

UL 98 and UL 508 enclosed disconnect switches

Enclosed fused and non-fused rotary disconnect switches from 16 to 1200 A in NEMA 1, 3R, 4, 4X, 12 enclosures.

Ratings

- Volts
 - 600 Vac
 - 250-600 Vdc*
- Amps 16-1200 A
- SCCR
 - UL 98 25-200 kA
 - UL 508 10-65 kA

* Some non-fused disconnect switches are not rated for DC applications.

Agency information

- UL 98 Listed, Guide WIAx, WIAx7, File E182262
- UL 508 Listed, Guide NLRV, NLRV, File E155129
- cULus Listed to Canadian Standard 22.2, No. 14
- cULus Listed to Canadian Standard 22.2, No. 4
- Conforms with IEC 60947-3
- RoHS compliant
- CE

Operating temperature

- -20°C to 70°C

4X plastic enclosure flammability ratings

- Polycarbonate UL 94-5V A-0
- Fiberglass UL 94-5V

Field installed accessories

- Auxiliary contacts
- Terminal shrouds
- Switched 4th pole (UL 508 only)

Online resources

Visit Eaton.com/bussmannseries for:

- CAD drawings
- Instruction sheets
- UL information

Features

- UL 98 Listed for general purpose, main disconnect, or branch circuit protection up to 600 Vac/dc
- UL 508 Listed for motor disconnect applications up to 600 Vac
- Multiple field installed accessories enhance the enclosed disconnect switches to fit the desired application
- Lockout/tagout: Up to three 1/4" shank padlocks can be installed on external handles



NEMA 1, 3R, 4 and 12



NEMA 4X 304 stainless steel

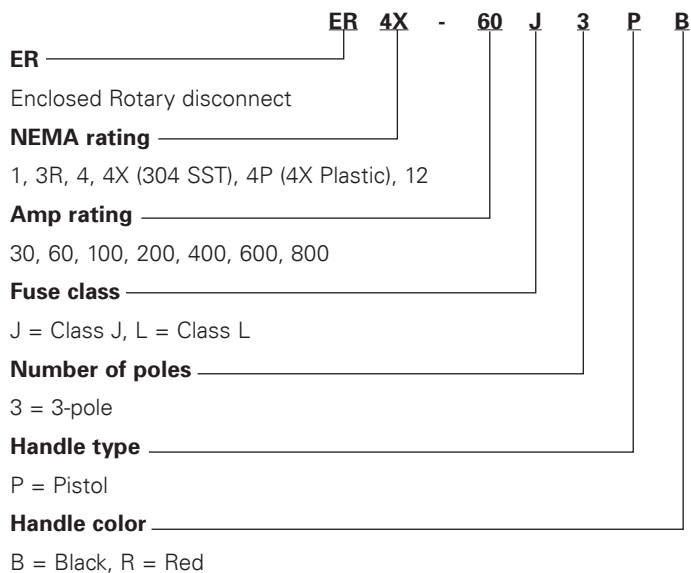


NEMA 4X polycarbonate or fiberglass

UL 98 enclosed fused disconnects — 30 to 800 A

3-pole UL 98 600 Vac

Catalog number system:



Catalog numbers

All catalog numbers provided with integral or installed lugs and a black selector handle. Order Red/yellow handle by changing the suffix "B" to "R."



NEMA 1, 3R, 4 and 12

NEMA 4X
304 stainless steel

NEMA 4X

30-800A UL 98 fused switches

Available Bussmann series fuses

Fuse class	Catalog symbol/type
J	LPJ time-delay, current limiting
	JKS fast-acting fuses
	DFJ high speed drive fuse
L	KRP-C time-delay, current limiting
	KTU fast-acting
	KLU time-delay
	KRP-CL (225-600 A)

