

### Product Selection

#### Direct Operation



Switch body + Direct handle

#### External Operation



Switch body + Shaft + External handle

### R9 Series Non-Fusible 100–1200A

Ampere Rating (Frame)	Number of Poles	Switch Body Only	Direct Handle	Door Interlocked External Pistol Handle (Choose one)	Shaft Extensions for External Handle—In (mm) (Choose one)	Auxiliary Contacts	Terminal Screens (Choose one)	Terminal Lugs <sup>③</sup>
100 (D-Frame)	3	<b>R9D3100U</b>	<b>DHR9DE</b>	Size 2, Black 1, 3R, 12 Defeatable <b>PHB2N12F</b>	7.90 (200.0) <b>SF200PH10X10</b>	1NO + 1NC <b>AC1N0NCDE</b> <b>AC1N0NCDELL</b>	3-pole, Line side only <b>TS3R9DT</b>	<b>LK3R9DL</b>
	4	<b>R9D4100U</b>						<b>LK4R9DL</b>
200 (D-Frame)	3	<b>R9D3200U</b>		Size 2, Red 1, 3R, 12 Defeatable <b>PHR2N12F</b>	12.60 (320.0) <b>SF320PH10X10</b>	2NO + 2NC <b>AC2N0NCDE</b> <b>AC2N0NCDELL</b>	3-pole, Load side only <b>TS3R9DB</b>	<b>LK3R9DL</b>
	4	<b>R9D4200U</b>			15.70 (400.0) <b>SF400PH10X10</b>		4-pole, Line or load side <b>TS4R9DTB</b>	<b>LK4R9DL</b>
400 (E-Frame)	3	<b>R9E3400U</b>		Size 2, Black 4, 4X Defeatable <b>PHB2N4XF</b>	19.70 (500.0) <b>SF500PH10X10</b>		3-pole, Line side only <b>TS3R9ET</b>	<b>LK3R9EM</b>
	4	<b>R9E4400U</b>					3-pole, Load side only <b>TS3R9EB</b>	<b>LK4R9EM</b>
				Size 2, Red 4, 4X Defeatable <b>PHR2N4XF</b>			4-pole, Line or load side <b>TS4R9ETB</b>	
600 (F-Frame)	3	<b>R9F3600U</b>	<b>DHR9FG</b>	Size 3, Black 4, 4X Defeatable <b>PHB3N4XF</b>	7.90 (200.0) <b>SF200PH15X12</b>	1NO AC U Type <b>AC1N0R9</b> <sup>②</sup>	<b>TS3R9F</b> <sup>①</sup> <b>TS4R9F</b> <sup>①</sup>	<b>LK3R9FN</b> <b>LK4R9FN</b>
	4	<b>R9F4600U</b>						<b>LK6R9G</b>
800 (G-Frame)	3	<b>R9G3800U</b>		Size 3, Red 4, 4X Defeatable <b>PHR3N4XF</b>	12.60 (320.0) <b>SF320PH15X12</b>	1NC AC U Type <b>AC1NCR9</b> <sup>②</sup>	<b>TS3R9FFS</b> <sup>④</sup> <b>TS3R9G</b> <sup>①</sup>	<b>LK8R9G</b>
	4	<b>R9G4800U</b>					<b>TS4R9G</b> <sup>①</sup> <b>TS3R9GFS</b> <sup>④</sup>	
1000 (G-Frame)	3	<b>R9G31000U</b>		Size 4, Black 4, 4X Defeatable <b>PHB4N4XF</b>	1.70 (400.0) <b>SF400PH15X12</b>			
	4	<b>R9G41000U</b>						
1200 (G-Frame)	3	<b>R9G31200U</b>		Size 4, Red 4, 4X Defeatable <b>PHR4N4XF</b>				
	4	<b>R9G41200U</b>						

#### Notes

- ① Top (line side) supplied as standard.
- ② Auxiliary contact requires holder (catalog number ACHFG) when used on F and G-Frame switches (non-fusible 600–1200A).
- ③ Each catalog number is for line or load side. For both line and load, please order two sets.
- ④ FS suffix = Finger Safe.

