

Shunt Trip

 Cross Reference RA Part Number 25107-605-01

Table 12-341. L- and M-Frames Shunt Trip

Voltage Rating (AC Frequency = 50/60 Hz)	Factory Mounted								Field Mounted			
	Connection Type and Location								Field Installation Kits ①			
	18-Inch (457.2 mm) Pigtail Leads						Terminal Block		Pigtail Leads		Terminal Block	
	Same Side		Rear ②		Opposite Side		Same Side		Catalog Number	Price U.S. \$	Catalog Number	Price U.S. \$
Suffix Number	Adder U.S. \$	Suffix Number	Adder U.S. \$	Suffix Number	Adder U.S. \$	Suffix Number	Adder U.S. \$					

Left-Pole Mounting AC/DC Ratings ②

12 – 24V AC or DC	S01	489.	S02	489.	S03	489.	S04	489.	SNT4LP03K	489.	SNT4LT03K	489.
48 – 60V DC	S05	489.	S06	489.	S07	489.	S08	489.	SNT4LP05K	489.	SNT4LT05K	489.
48 – 60V DC	S85	489.	S86	489.	S87	489.	—	—	SNT4LP23K	489.	SNT4LT23K	489.
110 – 240V AC	S09	489.	S10	489.	S11	489.	S12	489.	SNT4LP11K	489.	SNT4LT11K	489.
110 – 125V DC	S41	489.	S42	489.	S43	489.	S44	489.	SNT4LP26K	489.	SNT4LT26K	489.
380 – 440V AC or 220 – 250V DC	S13	489.	S14	489.	S15	489.	S16	489.	SNT4LP14K	489.	SNT4LT14K	489.
480 – 600V AC	S17	489.	S18	489.	S19	489.	S20	489.	SNT4LP18K	489.	SNT4LT18K	489.

Right-Pole Mounting AC/DC Ratings ③

12 – 24V AC or DC	S21	489.	S22	489.	S23	489.	S24	489.	SNT4RP03K	489.	SNT4RT03K	489.
48 – 60V DC	S25	489.	S26	489.	S27	489.	S28	489.	SNT4RP05K	489.	SNT4RT05K	489.
48 – 60V DC	S88	489.	S89	489.	S90	489.	—	—	SNT4RP23K	489.	SNT4RT23K	489.
110 – 240V AC	S29	489.	S30	489.	S31	489.	S32	489.	SNT4RP11K	489.	SNT4RT11K	489.
110 – 125V DC	S45	489.	S46	489.	S47	489.	S48	489.	SNT4RP26K	489.	SNT4RT26K	489.
380 – 440V AC or 220 – 250V DC	S33	489.	S34	489.	S35	489.	S36	489.	SNT4RP14K	489.	SNT4RT14K	489.
480 – 600V AC	S37	489.	S38	489.	S39	489.	S40	489.	SNT4RP18K	489.	SNT4RT18K	489.

① Listed with Underwriters Laboratories, for field installation under E64983.

② Standard mounting location — leads exit rear of breaker.

③ For use with LT (thermal-magnetic) 3-pole trip units only.

Note: Instruction Leaflet/FRED Number 29C146

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Table 12-342. N-Frame Shunt Trip

Voltage Rating (AC Frequency = 50/60 Hz)	Factory Mounted								Field Mounted			
	Connection Type and Location								Field Installation Kits ④			
	18-Inch (457.2 mm) Pigtail Leads						Terminal Block		Pigtail Leads		Terminal Block	
	Same Side		Rear ⑤		Opposite Side		Same Side		Catalog Number	Price U.S. \$	Catalog Number	Price U.S. \$
Suffix Number	Adder U.S. \$	Suffix Number	Adder U.S. \$	Suffix Number	Adder U.S. \$	Suffix Number	Adder U.S. \$					

Left-Pole Mounting AC/DC Ratings ⑥

9 – 24V AC or DC	S01	489.	S02	489.	S03	489.	S04	489.	SNT5LP03K	489.	SNT5LT03K	489.
48 – 60V AC	S05	489.	S06	489.	S07	489.	S08	489.	SNT5LP05K	489.	SNT5LT05K	489.
110 – 240V AC ⑥	S09	489.	S10	489.	S11	489.	S12	489.	SNT5LP11K	489.	SNT5LT11K	489.
110 – 125V DC	S41	489.	S42	489.	S43	489.	S44	489.	SNT5LP26K	489.	SNT5LT26K	489.
380 – 440V AC or 220 – 250V DC	S13	489.	S14	489.	S15	489.	S16	489.	SNT5LP14K	489.	SNT5LT14K	489.
480 – 600V AC	S17	489.	S18	489.	S19	489.	S20	489.	SNT5LP18K	489.	SNT5LT18K	489.
48 – 60V DC	S21	489.	S22	489.	S23	489.	S24	489.	SNT5LP23K	489.	SNT5LT23K	489.

