

## Certification Record

<b>Customer</b>	<b>Class</b>	<b>File Number</b>
Schneider Electric USA, Inc. Square D Raleigh (Knightdale) Plant, 8001 Knightdale Blvd Knightdale NC USA 27545	<u>3231-01</u> SWITCHES-Automatic - Magnetic Type	060905_S_000

Class 8501, Type G relays open or enclosed, 2- to 8-poles, with or without attachments (time delay, extra contact block and latch) 277V ac max, 10A (relay contacts); 277V ac max, 6A (delay contacts).

Class 8501 relays, open or enclosed, Type, H, 2- to 8-pole; Type HX, 8- to 12-poles, with or without magnetic latch, 10A, 600V ac max.

Class 8903 lighting contactors, open or enclosed; coils are rated 120-600V ac max , 60Hz; 110-550V ac, 50Hz single voltage. Latch and unlatched coils of mechanically held devices are rated 24-600V ac, 50 or 60Hz intermittent duty: Types L, LL and LX, lighting contactors, open or enclosed, 2- to 12-poles, contact ratings as follows:

Max V ac  
Two Poles in

Series to  
Load, 1 Ph

Type of Load	Max A	One Pole	Max V ac
		to Load	Three poles to Load, L-to-L, 3 Ph
Tungsten lamp	20	277	480
Ballast lamp	30	277	480
Ballast lamp	15	347	600
Resistance heating	20	600	600
General use	30	600	600

Type L, LL (with mechanical latch) 12-poles max; 20A, 480V ac per pole, load 277V ac(ballast or tungsten); 600V ac per pole (resistive); 250V dc max (3 poles to load);

Type SM, 5-poles max, 30A, 480V ac max (tungsten), 600V ac max (ballast), 250V dc max(tungsten). 600V ac max (resistive); standard fault short-circuit withstand rating: 5kA RMS sym. – 600Vac; High fault short-circuit withstand rating: 100kA RMS sym. – 600Vac max (See note 9 for application details).

Type SP, 5-poles max, 60A, 480V ac max (tungsten), 600V ac max (ballast); 250V dc max (tungsten); 600V ac max (resistive); standard fault short-circuit withstand rating: 5kA RMS sym. – 600Vac; High fault short-circuit withstand rating: 100kA RMS sym. – 600Vac max (See note 10 for application details).

Type SQ, 5-poles max, 100A, 480V ac max (tungsten); 600V ac max (ballast); 250V dc max (tungsten), 600V ac max (resistive); Standard fault short-circuit withstand rating: 5kA RMS sym. – 600Vac; High fault short-circuit withstand rating: 100kA RMS sym. – 600Vac max (See note 11 for application details).

Type SV, 5-poles max, 200A, 480V ac max (tungsten), 600V ac max (ballast), 250V dc max (tungsten). 600V ac max (resistive); Standard fault short-circuit withstand rating: 10kA RMS sym. – 600Vac; High fault short-circuit withstand rating: 100kA RMS sym. – 600Vac max (See note 13 for application details).

Type SX, 3-poles max, 300A, 480V ac (tungsten), 600Vac max (ballast); 250V dc max (tungsten). 600V ac max (resistive); Standard fault short-circuit withstand rating: 10kA RMS sym. – 600Vac; High fault short-circuit withstand rating: 100kA RMS sym. – 600Vac max (See note 12 for application details).

Type SY, one pole 400A, 347V ac max (ballast), 600V ac max (resistive), 3-poles max, 400A, 600V ac max (tungsten), 600V ac max (ballast). 600V ac max (resistive); Standard fault short-circuit withstand rating: 18kA RMS sym. – 600Vac; High fault short-circuit withstand rating: 100kA RMS sym. – 600Vac max (See note 14 for application details).

Type SZ, 3-poles max, 600A, 600V ac max (tungsten), 600V ac max (ballast), 600V ac max (resistive); Standard fault short-circuit withstand rating: 18kA RMS sym. – 600Vac; High fault short-circuit withstand rating: 100kA RMS sym. – 600Vac max (See note 14 for application details).

Type SJ, 3-poles max, 800A (resistive and ballast), 600V ac max.

Class 8502, Type SJ, 3-poles max, 810A, 600V ac max.

