

Product Details and Certifications

Cross Reference RA Part Number: 194R-J30-1753 A

 **Product: 194R-J30-1753**

Description: 194R Disconnect Switch, Open, J fuse, 30 A, 3 Pole



Representative Photo Only (actual product may vary based on configuration sections)

SWITCH DATA



Bulletin Number	194R Fuse and Non-Fuse Disconnect Switches
Fuse Type	UL Classs J/CSA HRCI-J
Switch Rating (A)	30 A
Pole Configuration	3 Poles
Open, Kitted, or Enclosed?	Open

CERTIFICATIONS AND APPROVALS

UL
CSA
IEC
CE



Bulletin 194R Overview

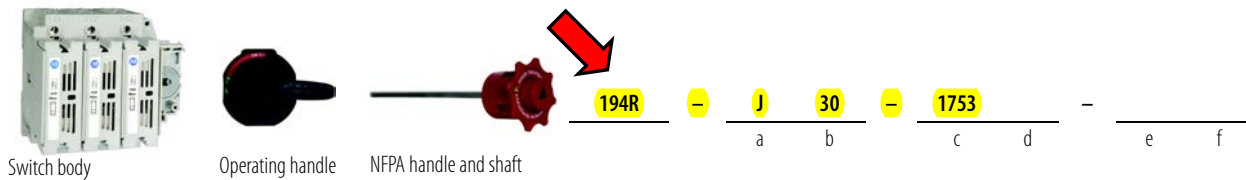
		
	Bulletin 194R-C, J, H, B, D, F, L, N, NU	Bulletin 194R-NE
Product Type	Fused and non-fused rotary disconnect switches	Non-fused IEC rotary disconnect switches
Current Range	20...1200 A	100...1250 A
Main Applications	<ul style="list-style-type: none"> UL 98 ratings "suitable as service entrance disconnecting means" UL 508, CSA ratings "suitable as at-motor disconnect" 	<ul style="list-style-type: none"> Disconnecting means
Functionality	<ul style="list-style-type: none"> 3- or 4-pole fusible or non-fusible disconnect for standard OFF-ON or emergency stop in a main panel disconnect application 4th pole available as modular accessory Test mode switch position 	<ul style="list-style-type: none"> 3- or 4-pole non-fusible disconnect for standard OFF-ON or emergency stop in a main panel disconnect application 4th pole available as modular accessory Test mode switch position
Mounting Styles	Base/DIN Rail mounting	Base/DIN Rail mounting
Handles	<ul style="list-style-type: none"> Available in rotary styles, UL Type 1/3R/4/4X/12, IP66, standard, or test mode versions Handle colors in black and red/yellow and padlockable versions 30 A/60 A legend markers (optional) — uses Cat. No. 1492-MS6X12 markers 	<ul style="list-style-type: none"> Available in rotary styles, UL Type 1/3R/4/4X/12, IP66, standard, or test mode versions Handle colors in black and red/yellow and padlockable versions
Open Switch or Enclosed	<ul style="list-style-type: none"> Open switch Enclosed: UL/CSA rated enclosure 	<ul style="list-style-type: none"> Open switch
UL/CSA Electrical Ratings:		
Rated Voltage U_e	690V AC	690V AC
Rated Current I_e	20...1200 A	100...1250 A
Rated Power P_e [FLA]	Varies w/ 1- or 3-phase switch, voltage	Varies w/ 1- or 3-phase switch, voltage
Short-Circuit Ratings	200 kA	200 kA
Mechanical Life [ops]	10 000	10 000
IEC Rated Current I_e		
AC-1	20...1200 A @ 690V	100...1250 A @ 690V
AC-21A	Varies w/ 1- or 3-phase switch, voltage	Varies w/ 1- or 3-phase switch, voltage
AC-22A	Varies w/ 1- or 3-phase switch, voltage	Varies w/ 1- or 3-phase switch, voltage
Ambient Operational Temp.	-20...+60 °C (-4...+140 °F)	-20...+60 °C (-4...+140 °F)
Ambient Enclosed Temp.	-20...+60 °C (-4...+140 °F)	-20...+60 °C (-4...+140 °F)
Ambient Storage Temp.	-40...+65 °C (-40...+149 °F)	-40...+65 °C (-40...+149 °F)
Protection class per IEC 529	<ul style="list-style-type: none"> Switch bodies: IP2 Fuse carriers: IP30 	<ul style="list-style-type: none"> Switch bodies: IP2
Optional Accessories	<ul style="list-style-type: none"> Operator handles Multi-length shafts Auxiliary contacts Terminal covers NFPA 79 internal handle with shaft 	<ul style="list-style-type: none"> IP66 handles Multi-length shafts Auxiliary contacts Terminal covers NFPA 79 internal handle
Standards/Certifications	<ul style="list-style-type: none"> UL 98, UL 508 CSA C22.2, No. 14 IEC 60947-3 Low Voltage Switchgear and Controlgear part 3 CE 	<ul style="list-style-type: none"> CSA C22.2, No. 14 IEC 60947-3 Low Voltage Switchgear and Controlgear part 3 CE
Product Selection	Page 4	Page 4

