

# DEFINITE PURPOSE CONTACTORS





**Section 29** 

c3controls Series 280 and Series 290 Definite Purpose Contactors are designed to meet your power switching application, right down to the number of power poles. Commonly used in the HVAC industry, definite purpose contactors can help you save money and premium panel space. Just look and see what our new line has to offer!



Series 280 Non-Reversing Contactors	4
Series 290 Reversing Contactors	5
Specifications	7
Circuit Diagrams	10
Dimensions	11

# **PROVEN**



Conformity to Standards: UL 508 CSA C22.2 No. 14-10 **Certifications:** 

UL File #: E236197 (Guide NLDX2, NLDX8)

Visit www.c3controls.com to download product certification:





c3controls offers a comprehensive line of Definite Purpose Contactors designed and manufactured to meet the needs of the machine builder. We promise durable products at a price that gives you an edge. Check out all the features of our Series 280/290 Definite Purpose Contactors below!

DELIVERING SUPERIOR PROD	UCT QUALITY AND MANUFACTURING EXCELLENCE
✓ Proven	Our Series 280 and 290 Definite Purpose Contactors are UL Recognized, meeting essential standards requirements.
<b>✓</b> Compact Size	Reduced panel area for lower installed costs. Maximum three (3) frame sizes per pole for devices rated from 20A to 90A.
✓ Lower Cost	Definite purpose contactors are a lower cost alternative when compared to 3-pole standard contactors.
√ Flexibility	Available in multiple pole configurations, up to 3 to meet your application needs.
✓ Easy to Install	Panel-mountable with four screws, one in each corner, for fast and simple installation.
√ Visible Certifications	Our product certifications and electrical ratings are clearly marked on the outside of the device for easy reference during installation.
✓ Environmentally Friendly	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.
√ Added Safety	The durable, impact-resistant Class F-type contactor frame is insulated to guard against physical or electrical damage.
✓ Limited Lifetime Warranty*	Every product is backed by our limited lifetime warranty—unmatched in the industry—bringing you quality components that perform in the most demanding applications.
✓ Guaranteed Availability*	Any order for standard catalog items received by 6:00pm ET is guaranteed to ship same-day. NOTE: Not all items are available for guaranteed same-day shipping, consult factory for the details.
✓ Advantage Pricing	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.

<sup>\*</sup>See c3controls Terms & Conditions

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# / DEFINITE PURPOSE CONTACTORS





1-Pole

2-Pole

3-Pole

3-Pole Dual Frame









# **UNIQUE PRODUCT LINE FEATURES**

### **MULTIPLE POLE CONFIGURATIONS**



With 1-, 2-, and 3-pole configurations available, a more accurate contactor can now be chosen, leading to cost savings and a smaller dimensional footprint compared to a 3-pole only contactor.

### SINGLE POLE CONTACTOR **WITH SHUNT**



Single pole contactors include a shunt for termination and feed-through of Neutral line.

### **ADDED SAFETY**



The durable, impact-resistant Class F-type contactor frame is insulated to guard against physical and electrical damage.

### INTEGRATED MECHANICAL INTERLOCK



Series 290 Reversing Contactors include an Integrated Mechanical Interlock to avoid simultaneous switching of both the frames.

# **EASE OF CONNECTION**



Quick connect and box lug wire terminals will help reduce your installation costs and enhance the features and performance of your equipment.

# **QUICK IDENTIFICATION**



Clear markings and visible labels ensure quick identification of the product, simplifying troubleshooting in panels with many devices.

# FIND IT FAS1

# **Definite Purpose Contactors**



- Certifications
- Specifications
- **Dimension Drawings**
- Installation Instructions
- Easy to Buy

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### IT'S EASY TO BUILD YOUR OWN DEFINITE PURPOSE CONTACTOR

Simply pick the code number from each of the sections below and combine them to build your part number.