Notes:



1. Open relays are Certified only as components of other equipment where the acceptability of the combination has been determined by the Canadian Standards Association.
2. Class 8903 lighting contactors, Type S-, have been tested for 100,000 operations endurance (resistive load), Type L-, have been tested for 250,000 operations endurance for resistive ratings.
3. Class 8903 lighting contactors, may be electrically held or mechanically held.
4. Class 8903, Types L, LL, LX, SM, SP, SV and SQ lighting contactors may be provided in special purpose enclosures, CSA Types 1, 3R, 4, 4X or 12.
5. Class 8903 Type SV have been endurance tested for 250,000 operations for resistive loads.
6. Suffixes denote electrical and mechanical variations.
7. Class 8903, Type SX lighting contactors may be provided in special purpose enclosures, CSA Types 1, 4, 4X or 12.
8. Class 8903, lighting contactors, Type SJ, SY and SZ may be provided in special purpose enclosures, CSA Types 1, 4 or 12.
9. Class 8903SM contactors: These devices are suitable for use on a circuit capable of delivering not more than 100,000rms symmetrical A, 600 V~ maximum, when protected by Class RK5, RK1, T or J fuses with a maximum rating of 60 A; 480 V~ maximum, when protected by a circuit breaker with a maximum rating of 70 A. For a circuit capable of delivering more than 5,000 rms symmetrical A the minimum enclosure volume is 300 cu in. The equipment enclosure must have a minimum of four fastening points or a piano hinge and two fastening points.
10. Class 8903SP contactors: These devices are suitable for use on a circuit capable of delivering not more than 100,000rms symmetrical A, 600 V~ maximum, when protected by Class RK5, RK1, T or J fuses with a maximum rating of 100 A; 480 V~ maximum, when protected by a circuit breaker with a maximum rating of 100 A. For a circuit capable of delivering more than 5,000 rms symmetrical A the minimum enclosure volume is 570 cu in. The equipment enclosure must have a minimum of four fastening points or a piano hinge and two fastening points.
11. Class 8903 SQ contactors: These devices are suitable for use on a circuit capable of delivering not more than 100,000 rms symmetrical A, 600 V~ maximum, when protected by Class RK5, RK1, T or J fuses with a maximum rating of 200 A; 480 V~ maximum, when protected by a circuit breaker with a maximum rating of 150 A. For a circuit capable of delivering more than 5,000 rms symmetrical A the minimum enclosure volume is 1800 cu in. The equipment enclosure must have a minimum of four fastening points or a piano hinge and two fastening points.
12. Class 8903 SX contactors: These devices are suitable for use on a circuit capable of delivering not more than 100,000 rms symmetrical A, 600 V~ maximum, when protected by Class J or T fuses with a maximum rating of 400 A; 480 V~ maximum, when protected by a circuit breaker with a maximum rating of 400 A. For a circuit capable of delivering more than 10,000 rms symmetrical A the minimum enclosure volume is 8600 cu in. The equipment enclosure must have a minimum of five fastening points or a piano hinge and three fastening points.
13. Class 8903 SV contactors. These devices are suitable for use on a circuit capable of

delivering not more than 100,000 rms symmetrical A, 600 V~ maximum, when protected by Class J or T fuses with a maximum rating of 200 A; 480 V~ maximum, when protected by a circuit breaker with a maximum rating of 225 A. For a circuit capable of delivering more than 10,000 rms symmetrical A the minimum enclosure volume is 4000 cu in. The equipment enclosure must have a minimum of four fastening points or a piano hinge and two fastening points.

14. Class 8903SY and 8903 SZ Contactors – These devices are suitable for use on a circuit capable of delivering not more than 100,000 rms symmetrical A, 600 V~ maximum, when protected by Class J or T fuses with a maximum rating of 600 A; and 65,000 rms symmetrical A, 480 V~ maximum, when protected by a circuit breaker with a maximum rating of 800 A. For a circuit capable of delivering more than 18,000 rms symmetrical A the minimum enclosure volume is 14800 cu in. The equipment enclosure must have a minimum of five fastening points or a piano hinge and three fastening points.

Lighting contactor, Cat. No. 8903REQ3537G2, open type, rated 60A, 480V ac max (tungsten), 600V ac max (ballast, resistive), 250V dc max (tungsten).

Standard fault short-circuit withstand rating: 5kA RMS sym. – 600Vac; High fault short-circuit withstand rating: 100kA RMS sym. – 600Vac max (See note 1 for application details).

#### Notes:

1. Cat No. 8903REQ3537G2 contactors: These devices are suitable for use on a circuit capable of delivering not more than 100,000rms symmetrical A, 600 V~ maximum, when protected by Class RK5, RK1, T or J fuses with a maximum rating of 100 A; 480 V~ maximum, when protected by a circuit breaker with a maximum rating of 100 A. For a circuit capable of delivering more than 5,000 rms symmetrical A the minimum enclosure volume is 570 cu in. The equipment enclosure must have a minimum of four fastening points or a piano hinge and two fastening points.

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