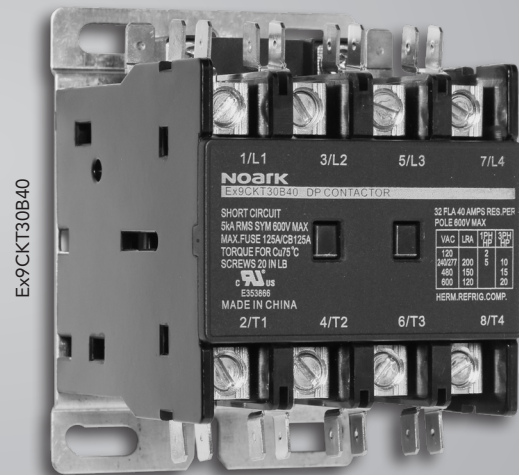
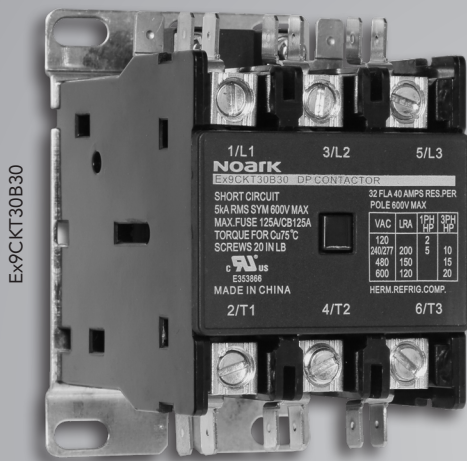


Data Sheet

Definite Purpose Contactors

Ex9CKT Series



Definite Purpose Contactors

NOARK Ex9CKT Series

Features

Ex9CKT Series DP Contactors provide high performance with both flexibility and reliability. They are designed to match numerous applications including:

- Air conditioning
- Resistive heating
- Refrigeration equipment
- Motors
- Welding
- Pumps
- Power supplies
- Food service equipment
- Compressors
- Business machines
- Lighting (25-50A)

Available as:

- 20~40A, 1 to 4 pole available now
- Enclosed coil standard for all 1 to 4 pole frame sizes
- Industry standard mounting plate provides easily accessible mounting holes
- Connection terminal options, including screw or lug connections each with quick connect spades
- Coil is Class B 266°F (130°C) insulation system with a wide range of voltages and 50/60 Hz ratings
- Double E magnet assembly provides optimal performance with reduced power consumption
- Base assembly is made from high arc-resistant polyester
- 100,000 to 250,000 cycles by UL 508/UL60947-4-1 for air resistance heating application

