

UL 508 Non-Fused Rotary Disconnect Switches—16 to 80A

UL Electrical Specifications



RD16-3-508

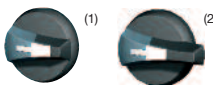
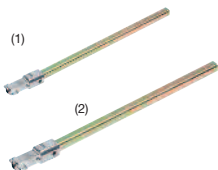
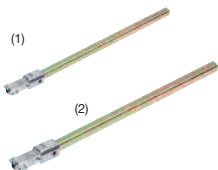
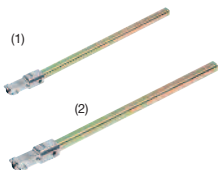
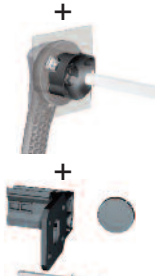


RD16-3-508 with 6-Pole Conversion Kit

Part Number	RD16-3-508	RD25-3-508	RD40-3-508	RD63-3-508	RD80-3-508
UL Standard	UL 508	UL 508	UL 508	UL 508	UL 508
Max Ampacity	16A	25A	40A	63A	80A
Handle Operation	Front/Side	Front/Side	Front/Side	Front/Side	Front/Side
UL Electrical Ratings					
Max Voltage (AC)	600Vac	600Vac	600Vac	600Vac	600Vac
Maximum Horsepower Ratings					
3-Phase, 208Vac	3	7.5	7.5	15	15
3-Phase, 240Vac	5	7.5	7.5	20	20
3-Phase, 480Vac	10	15	20	40	40
3-Phase, 600Vac	10	20	25	40	40
Electrical Characteristics					
SCCR with Fuse	65kA	65kA	10/65kA	50/65kA	50/65kA
Recommended Upstream Fuse Class	J	J	J	J	J
Max. Fuse Rating	30A	30A	60/30A	100/60A	100/60A
Terminals	Integral	Integral	Integral	Integral	Integral
Wire Type	75°C Cu	75°C Cu	75°C Cu	75°C Cu	75°C Cu
Wire Range & Torque - Lb-In (N•m)					
Solid					
Single	#14-10	#14-10	#14-10	#14-10	#14-10
Dual	26.5 (3)	26.5 (3)	26.5 (3)	31.1 (3.5)	31.1 (3.5)
#12	#12	#12	#12	#12	#12
26.5 (3)	26.5 (3)	26.5 (3)	26.5 (3)	31.1 (3.5)	31.1 (3.5)
Stranded					
Single	#14-4	#14-4	#14-4	#14-1	#14-1
Dual	26.5 (3)	26.5 (3)	26.5 (3)	31.1 (3.5)	31.1 (3.5)
#14-12	#14-12	#14-12	#14-12	#10-6	#10-6
26.5 (3)	26.5 (3)	26.5 (3)	26.5 (3)	31.1 (3.5)	31.1 (3.5)
Mechanical Characteristics					
Endurances/Cycles	10,000	10,000	10,000	10,000	10,000
Physical Characteristics					
Dimensions - See drawings on product pages					
Weight - Lb (KG)	0.5 (0.2)	0.5 (0.2)	0.5 (0.2)	0.7 (0.32)	0.7 (0.32)
Environmental					
Operating Temperature	-20°C to 70°C	-20°C to 70°C	-20°C to 70°C	-20°C to 70°C	-20°C to 70°C
Flammability Rating	UL 94-V0	UL 94-V0	UL 94-V0	UL 94-V0	UL 94-V0
Accessories					
Handles					
Direct	DIR-01	DIR-01	DIR-01	DIR-01	DIR-01
Short Selector/NEMA 1, 3R, 4, 4X, 12	H4X-01B	H4X-01B	H4X-01B	H4X-01B	H4X-01B
	H4X-01R	H4X-01R	H4X-01R	H4X-01R	H4X-01R
Long Selector/NEMA 1, 3R, 4, 4X, 12	H4X-02B	H4X-02B	H4X-02B	H4X-02B	H4X-02B
	H4X-02R	H4X-02R	H4X-02R	H4X-02R	H4X-02R
Pistol Handle/NEMA 1, 3R, 4, 4X, 12	H4X-03B	H4X-03B	H4X-03B	H4X-03B	H4X-03B
	H4X-03R	H4X-03R	H4X-03R	H4X-03R	H4X-03R
Metallic Hasp (HD) Pistol Handle/NEMA 1, 3R, 4, 4X, 12	H4X-03BHD	H4X-03BHD	H4X-03BHD	H4X-03BHD	H4X-03BHD
	H4X-03RHD	H4X-03RHD	H4X-03RHD	H4X-03RHD	H4X-03RHD
Selector Handle Shafts - 5x5mm					
5.9"/150mm	SH4-150	SH4-150	SH4-150	SH4-150	SH4-150
7.9"/200mm	SH4-200	SH4-200	SH4-200	SH4-200	SH4-200
12.6"/320mm	SH4-320	SH4-320	SH4-320	SH4-320	SH4-320
Pistol Handle Shafts - 5x5mm					
7.9"/200mm	SH3-200	SH3-200	SH3-200	SH3-200	SH3-200
12.6"/320mm	SH3-320	SH3-320	SH3-320	SH3-320	SH3-320
15.75"/400mm	SH3-400	SH3-400	SH3-400	SH3-400	SH3-400
Selector Handle Shaft Guide	SH-GUIDE1	SH-GUIDE1	SH-GUIDE1	SH-GUIDE1	SH-GUIDE1
Pistol Handle Shaft Guide	SH-GUIDE2	SH-GUIDE2	SH-GUIDE2	SH-GUIDE2	SH-GUIDE2
Door Mount Kit	DOOR-508	DOOR-508	DOOR-508	DOOR-508	DOOR-508
Shrouds/Switch Amps					
1-Pole	TSH1-1TB	TSH1-1TB	TSH1-1TB		
3-Pole (Loadside and Lineside)	TSH1-3TB	TSH1-3TB	TSH1-3TB	TSH2-3TB	TSH2-3TB
Switched 4th Pole/Switch Amps	POLE-16	POLE-25	POLE-40	—	—
Auxiliary Contacts					
NO + NC (1 ea.)	BAC01	BAC01	BAC01	BAC01	BAC01
(2) NO	BAC02	BAC02	BAC02	BAC02	BAC02
AC Ratings					
Volts	240Vac	240Vac	240Vac	240Vac	240Vac
Amps	10A	10A	10A	10A	10A
6-/8-Pole Conversion Kit					
Gangs two switches of same rating, 16-80A switch amps	KIT-6POLE	KIT-6POLE	KIT-6POLE	KIT-6POLE	KIT-6POLE
— Not available.					

