

## Catalog Numbering System

### Type S C G 3 V02

### Form S

### Class 8536

#### General Classification

|      |                                                      |
|------|------------------------------------------------------|
| 8502 | Contactors                                           |
| 8536 | Starter                                              |
| 8538 | Combination Starter with Disconnect Switch           |
| 8539 | Combination Starter with Circuit Breaker             |
| 8702 | Reversing Contactor                                  |
| 8736 | Reversing Starter                                    |
| 8738 | Reversing Combination Starter with Disconnect Switch |
| 8739 | Reversing Combination Starter with Circuit Breaker   |
| 8810 | Two Speed Starter ▲                                  |
| 8903 | Type S Lighting Contactors ▲                         |
| 8940 | Pumping Plant Panel ▲                                |
| 8941 | Duplex Controller ▲                                  |

▲ Consult the Table of Contents for page numbers.

#### Design

Type S NEMA Contactors and Starters

| NEMA Size |         | Rating (8903 only) |       |
|-----------|---------|--------------------|-------|
| A         | Size 00 |                    |       |
| B         | Size 0  | M                  | 30 A  |
| C         | Size 1  | P                  | 60 A  |
| D         | Size 2  | Q                  | 100 A |
| E         | Size 3  | V                  | 200 A |
| F         | Size 4  | X                  | 300 A |
| G         | Size 5  | Y                  | 400 A |
| H         | Size 6  | Z                  | 600 A |

#### Enclosure

|   |                                         |
|---|-----------------------------------------|
| A | NEMA 12 Industrial Use                  |
| F | NEMA 1 Flush Mounting General Purpose   |
| G | NEMA 1 General Purpose Surface Mounting |
| H | NEMA 3R Rainproof                       |
| O | Open Style Device (no enclosure)        |
| W | NEMA 4X Corrosion Resistant             |

#### Numerals

Used to designate specific physical arrangements, such as the number of poles, fuse clip size, etc.; but the numbering varies with the Class of the equipment. Consult the Digest listings for the specific device numbers.

#### Voltage Code

AC operated devices without control transformer

| Code | Voltage/Frequency |
|------|-------------------|
| V01  | 24/60             |
| V02  | 120/60 or 110/50  |
| V06  | 480/60 or 440/50  |
| V07  | 600/60 or 550/50  |
| V08  | 208/60            |

V81: 480V Primary, 120 V Secondary for units using a fused transformer control circuit (Form F4T)

This is only a partial listing. Consult the Digest page for each product for more options.

#### Common Forms (factory modifications)

|      |                                                               |
|------|---------------------------------------------------------------|
| A    | Start-Stop pushbuttons in the enclosure cover                 |
| C    | Hand-Off-Auto selector switch in the enclosure cover          |
| E    | Bimetallic overload relays                                    |
| F4T  | Fused transformer control circuit (primary fuses only)        |
| FF4T | Fused transformer control circuit (primary & secondary fuses) |
| H    | Solid-state overload relay (SSOLR)                            |
| P1   | Red ON pilot light in the enclosure cover                     |
| P2   | Green OFF pilot light in the enclosure cover                  |
| S    | Separate control circuit                                      |
| X01  | One normally closed auxiliary contact N.C.                    |
| X10  | One normally open auxiliary contact N.O.                      |

Consult "Factory Modifications (Forms)" for additional Form designations. When more than one Form is applied to a single device, arrange the Forms in alphanumeric order.

See [Motor Overload Protection—Factory Modifications \(Forms\)](#), page 16-120 for additional Form designations and [Solid-State Overload Relay Forms](#), page 16-120 for more information about Motor Logic SSOLRs.

**Table 16.78: Coil Voltage Codes**

| Voltage |         | Code |
|---------|---------|------|
| 60 Hz   | 50 Hz   |      |
| 24 [1]  | —       | V01  |
| 120     | 110     | V02  |
| 208     | —       | V08  |
| 240     | 220     | V03  |
| 480     | 440     | V06  |
| 600     | 550     | V07  |
| Specify | Specify | V99  |

**NOTE:** These are the common voltages, more are available. Contact Schneider Electric at [www.schneider-electric.com/us/](http://www.schneider-electric.com/us/) for information about other voltage codes.

[1] 24 V coils are not available on Sizes 4–7. On sizes 00–3, **Form S** (separate control) must be specified.



