



Bulletin 194R Global Fused and Non-Fused Disconnects

- 20 A...1250 A Sizes
- Fused switch versions:
 - BS88 - DIN
 - CSA HRCII-C - CSA HRCI-MISC - HRC-L
 - UL Class J - UL Class CC - UL Class L
 - NFC
- Operating handle ingress ratings:
 - IP42 (Type 1)
 - IP66 (Type 3R, 3, 12, 4, 4X)
- Handle with or without test mode
- Padlockable handle for up to three padlocks
- 6 auxiliary contacts can be added
- Suitable as service entrance disconnecting means (UL 98)
- Suitable as at-motor disconnecting means (UL 508)

Certifications

UL Listed (File No. E 14841, Guide NLRV; File No. E 47426, Guide WHTY)
 CSA Certified (File No. LR1234)
 CE

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Standards Compliance

IEC 60947/EN60947-3
 BS EN60947-3
 VDE 0660
 CSA 22.2 No. 4
 NEMA KS-1
 UL 98
 UL 508



The Bulletin 194R line of fused and non-fused global disconnect switches provides the flexibility to meet worldwide applications. The disconnect switches are UL Listed and CSA Certified and are designed to meet IEC 60947-3, VDE, DIN, BS and applicable NEMA requirements.

Bulletin 194R
Fused and Non-Fused Disconnects
 Cat. No. Explanation

Catalog Number Explanation



Cat. No. 194R-J30-1753



Cat. No. 194R-NE160-1753

194R - J 30 - 1753 S
 a b c d

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*
D	DIN*
F	NFC*
L	UL Class L, CSA Type HRC-L
N	Non-fused (20...63 A) ‡
NE	Non-fused, IEC (100...1250 A) ‡§
NU	Non-fused, UL (100...1200 A) ‡

Load Size*	
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, HRCII-C)
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, HRCII-C, non-fused)
250	250 A (BS88, DIN, NFC, J, HRCI-J, HRCII-C, non-fused)
400	400 A (BS88, DIN, NFC, J, HRCI-J, HRCII-C, non-fused)
600	600 A (BS88, DIN, NFC, J, HRCI-J, HRCII-C, 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)

No. of Poles	
Code	Description
1753	3-pole switch
1754	4-pole switch (non-fused:100...1250 A; fused: 20...63 A)

Fuse Indication	
Code	Configuration
Blank	No fuse status indication
S	Fuse status indication (20...63 A)

- * See page 29 for dimensional reference data.
- ‡ Non-fused disconnect switches must use separately installed fuses for upstream short-circuit protection
- § Does not carry UL Certification
- * Fuse classes BS88, DIN, and NFC are not suitable for use in North American applications

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

UL/CSA Fused Disconnect Switches



Cat. No. 194R-J30-1753



Cat. No. 194R-J100-1753

Rated Current [A]	Maximum Hp Ratings ★							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	30A HRCII-C	B1	194R-H30-1753
60	3	10	15	30	50	5	10	60A 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
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

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

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

Bulletin 194R
Fused and Non-Fused Disconnects
 Product Selection

UL/CSA Non-fused Disconnect Switches



Cat. No. 194R-N30-1753



Cat. No. 194R-NU200-1753

Non-Fused											
Fuse Description	Rated Current† [A]	No. of Poles	Maximum Hp Ratings							Dim. Ref.	Cat. No.
			1-Phase (60 Hz)		3-Phase (60 Hz)			DC			
			120V	240V	240V	480V	600V	125V	250V		
Non-fused disconnect switches must use separately installed fuses for upstream short circuit protection.	30	3	2	3	7.5	15	20	3	5	A2	194R-N30-1753
	60	3	3	10	15	30	40	5	10	B2	194R-N60-1753
	100	3	7-1/2	15	30	75	100	10	15	F1	194R-NU100-1753
		4	7-1/2	15	30	75	100	10	15	F1	194R-NU100-1754
	200	3	—	50	75	150	200	15	15	F1	194R-NU200-1753
		4	—	50	75	150	200	15	15	F1	194R-NU200-1754
	400	3	—	—	125	250	350	20	50	F2	194R-NU400-1753
		4	—	—	125	250	350	20	50	F2	194R-NU400-1754
	600	3	—	—	200	400	350	20	50	F3	194R-NU600-1753
		4	—	—	200	400	350	20	50	F3	194R-NU600-1754
	800	3	—	—	200	500	500	—	—	F4	194R-NU800-1753
		4	—	—	200	500	500	—	—	F4	194R-NU800-1754
	1200	3	—	—	200	500	500	—	—	F4	194R-NU1200-1753
		4	—	—	200	500	500	—	—	F4	194R-NU1200-1754

† 30 A UL-rated device has I_{the} of 40 A per IEC. 60 A UL-rated device has I_{the} of 80 A per IEC.