# **Definite Purpose Contactors (Non-Reversing)**







	I. NUMBER OF POLES								
CODE	DESCRIPTION	LIST							
	1 POLE NON-REVERSING								
280-D20N1N	20A Contactor	\$ 29.10							
280-D25N1N	25A Contactor	\$ 32.50							
280-D30N1N	30A Contactor	\$ 41.40							
280-D40N1N	40A Contactor	\$ 54.90							
	2 POLE NON-REVERSING								
280-D20N2	20A Contactor	\$ 35.80							
280-D25N2	25A Contactor	\$ 39.20							
280-D30N2	30A Contactor	\$ 49.30							
280-D40N2	40A Contactor	\$ 66.10							
280-D50N2	50A Contactor	\$116.50							
280-D60N2	60A Contactor	\$153.90							
280-D75N2	75A Contactor	\$280.80							
280-D90N2	90A Contactor	\$313.20							
	3 POLE NON-REVERSING								
280-D20N3	20A Contactor	\$ 47.00							
280-D25N3	25A Contactor	\$ 52.40							
280-D30N3	30A Contactor	\$ 66.30							
280-D40N3	40A Contactor	\$ 87.80							
280-D50N3	50A Contactor	\$154.60							
280-D60N3	60A Contactor	\$205.70							
280-D75N3	75A Contactor	\$331.60							
280-D90N3	90A Contactor	\$417.70							

	II. COIL VOLTAGE								
CODE	DESCRIPTION								
XC	24V AC (50/60Hz)								
XAD	120V AC (50/60Hz)								
XE	208-240V AC (50/60Hz)								
P	277V AC (50/60Hz)								

NOTE: Not all items are available for guaranteed same-day shipping, consult factory for the details.



# Some of Our Popular Configurations:

	DEFINITE PURPOSE CONTACTORS (NON-REVERSING)							
CATALOG NUMBER	DESCRIPTION	LIST						
280-D30N2XAD	Non-Reversing, 30A, 2 Pole, 120V AC Coil	\$ 49.30						
280-D50N3XAD	Non-Reversing, 50A, 3 Pole, 120V AC Coil	\$154.60						
280-D60N3XAD	Non-Reversing, 60A, 3 Pole, 120V AC Coil	\$205.70						

AVAILABLE FRAME SIZES FOR NON-REVERSING CONTACTORS











# IT'S EASY TO BUILD YOUR OWN DEFINITE PURPOSE CONTACTOR

Simply pick the code number from each of the sections below and combine them to build your part number.

# **Definite Purpose Contactors (Reversing)**



Example: To build one of our most popular Definite Purpose Contactors, the part number would be I+II or 290-D40N33XAD

	I. NUMBER OF POLES	
CODE	DESCRIPTION	LIST
290-D20N33	3 + 3 Pole, Dual Frame, 20A Contactor	\$154.60
290-D25N33	3 + 3 Pole, Dual Frame, 25A Contactor	\$182.60
290-D30N33	3 + 3 Pole, Dual Frame, 30A Contactor	\$212.80
290-D40N33	3 + 3 Pole, Dual Frame, 40A Contactor	\$252.00

	II. COIL VOLTAGE									
CODE	DESCRIPTION									
XC	24V AC (50/60Hz)									
XAD	120V AC (50/60Hz)									
XE	208-240V AC (50/60Hz)									
Р	277V AC (50/60Hz)									

NOTE: Series 290 Reversing Contactors are available upon special request and are not available for same-day shipping. Consult factory for details.



