-Y16M-1753-4G	1
3P ON-OFF Sw. in enclosure with actuator type «N»	194E-Y16M-1753-4N	1

### 6 pole













M25/32

IP65

Description	Cat. No.	Pkg. Qty.
6P ON-OFF Sw. in enclosure with actuator type «A»	194E-Y16M-1756-6A	1
6P ON-OFF Sw. in enclosure with actuator type «G»	194E-Y16M-1756-6G	1
6P ON-OFF Sw. in enclosure with actuator type «N»	194E-Y16M-1756-6N	1










## Actuators

Dimensions 48 x 48 mm					Description	Cat. No.	Pkg. Qty.
 A	•			•	Black knob, silver-grey legend plate 0-1	194L-HE4A-175	1
		•			Black knob, silver-grey legend plate OFF-ON	194L-HE4A-175I	1
			•		Black knob, silver-grey legend plate 1-0-2	194L-HE4A-375	1
 E	•			•	Black knob, lockable, silver-grey legend plate 0-1	194L-HE4E-175	1
		•			Black knob, lockable, silver-grey legend plate OFF-ON	194L-HE4E-175I	1
			•		Black knob, lockable, silver-grey legend plate 1-0-2	194L-HE4E-1375	1
 I	•				Red knob, yellow legend plate 0-1	194L-HE4I-175	1
			•		Red knob, yellow legend plate OFF-ON	194L-HE4I-175I	1
 L	•				Red knob, lockable, yellow legend plate 0-1	194L-HE4L-175	1
			•		Red knob, lockable, yellow legend plate OFF-ON	194L-HE4L-175I	1

54 x 54 mm			Description	Cat. No.	Pkg. Qty.
 G	•		Grey legend plate, black knob ring O/OFF-I/ON provision for 3 padlocks	194E-HE4G-175	1
 N	•		Yellow legend plate, red knob ring O/OFF-I/ON provision for 3 padlocks	194E-HE4N-175	1

For central mounting fixture see Control and load switches catalogue series 194L and series 194E

## Accessories

		Description	Cat. No.	Pkg. Qty.
		4th pole NP for 16 A base mounting	194E-A16-NP	1
		4th pole NP for 16 A front mounting	194E-E16-NP	1
		Earth terminal for 16 A base mounting	194E-A16-PE	1
		Earth terminal for 16 A front mounting	194E-E16-PE	1
		Neutral terminal for 16 A base mounting	194E-A16-TN	1
		Neutral terminal for 16 A front mounting	194E-E16-TN	1
		NO Auxiliary contact early break base mounting	194E-A16-PD10	1
		NO Auxiliary contact early break front mounting	194E-E16-PD10	1
For aux. Contacts P11, PL11 and P22 see Control and load switches catalogue series 194L and series 194E				
		Terminal cover 1P for 16 A	194E-16-C1	2
		Terminal cover 3P for 16 A	194E-16-C3	2
		6P Mechanical coupling for 16 A	194E-G3821	1
		Metal shaft extension 0-1 L= 90...235 mm	194L-G3393	1
		Metal shaft extension 0-1 L= 230...350 mm	194L-G3394	1

# Specifications

## Alternating current (IEC / EN 60947-3)

Rated voltage $U_e$	[V]	690/600
Rated isolation voltage $U_i$	[V]	690/600
Rated impulse voltage $U_{imp}$	[kV]	8
Test voltage $U_i$ 1 min	[kV]	2.5
Rated frequency	[Hz]	50/60
Thermal rated current $I_{th}$ open	[A]	25
Thermal rated current $I_{the}$ enclosed	[A]	20
Wasted power by 1 pole at thermal rated current $I_{the}$	[W]	0.58
Rated current $I_e$	[A]	16
AC-1 Non-inductive or slightly inductive loads		
AC-21A Switching of resistive loads with slight overload		
AC-23B Occasional switching of motors	400 A	[A] 16
Rated power $P_e$		
AC-23A Frequent switching of motors or other highly inductive loads	230 V 400 V 690 V	[kW] 5.5 [kW] 7.5 [kW] 7.5
AC-3 Squirrel-cage motors: starting and stopping of running motors	230 V 400 V 690 V	[kW] 4 [kW] 5.5 [kW] 5.5
AC-15 Control of AC electromagnetic loads	120 V 400 V 600 V	[A] 10 [A] 3 [A] 2
Rated breaking capacity (AC-23A) $\cos \phi$ 0.45	230 V 400 V 690 V	[A] 156 [A] 120 [A] 70
Short-circuit current		
Conditional rated short-circuit current	400/415 V	[kA] 20
Max. fuse rating of circuit		[A] 20
Rated short-time current $I_{cw}$ (1s)		[A] 600