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

IEC Fused Disconnect Switches



Cat. No. 194R-F32-1753

Cat. No. 194R-F63-1753



Cat. No. 194R-D160-1753

BS88 Fused Disconnect Switches*

Load Rating I_e [A]	Ratings (AC23)			Fuse	Dim. Ref.	Cat. No.
	With Fuse Links					
	3-Phase Maximum kW (50 Hz)					
	200/230V	380/400/415V	660/690V			
20	5.5	11	15	BS88 A1	A1	194R-B20-1753
32	9	18.5	30	BS88 A2	A1	194R-B32-1753
63	18.5	30	55	BS88 A3	B1	194R-B63-1753
100	—	57	90	BS88, size A4	F13	194R-B100-1753
160	—	80	110	BS88, size A4	F14	194R-B160-1753
200	—	100	150	BS88, size B1-B2	F15	194R-B200-1753
250	—	132	220	BS88, size B1-B3	F15	194R-B250-1753
400	—	220	220	BS88, size B1- B4	F16	194R-B400-1753
630	—	355	295	BS88, size C1- C2	F17	194R-B630-1753
800	—	450	400	BS88, size C1-C3	F17	194R-B800-1753
1250	—	560	400	BS88, size D1	F18	194R-B1250-1753

DIN Fused Disconnect Switches*

Load Rating I_e [A]	Ratings (AC23)			Fuse	Dim. Ref.	Cat. No.
	With Fuse Links					
	3-Phase Maximum kW (50 Hz)					
	200/230V	380/400/415V	660/690V			
32	9	18.5	30	NH 000	B1	194R-D32-1753
63	18.5	30	55	NH 000	B1	194R-D63-1753
125	—	63	90	DIN, size T00	F13	194R-D125-1753
160	—	80	110	DIN, size T00	F13	194R-D160-1753
250	—	132	220	DIN, size T1	F15	194R-D250-1753
400	—	220	220	DIN, size T2	F16	194R-D400-1753
630	—	355	295	DIN, size T3	F17	194R-D630-1753
800	—	450	400	DIN, size T3	F17	194R-D800-1753
1250	—	560	400	DIN, size T4	F18	194R-D1250-1753

NFC Fused Disconnect Switches*

Load Rating I_e [A]	Ratings (AC23)			Fuse	Dim. Ref.	Cat. No.
	With Fuse Links					
	3-Phase Maximum kW (50 Hz)					
	200/230V	380/400/415V	660/690V			
25	7.5	11	22	NFC 14x51 mm	A1	194R-F25-1753
32	9	18.5	30	NFC 14x51 mm	A1	194R-F32-1753
63	18.5	30	55	NFC 22x58 mm	B1	194R-F63-1753

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

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

Bulletin 194R
Fused and Non-Fused Disconnects
 Product Selection

IEC Non-fused Disconnect Switches



Cat. No. 194R-N30-1753



Cat. No. 194R-NE160-1753

Non-Fused												
Fuse Description	Rated Current† [A]	No. of Poles	Maximum Hp Ratings				Maximum kW Ratings			Dim. Ref.	Cat. No.	
			1-Phase (60 Hz)		DC		3-Phase (50 Hz)					
			120V	240V	125V	250V	220/230V	380/400/415V	660/690V			
Non-fused disconnect switches must use separately installed fuses for upstream short circuit protection.	30	3	2	3	3	5	7.5	15	20	A2	194R-N30-1753	
	60	3	3	10	5	10	15	30	40	B2	194R-N60-1753	
	125	3	—	—	—	—	—	—	63	55	F1	§ 194R-NE125-1753
		4	—	—	—	—	—	—	63	55	F1	§ 194R-NE125-1754
	160	3	—	—	—	—	—	—	80	55	F1	§ 194R-NE160-1753
		4	—	—	—	—	—	—	80	55	F1	§ 194R-NE160-1754
	250	3	—	—	—	—	—	—	132	90	F2	§ 194R-NE250-1753
		4	—	—	—	—	—	—	132	90	F2	§ 194R-NE250-1754
	400	3	—	—	—	—	—	—	220	150	F3	§ 194R-NE400-1753
		4	—	—	—	—	—	—	220	150	F3	§ 194R-NE400-1754
	630	3	—	—	—	—	—	—	280	150	F3	§ 194R-NE630-1753
		4	—	—	—	—	—	—	280	150	F3	§ 194R-NE630-1754
	800	3	—	—	—	—	—	—	450	185	F4	§ 194R-NE800-1753
		4	—	—	—	—	—	—	450	185	F4	§ 194R-NE800-1754
	1250	3	—	—	—	—	—	—	710	415	F5	§ 194R-NE1250-1753
		4	—	—	—	—	—	—	710	415	F5	§ 194R-NE1250-1754