# Some of Our Popular Configurations:

	DEFINITE PURPOSE CONTACTORS (REVERSING)							
CATALOG NUMBER	DESCRIPTION	LIST						
290-D40N33XAD	Reversing, 40A, 3+3 Pole, 120V AC Coil	\$252.00						
290-D30N33XAD	Reversing, 30A, 3+3 Pole, 120V AC Coil	\$212.80						
290-D20N33XAD	Reversing, 20A, 3+3 Pole, 120V AC Coil	\$154.60						

# **DEFINITE PURPOSE CONTACTORS /**

# Non-Reversing and Reversing Contactors

c3controls Series 280 and Series 290 Definite Purpose Contactors are designed to meet your power switching application, right down to the number of power poles. Commonly used in the HVAC industry, definite purpose contactors can help you save money and panel space. Quick connect and box lug wire terminals help reduce your installation costs and enhance the features and performance of your equipment. See what else the Series 280 & 290 have to offer.

### Product features include:

- Compact size Three (3) frame sizes per pole for devices rated from 20A to 90A.
- Recognizable, sleek family appearance across all three poles.
- Standard range of AC operating coils for control circuit applications: 24V, 120V, 208-240V, and 277V.
- Single pole contactors include a shunt for termination and feed-through of Neutral line.
- 20A to 40A 3 Pole (Series 290) devices available in Dual frame for reversing applications.
- Series 290 devices include an Integrated Mechanical Interlock to avoid simultaneous switching of both frames.
- Environmentally friendly, non-metallic materials are asbestos, halogen, and cadmium free.
- · Panel-mountable with four screws for fast and simple installation.
- The durable, impact-resistant, Class F-type contactor frame is insulated to guard against physical and electrical damage.
- Markings and labels are highly visible for ease of troubleshooting and maintenance.









# UNIQUE PRODUCT FEATURES

# MULTIPLE POLE CONFIGURATIONS

With 1-, 2-, and 3-pole configurations available, a more accurate contactor can now be chosen, leading to cost savings and a smaller dimensional footprint compared to a 3-pole only contactor.







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		D20N1N	D25N1N	D30N1N	D40N1N	D2ON2	D25N2	D30N2	D40N2
KEY SPECIFICATIONS			•	•					
	UNITS								
No. of Power Poles			1.5						
Full Load Amps (FLA)									
240/277V AC	Α	20	25	30	40	20	25	30	40
480V AC	Α	20	25	30	40	20	25	30	40
600V AC	Α	20	25	30	40	20	25	30	40
Resistive Load Amps	Α	30	35	40	50	30	35	40	50
Locked Rotor Amps									
240/277V AC	Α	120	150	180	240	120	150	180	240
480V AC	Α	100	125	150	200	100	125	150	200
600V AC	Α	80	100	120	160	80	100	120	160
Power Pole Wire Terminals		DEIII	/(01-441/01-4	0	Box Lug with Hex Drive Box	DI- III.	- /01 - ++  /0		Box Lug with Hex Drive Box
(for all line and load terminals)							Lug Screws		
Quick Connects per Terminal									
Coil Terminals (+/-)	Blades				2/2	2			
Power Poles	Blades				4				

		D50N2	D60N2	D75N2	D90N2	D20N3	D25N3	D30N3	D40N3
KEY SPECIFICATIONS			-		-				
	UNITS								
No. of Power Poles				2			3	<b>*</b>	
Full Load Amps (FLA)									
240/277V AC	Α	50	60	75	90	20	25	30	40
480V AC	Α	50	60	75	90	20	25	30	40
600V AC	Α	50	60	75	90	20	25	30	40
Resistive Load Amps	A	65	75	90	120	30	35	40	50
Locked Rotor Amps									
240/277V AC	Α	300	360	450	540	120	150	180	240
480V AC	Α	250	300	375	450	100	125	150	200
600V AC	Α	200	240	300	360	80	100	120	160
Power Pole Wire Terminals (for all line and load terminals)			with Hex Lug Screws	Box Lug v Drive Box	vith Slotted Lug Screws	Phillips	s/Slotted/Socke	t Screw	Box Lug with Hex Drive Box Lug Screws
Quick Connects per Terminal									
Coil Terminals (+/-)	Blades				2/	2			
Power Poles	Blades				2				
*3+3 Poles for Series 290 Reversing Co	ntactors								

