



## Selector Worksheet

# NEMA Multi-pole Lighting Contactors

Use this worksheet to help identify the part number of the product your customer is looking for. The following questions will guide you to the correct product, and the questions on the back will help determine how to identify the specific part number from Digest 176.

### 1. What contact ampere rating?

- 30                       60                       100                       200  
 300                       400                       600                       800\*

\*Electrically held only

### 2. Do you need electrically held or mechanically held?

- Electrically held                       Mechanically held

### 3. Is the control circuit wired with 2 or 3 wire control?

- 2 wire                       3 wire

### 4. How many poles do you need?

- 2 poles                       3 poles                       4 poles                       6 poles  
 8 poles                       10 poles                       12 poles

### 5. What type of enclosure?

- NEMA type 1 (general purpose/indoor)                       NEMA type 12 (indoor/industrial)  
 NEMA type 3R (rainproof)                       NEMA type 1 flush mount (general purpose/indoor)  
 NEMA type 4 and 4X (stainless steel)                       NEMA type 4X (polyester)

### 6. What is the coil voltage (control voltage)?

- 24 V                       120 V                       208 V  
 240 V                       277 V                       480 V

### 7. What accessories, if any, are needed? (N.O. = normally open; N.C. = normally closed)

- On/off push button                       Auxiliary contacts  
 Hand-off-auto selector switch                       N.O. (0, 1, 2, 3, 4)  
 On pilot light – red (P1)                       N.C. (0, 1, 2, 3, 4)  
 Off pilot light – green (P2)                       2-poles relay (two wire control of mechanically held lighting contactor)



## How to build or find the part number

Follow the steps below to locate and build the part number you need. Page numbers refer to Schneider Electric's Digest 176. If you don't have a copy of the product catalog, please request one from your local representative or visit [www.schneider-electric.us](http://www.schneider-electric.us)

### Step 1: Locate the correct page in the Digest

- 30 A multi-pole (up to 12 poles) lighting contactor – go to page 16-59, Table 16.150
- 30 A heavy duty contactor (up to 5 poles) – go to page 16-60, Table 16.154

### Step 2: Locate the class number from the top of the page (this will be a four digit number starting with an "8," e.g. 8903)

### Step 3: Locate, within the table the electrically held section or the mechanically held section (electrically held contactors are in the top section, mechanically held are in the bottom section)

### Step 4: Match the ampere rating and number of poles from your worksheet to the values in the appropriate column in the Digest (ampere rating is in column one, number of poles is in column two)

### Step 5: Follow that row to the right to locate the part number associated with the appropriate enclosure type (the enclosure types are labeled at the top of each column – choose the part number that is in line with the information determined in Step 3)

### Step 6: Choose your coil voltage from the bottom of the appropriate page (either Table 16.152 or Table 16.155); (this code will start with a "V")


### Step 7: Choose your accessories from the lighting contactor accessory worksheet

Below is the format your part number should take:

8903	L or LX _____	_____	_____	V_____	_____	
Class number	Contactor type	Enclosure type	Number of poles	Coil voltage	Form options (accessories)	
8903	S _____	_____	_____	V_____	_____	
Class number	Contactor type	Ampereage	Enclosure type	Number of poles	Coil voltage	Form options (accessories)

#### Schneider Electric USA

1415 S. Roselle Road  
 Palatine, IL 60067  
 Tel: 847-397-2600  
 Fax: 847-925-7500  
[www.schneider-electric.com/us](http://www.schneider-electric.com/us)



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## Accessory Worksheet

# NEMA Lighting Contactor Accessories

Use this worksheet to help identify the accessory part numbers for starter/contactors.

**Note:** Pricing and tech details are at [www.schneider-electric.us](http://www.schneider-electric.us).

### 1. Replacement coils (Type L)

Coil L Voltage	L 6–12 Poles	L 8–12 Poles	LX (Latch) 2–4 Poles	LX (Latch) 2–6 Poles	LX (Unlatch) All Poles
24 Vac	9998L23	9998LH23	9998L23	9998LH23	9998LX23
120 Vac	9998L44	9998LH44	9998L44	9998LH44	9998LX44
208 Vac	9998L50	9998LH50	9998L50	9998LH50	9998LX51
240 Vac	9998L53	9998LH53	9998L53	9998LH53	9998LX53
277 Vac	9998L55	9998LH55	9998L55	9998LH55	9998LX55
480 Vac	9998L62	9998LH62	9998L62	9998LH62	9998LX62

### 2. Replacement coils (Type S – electrically held or latching)

Coil Voltage	Poles	SMO – 30 A	SPO – 60 A	SQO – 100 A
24 Vac	2 and 3	31041-400-20	31063-409-16	31074-400-16
	4 and 5	31041-400-20	31063-400-16	–
120 Vac	2 and 3	31041-400-42	31063-409-38	31074-400-38
	4 and 5	31041-400-42	31063-400-38	31091-400-38
208 Vac	2 and 3	31041-400-48	31063-409-44	31074-400-44
	4 and 5	31041-400-48	31063-400-44	31091-400-44
240 Vac	2 and 3	31041-400-51	31063-409-47	31074-400-47
	4 and 5	31041-400-51	31063-400-47	31091-400-47
277 Vac	2 and 3	31041-400-52	31063-409-49	31074-400-49
	4 and 5	31041-400-52	31063-400-49	31091-400-49
480 Vac	2 and 3	31041-400-60	31063-409-57	31074-400-57
	4 and 5	31041-400-60	31063-400-57	31091-400-57

