

Catalog Number Explanation

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



Cat. No. 194R-J30-1753



Cat. No. 194R-NE160-1753

194R – J 30 – 1753 S
a b c d

a	
Fuse Type	
Code	Description
C	UL Class CC, CSA Type HRCI-MISC
J	UL Class J, CSA Type HRCI-J
H	CSA Type HRCII-C
B	BS88 ⁽³⁾
D	DIN ⁽³⁾
F	NFC ⁽³⁾
L	UL Class L, CSA Type HRC-L
N	Non-fused (20...63 A) ⁽¹⁾
NE	Non-fused, IEC (100...1250 A) ⁽¹⁾⁽²⁾
NU	Non-fused, UL (100...1200 A) ⁽¹⁾

b	
Load Size ⁽³⁾	
Code	Description
20	20 A (BS88)
25	25 A (NFC)
30	30 A (CC, J, HRCI-J)
	30 A (non-fused)
	30 A (HRCII-C)
32	32 A (BS88, NFC)
	32 A (DIN)
60	60 A (J, HRCI-J, HRCII-C)
	60 A (non-fused)
63	63 A (BS88, DIN, NFC)
100	100 A (BS88, DIN, NFC, J, HRCI-J)
125	125 A (BS88, DIN, NFC, Non-fused)
160	160 A (BS88, DIN, NFC, Non-fused)
200	200 A (BS88, DIN, NFC, J, HRCI-J, non-fused)
250	250 A (BS88, DIN, NFC, J, HRCI-J, non-fused)
400	400 A (BS88, DIN, NFC, J, HRCI-J, non-fused)
600	600 A (BS88, DIN, NFC, J, HRCI-J, non-fused)
630	630 A (BS88, DIN, NFC, non-fused)
800	800 A (BS88, DIN, NFC, L, HRCI-L, non-fused)
1200	1200 A (Non-fused)
1250	1250 A (BS88, DIN, non-fused)

c	
No. of Poles	
Code	Description
1753	3-poleswitch
1754	4-pole switch (non-fused:100...1250 A)

d	
Fuse Indication	
Code	Description
blank	No fuse status indication
S	Fuse status indication (20...63 A)

(1) Non-fused disconnect switches must use separately installed fuses for upstream short-circuit protection

(2) Does not carry UL Certification.

(3) Fuse classes BS88, DIN, and NFC are not suitable for use in North American applications

Product Selection

This section provides information that you need to select a disconnect switch.

UL/CSA Fused Disconnect Switches



Cat. No. 194R-J30-1753



Cat. No. 194R-J100-1753

Note: Your order must include 1) Cat. No. of disconnect switch, 2) shaft, 3) handle, and 4) any accessories.

Rated Current [A]	Maximum Hp Ratings ^{(1)*}							Fuse	Dim. Ref.	Cat. No.
	1-Phase (60 Hz)		3-Phase (60 Hz)			DC				
	120V	240V	240V	480V	600V	125V	250V			
UL Class CC and CSA HRCI-MISC Fuses										
30	2	3	7.5	15	20	3	5	30 A CC, HRCI-Misc	A1	194R-C30-1753
UL Class J and CSA HRCI-J Fuses										
30	2	3	7.5	15	20	3	5	30 A Class J, HRCI-J	A1	194R-J30-1753
60	3	10	15	30	50	5	10	60 A Class J, HRCI-J	B1	194R-J60-1753
CSA HRCII-C Fuses										
30	2	3	7.5	15	20	3	5	30 A HRCII-C	B1	194R-H30-1753
60	3	10	15	30	50	5	10	60 A HRCII-C	B1	194R-H60-1753
UL Class J and CSA HRCI-J Fuses										
30	2	3	7.5	15	20	3	5	30 A Class J, HRCI-J	A1	194R-J30-1753
60	3	10	15	30	50	5	10	60 A Class J, HRCI-J	B1	194R-J60-1753
100	7-1/2	15	30	60	75	7.5	20	100 A Class J, HRCI-J	F5	194R-J100-1753 ⁽²⁾
200	—	25	60	125	150	15	40	200 A Class J, HRCI-J	F6	194R-J200-1753
400	—	50	125	250	350	20	50	400 A Class J, HRCI-J	F7	194R-J400-1753
600	—	—	200	500	500	—	—	600 A Class J, HRCI-J	F8	194R-J600-1753
UL Class L and CSA HRCI-L Fuses										
800	—	—	200	500	500	—	—	800 A Class L, HRCI-L	F9	194R-L800-1753