Complete UL/CSA Disconnect Switch Kits

Includes disconnect switch, operating handle with defeater mechanism and operating shaft, NFPA handle, auxiliary contacts, and padlock attachment.

Catalog Number Explanation

Fourth pole (20...63 A), additional auxiliary contacts, and handle options available in accessory section.



a		b			c	
Fuse Type		Load Size ⁽¹⁾			No. of Poles	
Code	Description	Code	Description	Dimensional Ref. ⁽²⁾	Code	Description
C	UL Class CC, CSA Type HRCI-MISC	20	20 A (BS88)	A1	1753	3-poleswitch
J	UL Class J, CSA Type HRCI-J	25	25 A (NFC)	A1		
H	CSA Type HRCII-C	30	30 A (CC, J, HRCI-J)	A1		
B	BS88 ⁽¹⁾		30 A (Non-Fused) ⁽³⁾	A2		
D	DIN ⁽¹⁾		30 A (HRCII-C)	B1		
F	NFC ⁽¹⁾	32	32 A (BS88, NFC)	A1		
N	Non-fused (20...63 A) ⁽³⁾		32 A (DIN)	B1		
		60	60 A (J, HRCI-J, HRCII-C)	B1		
			60 A (Non-Fused) ⁽³⁾	B2		
		63	63 A (BS88, DIN, NFC)	B1		

- (1) Fuse classes BS88, DIN, and NFC are not suitable for use in North American applications
- (2) See [page 33](#) for dimensional reference data.
- (3) Non-fused disconnect switches must use separately installed fuses for upstream short-circuit protection

d	
Fuse Indication	
Code	Description
blank	No fuse status indication
S ⁽¹⁾	Fuse status indication

e	
External Handle	
Code	Description
PY	Std/pistol red/yellow handle, 4/4X, IP66 (Cat. No. 194R-PY)
PB	Std/pistol black handle, 4/4X, IP66 (Cat. No. 194R-PB)
TY	Test mode red/yellow handle, 4/4X, IP66 (Cat. No. 194R-PYT)
TB	Test mode black handle, 4/4X, IP66 (Cat. No. 194R-PBT)

f	
Shaft and NFPA 79 Handle	
Code	Description
S1	Cat. No. 194R-S1 shaft (12 in.)
S2	Cat. No. 194R-S2 shaft (21 in.)
N1	NFPA79 handle with 12 in. shaft and guard tube
N2	NFPA79 handle with 21 in. shaft and guard tube