		D50N3	D60N3	D75N3	D90N3
KEY SPECIFICATIONS					
	UNITS				
No. of Power Poles			3	}	
Full Load Amps (FLA)					
240/277V AC	Α	50	60	75	90
480V AC	А	50	60	75	90
600V AC	A	50	60	75	90
Resistive Load Amps	Α	65	75	90	120
Locked Rotor Amps					
240/277V AC	А	300	360	450	540
480V AC	A	250	300	375	450
600V AC	A	200	240	300	360
Power Pole Wire Terminals		Box Lug with Hoy D	rive Box Lug Screws	Pay Lug with Clatted	Drive Box Lug Screws
(for all line and load terminals)		DOX Lug Willi Hex Di	Tive Dox Lug Screws	Dox Lug Willi Slotteu	Drive Dox Lug Screws
Quick Connects per Terminal					
Coil Terminals (+/-)	Blades		2/	2	
Power Poles	Blades		2	2	

			1-POLE CO	ONTACTORS			2-POLE CO	INTACTORS	
OIL CHARACTERISTICS									
	UNITS								
Iominal Coil Voltage	V	24	120	208/240	277	24	120	208/240	277
Naximum Pickup Voltage	V	18	88	177	221	18	88	177	221
Prop-Out Voltage Range	V	6~15	20~70	40~140	50~165	6~15	20~70	40~140	50~165
IOMINAL INRUSH									•
VA @ 50Hz		31	31	35	31	22	22	22	22
VA @ 60Hz		28	28	32	28	20	20	20	20
IOMINAL SEALED				•					
VA @ 50Hz		6	6	7	6	5.5	5.5	5.5	5.5
VA @ 60Hz		5	5	6	5	4.5	4.5	4.5	4.5
Iominal Resistance	Ohms	18	420	1800	2500	11	237	1000	1600
Naximum Coil Voltage	V	30	132	264	300	30	132	264	300
THER CHARACTERISTICS			20-3	O FLA			40	FLA	
ine & Load Terminals			#10-32	Screw			Box	Lug	
Vire Size (MinMax.)	AWG		16	6-8*			14-4	Cu/Al	
ightening Torque (Recommended)	Lb-in.		:	25			4	10	
nsulation System	°C				130 (Cla	ass B)			
ermissable Ambient Temperature	°C				-40 to	o 65			
Altitude	m				200	00			
ngress Protection	IP				20	)			
OHS COMPLIANCE			For RoHS co	mpliance doc	umentation by	product, refe	er to www.c3	controls.com	