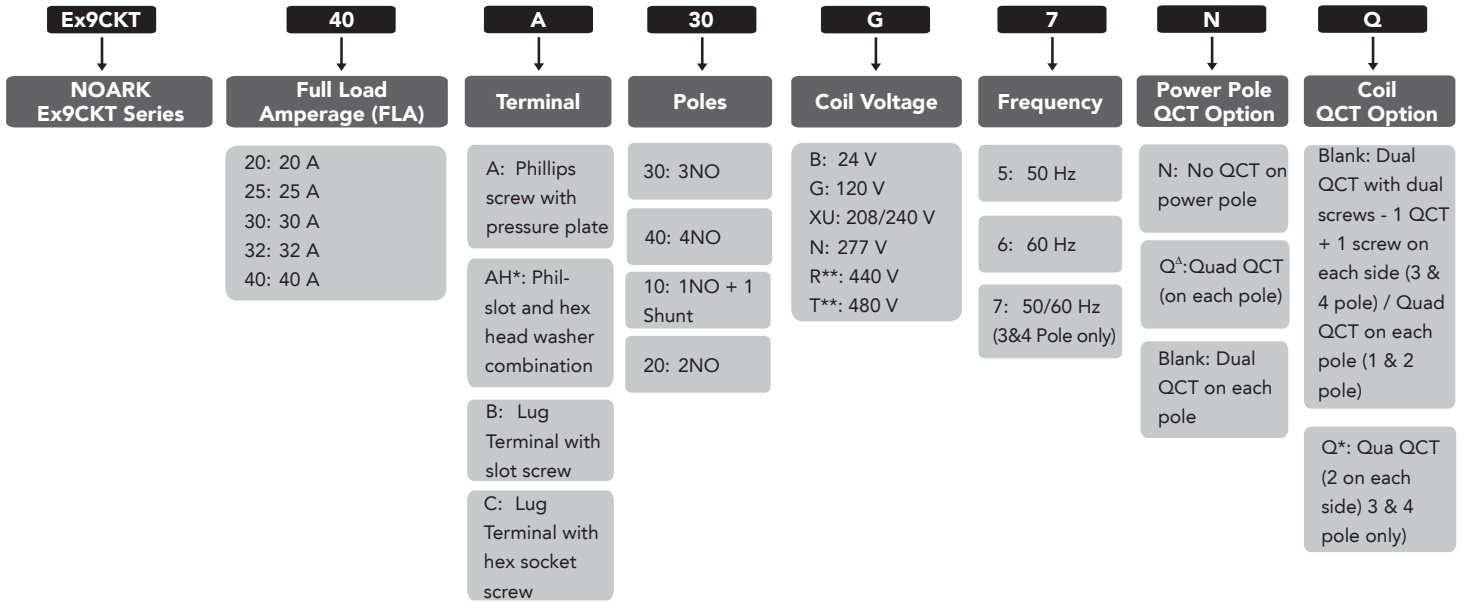
Certifications



- UL 60947-1; UL 60947-4-1; UL 508; UL E353866
- CSA Certified, C22.2 No. 265900
- IEC/EN 60947 Compliant
- CE Approved
- Compliant to ARI-780 HVAC standards
- RoHS Compliant

Definite Purpose Contactors Ex9CKT Product Selection Guide

Product Selection Guide



** (3 Poles & 4 Poles Only)

Δ 1 & 2 Pole only

* Contact NOARK Sales for more information.

Definite Purpose Contactors Packaging

Packaging

Full Load Amperage (A)	Poles	MOQ	Quantity (pc/carton)	Carton Weight lbs (kgs)		Piece Weight lbs (kgs)		Carton Dimensions in (mm)
				Gross	Net	Gross	Net	
20	1	64	64	45.03 (20.42)	40.96 (18.60)	0.7 (0.32)	0.64(0.29)	15.67x9.53x12.64 (398x242x321)
25	1	64	64	45.03 (20.42)	40.96 (18.60)	0.7 (0.32)	0.64(0.29)	15.67x9.53x12.64 (398x242x321)
30	1	64	64	45.03 (20.42)	40.96 (18.60)	0.7 (0.32)	0.64(0.29)	15.67x9.53x12.64 (398x242x321)
32	1	64	64	45.03 (20.42)	40.96 (18.60)	0.7 (0.32)	0.64(0.29)	15.67x9.53x12.64 (398x242x321)
40	1	64	64	45.03 (20.42)	40.96 (18.60)	0.7 (0.32)	0.64(0.29)	15.67x9.53x12.64 (398x242x321)
20	2	64	64	53.62 (24.32)	48.00 (21.77)	0.84(0.38)	0.75(0.34)	15.67x9.53x12.64 (398x242x321)
25	2	64	64	53.62 (24.32)	48.00 (21.77)	0.84(0.38)	0.75(0.34)	15.67x9.53x12.64 (398x242x321)
30	2	64	64	53.62 (24.32)	48.00 (21.77)	0.84(0.38)	0.75(0.34)	15.67x9.53x12.64 (398x242x321)
32	2	64	64	53.62 (24.32)	48.00 (21.77)	0.84(0.38)	0.75(0.34)	15.67x9.53x12.64 (398x242x321)
40	2	64	64	53.62 (24.32)	48.00 (21.77)	0.84(0.38)	0.75(0.34)	15.67x9.53x12.64 (398x242x321)
20	3	54	54	56.48(25.62)	52.14(23.65)	1.04(0.47)	0.97(0.44)	18.66x12.68x10.75 (474x322x273)
25	3	54	54	56.48(25.62)	52.14(23.65)	1.04(0.47)	0.97(0.44)	18.66x12.68x10.75 (474x322x273)
30	3	54	54	56.48(25.62)	52.14(23.65)	1.04(0.47)	0.97(0.44)	18.66x12.68x10.75 (474x322x273)
32	3	54	54	56.48(25.62)	52.14(23.65)	1.04(0.47)	0.97(0.44)	18.66x12.68x10.75 (474x322x273)
40	3	54	54	56.48(25.62)	52.14(23.65)	1.04(0.47)	0.97(0.44)	18.66x12.68x10.75 (474x322x273)
20	4	24	24	32.83(14.89)	30.42(13.8)	1.37(0.62)	1.27(0.58)	1.39x0.83x0.68 (424x254x206)
25	4	24	24	32.83(14.89)	30.42(13.8)	1.37(0.62)	1.27(0.58)	1.39x0.83x0.68 (424x254x206)
30	4	24	24	32.83(14.89)	30.42(13.8)	1.37(0.62)	1.27(0.58)	1.39x0.83x0.68 (424x254x206)
32	4	24	24	32.83(14.89)	30.42(13.8)	1.37(0.62)	1.27(0.58)	1.39x0.83x0.68 (424x254x206)
40	4	24	24	32.83(14.89)	30.42(13.8)	1.37(0.62)	1.27(0.58)	1.39x0.83x0.68 (424x254x206)