Switch amps	Fuse class	NEMA enclosure type and catalog no.					
		1	3R	4	4X plastic ¹	4X 304 stainless	12
30	J	ER1-30J3PB	ER3R-30J3PB	ER4-30J3PB	ER4P-30J3PB	ER4X-30J3PB	ER12-30J3PB
60		ER1-60J3PB	ER3R-60J3PB	ER4-60J3PB	ER4P-60J3PB	ER4X-60J3PB	ER12-60J3PB
100		ER1-100J3PB	ER3R-100J3PB	ER4-100J3PB	ER4P-100J3PB	ER4X-100J3PB	ER12-100J3PB
200		ER1-200J3PB	ER3R-200J3PB	ER4-200J3PB	ER4P-200J3PB	ER4X-200J3PB	ER12-200J3PB
400		ER1-400J3PB	ER3R-400J3PB	ER4-400J3PB	ER4P-400J3PB	ER4X-400J3PB	ER12-400J3PB
600	L	ER1-600J3PB	ER3R-600J3PB	ER4-600J3PB	ER4P-600J3PB	ER4X-600J3PB	ER12-600J3PB
800		ER1-800L3PB	ER3R-800L3PB	ER4-800L3PB	ER4P-800L3PB	ER4X-800L3PB	ER12-800L3PB

¹ Enclosures ≤100 A are polycarbonate, flammability rating UL 94-5V A-V0, ≥200 A are fiberglass, flammability rating UL 94-5V.

Switch ratings

For wire types, ranges and terminal torques, see table on page 11-55.

Switch amps	Switch cat. no.	Fuse class	Poles	Voltage		SCCR @ Vac (kA)	Max. Hp @ 600 Vac
				Vac	Vdc		
30	RDF30J-3	J	3	600	250	200	20
60	RDF60J-3				250		50
100	RDF100J-3				N/A		75
200	RDF200J-3				250		150
400	RDF400J-3				250		350
600	RDF600J-3	L			600		500
800	RDF800L-3						

UL 98 enclosed fused disconnects — 30 to 800 A

Enclosure weights and dimensions

Catalog no. family	Amps	Fuse class	NEMA enclosure	H x W x D (in)	Mounting centers h x w (in)			Weight (lbs)
					A	B	C	
ER_30J	30		1, 3R, 4, 12	10x10x6	8.3x8.3	—	—	15
			4X-SST		—	10.7x8.3	8.3x10.7	
			4X-plastic ¹		—	12x5.6	7.6x10	
ER_60J	60		1, 3R, 4, 12	12x10x6	10.3x8.3	—	—	19
			4X-SST		—	12.7x8.3	8.3x10.7	
			4X-plastic ¹		—	14x7.6	9.6x12	
ER_100J	100	J	1, 3R, 4, 12	14x12x6	12.3x10.3	—	—	21
			4X-SST		—	14.7x10.3	12.3x12.7	
			4X-plastic ¹		—	14x7.6	9.6x12	
ER_200J	200		1, 3R, 4, 12	24x20x8	22.3x18.3	—	—	55
			4X-SST		—	24.7x18.3	22.3x20.7	
			4X-plastic ¹		—	25.75x14	—	
ER_400J	400		1, 3R, 4, 12	48x36x12	46.3x34.3	—	—	188
			4X-SST		—	48.7x34.3	46.3x36.7	
			4X-plastic ¹		—	50x28.5	—	
ER_600J	600		1, 3R, 4, 12	48x36x12	46.3x34.3	—	—	216
			4X-SST		—	48.7x34.3	46.3x36.7	
			4X-plastic ¹		—	50x28.5	—	
ER_800L	800	L	1, 3R, 4, 12	48x36x12	46.3x34.3	—	—	216
			4X-SST		—	48.7x34.3	46.3x36.7	
			4X-plastic ¹		—	50x28.5	—	

¹ Enclosures ≤100 A are polycarbonate, flammability rating UL 94-5V A-V0, ≥200 A are fiberglass, flammability rating UL 94-5V.

