


# NON-REVERSING & REVERSING CONTACTORS

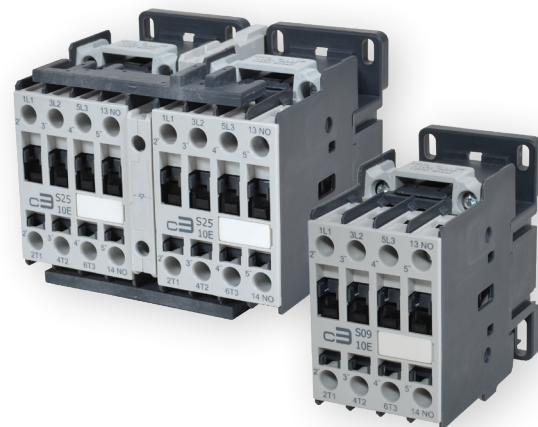


## SERIES 300 & 310 PRODUCT PROFILE

The complete range of c3controls **Series 300 Non-Reversing and Series 310 Reversing Contactors** share common accessories, reducing inventory and enabling the devices to be customized for each application. Small size, IP20 guarded terminals with dual terminal markings, enhance the features and performance of your equipment.

### DELIVERING SUPERIOR PRODUCT QUALITY AND MANUFACTURING EXCELLENCE

✓ <b>Proven</b>	Our Series 300 and 310 Standard Contactors are UL Listed and CE marked, meeting global standards requirements. 
✓ <b>Compact Size</b>	Reduced panel area for lower installed costs—Four (4) frame sizes directly interchangeable with other manufacturers.
✓ <b>Lower Cost</b>	Snap-on front mounted and side mounted auxiliary contacts install without the use of tools for lower installed costs.
✓ <b>Convenient</b>	Wide variety of AC and DC operating coils for control circuit application flexibility. 50A to 105A DC operated devices feature electronic coil control.
✓ <b>Easy to Install</b>	35mm DIN rail mounting for all contactors from 9A to 105A for fast and easy installation and removal, or panel mounting for more secure installation in high shock and vibration applications.
✓ <b>Modular Design</b>	Modular design allows easy installation of Series 320 Overload Relays and the complete range of Series 330 Motor Protection Circuit Breakers and accessories.
✓ <b>Visible Certifications</b>	Our product certifications and electrical ratings are clearly marked on the outside of the device for easy reference during installation.
✓ <b>Environmentally Friendly</b>	Environmentally friendly contacts are cadmium free and non-metallic materials are asbestos, halogen, and cadmium free. All c3controls products are compliant to the RoHS directives.
✓ <b>Added Safety</b>	IP20 guarded terminals with dual terminal markings prevent accidental contact with live parts.
✓ <b>Lifetime Warranty*</b>	Every product is backed by our lifetime warranty—unmatched in the industry—bringing you quality components that perform in the most demanding applications.
✓ <b>Guaranteed Same-Day Shipping*</b>	Product availability reduces inventory, and improves cash-flow—saving you money. With c3controls any order for standard catalog items received by 6:00pm ET is guaranteed to ship same-day.
✓ <b>Advantage Pricing</b>	Our approach to product development, manufacturing, and focus on servicing the OEM and Electrical Equipment Builder reduces cost. The result—the best value in the industry.



### UNIQUE PRODUCT LINE FEATURES

#### High Fault SCCR

- High fault short circuit current rating of 100kA @ 480V and 600V with Class J fuses, provides safety and reliability in high fault applications.

#### Integral Auxiliary

- Integral auxiliary contacts, 3 power poles + 1 auxiliary, are standard on all c3controls 9A to 25A non-reversing contactors.

#### Seamless Compatibility

- c3controls Series 310, 9A to 25A, AC/DC Reversing Contactors are compatible with directly mounted Series 320-B2 Overload Relays, and our 9A to 40A AC/DC Reversing Contactors direct mount onto Series 330 Motor Protection Circuit Breakers.

#### Common Accessories

- Designing starter assemblies and panels is easy! No more remembering which auxiliary works with each contactor. Our complete range of Series 300 Non-Reversing and Series 310 Reversing Contactors shares common accessories reducing inventory and simplifying installation and assembly.

#### Multi-Point Terminal Coils

- Four terminal coils on all 9A to 105A AC and DC operated contactors are easily accessible, two on the line side and two on the load side.

#### Quick Identification

- Enhanced markings, improved identification labels, and dual IEC and NEMA terminal markings ensure quick identification of product from all angles simplifying troubleshooting in panels with many devices.

\*See c3controls Terms & Conditions



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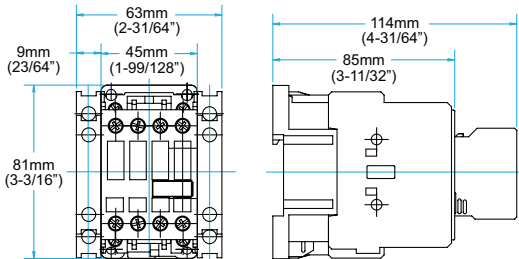
## SPECIFICATIONS