† 30 A UL-rated device has I_{the} of 40 A per IEC. 60 A UL-rated device has I_{the} of 80 A per IEC.

§ Does not carry UL Certification.

‡ 30 A UL-rated device has I_{the} of 40 A per IEC. 60 A UL-rated device has I_{the} of 80 A per IEC.

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

Fused and Non-Fused Disconnects

Product Selection

Complete UL/CSA Disconnect Switch Kits

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

Product Selection — Kits

Catalog Number Explanation



Switch body



Operating handle



NFPA Handle and shaft

194R – J 30 – 1753 SΔ – TY N1
a *b* *c* *d* *e* *f*

a

Fuse Type	
Code	Description
C	UL Class CC, CSA Type HRCI-MISC (30 A)
J	UL Class J, CSA Type HRCI-J (30 A or 60 A)
H	CSA Type HRCII-C (30 A or 60 A)
B	BS88 (20 A, 32 A, or 63 A)*
D	DIN (32 A or 63 A)*
F	NFC (25 A, 32 A, or 63 A)*
N	Non-fused (30 A or 60 A)‡

c

No. of Poles	
Code	Description
1753	3-pole switch

d

Fuse Indication Configuration	
Code	Description
Blank	No fuse status indication
SΔ	Fuse status indication

Δ Class C and J fuses only

f

Shaft & NFPA79 Handle	
Code	Description
R1	Cat. No. 194R-R1 shaft (10.3 in.)
R2	Cat. No. 194R-R2 shaft (18.0 in.)
N1	Cat. No. 194R-NHR1 NFPA79 handle with 12 in. shaft and guard tube
N2	Cat. No. 194R-NHR2 NFPA79 handle with 21 in. shaft and guard tube

b

Load Size*		
Code	Description	Dimensional Ref. ★
20	20 A (BS88)	A1
25	25 A (NFC)	A1
30	30 A (CC, J, HRCI-J)	A1
	30 A (Non-Fused)‡	A2
	30 A (HRCII-C)	B1
32	32 A (BS88, NFC)	A1
	32 A (DIN)	B1
60	60 A (J, HRCI-J, HRCII-C)	B1
	60 A (Non-Fused)‡	B2
63	63 A (BS88, DIN, NFC)	B1

e

External Handle	
Code	Description
PY	Std/pistol red/yellow handle, 4/4X, IP66 (Cat. No. 194R-HS4E)
PB	Std/pistol black handle, 4/4X, IP66 (Cat. No. 194R-HS4)
TY	Test mode red/yellow handle, 4/4X, IP66 (Cat. No. 194R-HST4E)
TB	Test mode black handle, 4/4X, IP66 (Cat. No. 194R-HST4)
LY	Extended length red/yellow handle, 4/4X, IP66 (Cat. No. 194R-HS4EL)
LB	Extended length black handle, 4/4X, IP66 (Cat. No. 194R-HS4L)

★ See page 29 for dimensional reference data.

‡ Non-fused disconnect switches must use separately installed fuses for upstream short-circuit protection

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

Fused and Non-Fused Disconnects

Catalog Number Explanation

UL Enclosed Disconnect Switches (Fused and Non-Fused)

Catalog Number Explanation



194R – **C** **J** **30** – **1753** **SΔ** – **TB** – **P**
a *b* *c* *d* *e* *f* *g*

a

Enclosure Type	
Code	Description
K	Thermoplastic, Type 4/4X
F	Painted metal, Type 3/4/12
C	Stainless steel, Type 4/4X

b

Fuse Type	
Code	Description
C	UL Class CC, CSA Type HRCI-MISC (30 A)
J	UL Class J, CSA Type HRCI-J (30 A or 60 A)
H	CSA Type HRCII-C (30 A or 60 A)
B	BS88 (20 A, 32 A, or 63 A)*
D	DIN (32 A or 63 A)*
F	NFC (25 A, 32 A, or 63 A)*
N	Non-fused (30 A or 60 A)‡