Definite Purpose Contactors Ex9CKT Specifications 20~40 A

20~40 FLA

Description	Poles	Full Load Amperage (A)			Resistive @ 600 Vac (A)	Locked Rotor (A)			Horsepower (hp)		
		240/277 V	480 V	600 V		240/277 V	480 V	600 V	Voltage (V)	1-Phase	3-Phase
Ex9CKT20	1&2		25		35	150	125	100	120	1	-
									240	2	-
									120	2	-
									240	3	-
Ex9CKT25	1&2		25		35	150	125	100	120	1	-
									240	2	-
									120	2	-
									240	3	-
Ex9CKT30	1&2		32		40	200	150	120	120	1	-
									240	2	-
									120	2	-
									240	3	-
Ex9CKT32	1&2		32		40	200	150	120	120	1	-
									240	2	-
									120	2	-
									240	3	-
Ex9CKT40	1&2		40		50	240	200	160	120	2	-
									240	3	-
									120	2	-
									240	3	-
Ex9CKT20	3 & 4		25		35	150	125	100	120	2	-
									240/277	5	10
									480	-	15
									600	-	20
Ex9CKT25	3 & 4		25		35	150	125	100	120	2	-
									240/277	5	10
									480	-	15
									600	-	20
Ex9CKT30	3 & 4		32		40	200	150	120	120	2	-
									240/277	5	10
									480	-	15
									600	-	20
Ex9CKT32	3 & 4		32		40	200	150	120	120	2	-
									240/277	5	10
									480	-	15
									600	-	20
Ex9CKT40	3 & 4		40		50	240	200	160	120	3	-
									240/277	7.5	10
									480	-	20
									600	-	25

Mechanical & Electrical Life

Mechanical	1,000,000 cycles
Electrical	250,000 cycle (AC Resistance Air Heating Load)

Definite Purpose Contactors Ex9CKT Specifications 20~40 A

20~40 FLA Coil

1 Pole Contactors (20-40A)

	Coil Data			
	24V	120V	208-240V	277V
Nominal Coil Resistance 50Hz	18	470	1358	2860
Nominal Coil Resistance 60Hz	15	315	1188	1875
Nominal Coil Voltage (Vac)	24	120	208-240	277
Pick-up Voltage (Max.)	20.4	102	177	236
Drop-out Voltage (Min)	4.8	24	48	56
Nominal Inrush (VA)				
50Hz	25	25	25	25
60Hz	27	27	27	27
Nominal Seal (VA)				
50Hz	7.5	7.5	7.5	7.5
60Hz	9	9	9	9