④ Listed with Underwriters Laboratories for field installation under E64983.

⑤ Standard mounting location — leads exit rear of breaker.

⑥ Supply voltages suitable for use with Class 1 GFP devices. Marking label included with accessory kits.

Note: Instruction Leaflet/FRED Number 29C148

Table 12-343. R-Frame Shunt Trip (RH Only)

Voltage Rating (AC Frequency = 50/60 Hz)	Factory Mounted		Field Mounted	
	Connection Type and Location		Field Installation Kits ⑦	
	18-Inch (457.2 mm) Pigtail Leads		Pigtail Leads	
	Suffix Number ⑧	Adder U.S. \$	Catalog Number ⑧	Price U.S. \$
24V AC or DC	S21	710.	SNT6P03K	710.
48 – 60V AC	S25	710.	SNT6P05K	710.
110 – 240V AC	S29	710.	SNT6P11K	710.
380 – 440V AC or 220 – 250 V DC	S33	710.	SNT6P14K	710.
480 – 600V AC	S37	710.	SNT6P18K	710.
48 – 60V DC	S88	710.	SNT6P23K	710.
110 – 125V DC	S45	710.	SNT6P26K	710.

⑦ Listed with Underwriters Laboratories for field installation under E64983.

⑧ A maximum of two shunt trip plug-in modules may be installed in a circuit breaker.

Note: Instruction Leaflet/FRED Number 29C150

Discount Symbol CB-2

Shunt Trip

Table 12-333. N-Frame Electrical Rating Data ①②③

50/60 Hz			DC		
Supply Voltage	Minimum Operating Voltage	VA	Supply Voltage	Minimum Operating Voltage	VA
24	16.8	200	24	16.8	170
48	33.6	830	48	33.6	710
60		1280	60		1150
110 ④	60	100	110	77	110
120 ④		120	120		130
127 ④		140	125		140
208 ④		420	—	—	—
220 ④		470	—	—	—
240 ④		550	—	—	—
380	266	95	220	154	41
400		108	250	—	54
415		120	—	—	—
440		136	—	—	—
480	336	40	—	—	—
525		50	—	—	—
550		50	—	—	—
600		70	—	—	—

- ① Approximate unlatching time: 6 milliseconds.
- ② Approximate total circuit breaker contact opening time: 18 milliseconds.
- ③ Endurance: 3000 electrical operations plus 1000 mechanical operations.
- ④ Supply voltages suitable for use with Class 1 GFP devices. Marking label included with accessory kits.

Table 12-334. R-Frame Electrical Rating Data ④⑤⑥⑦⑧⑨

Suffix Number	Application Ratings		Electrical Operating Ratings						
	Voltage (V)	Frequency (Hz)	Supply Voltage (V)	Minimum Operating Voltage (V)	I _p (A)	I _{rms} at 0.250s (A)	I _{rms} at 0.033s (A)	VA	One Minute Dielectric Withstand Voltage (V)
03/03K	24	50/60	24	16.8	71.1	—	50.3	1210	1050
	24	DC	24	16.8	—	36.1	—	870	1050
05/05K	48-60	50/60	48	34.0	13.1	—	9.2	450	1120
			60		17.2		12.2	740	
11/11K ⑦	110-240	50/60	110	60.5	4.2	—	3.0	330	1480
			120		4.5		3.2	390	
			127		4.6		3.3	430	
			208		7.9		5.6	1170	
			220		8.5		6.0	1370	
			240		8.7		6.1	1470	
14/14K	380-440	50/60	380	266.0	4.5	—	3.2	1220	1880
			415		5.0		3.6	1500	
			440		5.3		3.7	1640	
	220-250	DC	220	154.0	—	2.4	—	530	1500
			250		—	2.7	—	680	
18/18K	480-600	50/60	480	336.0	0.6	—	0.4	200	2200
			525		0.7		0.5	270	
			550		0.7		0.5	280	
			600		0.8		0.6	360	
23/23K	48-60	DC	48	34.0	—	9.8	—	470	1120
			60		—	11.6	—	700	
26/26K	110-125	DC	110	77.0	—	3.3	—	370	1250
			120		—	3.6	—	440	
			125		—	3.8	—	480	

- ④ Approximate unlatching time of 6 milliseconds.
- ⑤ Average circuit breaker contact total opening time approximately 62 milliseconds, at rated voltage.
- ⑥ Endurance: 500 electrical operations and 2500 mechanical operations.
- ⑦ Shunt trip can be operated up to a maximum of six times per minute.
- ⑧ Maximum operating voltage — 110% of maximum voltage range rating.
- ⑨ Pigtail wire size: 18 AWG (0.82 mm²). Leads are yellow and white.