c

Load Size*		
Code	Description	Dimensional Ref. ★
20	20 A (BS88)	A1
25	25 A (NFC)	A1
30	30 A (CC, J, HRCI-J)	A1
	30 A (Non-Fused) ‡	A2
	30 A (HRCII-C)	B1
32	32 A (BS88, NFC)	A1
	32 A (DIN)	B1
60	60 A (J, HRCI-J, HRCII-C)	B1
	60 A (Non-Fused) ‡	B2
63	63 A (BS88, DIN, NFC)	B1

d

No. of Poles	
Code	Description
1753	3-pole switch

e

Fuse Indication	
Code	Configuration
Blank	No fuse status indication
SΔ	Fuse status indication

Δ Class C and J fuses only

f

External Handle	
Code	Description
PY	Std red/yellow handle, 4/4X, IP66 (Cat. No. 194R-HS4E)
PB	Std black handle, 4/4X, IP66 (Cat. No. 194R-HS4)
TY	Test mode red/yellow handle, 4/4X, IP66 (Cat. No. 194R-HST4E)
TB	Test mode black handle, 4/4X, IP66 (Cat. No. 194R-HST4)
LY	Extended length red/yellow handle, 4/4X, IP66 (Cat. No. 194R-HS4EL)
LB	Extended length black handle, 4/4X, IP66 (Cat. No. 194R-HS4L)

g

Other Accessories	
Code	Configuration
Blank	No accessory
P	Padlock attachment

★ See page 29 for dimensional reference data.

‡ Non-fused disconnect switches must use separately installed fuses for upstream short-circuit protection

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

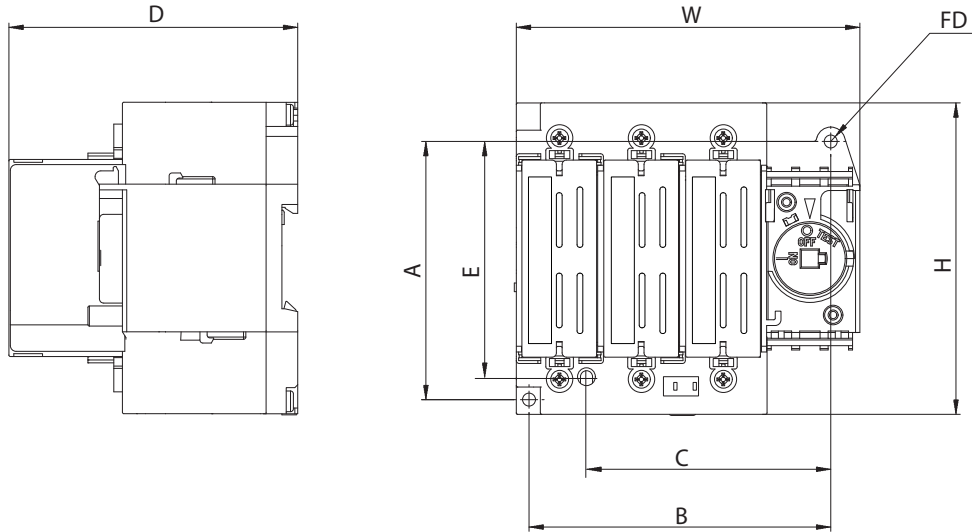
Bulletin 194R
Fused and Non-Fused Disconnects
 Specifications

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	

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

Disconnect Switch Dimension References A1, A2, B1, and B2 (30 A and 60 A)



Disconnect Switch Dimension Reference	Approximate Dimensions mm (in)							
	H	W	D	A	B	C‡	E‡	FD
A1	108 (4-1/4)	120 (4-3/4)	101 (4)	90 (3-9/16)	105 (4-1/8)	85 (3-11/32)	82 (3-15/64)	2-M4, 2-#8
A2	108 (4-1/4)	120 (4-3/4)	80 (3-1/8)	90 (3-9/16)	105 (4-1/8)	85 (3-11/32)	82 (3-15/64)	2-M4, 2-#8
B1	113 (4-29/64)	142 (5-19/32)	114 (4-31/64)	100 (3-15/16)	120 (4-23/32)	N/A	N/A	4-M4, 4-#8
B2	113 (4-29/64)	142 (5-19/32)	93 (3-43/64)	100 (3-15/16)	120 (4-23/32)	N/A	N/A	4-M4,4-#8

‡ Mounting holes for backward compatibility with Bulletin 194R legacy switches.