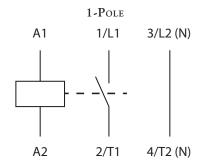
Maximum Pickup Voltage V 18 88 177 220   Orop-Out Voltage Range V 6~15 20~70 40~140 65~185   VOMINAL INRUSH VA @ 50Hz 65 65 65 65 65   VA @ 60Hz 60 60 60 60 60   VA @ 50Hz 7.5 7.5 7.5 7.5 7.5   VA @ 60Hz 6 6 6 6 6 6   Vominal Resistance 0hms 7 180 720 900   Maximum Coil Voltage V 30 132 264 300   DITHER CHARACTERISTICS 20-30 FLA 40 FLA   Line & Load Terminals #10-32 Screw Box Lug   Wire Size (MinMax.) AWG 16-8* 14-4 Cu/Al   Insulation System °C 130 (Class B)   Permissable Ambient Temperature °C -40 to 65   Altitude m	COIL CHARACTERISTICS							
Maximum Pickup Voltage V 18 88 177 220   Drop-Out Voltage Range V 6~15 20~70 40~140 65~185   NOMINAL INRUSH VA @ 50Hz 65 65 65 65 65   VA @ 60Hz 60 60 60 60   NOMINAL SEALED VA @ 50Hz 7.5 7.5 7.5 7.5   VA @ 60Hz 6 6 6 6 6   Nominal Resistance 0hms 7 180 720 900   Maximum Coil Voltage V 30 132 264 300   OTHER CHARACTERISTICS 20-30 FLA 40 FLA   Line & Load Terminals #10-32 Screw Box Lug   Wire Size (MinMax.) AWG 16-8* 14-4 Cu/Al   Insulation System °C 130 (Class B)   Permissable Ambient Temperature °C -40 to 65   Altitude m 2000   Ingress Prote		UNITS						
Drop-Out Voltage Range	Nominal Coil Voltage	V	24	120	208/240	277		
NOMINAL INRUSH VA @ 50Hz 65 65 65 65 65 65 7.5 60 60 60 60 60 60 60 80<	Maximum Pickup Voltage	V	18	88	177	220		
VA @ 50Hz 65 65 65 65   VA @ 60Hz 60 60 60 60   NOMINAL SEALED VA @ 50Hz 7.5 7.5 7.5 7.5 7.5   VA @ 60Hz 6 6 6 6 6   Nominal Resistance 0hms 7 180 720 900   Maximum Coil Voltage V 30 132 264 300   OTHER CHARACTERISTICS 20-30 FLA 40 FLA   Line & Load Terminals #10-32 Screw Box Lug   Wire Size (MinMax.) AWG 16-8* 14-4 Cu/AI   Tightening Torque (Recommended) Lb-in. 25 40   Insulation System °C 130 (Class B)   Permissable Ambient Temperature °C -40 to 65   Altitude m 2000   Ingress Protection IP 20	Drop-Out Voltage Range	V	6~15	20~70	40~140	65~185		
VA @ 60Hz 60 60 60   NOMINAL SEALED 7.5 6 8 9 900 900 900 900 900 900 900 <th< td=""><td>NOMINAL INRUSH</td><td></td><td></td><td></td><td></td><td></td></th<>	NOMINAL INRUSH							
NOMINAL SEALED VA @ 50Hz 7.5 6 8 9 900 <	VA @ 50Hz		65	65	65	65		
VA @ 50Hz 7.5 7.5 7.5 7.5   VA @ 60Hz 6 6 6 6 6   Nominal Resistance 0hms 7 180 720 900   Maximum Coil Voltage V 30 132 264 300   OTHER CHARACTERISTICS 20-30 FLA 40 FLA   Line & Load Terminals #10-32 Screw Box Lug   Wire Size (MinMax.) AWG 16-8* 14-4 Cu/Al   Tightening Torque (Recommended) Lb-in. 25 40   Insulation System °C 130 (Class B)   Permissable Ambient Temperature °C -40 to 65   Altitude m 2000   Ingress Protection IP 20	VA @ 60Hz		60	60	60	60		
VA @ 60Hz 6 6 6 6 6   Nominal Resistance 0hms 7 180 720 900   Maximum Coil Voltage V 30 132 264 300   OTHER CHARACTERISTICS 20-30 FLA 40 FLA   Line & Load Terminals #10-32 Screw Box Lug   Wire Size (MinMax.) AWG 16-8* 14-4 Cu/Al   Tightening Torque (Recommended) Lb-in. 25 40   Insulation System °C 130 (Class B)   Permissable Ambient Temperature °C -40 to 65   Altitude m 2000   Ingress Protection IP 20	NOMINAL SEALED					<u> </u>		
Nominal Resistance Ohms 7 180 720 900   Maximum Coil Voltage V 30 132 264 300   OTHER CHARACTERISTICS 20-30 FLA 40 FLA   Line & Load Terminals #10-32 Screw Box Lug   Wire Size (MinMax.) AWG 16-8* 14-4 Cu/Al   Tightening Torque (Recommended) Lb-in. 25 40   Insulation System °C 130 (Class B)   Permissable Ambient Temperature °C -40 to 65   Altitude m 2000   Ingress Protection IP 20	VA @ 50Hz		7.5	7.5	7.5	7.5		
Maximum Coil Voltage V 30 132 264 300   OTHER CHARACTERISTICS 20-30 FLA 40 FLA   Line & Load Terminals #10-32 Screw Box Lug   Wire Size (MinMax.) AWG 16-8* 14-4 Cu/Al   Tightening Torque (Recommended) Lb-in. 25 40   Insulation System °C 130 (Class B)   Permissable Ambient Temperature °C -40 to 65   Altitude m 2000   Ingress Protection IP 20	VA @ 60Hz		6	6	6	6		
OTHER CHARACTERISTICS 20-30 FLA 40 FLA   Line & Load Terminals #10-32 Screw Box Lug   Wire Size (MinMax.) AWG 16-8* 14-4 Cu/Al   Tightening Torque (Recommended) Lb-in. 25 40   Insulation System °C 130 (Class B)   Permissable Ambient Temperature °C -40 to 65   Altitude m 2000   Ingress Protection IP 20	Nominal Resistance	Ohms	7	180	720	900		
Line & Load Terminals #10-32 Screw Box Lug   Wire Size (MinMax.) AWG 16-8* 14-4 Cu/Al   Tightening Torque (Recommended) Lb-in. 25 40   Insulation System °C 130 (Class B)   Permissable Ambient Temperature °C -40 to 65   Altitude m 2000   Ingress Protection IP 20	Maximum Coil Voltage	V	30	132	264	300		
Wire Size (MinMax.) AWG 16-8* 14-4 Cu/Al   Tightening Torque (Recommended) Lb-in. 25 40   Insulation System °C 130 (Class B)   Permissable Ambient Temperature °C -40 to 65   Altitude m 2000   Ingress Protection IP 20	OTHER CHARACTERISTICS		20-3	O FLA	40	FLA		
Tightening Torque (Recommended) Lb-in. 25 40   Insulation System °C 130 (Class B)   Permissable Ambient Temperature °C -40 to 65   Altitude m 2000   Ingress Protection IP 20	Line & Load Terminals		#10-32	Screw	Box	Lug		
Insulation System °C 130 (Class B)   Permissable Ambient Temperature °C -40 to 65   Altitude m 2000   Ingress Protection IP 20	Wire Size (MinMax.)	AWG	16	16-8* 14-4 Cu/Al				
Permissable Ambient Temperature °C -40 to 65   Altitude m 2000   Ingress Protection IP 20			2					
Altitude m 2000   Ingress Protection IP 20	Insulation System			130 (	Class B)			
Ingress Protection IP 20	Permissable Ambient Temperature	°C		-40	to 65			
	Altitude	m		2	000			
ROHS COMPLIANCE For RoHS compliance documentation by product, refer to www.c3controls.com	Ingress Protection	IP						
	ROHS COMPLIANCE		For RoHS compliance documentation by product, refer to www.c3controls.com					