Available field-installed accessories - order separately

Auxiliary contacts - for 30 to 800 amp switches



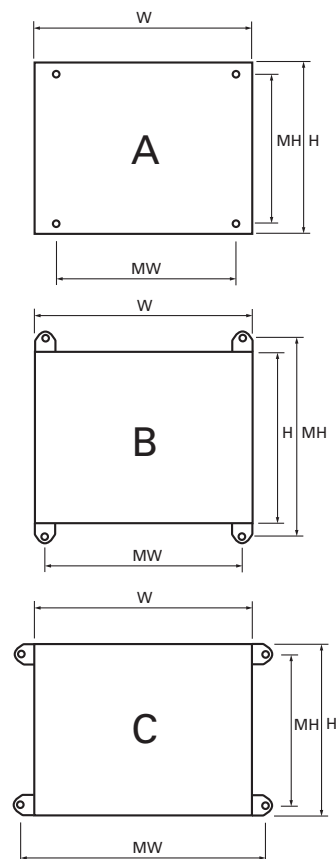
Contact type	No. of contacts	Cont. amp rating	Vac	Max. units per switch	Catalog no.
NO	1	10	600	4 (30 to 200 A)	BAC05
NC				8 (400 to 800 A)	BAC06

Terminal shrouds

For 200 to 800 amp switches - includes terminal shroud for lineside or loadside



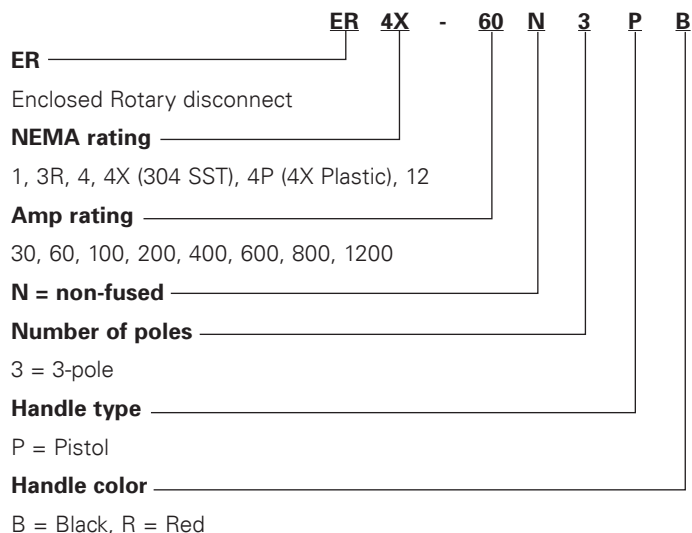
Switch amps	Poles	Catalog no.
200	3	TSH8-3TB
400		TSH9-3TB
600-800		TSH10-3TB



UL 98 enclosed non-fused disconnects — 30 to 1200 A

3-pole UL 98 600 Vac

Catalog number system:



Catalog numbers

All Catalog numbers provided with integral or installed lugs and a black selector handle. Order Red/yellow handle by changing the suffix "B" to "R."