# 8.3

## Rotary Disconnects

R9 Series (UL 98)

### Accessories

#### Direct Handle



#### Direct Handle

Description	Ampere Rating	Handle Color	Catalog Number
Front operation	100–400	Black	DHR9DE
	600–1200	Black	DHR9FG

#### PH2 and PH3 Types



#### Door Interlocked External Handle—Front Operation

Description	Ampere Rating	Switch Frame	Handle Type	Handle Color	NEMA Type	Defeatable ①	Catalog Number
The door interlocked external handle includes one lockable handle and one escutcheon.	100–400	D/E	PH2	Black	1,3R,12	Yes	PHB2N12F
	100–400	D/E	PH2	Red	1,3R,12	Yes	PHR2N12F
For Dimensions, see Page V5-T8-23.	100–400	D/E	PH2	Black	4,4X	Yes	PHB2N4XF
	100–400	D/E	PH2	Red	4,4X	Yes	PHR2N4XF
	600–1200	F/G	PH3	Black	4,4X	Yes	PHB3N4XF
	600–1200	F/G	PH3	Red	4,4X	Yes	PHR3N4XF
	600–1200	F/G	PH4	Black	4,4X	Yes	PHB4N4XF
	600–1200	F/G	PH4	Red	4,4X	Yes	PHR4N4XF

#### PH4 Type



#### Shaft Extensions

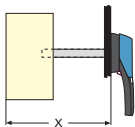


#### Shaft Extensions for External Front Handle

##### Front Operation

Use	Ampere Rating (Frame)	Handle Type	Shaft Length In (mm)	Catalog Number
Standard lengths: 200 mm, 320 mm, 400 mm, 500 mm	100–400 (D-, E-Frame)	PH2	7.90 (200.0)	SF200PH10X10
	100–400 (D-, E-Frame)	PH2	12.60 (320.0)	SF320PH10X10
	100–400 (D-, E-Frame)	PH2	15.70 (400.0)	SF400PH10X10
	100–400 (D-, E-Frame)	PH2	19.70 (500.4)	SF500PH10X10
	600–1200 (F-, G-Frame)	PH3/PH4	7.90 (200.0)	SF200PH15X12
	600–1200 (F-, G-Frame)	PH3/PH4	12.60 (320.0)	SF320PH15X12
	600–1200 (F-, G-Frame)	PH3/PH4	15.70 (400.0)	SF400PH15X12

#### Shaft Length Minimum Dimensions (X)—Inches (mm)



Description	Ampere Rating (Frame)	X	Length	Catalog Number
Standard lengths: • 7.90 (200.6) • 12.60 (320.0) • 5.70 (398.8)	100–400 (D-, E-Frame)	5.31–10.43 (135.0–265.0)	7.90 (200.6)	SF200PH10X10
		5.31–10.43 (135.0–385.0)	12.60 (320.0)	SF320PH10X10
		5.31–10.43 (135.0–465.0)	15.70 (398.8)	SF400PH10X10
		5.31–22.20 (135.0–565.0)	19.70 (500.4)	SF500PH10X10
		600–1200 (F-, G-Frame)	8.70–13.50 (221.0–343.0)	7.90 (200.6)
		8.70–18.23 (221.0–463.0)	12.60 (320.0)	SF320PH15X12
		8.70–21.38 (221.0–543.0)	15.70 (398.8)	SF400PH15X12

##### Note

① Allow the door to be opened when the switch is in 1 (ON) position.

# 8.3

## Rotary Disconnects

R9 Series (UL 98)

### Front and Right Side Operation, continued



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Ampere Rating (Frame) (Fuse Class)	Number of Poles	Switch Body Only	Direct Handle (Black)	External Front Pistol Handle (Choose one)	External Right Side Pistol Handle (Choose one)
60 ① (K-Frame) (J)	2	<b>R9K2060FJ</b>	<b>DHR9J2M</b>	Black	Black
	3	<b>R9K3060FJ</b>		1,3R,12	4, 4X
	4	<b>R9K4060FJ</b>		<b>PHB2N12F</b>	<b>PHB2N4XS</b>
100 (K-Frame) (J)	2	<b>R9K2100FJ</b>		Red	Red
	3	<b>R9K3100FJ</b>		1,3R,12	4, 4X
	4	<b>R9K4100FJ</b>		<b>PHR2N12F</b>	<b>PHR2N4XS</b>
200 (L-Frame) (J)	2	<b>R9L2200FJ</b>		Black	
	3	<b>R9L3200FJ</b>		4,4X	
	4	<b>R9L4200FJ</b>		<b>PHB2N4XF</b>	
400 (M-Frame) (J)	3	<b>R9M3400FJ</b>		Red	
	4	<b>R9M4400FJ</b>		4,4X	
600 (N-Frame) (J)	2	<b>R9N2600FJ</b>	<b>DHR9N</b>	Black	
	3	<b>R9N3600FJ</b>		4,4X	
	4	<b>R9N4600FJ</b>		(w/ TEST Position) <b>PHB2N4XFT</b> ②	
800 (N-Frame) (L)	2	<b>R9N2800FL</b>		Red	
	3	<b>R9N3800FL</b>		4,4X	
	4	<b>R9N4800FL</b>		(w/ TEST Position) <b>PHR2N4XFT</b> ②	
600 (N-Frame) (J)	2	<b>R9N2600FJ</b>	<b>DHR9N</b>	Black	
	3	<b>R9N3600FJ</b>		4, 4X	
	4	<b>R9N4600FJ</b>		<b>PHB3N4XF</b>	
800 (N-Frame) (L)	2	<b>R9N2800FL</b>		Red	
	3	<b>R9N3800FL</b>		4,4X	
	4	<b>R9N4800FL</b>		<b>PHR3N4XF</b>	