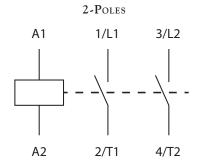
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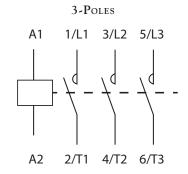
COIL CHARACTERISTICS							
	UNITS						
Nominal Coil Voltage	V	24	120	208/240	277		
Maximum Pickup Voltage	V	18	93	177	235		
Drop-Out Voltage Range	V	6~15	20~70	40~135	50~180		
NOMINAL INRUSH							
VA @ 50Hz		140	140	140	140		
VA @ 60Hz		132	132	132	132		
NOMINAL SEALED							
VA @ 50Hz		20	20	20	20		
VA @ 60Hz		14	14	14	14		
Nominal Resistance	Ohms	2.3	53	180	280		
Maximum Coil Voltage	V	30	132	264	300		
OTHER CHARACTERISTICS			50 FLA	& 60 FLA			
Line & Load Terminals			Box	c Lug			
Wire Size (MinMax.)	AWG		14-2	Cu/Al			
Tightening Torque (Recommended)	Lb-in.		!	50			
Insulation System	°C		130 (0	lass B)			
Permissable Ambient Temperature	°C		-40	to 65			
Altitude	m		2000				
Ingress Protection	IP	20					
ROHS COMPLIANCE		For RoHS compliance documentation by product, refer to www.c3controls.com					