		S09~S25	S32~S40	S50~S80	S95~S105
	UNITS				
ELECTRICAL GENERAL					
Rated Operating Frequency	Hz	25 ~ 400			
Rated Coil Frequencies	mΩ	AC: 50Hz, 60Hz, 50/60Hz DC & DC/AC: 50/60Hz			
ELECTRICAL UL/CSA APPLICATIONS					
Rated Operating Voltage, Ue	VAC	600			
General Purpose Current Rating	A	40	60	110	140
RATED 1 PHASE OPERATING CURRENT, Ie					
115V	A	24	34	80	100
230V	A	28	28	50	88
RATED 1 PHASE OPERATING POWER, Pe					
115V	HP	2	3	7-1/2	10
230V	HP	3	5	15	20
RATED 3 PHASE OPERATING CURRENT, Ie					
200V	A	25.3	32.2	62.1	92
230V	A	22	42	68	104
460V	A	21	40	65	96
575V	A	17	27	62	77
RATED 3 PHASE OPERATING POWER, Pe					
200V	HP	7-1/2	10	20	30
230V	HP	7-1/2	15	25	40
460V	HP	15	30	50	75
575V	HP	15	25	60	75
Size		0	1	2	3
Short Circuit Rating	kA	5	5	10	10
Max. Fuse Size	A	60	60	150	200
High Fault Short Circuit Rating	kA	100			
Max. Fuse Size	A	40	60	125	175
Electrical Endurance, AC-3 at Max. Rated 3 Phase Operating Power (@ 460V)	Ops. (mil.)	2.0	1.5	1.8	1.5
ELECTRICAL IEC APPLICATIONS					
Rated Insulation Voltage, Ui	V	1000			
Rated Impulse Voltage Withstand, Uimp	kV	6	6	8	8
Rated Operating Voltage, Ue	VAC	690			
Rated Thermal Current, Ith for Ambient Temp. <55° C (131° F)	A	45	60	110	140
RATED AC-1 OPERATING CURRENT, Ie					
At 55° C (131° F)	A	45	60	110	140
At 70° C (158° F)	A	32	48	88	110
RATED AC-3 OPERATING CURRENT, Ie					
220 ~ 240V; 380 ~ 400V; 415 ~ 440V	A	25	40	80	105
500V	A	19	32	63	85
660 ~ 690V	A	15	25	48	80
RATED 3 PHASE AC-3 OPERATING POWER, Pe					
220 ~ 240V	kW	6.5	11	22	30
380 ~ 400V	kW	11	18.5	37	55
415 ~ 440V	kW	12.5	22	45	55
500V	kW	15	25	45	65
660 ~ 690V	kW	15	30	45	65
RATED SHORT-TIME CURRENT, Icw					
1 Second	A	630	1265	2530	3300
5 Seconds	A	280	450	1130	1485
10 Seconds	A	200	400	800	1050
30 Seconds	A	115	230	460	600
1 Minute	A	80	165	325	430
3 Minutes	A	50	100	185	250
MAXIMUM ELECTRICAL SWITCHING RATE					
AC-1; AC-3	Ops./hr.	1200	1200	1200	600
AC-4	Ops./hr.	360	200	200	200
Electrical Endurance, AC-3 at Max. Rated 3 Phase Operating Power (@400V)	Ops. (mil.)	1.8	1.3	1.4	1.2
Making Capacity	A	450	550	1000	1280
BREAKING CAPACITY					
Ue ≤ 400V; Ue = 500V	A	250	450	920	1050
Ue = 690V	A	130	205	780	950
ROHS COMPLIANCE For RoHS compliance documentation by product, refer to <a href="http://www.c3controls.com">www.c3controls.com</a> .					

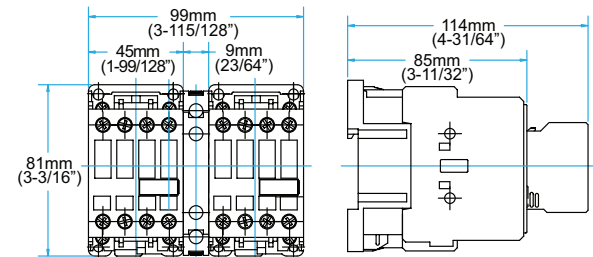
For complete ratings and detailed specifications refer to [www.c3controls.com](http://www.c3controls.com).

## DIMENSIONS

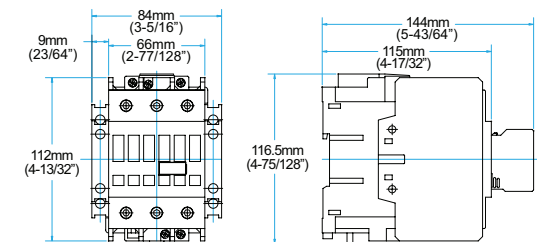
Non-Reversing, AC Coil (Series 300-S09, 300-S12, 300-S18 & 300-S25)



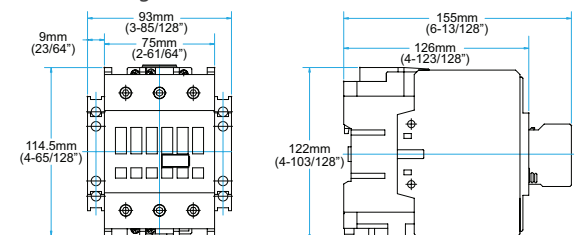
Reversing, AC Coil (Series 310-S09, 300-S12, 300-S18 & 300-S25)



Non-Reversing, AC Coil (Series 310-S50, 300-S65 & 300-S80)



Non-Reversing, AC Coil (Series 310-S95 & 300-S105)



## PROVEN

### Conformity to Standards:

UL 508, 60947-4-1A

CSA C22.2 No. 14

IEC 60947-1, 60947-4-1

### Certifications:

UL File #: E236197 (Guide NLDX, NLDX7), E68568 (Guide NKCR, NKCR7)

CE Marked (per EU Low Voltage Directive 2006/95/EC and RoHS Directive 2011/65/EU)



Visit [c3controls.com](http://c3controls.com) to download product certifications.



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