



4430 Series Contactor Panels

- NEMA 4 or 4X Enclosure
- 208-600 Volt, with Control Power Transformer
- Up to 6 Individually Fused Circuits of Contactors, 40-96 Amps
- Up to 6 Circuits of Branch Circuit Fusing, each 30-120 Amps
- Optional Digital Indicating Microprocessor-Based Temperature and Overtemperature Controllers
- Options:
 - Stepper
 - High Limit
 - SCR Trim Load
 - Ground Fault Monitor
 - Cabinet Heater
 - "Z" Purge System
 - Volt and Amp Meters
 - Floor Stand Kit



Description

Chromalox 4430 Series Contactor Panels are designed and engineered to meet virtually every heating application. Ranging in size from 24.9KW to 448.9KW, the 4430 Series handles resistive heating applications exceeding the capabilities of thermostats and manual switches.

Options

- Ground Fault Monitor for Equipment Protection
- Enclosure heater – Anti-Condensation for Instrument Protection for Ambient Temperatures as low as 0°F
- Z Purge Pressurization System for Class I, Div. 2, Groups C, D environments
- Combination Voltmeter and Ammeter with Phase Selector Switch
- Floor Stand Kit

See end of this section for an additional list of Special Panel Options and NEMA Descriptions.

Features

- NEMA 4 or 4X Stainless Steel Enclosure
- Manual Disconnect Switch
- Magnetic Contactors
- Load Fusing
- Control Power Transformer
- Temperature Controller (indicating)
- Overtemperature Controller(s) with Manual Reset
- Automatic Shutdown Device for Overtemperature Protection
- Drawings for Record
- Complete Installation and Operation Manuals
- Power "ON" Pilot Lamp

4430 Series Contactor Panels *(cont'd.)*

Ordering Information - Complete the Model Number using the Matrix provided.

Technical Notes: Load Fuse Current Rating Reflects 125% of Actual Load Amps.
 *External cooling required.
 **Ground Fault detection requires grounded supply.

Model

4432 Three Phase Contactor Power Control Panel NEMA 4/12

Panel Configuration

cUL and UL Listed Three Phase Contactor Power Control Panel. Features: Factory pre-wired for quick installation, Step-down Transformer with Primary & Secondary Fusing for 120 volt Control Circuit, NEMA 4 rated Enclosure for Indoor/Outdoor Applications, Main Magnetic Disconnect Switch with Shunt Trip Feature, Three-Pole Contactors, and Sub-Circuit Fusing. Options Include: Process Controller, Hi-Limit Controllers, Stepper, SCR Trim Load, Ground Fault Monitor, Ammeter with Phase Selector Switch, Voltmeter with Phase Selector Switch, Floor Stand Kit, Enclosure Heater, and Type "Z" Purge Pressurization System.

Code Current @ 40°C (104°F) Ambient with NO SOLAR LOAD

Code	Circuits	Max. Amps/Ckt	Total Amps	Fuse Amps/Ckt	Enclosure Dimensions
124	1	24	24	30	(24"H x 24"W x 12"D)
148	1	48	48	60	(24"H x 24"W x 12"D)
180	1	80	80	100	(24"H x 24"W x 12"D)
196	1	96	96	120	(24"H x 24"W x 12"D)
224	2	24	48	30	(36"H x 30"W x 12"D)
248	2	48	96	60	(36"H x 30"W x 12"D)
280	2	80	160	100	(36"H x 30"W x 12"D)
296	2	96	192	120	(48"H x 36"W x 12"D)
324	3	24	72	30	(48"H x 36"W x 12"D)
348	3	48	144	60	(48"H x 36"W x 12"D)
380	3	80	240	100	(48"H x 36"W x 12"D)
396	3	96	288	120	(48"H x 36"W x 12"D)
424	4	24	96	30	(48"H x 36"W x 12"D)
448	4	48	192	60	(48"H x 36"W x 12"D)
480	4	80	320	100	(48"H x 36"W x 12"D)
496	4	96	384	120	(48"H x 36"W x 12"D)
524	5	24	120	30	(48"H x 36"W x 12"D)
548	5	48	240	60	(48"H x 36"W x 12"D)
580	5	80	400	100	(48"H x 36"W x 12"D)
596	5	96	480	120	(60"H x 36"W x 12"D)
624	6	24	144	30	(48"H x 36"W x 12"D)
648	6	48	288	60	(48"H x 36"W x 12"D)
680	6	80	480	100	(60"H x 36"W x 12"D)
696	6	96	576	120	(60"H x 36"W x 12"D)