Type L



Type LX

### Features

- LED ready [1]
- 30 A fluorescent lighting rating, 20 A tungsten lighting rating
- Electrically and mechanically held
- 2 through 12-pole versions
- Field-convertible contacts with N.O. and N.C. indicators (8 N.C. contacts maximum [2])
- Silver-Cadmium-Oxide double break contacts

**NOTE:** When ordering contactors with more than 8 poles, the catalog number configuration is the number of normally open contacts followed by a 0 and then the number of normally closed contacts (i.e. for 4 N.O. and 6 N.C. on a 10-pole contactor, order 8903LG406V02).



File  
E78427  
CCN  
NRNT



File  
LR60905  
Class  
3211 07

**Table 16.193: Multipole Lighting Contactors (50–60 Hz) (replace ●●● with the voltage code)**

| Contact<br>Ampere<br>Ratings     | No.<br>of<br>Poles | NEMA 1<br>General<br>Purpose<br>Enclosure | NEMA 1<br>Flush Mounting<br>General Purpose<br>Enclosure with Plaster<br>Adjustment | NEMA 3R<br>Rainproof<br>Enclosure[3] | NEMA 4X<br>Watertight, Dusttight, and<br>Corrosion-Resistant Glass-<br>Polyester Enclosure | NEMA 4X<br>Watertight, Dusttight<br>Brushed Stainless<br>Steel Enclosure | NEMA 12/3R[4]<br>Dusttight and<br>Driptight Industrial<br>Use Enclosure | Open Type [5] |
|----------------------------------|--------------------|-------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|-------------------------------------------------------------------------|---------------|
|                                  |                    | Type [6]                                  | Type [6]                                                                            | Type [6]                             | Type [6]                                                                                   | Type [6]                                                                 | Type [6]                                                                | Type [6]      |
| <b>Electrically Held [2]</b>     |                    |                                           |                                                                                     |                                      |                                                                                            |                                                                          |                                                                         |               |
| 30 [6]                           | 2                  | LG20●●●                                   | LF20●●●                                                                             | LH20 ●●●                             | LWW20●●●                                                                                   | LW20●●●                                                                  | LA20●●●                                                                 | LO20 ●●●      |
|                                  | 3                  | LG30 ●●●                                  | LF30 ●●●                                                                            | LH30 ●●●                             | LWW30 ●●●                                                                                  | LW30 ●●●                                                                 | LA30 ●●●                                                                | LO30 ●●●      |
|                                  | 4                  | LG40 ●●●                                  | LF40 ●●●                                                                            | LH40 ●●●                             | LWW40 ●●●                                                                                  | LW40 ●●●                                                                 | LA40 ●●●                                                                | LO40 ●●●      |
|                                  | 6                  | LG60●●●                                   | LF60●●●                                                                             | LH60 ●●●                             | LWW60 ●●●                                                                                  | LW60 ●●●                                                                 | LA60 ●●●                                                                | LO60 ●●●      |
|                                  | 8                  | LG80 ●●●                                  | LF80 ●●●                                                                            | LH80 ●●●                             | LWW80 ●●●                                                                                  | LW80 ●●●                                                                 | LA80 ●●●                                                                | LO80 ●●●      |
|                                  | 10                 | LG1000 ●●●                                | LF1000 ●●●                                                                          | LH1000 ●●●                           | LWW1000 ●●●                                                                                | LW1000 ●●●                                                               | LA1000 ●●●                                                              | LO1000 ●●●    |
|                                  | 12                 | LG1200 ●●●                                | LF1200 ●●●                                                                          | LH1200 ●●●                           | LWW1200 ●●●                                                                                | LW1200 ●●●                                                               | LA1200 ●●●                                                              | LO1200 ●●●    |
| <b>Mechanically Held [2] [7]</b> |                    |                                           |                                                                                     |                                      |                                                                                            |                                                                          |                                                                         |               |
| 30 [6]                           | 2                  | LXG20 ●●●                                 | LXF20 ●●●                                                                           | —                                    | LXWW20 ●●●                                                                                 | LXW20 ●●●                                                                | LXA20 ●●●                                                               | LXO20 ●●●     |
|                                  | 3                  | LXG30 ●●●                                 | LXF30 ●●●                                                                           | —                                    | LXWW30 ●●●                                                                                 | LXW30 ●●●                                                                | LXA30 ●●●                                                               | LXO30 ●●●     |
|                                  | 4                  | LXG40 ●●●                                 | LXF40 ●●●                                                                           | —                                    | LXWW40 ●●●                                                                                 | LXW40 ●●●                                                                | LXA40 ●●●                                                               | LXO40 ●●●     |
|                                  | 6                  | LXG60 ●●●                                 | LXF60 ●●●                                                                           | —                                    | LXWW60 ●●●                                                                                 | LXW60 ●●●                                                                | LXA60 ●●●                                                               | LXO60 ●●●     |
|                                  | 8                  | LXG80 ●●●                                 | LXF80 ●●●                                                                           | —                                    | LXWW80 ●●●                                                                                 | LXW80 ●●●                                                                | LXA80 ●●●                                                               | LXO80 ●●●     |
|                                  | 10                 | —                                         | LXF1000 ●●●                                                                         | —                                    | LXWW1000 ●●●                                                                               | LXW1000 ●●●                                                              | LXA1000 ●●●                                                             | LXO1000 ●●●   |
|                                  | 12                 | LXG1200 ●●●                               | LXF1200 ●●●                                                                         | —                                    | LXWW1200 ●●●                                                                               | LXW1200 ●●●                                                              | LXA1200 ●●●                                                             | LXO1200 ●●●   |