(1) Time delay fuses may be required to utilize the disconnect switch at its maximum horsepower rating.

(2) Integral terminal lug #12...#10 Solid Cu or #12 - #1 Stranded Cu.

Specifications

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

Table 1 - Electrical Ratings, 30 A and 60 A Devices

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

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

Table 2 - Electrical Ratings, 100 ...800 A Devices

Cat. No.		194R-J100	194R-J200	194R-J400	194R-J600	194R-L800
Rated Current	[A]	100	200	400	600	800
Standards Compliance		UL 98, CSA22.2, No. 4				
Ratings per UL/CSA						
Maximum Voltage, AC	[V]	600				
Maximum Voltage, DC	[V]	250				
Maximum Short-circuit Fault Current	[kA]	200	100	100	100	100
Fuse Type						
UL		J	J	J	J	L
CSA		HRCI-J	HRCI-J	HRCI-J	HRCI-J	HRCI-L
Max. Fuse Rating	[A]	100	200	400	600	800
Max. Hp Rating, 3-phase						
240V	[Hp]	30	60	125	200	200
480V	[Hp]	60	125	250	500	500
600V	[Hp]	75	150	350	500	500
Max. Hp Rating, DC						
125V, 2 poles in series	[Hp]	7.5	15	20	—	—
240V, 3 poles in series	[Hp]	20	40	50	—	—

Table 3 - Mechanical Data, 30 A and 60 A Devices

Cat. No.		194R-J30-1753	194R-J60-1753
Degree of Protection (per IEC 60947-3), Switch Only		IP20	IP20
Degree of Protection (per IEC 60947-3), Switch with Terminal Shield and Fuse Carriers		IP20	IP20
Mechanical Endurance ⁽¹⁾	[Operations]	10 000	10 000
Operating Torque (Maximum)	[N•m]	3.5	3.5
	[Lb•in]	35	35
Terminal Capacity, Power Terminals	[mm ²]	2.5...10	2.5...25
	[AWG]	#14...#8	#14...#4
Terminal Capacity, Auxiliary Contact Terminals	[mm ²]	2.5...4	2.5...4
	[AWG]	#14...#12	#14...#12
Maximum Number of Auxiliary Circuits		6	6
Approximate Weight	[kg]	0.92	1.32
	[lbs]	2.03	2.9
Minimum Enclosure Size	Height [mm (in.)]	248 (9-3/4)	248 (9-3/4)
	Width [mm (in.)]	171 (6-3/4)	197 (7-3/4)
	Depth [mm (in.)]	148 (5-13/16)	148 (5-13/16)
Switch Dimension Reference (See dimension drawings.)		A1	B1

