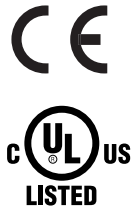


C2ZF & C3ZF Three Phase Solid State Relays



- Industrial Solid State Relays
- DIN Rail Mounted
- Conservative Thermal Design
- Up to 2x75 or 3x65 Amp Ratings
- Up to 600 VAC Operational Voltage
- Integrated Heatsink
- Zero Crossover Switching to Minimize Electronic Noise
- AC & DC Voltage Input Signals
- Alarms for Load/Line Interrupt
- Overtemperature Alarm
- Digital PNP Alarm Output Signal for Logic-Gated Devices
- cULus Listed
- CE Marked
- LED Status Indicator
- IP20 Touch Protection Cover

Description

The C2ZF & C3ZF Series of solid state relays are an ideal, low cost power control solution for switching resistive loads found applications in such as furnaces, ovens, heat treating, injection molding, thermoforming, press platens, commercial food equipment, semiconductor, lighting and drying, just to name a few.

The C2ZF & C3ZF Series power controllers feature a rugged, industrial design, touch-safe exterior and conservative, continuous service amperage ratings at 40°C ambient. They are available in both AC and DC Voltage logic input command signals and employ zero crossover firing (gated to turn on and off at zero voltage), which keeps unwanted RFI (Radio Frequency Interference) to a minimum. Each controller comes complete with integrated heat sink, SCR thermal protection with LED indication, is USA & Canadian UL listed, and carries CE conformity. Optional alarms are available for over temperature as well as load and line interrupt conditions. The C2ZF & C3ZF offers a digital PNP alarm output signal for logic-gated devices such as PLCs.

The C2ZF Series controller manages three phase, 2 leg loads up to 75 Amps and up to 600 VAC.

The C3ZF Series controller manages three phase, 3 leg loads up to 65 Amps and up to 600 VAC.

Applications

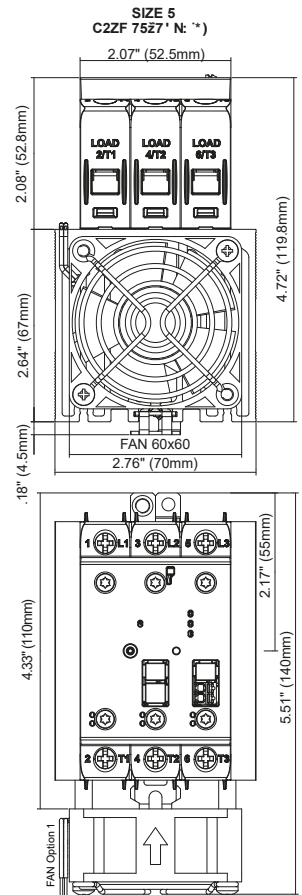
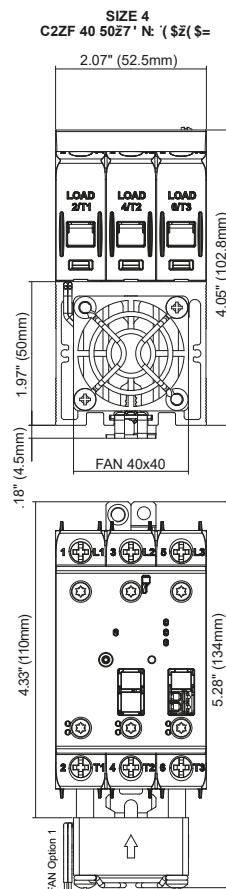
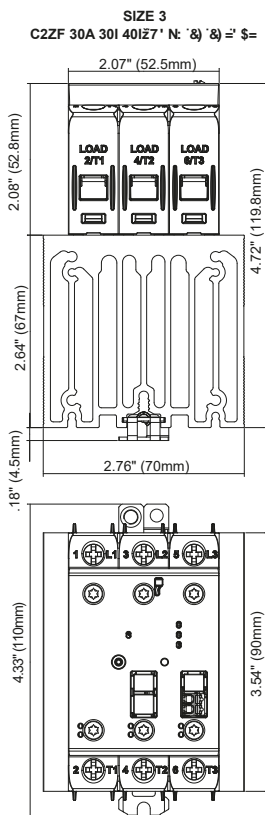
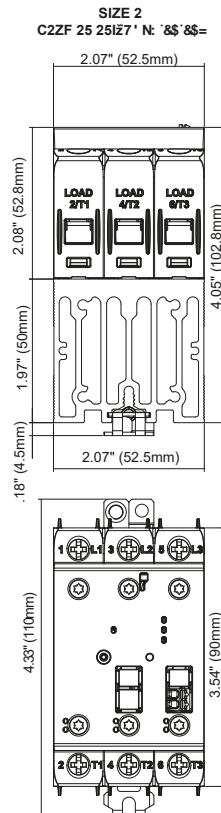
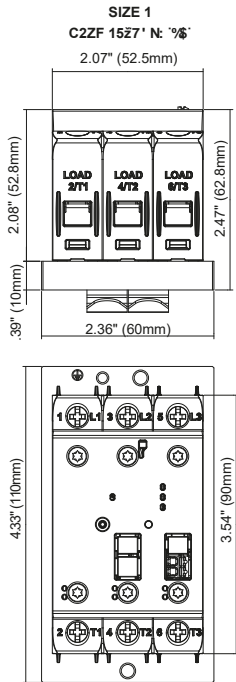
- Thermoforming
- Plastic extrusion lines
- Injection molding
- Heat treatment
- Industrial ovens / furnaces
- Mold & dye heating/cooling control
- HVAC
- Packaging
- Textile production
- Rubber vulcanization equipment
- Driers, incubators and autoclaves
- Pharmaceutical and chemical processes
- Rapid resistive heat load switching