**NOTE:** If a holding circuit contact is required for proper operation, order an additional contact.



Type L3L



Type LO80



Type L3R



Type LO60



Type L1R

### Power Pole Kits

The kits in Table 16.194 are used to add 30 A power poles to existing Type L contactors when additional circuits are required. Type L lighting contactors come with mounting brackets, so that adder poles may be mounted from the front by a single captive screw. Adder poles come standard with N.O. contacts which are convertible to N.C.

For How to Order Information, see page 16-28.

**NOTE:** 12 N.C. poles are only available with a 120 V coil (V02).

**Table 16.194: Power Poles for Type L or LX**

| Power Pole Adder Kit[8] |     | Can Only Be Added to Contactor Type[9]               |
|-------------------------|-----|------------------------------------------------------|
| Class 8903 Type         |     |                                                      |
| Single Pole             | —   | LO60<br>LXO60,<br>LO80, LXO80,<br>LO1000,<br>LXO1000 |
|                         | L1R |                                                      |
| Double Pole             | L3L |                                                      |
|                         | L3R |                                                      |

**Table 16.196: How to Order**

| To Order Specify: |                | Catalog Number |       |              |         |
|-------------------|----------------|----------------|-------|--------------|---------|
| • Class Number    | • Voltage Code | Class          | Type  | Voltage Code | Form(s) |
| • Type Number     | • Form(s)      | 8903           | LXG60 | VO4          | CF4R6   |

Factory Modifications (Forms): page 16-80

Replacement Coils: page 16-123

Replacement Contacts: page 16-125

**Table 16.195: Coil Voltage Codes**

| Voltage |         | Code |
|---------|---------|------|
| 60 Hz   | 50 Hz   |      |
| 24      | —       | V01  |
| 120     | 110     | V02  |
| 208     | —       | V08  |
| 240     | 220     | V03  |
| 277     | —       | V04  |
| 480     | 440     | V06  |
| Specify | Specify | V99  |

- [1] Conforms to NEMA -410 -2015 and UL508: Table 46.1 and Section 61C test procedures for LED loads up to 16 A at 120 V. Devices were tested to 20 A at 120 V and conform to the test requirements.
- [2] Factory conversion of N.O. contacts to N.C., order by catalog number (for example, for 6 N.O. and 2 N.C. poles on an 8 pole contactor, order as 8903LG62V02). Versions are available from the factory with up to 12 N.C. poles for Type L (electrically held) or 2, 4, or 6 N.C. poles for Type LX (mechanically held). For field conversion, there is a maximum of eight N.C. poles for Type L (electrically held) and a maximum of six N.C. poles for Type LX (mechanically held) contactors.
- [3] Cannot support control transformer Forms.
- [4] NEMA 12 enclosures can be field modified for outdoor non-corrosive and non-service entrance rated applications. See page 16-113 for more information.
- [5] Separate enclosures are available for these devices. It may be possible to improve delivery by ordering an open type contactor and separate Class 9991 enclosure.
- [6] Replace the three bullets (●●●) in the catalog number with the coil voltage code. Refer to the standard voltage codes listed in Table 16.195. All lighting contactors come with separate control as standard.
- [7] When ordering **Form C** on mechanically held devices, you must also include **Form R6**.
- [8] 8903LO (electrically held) devices can accommodate 10 or 12 N.C. contacts use **only** 120 V 60Hz coils.
- [9] LO60 and LXO60: add single-pole kits only, 1 on each side, for converting to 8-pole. To maintain proper operation, the contactor cannot be converted to more than 8 poles. LO80 and LXO80: use single-pole kits, 1 on each side, for converting to 10-pole and use two-pole kits, 1 on each side, for converting to 12-pole. LO1000 and LXO1000: remove the existing single-pole kit and install two-pole kits, 1 on each side, for converting to 12-pole.