(1) Class C and J fuses only

Specifications
Fused Disconnect Switches for UL Class Fuses and CSA HRCI-J



Electrical Ratings							
Cat. No.	194R-C30-1753		194R-J30-1753		194R-J60-1753		
CSA Fuse Type/UL Fuse Type	Class CC/HRCI-MISC ‡		Class J/HRCI-J		Class J/HRCI-J		
Maximum Fuse Cartridge Size	[A]	30	30		60		
Maximum Voltage	AC	[V]	600		600		
	DC	[V]	250		250		
Ampere Rating	[A]	30	30		60		
Maximum Short Circuit Prospective Fault Current	[kA]	200	200		200		
Fuse Operating Characteristics							
Maximum Hp, 3-Phase AC		Time Delay	Non-Time Delay	Time Delay	Non-Time Delay	Time Delay	
	200V, 60 Hz	[Hp]	5	3	7.5	3	15
	240V, 60 Hz	[Hp]	5	3	7.5	3	15
	480V, 60 Hz	[Hp]	10	5	15	5	30
	600V, 60 Hz	[Hp]	10	7.5	20	7.5	50
Maximum Hp, 1-Phase AC		Time Delay	Non-Time Delay	Time Delay	Non-Time Delay	Time Delay	
	120V, 60 Hz	[Hp]	0.75	0.5	2	0.5	3
	240V, 60 Hz	[Hp]	2	1.5	3	1.5	10
Maximum Hp, DC		Time Delay	Non-Time Delay	Time Delay	Non-Time Delay	Time Delay	
	125V DC	[Hp]	2	3	3	2	5
	250V DC	[Hp]	3	5	5	5	

‡ Based on Rockwell Automation tests in accordance with the requirements as defined in CSA C22.2 No. 4, IEC 60947-3 and UL 98.

Electrical Ratings						
Cat. No.	194R-J100-1753		194R-J200-1753		194R-J400-1753	
CSA Fuse Type/UL Fuse Type	Class J/HRCI-J		Class J/HRCI-J		Class J/HRCI-J	
Maximum Fuse Cartridge Size	[A]	100	200		400	
Maximum Voltage	AC	[V]	600		600	
	DC	[V]	250§		250§	
Ampere Rating	[A]	100	200		400	
Maximum Short Circuit Prospective Fault Current	[kA]	200	200		200	

§ 3 poles in series

Mechanical Data			
Cat. No.	194R-C30-1753, 194R-J30-1753		194R-J60-1753
Degree of Protection (per IEC 60947-3)	Switch Only	IP20	
	Switch with Terminal Shield & Fuse Carriers	IP20	
Mechanical Endurance §	Operations	10 000	
Operating Torque (Maximum)	N•m	3.5	
	lb•in	35	
Terminal Capacity	Power Terminals	2.5...10 #14...#8	
	Auxiliary Contact Terminals	2.5...4 #14...#12	
Maximum Number of Auxiliary Circuits		6	
Approximate Weight	kg	0.92	
	lbs	2.03	
Minimum Enclosure Size	Height	248 (9-3/4)	
	Width	171 (6-3/4)	
	Depth	148 (5-13/16)	
Switch Dimension Reference (See dimension drawings.)		A1	

§ Based on Rockwell Automation tests in accordance with the requirements as defined in CSA C22.2 No. 4, IEC 60947-3 and UL 98.