C2ZF & C3ZF

Three Phase Solid State Relays

(cont'd.)

MODEL:	SIZE 1	SIZE 2	SIZE 3	SIZE 4	SIZE 5
WEIGHT:	0.86 lb / 0.39 kg	1.10 lb / 0.5 kg	1.54 lb / 0.7 kg	1.19 lb / 0.54 kg	1.68 lb / 0.76 kg



C2ZF & C3ZF

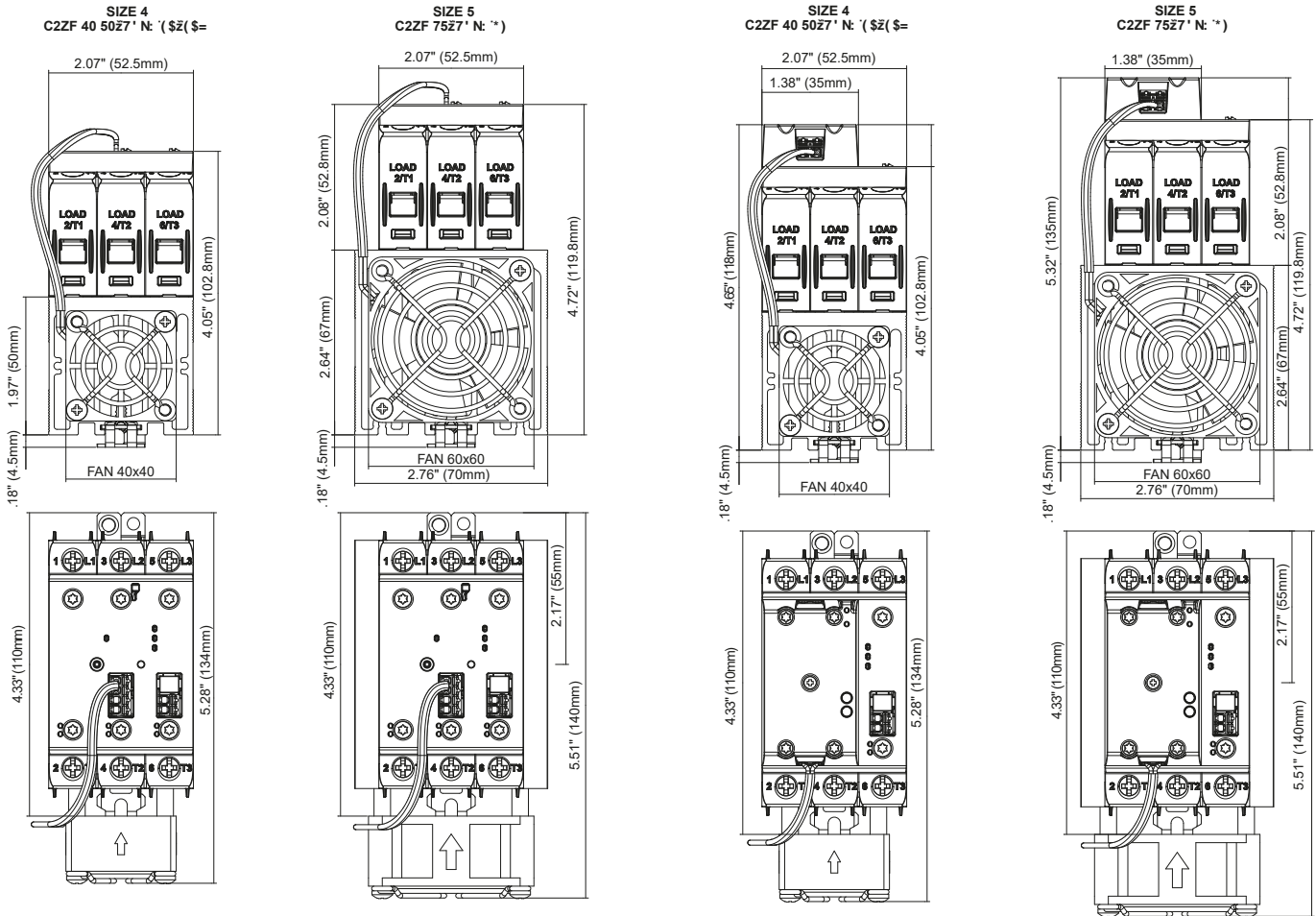
Three Phase Solid State Relays

(cont'd.)

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FAN Option 2 fB(JXWdfYk jYga UfhZbL

FAN Option 3 fB15-230Jac'dfYk jYga UfhZbL



C2ZF

Three Phase Solid State Relays

(cont'd.)

Ordering Information

To Order — Complete the Model Number using the Matrix provided.

Model 3-Phase, 2- Leg Solid State Relay Power Controller - DIN Rail Mount

C2ZF The C2ZF Series are DIN Rail mounted 3-phase, 2-leg solid state relays with integrated heatsink for switching resistive loads in industrial applications. Standard features: Zero-voltage turn-on, LED input status indicator, IP20 touch protection, two different input control signal choices, integrated SCR thermal protection with LED signal indication, operating voltage up to 600 VAC. Optional features: Alarms for over temperature protection and load/line interruption* conditions. Approvals: CE, UL, cUL

Code Current @ 104°F (40°C) Ambient, continuous service

025	25 Amps
030	30 Amps
040	40 Amps (Fan Required)
050	50 Amps (Fan Required)
075	75 Amps (Fan Required)

Code Voltage

48	480 VAC (24-530VAC)
60	600 VAC (24-660VAC)

Code Input Control Signal

1	5 - 32 VDC
2	20 - 260 VAC/DC

Code Alarm Options

0	None
1*	Solid State Relay Switch (normally open)
2	Solid State Relay Switch (normally closed)
3*	Digital Logic PNP Output (normally open)

External 24 V Power Supply is Required to Power the Alarms

Code Fan

0	No Fan (25 & 30 Amp Only)
1	Fan (24 VDC Power Supply Requirement)
2*	Fan (24 VDC Internal Power Supply)
3**	Fan (115-230VAC Internal Power Supply)

