

Electrically Held 20-200 Amp, Class 21W, Class CLH

Features — Class 21W

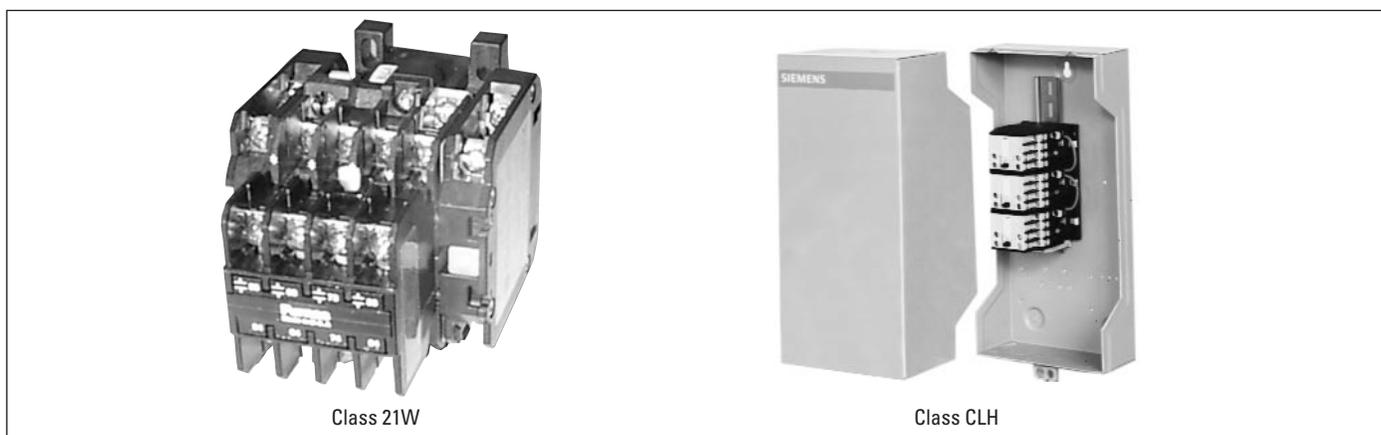
- Compact Design
- Silver Cadmium Oxide Contacts
- Pressure Type Terminals
- Front Removable Parts
- Straight Thru Wiring
- DIN Rail Mounting Standard
- Compact Size
- Wide Variety of Contact Configurations
- 12 Poles Maximum
- UL Listed File #E27683
- CSA File # LR6535

Application

Furnas compact lighting contactors are especially designed to switch ballast, tungsten and other discharge type lighting loads.

Features

These lighting contactors are rated at 20 amps, 480V Tungsten, 600V Ballast. They are available in 2–12 poles with a variety of NO and NC contact arrangements. The contactors are electrically held and offer compact size and versatile contact arrangements for lighting applications.



Class 21W

Class CLH

12
CONTROL
PRODUCTS

Features — Class CLH

- Available From 20 Amps–400 Amps
Up to 12 Poles 20, 30 and 60 Amps
3 Poles On 100–400 Amps
- Full Line of Enclosures:
NEMA 1,
NEMA 3R/12,
NEMA 4 (Painted And Stainless Steel),
NEMA 4X Non-Metallic
- Available In Combination Form With
Choice Of Disconnect:
Fusible Disconnect,
Non-Fusible Disconnect,
Circuit Breaker
- Full Line Of Factory And Field
Modifications

Description

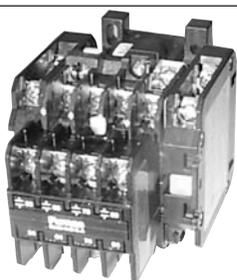
Class CLH electrically held lighting contactors provide a safe, convenient means of local or remote switching for tungsten and ballast lamp loads, mercury arc lamps, 3 phase resistive heating, 480 volts line to line, 277 volts line to neutral. CLH Electrically held lighting contactors are UL Listed.

The CLH contactors contain a double break design with higher contact pressure that reduces the electrodynamic forces during high inrush current, providing greater current carrying capacity and longer contact life.

Contactors also feature an arc quenching system that minimizes the destructive effects of electrical arcs and significantly increases contact life. Arcs that normally pit and gradually destroy the contact material are quickly removed from the contact surface. The special design of the contact assembly carries the arc away from the contacts and onto splitter plates, where it's divided into smaller arcs and extinguished.

Lighting
Control

Electrically Held 20 Amp, Class 21W



Ordering Instructions

- Replace the (*) with a letter from the coil table.
- 6 NC Poles maximum. For 5 or 6 NC Poles, must have equal number of NO Poles.
- Technical Data see page 525.
- Dimensions see page 535.