### 3. Replacement coils (Type S – unlatching)

Coil Voltage	Poles	SMO – 30 A	SPO – 60 A	SQO – 100 A
24 Vac	All	2959-S13-W23B	2959-S13-W23B	31096-416-03
120 Vac	All	2959-S13-W30B	2959-S13-W30B	31096-416-09
208 Vac	All	2959-S13-W33A	2959-S13-W33A	31096-416-15
240 Vac	All	2959-S13-W33B	2959-S13-W33B	31096-416-18
277 Vac	All	2959-S13-W34A	2959-S13-W34A	31096-416-20
480 Vac	All	2959-S13-W36B	2959-S13-W36B	31096-416-24



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#### 4. Separate enclosures

	Type L and LX	SMO	SPO	SQO
NEMA Type 1	9991LXG1 <sup>[1]</sup>	9991SCG7 <sup>[2]</sup>	9991SD7 <sup>[2]</sup>	9991SFG8
NEMA Type 1 Oversized	9991SDG3	9991SDG3(30A) <sup>[3]</sup>	9991SDG3(60A) <sup>[3]</sup>	–

<sup>[1]</sup> If cover mounted control units are required, select an oversized enclosure.

<sup>[2]</sup> Electrically held only.

<sup>[3]</sup> Mechanically held only.

#### 5. Accessories for mechanically held

Description	Type LX	Type S – 30 A	Type S – 60 A	Type S – 100 A
Push Button On/Off NEMA 1	9999BLX 9999LXPB	None available	9001KA2 9999SA3	9001KA2 9999SA3
Push Button On/Off NEMA 3R/4/12	9001KA2 9999SA3 <sup>[1]</sup>	9001KA2 9999SA3 <sup>[1]</sup>	9001KA2 9999SA3 <sup>[1]</sup>	9001KA2 9999SA3 <sup>[1]</sup>
Selector Switch (2 position) NEMA 1	9999BLX 9999LXS	9001KN244 9001KS11BH1	9001KN244 9001KS11BH1	9001KN244 9001KS11BH1
Selector Switch (2 position) NEMA 3R/4/12	9991KN244 9001KS11BH1	9991KN244 9001KS11BH1	9991KN244 9001KS11BH1	9991KN244 9001KS11BH1
Selector Switch (3 position) NEMA 1	9999BLX 9999SC2	9001KN260 9001KS46BH2	9001KN260 9001KS46BH2	9001KN260 9001KS46BH2
Selector Switch (3 position) NEMA 3R/4/12	9001KN260 9001KS46BH2	9001KN260 9001KS46BH2	9001KN260 9001KS46BH2	9001KN260 9001KS46BH2
Two Wire Control Relay	9999RLX CA2SK11 <sup>[2]</sup>	8501XO11	8501XO11	8501XO11

<sup>[1]</sup> Order CA2SK11(), complete part number with voltage code from page 23-21.

<sup>[2]</sup> Mechanically held contactors need two distinct signals to operate. A N.O. contact block must be added to the Class 9999 Type SA3 push button kit.


#### 6. Accessories for electrically held

Description	Type L	Type S – 30 A	Type S – 60 A	Type S – 100 A
Pilot Lights (Red and Green) NEMA 1/3R/4/12	9999SP28R	9999SP2R 9999SP28R	9999SP3R 9999SP28R	9999SP14R (2-3 poles) 9999SP15R (4-5 poles) 9999SP28R
Push Buttons NEMA 1	9999BLX 9999SA10	9999SA10	9999SA10	9999SA3
Push Buttons NEMA 3R/4/12	9999SA3	9999SA3	9999SA3	9999SA3
Selector Switch (2 position) NEMA 1	9999BLX 9999SC22	9999SC22	9999SC22	9999SC22
Selector Switch (2 position) NEMA 3R/4/12	9001KN244 9001KS11BH1	9001KN244 9001KS11BH1	9001KN244 9001KS11BH1	9001KN244 9001KS11BH1
Selector Switch (3 position) NEMA 1	9999BLX 9999SC2	9999SC2	9999SC2	9999SC2
Selector Switch (3 position) NEMA 3R/4/12	9999SC8	9999SC8	9999SC8	9999SC8

#### 7. Auxiliary contact (one normally open and one normally closed field convertible contact: 9999SX8 [all sizes for type S])

#### Schneider Electric USA

1415 S. Roselle Road  
Palatine, IL 60067  
Tel: 847-397-2600  
Fax: 847-925-7500  
www.schneider-electric.com/us



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