C2ZF - 040- 48- 1 1 2 -00 Typical Model Number

Notes:

* Available ONLY for input control signal code 1

** NOT available for input control signal code 1

The following Chromalox Temperature Controllers offer a suitable 24 VDC power supply for the alarm option:

40 Series: 6040 / 8040 / 4040

50 Series: 6050 / 4050

60 Series: 6060

80 Series: 4080 / 4081 / 4082

C3ZF

Three Phase Solid State Relays

(cont'd.)

Ordering Information

To Order — Complete the Model Number using the Matrix provided.

Model 3-Phase, 3- Leg Solid State Relay Power Controller - DIN Rail Mount

C3ZF The C3ZF Series are DIN Rail mounted 3-phase, 3-leg solid state relays with integrated heatsink for switching resistive loads in industrial applications. Standard features: Zero-voltage turn-on, LED input status indicator, IP20 touch protection, two different input control signal choices, integrated SCR thermal protection with LED signal indication, operating voltage up to 600 VAC. Optional features: Alarms for over temperature protection and load/line interruption* conditions. Approvals: CE, UL, cUL

Code Current @ 104°F (40°C) Ambient, continuous service

010	10 Amps
020	20 Amps
025	25 Amps
040	40 Amps (Fan Required)
065	65 Amps (Fan Required)

Code Voltage

48	480 VAC (24-530VAC)
60	600 VAC (24-660VAC)

Code Input Control Signal

1	5 - 32 VDC
2	20 - 260 VAC/DC

Code Alarm Options

0	None
1*	Solid State Relay Switch (normally open)
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C3ZF - 040- 48- 1 1 2 -00 Typical Model Number

Notes:

- * Available ONLY for input control signal code 1
- ** NOT available for input control signal code 1

The following Chromalox Temperature Controllers offer a suitable 24 VDC power supply for the alarm option:

- 40 Series: 6040 / 8040 / 4040
- 50 Series: 6050 / 4050
- 60 Series: 6060
- 80 Series: 4080 / 4081 / 4082