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

Table 4 - Mechanical Data, 100 ... 800 A Devices

Cat. No.		194R-J100-1753	194R-J200-1753	194R-J400-1753	194R-J600-1753	194R-L800-1753
Degree of Protection (per IEC 60947-3), Switch Only		IP20 ⁽²⁾	IP20	IP20	IP20	IP20
Degree of Protection (per IEC 60947-3), Switch with Terminal Shield and Fuse Carriers		IP20	IP20	IP20	IP20	IP20
Mechanical Endurance ⁽¹⁾	Operations	10 000	8 000	6 000	5 000	5 000
Operating Torque (Maximum)	[N•m]					
	[Lb•in]					
Terminal Capacity, Power Terminals	[mm ²]		300 MCM	600 MCM; 2 x 300 MCM	2 x 600 MCM	2 x 600 MCM
	[AWG]	#12...#10 Solid Cu #12...#1 stranded	#6	#2 or 2 x #6	2 x #2	2 x #2
Terminal Capacity, Auxiliary Contact Terminals	[mm ²]	2.5...4	2.5...4	2.5...4	2.5...4	2.5...4
	[AWG]	#14...#12	#14...#12	#14...#12	#14...#12	#14...#12
Maximum Number of Auxiliary Circuits		4	8	8	8	8
Approximate Weight	[kg]	2.4	3.6	4.85	20	20
	[lbs]	5.3	7.9	10.7	44	44
Minimum Enclosure Size	Height [mm (in.)]	406 (16)	610 (24)	1000 (39.4)	1219 (48)	1219 (48)
	Width [mm (in.)]	610 (24)	508 (20)	800 (31.5)	914.5 (36)	914.5 (36)
	Depth [mm (in.)]	152 (6)	152 (6)	200 (11.8)	305 (12)	305 (12)
Switch Dimension Reference (See dimension drawings.)		F5	F6	F7	F8	F8

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

(2) Front-mounted devices only.

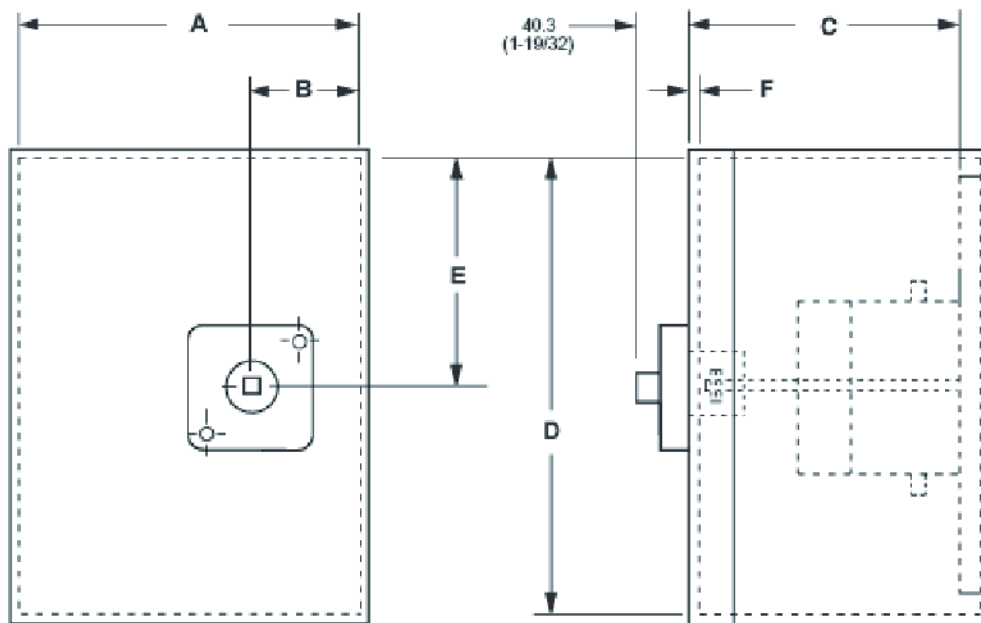
Wiring Schematic

Figure 1 - 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 Column W4 for the width of the 4-pole switch	

Enclosures

Figure 22 - Disconnect Switch Dimension References: A1, A2, B1, B2 (30 A and 60 A) Enclosure and Operating Handle



Cat. No.	Dimension Reference	A	B	C		D	E	F	
		Maximum	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									
194R-N30-1753	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-B63-1753	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-D32-1753									
194R-D63-1753									
194R-F63-1753									
194R-H30-1753									
194R-H60-1753									
194R-J60-1753	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)
194R-N60-1753									