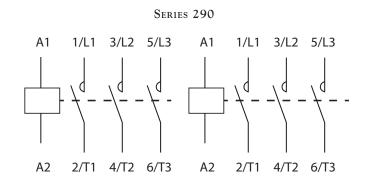
OIL CHARACTERISTICS						
DOIL OHAMOTIMOTIO	UNITS					
Nominal Coil Voltage	V	24	120	208/240	277	
Maximum Pickup Voltage	V	18	88	177	220	
Drop-Out Voltage Range	V	6~15	20~70	40~110	65~185	
NOMINAL INRUSH						
VA @ 50Hz		285	285	285	285	
VA @ 60Hz		240	240	240	240	
NOMINAL SEALED						
VA @ 50Hz		42	42	42	42	
VA @ 60Hz		27	27	27	27	
Nominal Resistance	Ohms	0.85	15.6	63.5	85	
Maximum Coil Voltage	V	30	132	264	300	
OTHER CHARACTERISTICS			75 FLA 8	90 FLA		
Line & Load Terminals			Box	Lug		
Wire Size (MinMax.)	AWG		14-1 (	Cu/Al		
Tightening Torque (Recommended)	Lb-in.		50	)		
Insulation System	°C		130 (CI	ass B)		
Permissable Ambient Temperature	°C		-40 t	o 65		
Altitude	m		200	00		
Ingress Protection	IP	20				
ROHS COMPLIANCE		For RoHS compliance documentation by product, refer to www.c3controls.com				

# CIRCUIT DIAGRAMS







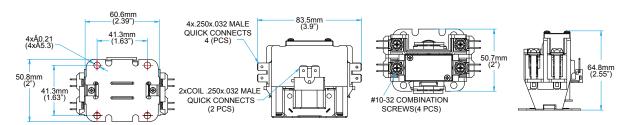


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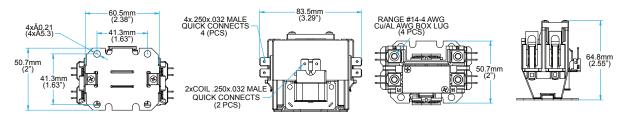


# 1 POLE NON-REVERSING DEFINITE PURPOSE CONTACTORS

# 280-D20N1N, 280-D25N1N & 280-D30N1N (20A - 30A)



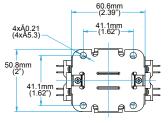
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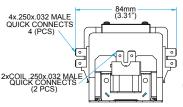


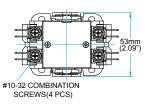


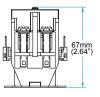
# 2 POLE NON-REVERSING DEFINITE PURPOSE CONTACTORS

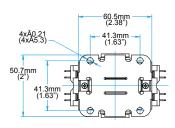
# 280-D20N2, 280-D25N2 & 280-D30N2 (20A - 30A)