NEMA 1, 3R, 4 and 12



NEMA 4X
304 stainless steel



NEMA 4X

200-1200A UL 98 non-fused switches



NEMA 1, 3R, 4 and 12



NEMA 4X
304 stainless steel



NEMA 4X

30-800A UL 98 non-fused switches

Amps	NEMA enclosure type and catalog no.					
	1	3R	4	4X plastic ¹	4X 304 stainless	12
30	ER1-30N3PB	ER3R-30N3PB	ER4-30N3PB	ER4P-30N3PB	ER4X-30N3PB	ER12-30N3PB
60	ER1-60N3PB	ER3R-60N3PB	ER4-60N3PB	ER4P-60N3PB	ER4X-60N3PB	ER12-60N3PB
100	ER1-100N3PB	ER3R-100N3PB	ER4-100N3PB	ER4P-100N3PB	ER4X-100N3PB	ER12-100N3PB
200	ER1-200N3PB	ER3R-200N3PB	ER4-200N3PB	ER4P-200N3PB	ER4X-200N3PB	ER12-200N3PB
400	ER1-400N3PB	ER3R-400N3PB	ER4-400N3PB	ER4P-400N3PB	ER4X-400N3PB	ER12-400N3PB
600	ER1-600N3PB	ER3R-600N3PB	ER4-600N3PB	ER4P-600N3PB	ER4X-600N3PB	ER12-600N3PB
800	ER1-800N3PB	ER3R-800N3PB	ER4-800N3PB	ER4P-800N3PB	ER4X-800N3PB	ER12-800N3PB
1200	ER1-1200N3PB	ER3R-1200N3PB	ER4-1200N3PB	N/ A	ER4X-1200N3PB	ER12-1200N3PB

¹ Enclosures ≤100 A are polycarbonate, flammability rating UL 94-5V A-V0, ≥200 A are fiberglass, flammability rating UL 94-5V.

Switch ratings

For wire types, ranges and terminal torques, see table on page 11-72.

Amps	Switch catalog no.	Poles	Vac	SCCR (kA)	Max. Hp @ 600 Vac
30	RD30-3	3	600	100	25
60	RD60-3			25/100*	50
100	RD100-3				200
200	RD200-3			200	
400	RD400-3			350	
600	RD600-3			100	500
800	RD800-3				
1200	RD1200-3				

* 25 kA @ 600 Vac, 100 kA @ 480 Vac.

UL 98 enclosed non-fused disconnects — 30 to 1200 A

Enclosure weights and dimensions

Catalog no. family	Amps	NEMA enclosure	H x W x D (in)	Mounting centers h x w (in)			Weight (lbs)
				A	B	C	
ER_-30	30	1, 3R, 4, 12	10x8x6	8.3x6.3	—	—	11
		4X-SST	—	—	10.7x6.3	8.3x8.7	11
		4X-plastic (1)	9x9x6	—	10x3.6	5.6x8	5
ER_-60	60	1, 3R, 4, 12	10x8x6	8.3x6.3	—	—	12
		4X-SST	—	—	10.7x6.3	8.3x8.7	12
		4X-plastic (1)	9x9x6	—	10x3.6	5.6x8	5
ER_-100	100	1, 3R, 4, 12	12x10x6	10.3x8.3	—	—	12
		4X-SST	—	—	12.7x8.3	8.3x10.7	12
		4X-plastic (1)	13x13x6	—	14x7.6	9.6x12	8
ER_-200	200	1, 3R, 4, 12	20x16x8	18.3x14.3	—	—	39
		4X-SST	—	—	20.7x14.3	18.3x16.7	39
		4X-plastic (1)	20x17x12	—	21.5x10.1	—	31
ER_-400	400	1, 3R, 4, 12	36x30x8	34.3x28.3	—	—	122
		4X-SST	—	—	36.7x28.3	34.3x30.7	122
		4X-plastic (1)	37x32x14	—	38x28.9	—	103
ER_-600	600	1, 3R, 4, 12	48x36x12	46.3x34.3	—	—	209
		4X-SST	—	—	48.7x34.3	46.3x36.7	209
		4X-plastic (1)	51x37x 14	—	50x28.5	—	187
ER_-800	800	1, 3R, 4, 12	48x36x12	46.3x34.3	—	—	211
		4X-SST	—	—	48.7x34.3	46.3x36.7	211
		4X-plastic (1)	51x37x 14	—	50x28.5	—	189
ER_-1200	1200	1, 3R, 4, 12	60x36x16	58.3x34.3	—	—	268
		4X-SST	60x36x16	—	60.7x34.3	58.3x36.7	268

1 Enclosures ≤100 A are polycarbonate, flammability rating UL 94-5V A-V0, ≥200 A are fiberglass, flammability rating UL 94-5V.