UL 508 Non-Fused Rotary Disconnect Switches—16, 25, 40, 63 and 80A

For a Complete Assembly, Please Select:

SWITCH 	Switch										
	Switch Amp Rating	No. of Poles	SCCR @600V	Max Class J Fuse	Max Horsepower Rating, 3-Ph				Wire Size	Wire Type	Part Number
					208 Vac	220/240Vac	440/480Vac	600 Vac			
	16	3	65kA	30A	3	5	10	10	#14-#10 Sol Dual #12 Sol #14-#4 Str Dual #14-#12 Str	75°C Cu	RD16-3-508
	25	3	65kA	30A	7.5	7.5	15	20	#14-#10 Sol Dual #12 Sol #14-#4 Str Dual #14-#12 Str	75°C Cu	RD25-3-508
	40	3	10kA 65kA	60A 30A	7.5	7.5	20	25	#14-#10 Sol Dual #12 Sol #14-#4 Str Dual #14-#12 Str	75°C Cu	RD40-3-508
	63	3	50kA 65kA	100A 60A	15	20	40	40	#14-#10 Sol Dual #12 Sol #14-#1 Str Dual #10-#6 Str	75°C Cu	RD63-3-508
	80	3	50kA 65kA	100A 60A	15	20	40	40	#14-#10 Sol Dual #12 Sol #14-#1 Str Dual #10-#6 Str	75°C Cu	RD80-3-508
+											
HANDLE 	Direct Mount Handle - mounts directly to switch, no shaft required										
	For Switch Part Number		Color		Test Function	Padlockable					Part Number
	All Switches		Black		N	Y - On Switch					DIR-01
OR											
HANDLE  or     	External Front or Right Side Operated Selector Handles - shaft required										
	NEMA Type	Color	Handle Length	Test Function	Padlockable						Part Number
	1, 3R, 4, 4X, 12	Black	Short	N	Y						H4X-01B ⁽¹⁾
	1, 3R, 4, 4X, 12	Red/Yellow	Short	N	Y						H4X-01R ⁽¹⁾
	1, 3R, 4, 4X, 12	Black	Long	N	Y						H4X-02B ⁽²⁾
	1, 3R, 4, 4X, 12	Red/Yellow	Long	N	Y						H4X-02R ⁽²⁾
	External Front Operated Pistol Handles - shaft required										
	NEMA Type	Color	Handle Length	Test Function	Padlockable	Defeatable					Part Number
	1, 3R, 4, 4X, 12	Black	—	N	Y	Y					H4X-03B
	1, 3R, 4, 4X, 12	Red/Yellow	—	N	Y	Y					H4X-03R
	Metallic Hasp (Heavy Duty) External Front Operated Pistol Handles - shaft required										
	NEMA Type	Color	Handle Length	Test Function	Padlockable	Defeatable					Part Number
1, 3R, 4, 4X, 12	Black	—	N	Y	Y					H4X-03BHD	
1, 3R, 4, 4X, 12	Red/Yellow	—	N	Y	Y					H4X-03RHD	
Shafts for Selector Handles											
Length in (mm)	Mounting Depth (X) in (mm)									Part Number	
5.9 (150)	3.50~7.60 (89~193)									SH4-150 ⁽¹⁾	
7.9 (200)	3.50~9.50 (89~241)									SH4-200 ⁽¹⁾	
12.6 (320)	3.50~14.9 (89~378)									SH4-320 ⁽¹⁾	
Shafts for Pistol Handles											
Length in (mm)	Mounting Depth (X) in (mm)									Part Number	
7.9 (200)	3.30~7.40 (84~188)									SH3-200 ⁽²⁾	
12.6 (320)	3.30~9.30 (84~236)									SH3-320 ⁽²⁾	
15.7 (400)	3.30~14.7 (84~373)									SH3-400 ⁽²⁾	
Shaft Guides for Selector and Pistol Handles											
Handle Type										Part Number	
Selector	Required for 12.6" (320mm) long shafts, optional for other lengths									SH-GUIDE1	
Pistol	Required for 15.7" (400mm) long shafts, optional for other lengths									SH-GUIDE2	
Door Mount Kit - for mounting switch on the right side of the enclosure or directly on the enclosure door using switch side operation shaft location. Kit includes a shaft. <i>Order switch and selector handle separately.</i>											
Switch Rating										Part Number	
All Switches - kit includes shaft										DOOR-508	