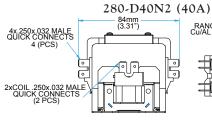


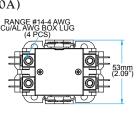


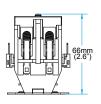


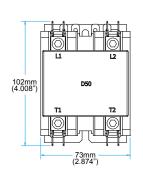


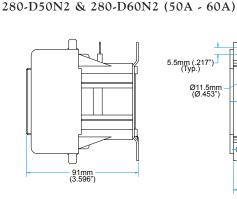


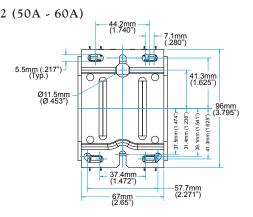




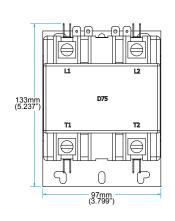


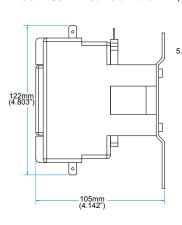


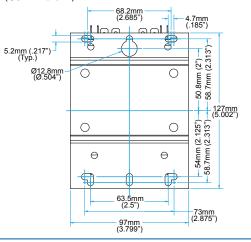




### 280-D75N2 & 280-D90N2 (75A - 90A)





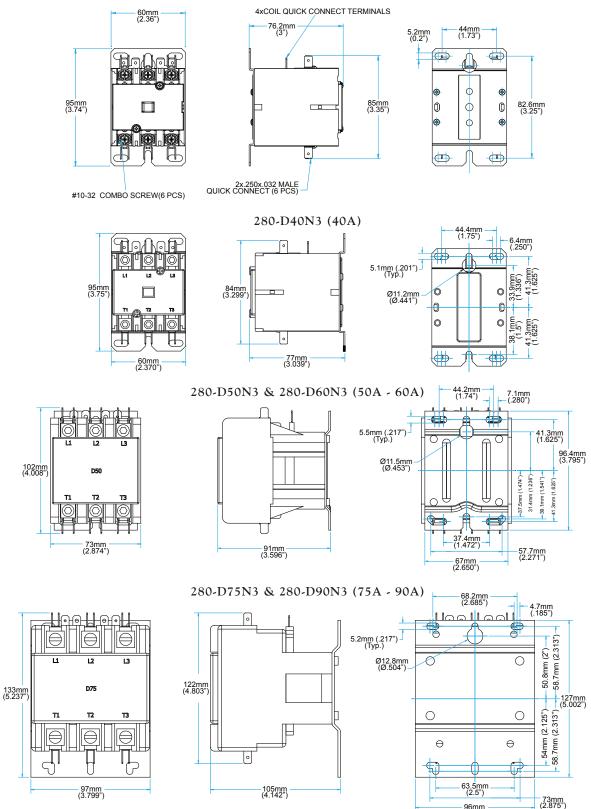


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# 3 POLE NON-REVERSING DEFINITE PURPOSE CONTACTORS

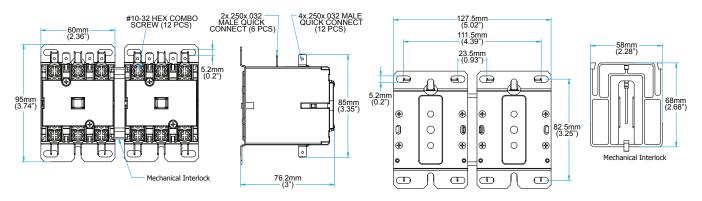
# 280-D20N3, 280-D25N3 & 280-D30N3 (20A - 30A)



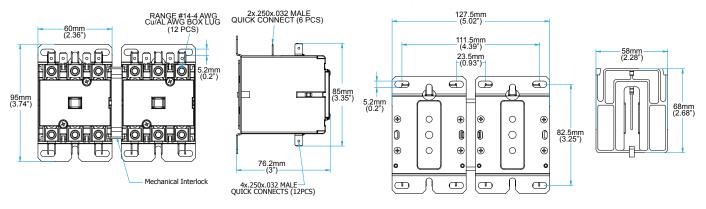


# 3 POLE REVERSING DEFINITE PURPOSE CONTACTORS

### 290-D20N33, 290-D25N33 & 290-D30N33 (20A - 30A)



# 290-D40N33 (40A)



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