Coil Table

| 60Hz Voltage | 50Hz Voltage | Letter |
|---|----------------------|--------|
| 24 Separate Control | 24 Separate Control | J |
| 120 Separate Control | 110 Separate Control | F |
| 200-208 | — | D |
| 220-240 | 190-220 | G |
| 277 | 240 | L |
| 440-480 | 380-440 | H |
| 550-600 | 550 | E |
| For use with 24VDC Coil Driver (49MC03S0) | | X9 |

2 to 12 Poles

| Contacts Poles | Contacts Normally Open | Normally Closed | Open Type | | NEMA 1 ^① General Purpose | | NEMA 3R /12 ^② | | NEMA 4 ^④ Stainless Steel | | NEMA 4X Non-Metallic | |
|----------------|------------------------|-----------------|--------------|----------|--|----------|--------------------------|----------|--|----------|-------------------------|----------|
| | | | Catalog No | Price \$ | Catalog No | Price \$ | Catalog No | Price \$ | Catalog No | Price \$ | Catalog No | Price \$ |
| 2 | 2 | 0 | 21WE20A* | 168. | 21WE20B* | 186. | 21WE20N* | 288. | 21WE20W* | 386. | 21WE20F* | 482. |
| 2 | 0 | 2 | 21WE02A*X335 | 168. | 21WE02B*X335 | 186. | — | — | — | — | — | — |
| 3 | 3 | 0 | 21WE30A* | 186. | 21WE30B* | 204. | 21WE30N* | 306. | 21WE30W* | 453. | 21WE30F* | 504. |
| 3 | 0 | 3 | 21WE03A*X335 | 186. | 21WE03B*X335 | 204. | — | — | — | — | — | — |
| 4 | 4 | 0 | 21WE40A* | 240. | 21WE40B* | 258. | 21WE40N* | 360. | 21WE40W* | 507. | 21WE40F* | 572. |
| 4 | 3 | 1 | 21WE31A* | 240. | 21WE31B* | 258. | — | — | — | — | — | — |
| 4 | 2 | 2 | 21WE22A* | 240. | 21WE22B* | 258. | — | — | — | — | — | — |
| 4 | 0 | 4 | 21WE04A*X335 | 240. | 21WE04B*X335 | 258. | — | — | — | — | — | — |
| 6 | 6 | 0 | 21WE60A* | 312. | 21WE60B* | 372. | 21WE60N* | 432. | 21WE60W* | 528. | 21WE60F* | 662. |
| 6 | 4 | 2 | 21WE42A* | 312. | 21WE42B* | 372. | — | — | — | — | — | — |
| 8 | 8 | 0 | 21WE80A* | 426. | 21WE80B* | 486. | 21WE80N* | 546. | 21WE80W* | 644. | 21WE80F* | 804. |
| 8 | 6 | 2 | 21WE62A* | 426. | 21WE62B* | 486. | — | — | — | — | — | — |
| 8 | 4 | 4 | 21WE44A* | 426. | 21WE44B* | 486. | — | — | — | — | — | — |
| 9 | 9 | 0 | 21WE90A* | 462. | 21WE90B* | 522. | — | — | — | — | — | — |
| 9 | 7 | 2 | 21WE72A* | 462. | 21WE72B* | 522. | — | — | — | — | — | — |
| 9 | 5 | 4 | 21WE54A* | 462. | 21WE54B* | 522. | — | — | — | — | — | — |
| 10 | 10 | 0 | 21WE100A* | 498. | 21WE100B* | 558. | 21WE100N* | 640. | 21WE100W* | 716. | 21WE100F* | 894. |
| 10 | 8 | 2 | 21WE82A* | 498. | 21WE82B* | 558. | — | — | — | — | — | — |
| 10 | 6 | 4 | 21WE64A* | 498. | 21WE64B* | 558. | — | — | — | — | — | — |
| 12 | 12 | 0 | 21WE120A* | 570. | 21WE120B* | 630. | 21WE120N* | 712. | 21WE120W* | 798. | 21WE120F* | 999. |
| 12 | 10 | 2 | 21WE102A* | 570. | 21WE102B* | 630. | — | — | — | — | — | — |
| 12 | 8 | 4 | 21WE84A* | 570. | 21WE84B* | 630. | — | — | — | — | — | — |

Adder Decks^②

| Type | Pole Configuration | Catalog No | Price \$ |
|-------------------------------------|--------------------|------------|----------|
| Side Mounted Lighting Power Pole | 1 NO | 21WS10 | 36. |
| | 1 NC | 21WS01 | 36. |
| | 2 NO | 21WS20 | 72. |
| | 1 NO & 1 NC | 21WS11 | 72. |
| | 2 NC | 21WS02 | 72. |
| Top Mounted Lighting Power Pole | 2 NO | 21WT20 | 72. |
| | 2 NC | 21WT02 | 72. |
| | 4 NO | 21WT40 | 144. |
| | 2 NO & 2 NC | 21WT22 | 144. |
| | 4 NC | 21WT04 | 144. |

Separate Enclosure

| Description | Catalog No | Price \$ |
|---|------------|----------|
| Separate Enclosure allows for addition of 49SB* Pilot device and 50D24999 pilot light | D29841003 | 36. |

Field Kits

| Description | Catalog No | Price \$ |
|---|------------|----------|
| Start-Stop Pushbutton | 49SBPB5 | 40. |
| Hand-Off-Auto Selector Switch | 49SBSB1 | 40. |
| Off-On Selector Switch | 49SBSB4 | 40. |
| Neon Pilot Light (Red)—120, 240, 480, 600 VAC | 50D24999 | 90. |
| Step Down Coil Driver—24 VDC | 49MC03S0 | 50. |

①Base enclosure—no pilot devices can be added.
②For building multiple contactors from components.

③NEMA 12 Enclosures are UL Listed for NEMA 3R outdoor applications. Watertight conduit hubs or equivalent provision for watertight connection at the conduit entrance shall be used.

④For NEMA 4 painted steel enclosure, replace the 5th digit "S" in the catalog number with "4".