## 194E-16

## UL/CSA

## 194E-16

General use 1-phase/2 poles, 3-phase/3 poles			
Rated current	600 V	[A]	16
Heavy pilot duty (AC) code designation			A600
Rated power			
Motor rating standard	120 V	[HP]	1
DOL-rating	240 V	[HP]	2
1-phase 2-poles	480 V	[HP]	3
	600 V	[HP]	5
3-phase 3-poles	120 V	[HP]	2
	240 V	[HP]	3
	480 V	[HP]	7.5
	600 V	[HP]	10

## Environmental data

## 194E-16

Ambient temperature:	Operation	-25° C ... +60° C
	Storage	-40° C ... +80° C

## Mechanical data

## 194E-16

### Protection class according to IEC/EN 60529

Actuators	IP66
Switch bodies	IP20

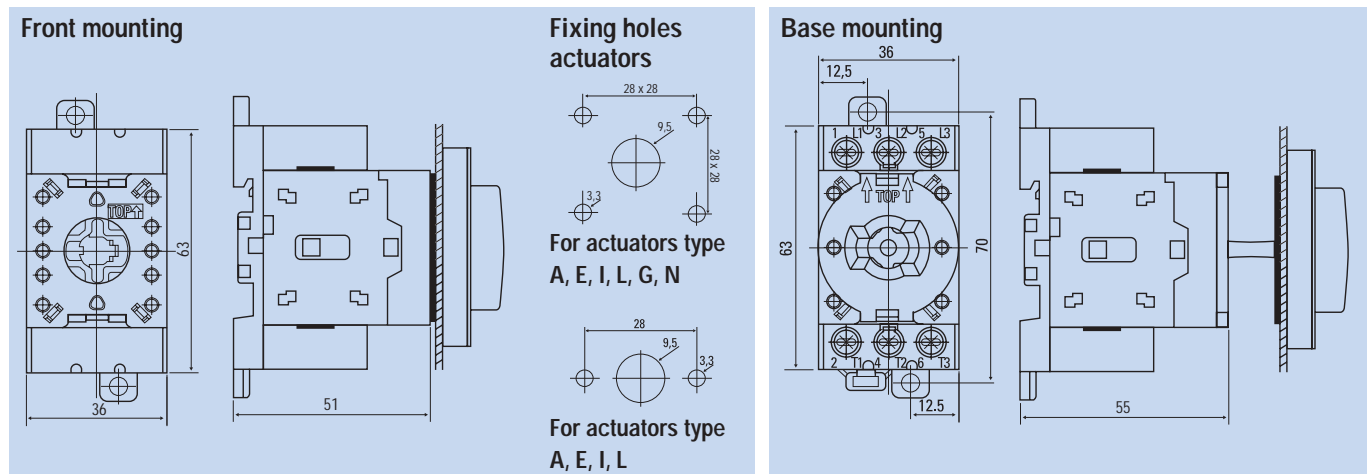
### Mechanical life x 10<sup>6</sup>

	0.5
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Max. wire gauges	
Terminal sizes according to IEC/EN 60947-1	A4
Fine strands mm <sup>2</sup>	1.5...6
Rigid wire/stranded mm <sup>2</sup>	1.5...10
Max. wire gauges according to UL/CSA (stranded/solid) AWG	10/10

<b>Terminals</b>	Type	Screw
	Thread	3.5
	Screwdriver size	3/2
	Tightening torque (Nm)	1.4

## Dimensions [mm]



[www.rockwellautomation.com](http://www.rockwellautomation.com)

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