Code Voltage

1	208 VAC
2	240 VAC
3	380 VAC
4	415 VAC
5	480 VAC

Code Process Controller Options

0	Customer Supplied Signal (Dry Contact or Solid State Switch, 120 VAC)
1	4040-TRA100 1/4 DIN TRIAC, Relay, Retransmit, RS485 Controller
2	Customer Supplied Signal to Stepper (4 - 20 mA)
3	4040-SRA100 1/4 DIN SSR, Relay, Retransmit, RS485 Controller & Stepper
4	Customer Supplied Digital Signal for Stepper and One 24 or 48 Amp SCR Trim Load
5	4040-SRA100 1/4 DIN SSR, Relay, Retransmit, RS485 & Stepper & One 24 or 48 Amp SCR Trim Load
6	Customer Supplied Digital Signal for Stepper and One 80 or 96 Amp SCR Trim Load
7	4040-SRA100 1/4 DIN SSR, Relay, Retransmit, RS485 & Stepper & One 80 or 96 Amp SCR Trim Load

Code Overtemperature Controller Options

0	None
1	One 4050-1R000 1/4 DIN Fixed 5A Relay, Relay
2	Two 4050-1R000 1/4 DIN Fixed 5A Relay, Relay
3	Three 4050-1R000 1/4 DIN Fixed 5A Relay, Relay
4	One 4050-1RA10 1/4 DIN Fixed 5A Relay, Relay, Retransmit, RS485
5	Two 4050-1RA10 1/4 DIN Fixed 5A Relay, Relay, Retransmit, RS485
6	Three 4050-1RA10 1/4 DIN Fixed 5A Relay, Relay, Retransmit, RS485

Code Ground Fault Sensing/Interrupt, Enclosure Heater, and "Z" Purge Pressurization Option

0	None
1	Ground Fault Monitor & Shutdown includes Illuminated Reset Switch**
2	Cabinet Heater
3	"Z" Purge Pressurization System
4	Ground Fault Monitor & Cabinet Heater
5	Ground Fault Monitor and "Z" Purge System
6	Ground Fault Monitor, Cabinet Heater and "Z" Purge System
7	Enclosure Heater and "Z" Purge System

Code Options

0	None
1	Multimeter (Volts & Current)

4432- 624 5 3 1 0 0 Typical Model Number

4430 Series Contactor Panels (cont'd.)

Technical Notes: Load Fuse Current Rating Reflects 125% of Actual Load Amps.

Ordering Information - Complete the Model Number using the Matrix provided.

Model

4436 Three Phase Contactor Power Control Panel with Optional SCR Trim Load Control

Panel Configuration

cUL and UL Listed Three Phase Contactor Power Control Panel. Features: Factory pre-wired for quick installation, Step-down Transformer with Primary & Secondary Fusing for 120 volt Control Circuit, NEMA 4X 304 Stainless Steel rated Enclosure for Indoor/Outdoor Applications, Main Magnetic Disconnect Switch with Shunt Trip Feature, Three-Pole Contactors, and Sub-Circuit Fusing. Options Include: Process Controller, Hi-Limit Controllers, Stepper, SCR Trim Load, Ground Fault Monitor, Ammeter with Phase Selector Switch, Voltmeter with Phase Selector Switch, Floor Stand Kit, Enclosure Heater, and Type "Z" Purge Pressurization System.

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4	Customer Supplied Digital Signal for Stepper and One 24 or 48 Amp SCR Trim Load
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7	4040-SRA100 1/4 DIN SSR, Relay, Retransmit, RS485 & Stepper & One 80 or 96 Amp SCR Trim Load

Code Overtemperature Controller Options

0	None
1	One 4050-1R000 1/4 DIN Fixed 5A Relay, Relay
2	Two 4050-1R000 1/4 DIN Fixed 5A Relay, Relay
3	Three 4050-1R000 1/4 DIN Fixed 5A Relay, Relay
4	One 4050-1RA10 1/4 DIN Fixed 5A Relay, Relay, Retransmit, RS485
5	Two 4050-1RA10 1/4 DIN Fixed 5A Relay, Relay, Retransmit, RS485
6	Three 4050-1RA10 1/4 DIN Fixed 5A Relay, Relay, Retransmit, RS485

Code Ground Fault Sensing/Interrupt, Enclosure Heater, and "Z" Purge Pressurization Option

0	None
1	Ground Fault Monitor & Shutdown includes Illuminated Reset Switch
2	Enclosure Heater
3	"Z" Purge Pressurization System
4	Ground Fault Monitor & Enclosure Heater
5	Ground Fault Monitor and "Z" Purge System
6	Ground Fault Monitor, Enclosure Heater and "Z" Purge System
7	Enclosure Heater and "Z" Purge System

Code Options

0	None
4	Multimeter (Volts & Current)

4436- 624 5 3 1 0 0 Typical Model Number