**Notes**

- ① 200 kA short-circuit rating.
- ② Requires test handle.

### Direct Handle



Description	Ampere Rating (Frame)	Fuse	Catalog Number
Front operation. Black.	30 (H-Frame)	CC	<b>DHR9HC</b>
	30 (H-Frame)	J	<b>DHR9HJ</b>
	30 (I-Frame)	CC	<b>DHR9J2M</b>
	30–400 (J-, K-, L-, M-Frame)	J	<b>DHR9J2M</b>
	600–800 (N-Frame)	J/L	<b>DHR9N</b>

### S0 Type Handle



### Door Interlocked External Front Handles

Description	Ampere Rating (Frame)	Handle Type	NEMA Type	Color	Standard Catalog Number
The handle locking function of the front external operation handle prevents the user from opening the door of the enclosure when the switch is in the ON position, and when the switch is padlocked in the OFF position (PH1, PH2 and PH3 type handles only). Opening the door when the switch is in the OFF position is possible by defeating the locking function with the use of a tool (authorized persons only). The locking function is restored when the door is closed back.	30 (H-Frame)	S0	1, 3R, 12	Black	<b>SHB0N12HV</b>
	30 (H-Frame)	S0	1, 3R, 12	Red/yellow	<b>SHR0N12HV</b>
	30 (H-Frame)	S0	4, 4X	Black	<b>SHB0N4XHV</b>
	30 (H-Frame)	S0	4, 4X	Red/yellow	<b>SHR0N4XHV</b>
	30–60 (H-, I-, J-Frame)	PH1	1, 3R, 12	Black	<b>PHB1N12F</b>
	30–60 (H-, I-, J-Frame)	PH1	1, 3R, 12	Red/yellow	<b>PHR1N12F</b>
	30–60 (H-, I-, J-Frame)	PH1	4, 4X	Black	<b>PHB1N4XF</b>
	30–60 (H-, I-, J-Frame)	PH1	4, 4X	Red/yellow	<b>PHR1N4XF</b>
	30–60 (H-, I-, J-Frame)	PH1	4, 4X	Black	<b>PHB1N4XFT</b> ①
	30–60 (H-, I-, J-Frame)	PH1	4, 4X	Red/yellow	<b>PHR1N4XFT</b> ①
	60–400 (K-, L-, M-Frame)	PH2	1, 3R, 12	Black	<b>PHB2N12F</b>
	60–400 (K-, L-, M-Frame)	PH2	1, 3R, 12	Red/yellow	<b>PHR2N12F</b>
60–400 (K-, L-, M-Frame)	PH2	4, 4X	Black	<b>PHB2N4XF</b>	
60–400 (K-, L-, M-Frame)	PH2	4, 4X	Red/yellow	<b>PHR2N4XF</b>	
60–400 (K-, L-, M-Frame)	PH2	4, 4X	Black	<b>PHB2N4XFT</b> ①	
60–400 (K-, L-, M-Frame)	PH2	4, 4X	Red/yellow	<b>PHR2N4XFT</b> ①	
600–800 (N-Frame)	PH3	4, 4X	Black	<b>PHB3N4XF</b>	
600–800 (N-Frame)	PH3	4, 4X	Red/yellow	<b>PHR3N4XF</b>	

### PH1 Type Handle



### PH2 Type Handle



### PH3 Type Handle



### Right Side External Handles

Ampere Rating (Frame)	Handle Type	NEMA Type	Color	Standard Catalog Number
30–60 (J-Frame)	PH1	4, 4X	Black	<b>PHB1N4XS</b>
30–60 (J-Frame)	PH1	4, 4X	Red/yellow	<b>PHR1N4XS</b>
60–400 (K-, L-, M-Frame)	PH2	4, 4X	Black	<b>PHB2N4XS</b>
60–400 (K-, L-, M-Frame)	PH2	4, 4X	Red/yellow	<b>PHR2N4XS</b>

#### Note

① Includes TEST position.