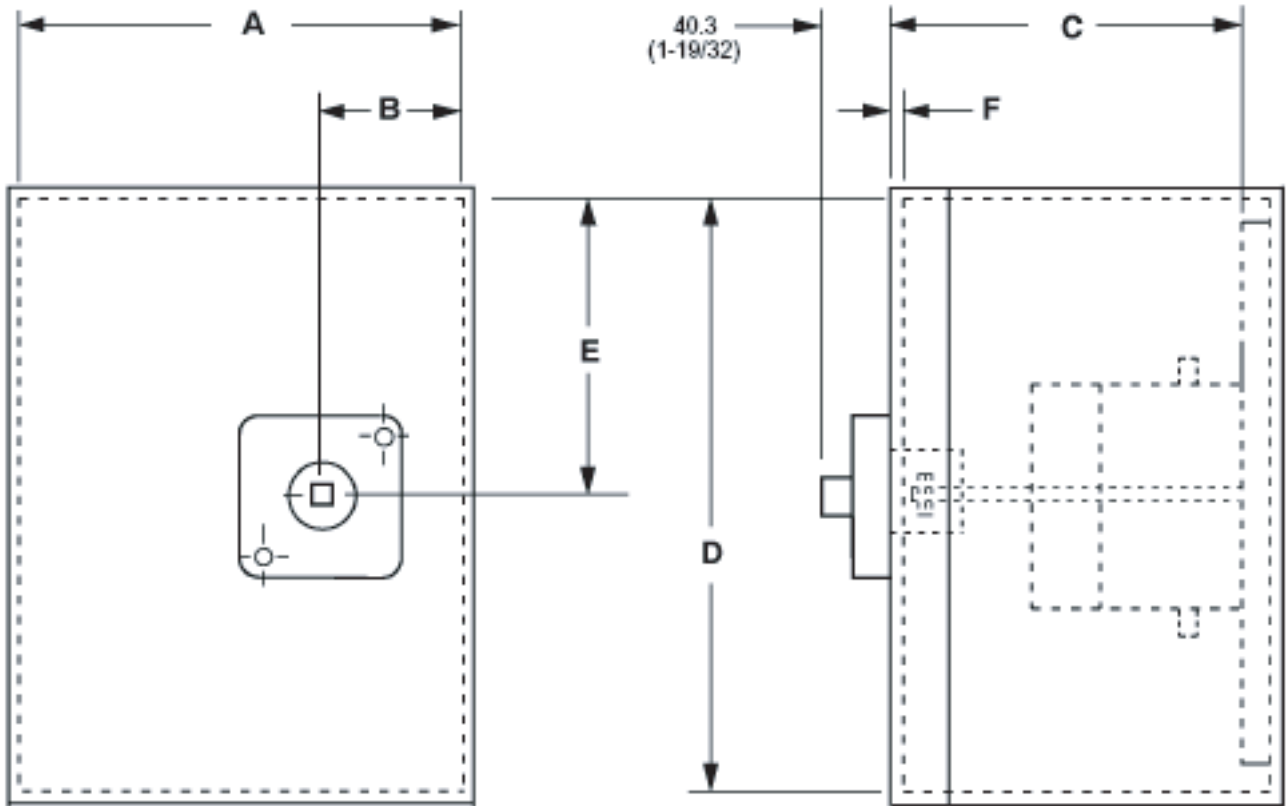
Wiring Schematic

UL LISTED, CSA CERTIFIED	DIMENSION REFERENCE	CIRCUIT
Cat. No.		
194R-C30-1753	A1	
194R-J30-1753	A1	
194R-J60-1753	B1	
194R-H30-1753	B1	
194R-H60-1753	B1	
194R-N30-1753	A2	
194R-N60-1753	B2	

IEC SWITCHES	DIMENSION REFERENCE	CIRCUIT
Cat. No.		
194R-B20-1753	A1	
194R-B32-1753	A1	
194R-B63-1753	B1	
194R-D32-1753	B1	
194R-D63-1753	B1	
194R-F25-1753	A1	
194R-F32-1753	A1	
194R-F63-1753	B1	
194R-*-1754	(See 3-pole Dimension Reference) for Fused Switches	

Disconnect Switch Dim. Ref.: A1, A2, B1, B2 (30 A and 60 A) Enclosure and Operating Handle

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



Enclosure Installation Dimensions

Cat. No.	Dimension Reference	A	B	C		D	E	F	
		Minimum	Minimum	Minimum	Maximum	Minimum	Minimum	Minimum	Maximum
194R-B20-1753	A1	171 (6-3/4)	45 (1-49/64)	147.6 (5-13/16)	454 (17-7/8)	248 (9-3/4)	89 (3-1/2)	1.4 (1/16)	4/78 (3/16)
194R-B32-1753									
194R-C30-1753									
194R-F32-1753									
194R-J30-1753	A2	171 (6-3/4)	45 (1-49/64)	111 (4-3/8)	454 (17-7/8)	248 (9-3/4)	89 (3-1/2)	1.4 (1/16)	4/78 (3/16)
194R-N30-1753									
194R-B63-1753									
194R-D32-1753									
194R-D63-1753	B1	197 (7-3/4)	45 (1-49/64)	147.6 (5-13/16)	454 (17-7/8)	248 (9-3/4)	105 (4-9/64)	1.4 (1/16)	4/78 (3/16)
194R-F63-1753									
194R-H30-1753									
194R-H60-1753									
194R-J60-1753									
194R-N60-1753									
194R-N60-1753	B2	197 (7-3/4)	45 (1-49/64)	111 (4-3/8)	454 (17-7/8)	248 (9-3/4)	105 (4-9/64)	1.4 (1/16)	4/78 (3/16)