Available field-installed accessories - order separately

Auxiliary contacts for 30 to 1200 amp switches.



Switch amps	Contact type	No. of contacts	Cont. amp rating	Vac	Max. units per switch	Catalog no.
30-100	NO + NC	1 of each	10	240	4	BAC01*
	NO	2				BAC02*
200-1200	NO + NC	1 of each	10.1	125-250	2	BAC03**
	NO + NC	1 of each				BAC04**
	NO + NC	1 of each	1	125		BAC11**
	NO + NC	1 of each				BAC12**

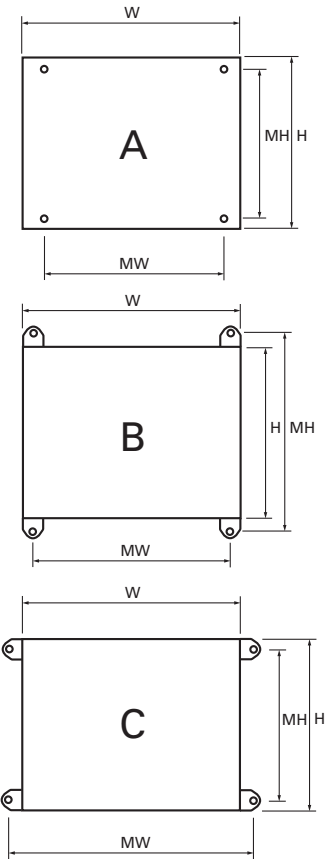
* Two (2) Units per switch max.

**For one auxiliary contact, install either BAC03 or BAC11. For two auxiliary contacts, install BAC03 + BAC04, or BAC11 + BAC12.

Terminal shrouds for 200 to 800 amp switches



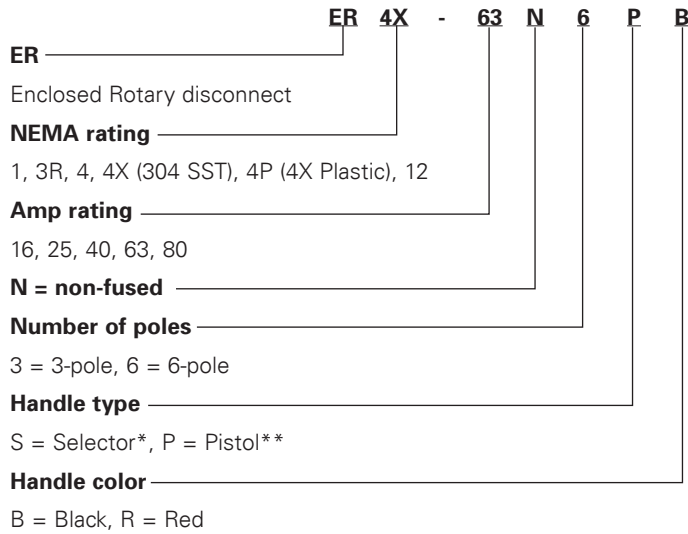
Switch amps	Poles	Location on switch	Catalog no.
30-100	3	Lineside and loadside	TSH3-3TB
200		Lineside	TSH4-3T
		Loadside	TSH4-3B
400		Lineside	TSH5-3T
		Loadside	TSH5-3B
600		Lineside or loadside	TSH6-3TB
800-1200			TSH7-3TB



UL 508 enclosed non-fused disconnect — 16 to 80 A

3-/6-pole UL 508 600 Vac

Catalog number system:



* 6-Pole switches only, selector handle does not interlock the enclosure door.
**3-pole switches only.

Catalog numbers

All catalog numbers provided with a black selector handle. Order red/yellow handle by changing the suffix "B" to "R."



