

Rotary Disconnect Switch Specifications

Bulletin Number 194R

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Additional Resources

These documents contain additional information concerning related products from Rockwell Automation.

Resource	Description
Industrial Automation Wiring and Grounding Guidelines, publication 1770-4.1	Provides general guidelines for installing a Rockwell Automation industrial system.
Product Certifications website, http://www.ab.com	Provides declarations of conformity, certificates, and other certification details.

You can view or download publications at http://www.rockwellautomation.com/literature/. To order paper copies of technical documentation, contact your local Allen-Bradley distributor or Rockwell Automation sales representative.







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	201200 A	1001250 A		
Main Applications	UL 98 ratings "suitable as service entrance disconnecting means" UL 508, CSA ratings "suitable as at-motor disconnect"	Disconnecting means		
Functionality	3- or 4-pole fusible or non-fusible disconenct for standard OFF-ON or emergency stop in a main panel disconnect application 4th pole available as modular accessory Test mode switch position	3- or 4-pole non-fusible disconenct 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	 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 	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	Open switch Enclosed: UL/CSA rated enclosure	Open switch		
UL/CSA Electrical Ratings: Rated Voltage U_e	690V AC	690V AC		
Rated Current I _e	201200 A	1001250 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	201200 A @ 690V	1001250 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	Switch bodies: IP2 Fuse carriers: IP30	Switch bodies: IP2		
Optional Accessories	Operator handles Multi-length shafts Auxiliary contacts Terminal covers NFPA 79 internal handle with shaft	IP66 handles Multi-length shafts Auxiliary contacts Terminal covers NFPA 79 internal handle		
Standards/Certifications	UL 98, UL 508 CSA C22.2, No. 14 IEC 60947-3 Low Voltage Switchgear and Controlgear part 3 CE	CSA C22.2, No. 14 IEC 60947-3 Low Voltage Switchgear and Controlgear part 3 CE		
Product Selection	Page 4	Page 4		



Specifications

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

		Electric	al 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 DC	[V] [V]	600 250		600 250		600 250	
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 240V, 60 Hz 480V, 60 Hz 600V, 60 Hz	[Hp] [Hp] [Hp] [Hp]	5 5 10 10	3 3 5 7.5	7.5 7.5 15 20	3 3 5 7.5	15 15 30 50	7.5 7.5 15 15
Maximum Hp, 1-Phase AC							
120V, 60 Hz 240V, 60 Hz	[Hp] [Hp]	0.75 2	0.5 1.5	2	0.5 1.5	3 10	1.5 3
Maximum Hp, DC				- /D			
125V DC 250V DC	[Hp] [Hp]	2 3	3 5	3 5	2 5	5 10	5 10

[‡] 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	194R-J600-1753	194R-J800-1753	
CSA Fuse Type/UL Fuse Type		Class J/HRCI-J					
Maximum Fuse Cartridge Size		[A]	100	200	400	600	800
Maximum Voltage	AC DC	[V] [V]	600 250§	800 250§	600 250§	600 250§	600 250§
Ampere Rating		[A]	100	200	400	600	800
Maximum Short Circuit Prospective Fault Current	t	[kA]	200	200	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 Switch with Terminal Shield & Fuse Carriers		IP20 IP20	IP20 IP20
Mechanical Endurance§	Operations	10 000	10 000
Operating Torque (Maximum)	N•m lb•in	3.5 35	3.5 35
Terminal Capacity Power Terminals	mm² AWG	2.510 #14#8	2.525 #14#4
Auxiliary Contact Terminals	mm² AWG	2.54 #14#12	2.54 #14#12
Maximum Number of Auxiliary Circuits		6	6
Approximate Weight	kg Ibs	0.92 2.03	1.32 2.9
Minimum Enclosure Size Approximate dimensions in millimeters (inches)	Height Width Depth	248 (9-3/4) 171 (6-3/4) 148 (5-13/16)	248 (9-3/4) 197 (7-3/4) 148 (5-13/16)
Switch Dimension Reference (See dimension drawings.)		A1	B1

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