NEMA 1, 3R, 4 and 12



NEMA 4X
304 stainless steel



NEMA 4X

16-80 A UL 508 non-fused switches

Disconnect switches

Amps	Poles	NEMA enclosure and catalog no.					
		1	3R	4	4X plastic ¹	4X 304 stainless	12
16	3	ER1-16N3PB	ER3R-16N3PB	ER4-16N3PB	ER4P-16N3PB	ER4X-16N3PB	ER12-16N3PB
	6	ER1-16N6SB	ER3R-16N6SB	ER4-16N6SB	ER4P-16N6SB	ER4X-16N6SB	ER12-16N6SB
25	3	ER1-25N3PB	ER3R-25N3PB	ER4-25N3PB	ER4P-25N3PB	ER4X-25N3PB	ER12-25N3PB
	6	ER1-25N6SB	ER3R-25N6SB	ER4-25N6SB	ER4P-25N6SB	ER4X-25N6SB	ER12-25N6SB
40	3	ER1-40N3PB	ER3R-40N3PB	ER4-40N3PB	ER4P-40N3PB	ER4X-40N3PB	ER12-40N3PB
	6	ER1-40N6SB	ER3R-40N6SB	ER4-40N6SB	ER4P-40N6SB	ER4X-40N6SB	ER12-40N6SB
63	3	ER1-63N3PB	ER3R-63N3PB	ER4-63N3PB	ER4P-63N3PB	ER4X-63N3PB	ER12-63N3PB
	6	ER1-63N6SB	ER3R-63N6SB	ER4-63N6SB	ER4P-63N6SB	ER4X-63N6SB	ER12-63N6SB
80	3	ER1-80N3PB	ER3R-80N3PB	ER4-80N3PB	ER4P-80N3PB	ER4X-80N3PB	ER12-80N3PB
	6	ER1-80N6SB	ER3R-80N6SB	ER4-80N6SB	ER4P-80N6SB	ER4X-80N6SB	ER12-80N6SB

¹ Polycarbonate enclosure flammability rating UL 94-5V A-V0.

Switch ratings

For wire types, ranges and terminal torques, see table on page 11-80.

Amps	Switch catalog no.	Vac	SCCR with max upstream Class J fuse	Max. Hp @ 600 V
16	RD16-3-508	600	65 kA /30 A	10
25	RD25-3-508			20
40	RD40-3-508		65 kA /30 A — 10 kA / 60 A	25
63	RD63-3-508			40
80	RD80-3-508		50 kA / 100 A	40

Note: Voltage, SCCR and horsepower ratings are the same for 3- and 6-pole switches.

UL 508 enclosed non-fused disconnect — 16 to 80 A

Enclosure weights and dimensions

NEMA enclosure	Poles	Switch amps	H x W x D (in)	Mounting centers h x w (in)			Weight (lbs)
				A	B	C	
1, 3R, 4, 12	3	16-80	8x6x6	6.3x4.3	—	—	8
	6		10x8x6	8.3x6.3	—	—	11
4X-304 SST	3	16-63	8x6x6	—	8.7x4.3	6.3x6.7	8
	6		10x8x6	—	10.7x6.3	8.3x8.7	11
4X-plastic ¹	3	80	7.4x8.7x5.8	—	8x3.6	3.6x8	4
	6	16-8 A	11.4x10.7x6.3	—	12x5.6	7.6x10	6

¹ Polycarbonate.

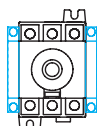
Available field-installed accessories - order separately

Auxiliary contacts



Contact type	No. of contacts	Cont. amp rating	Vac	Max. units per switch	Catalog no.
NO + NC	1 Ea.	10	240	2 (1 per side, 4 contacts total)	BAC01
NO	2				BAC02

Auxiliary contact configurations



Terminal shrouds

Includes terminal shroud for both lineside and loadside.



Switch amps	Poles	Location on switch	Catalog no.
16-40	3	Lineside and loadside	TSH1-3TB
63-80			TSH2-3TB

Switched 4th pole

Converts 3-pole switch to 4-pole switch.



Switch amps	Catalog no.
16	POLE-16
25	POLE-25
40	POLE-40