2 Pole Contactors (20-40A)

	Coil Data			
	24V	120V	208-240V	277V
Nominal Coil Resistance 50Hz	10	250	880	1478
Nominal Coil Resistance 60Hz	9	198	715	1075
Nominal Coil Voltage (Vac)	24V	120V	208-240V	277V
Pick-up Voltage (Max.)	20.4	102	177	236
Drop-out Voltage (Min)	4.8	24	48	56
Nominal Inrush (VA)				
50Hz	39	39	39	39
60Hz	44	44	44	44
Nominal Seal (VA)				
50Hz	9.5	9.5	9.5	9.5
60Hz	11	11	11	11

Definite Purpose Contactors Ex9CK Specifications 20~40 A

20~40 FLA Coil

3 Pole Contactors (20-40A)

Nominal Coil Resistance (Ω)	8.5	178	715	1180	3370
Nominal Coil Voltage (Vac)	24	120	208 - 240	277	480
Pick-up Voltage (Max.)	18	80	158	200	345
Drop-out Voltage (Min)	6-15	20-70	40-140	50-165	120-285
Nominal Inrush (VA)					
50Hz	60	60	60	60	60
60Hz	50	50	50	50	50
Nominal Seal (VA)					
50Hz	8	8	8	8	8
60Hz	6.5	6.5	6.5	6.5	6.5

4 Pole Contactors (20-40A)

	Coil Data				
	24V	120V	208-240V	277V	480V
Nominal Coil Resistance (Ω)	6	152.5	527	790	2530
Nominal Coil Voltage (Vac)	24	120	208 - 240	277	480
Pick-up Voltage (Max.)	16	88	157	200	320
Drop-out Voltage (Min)	6-15	20-70	40-140	65-185	110-280
Nominal Inrush (VA)					
50Hz	70	70	70	70	70
60Hz	62	62	62	62	62
Nominal Seal (VA)					
50Hz	8	8	8	8	8
60Hz	6.5	6.5	6.5	6.5	6.5

Definite Purpose Contactors Ex9CKT Specifications 20~40 A

20~40 FLA Terminal

1 and 2 Pole

			20	25	30	32	40	
Line and Load Terminals			#10-32 Screw Box Lug					
Copper Cable AWG (mm ²)	Ridge Wire with Single Core	Screw	14~10 (2.5~6)		12~8 (6~10)		10~8 (4~10)	
		Lug	14~10 (2.5~6)		12~8 (6~10)		10~8 (4~10)	
	Flexible Stranded Wire	Screw	14~12 (2.5~4)		14~10 (2.5~6)		14~10 (2.5~6)	
		Lug	14~12 (2.5~4)		14~10 (2.5~6)		14~10 (2.5~6)	
Tightening			-					
Torque in-lb (N.m)	Main	Screw	20 (2.3)					
		Circuit Lug	20 (2.3)					
Quick Connects	Coil Terminals		Dual 0.250 QC (2)					
	Power Terminals 0.250 Standard		Dual 0.25 QC (2 or 4)					
Insulation System			Class B 266 °F (130 °C)					

3 and 4 Pole

			20	25	30	32	40			
Line and Load Terminals			#10-32 Screw Box Lug							
Copper Cable AWG (mm ²)	Ridge Wire with Single Core	Screw	14~10 (2.5~6)		12~8 (4~10)	¹⁶⁻⁸ (1.5-10)	2~8 (4~10)	¹⁶⁻⁸ (1.5-10)	2~8 (4~10)	¹⁶⁻⁸ (1.5-10)
		Lug			14~8 (2.5~10)					
	Flexible Stranded Wire	Screw			14~12 (2.5~6)					
		Lug			14~8 (2.5~10)					
Tightening			-							
Torque in-lb (N.m)	Main	Screw	20 (1.8~2)							
		Circuit Lug	40 (4~6)							
Quick Connects	Coil Terminals		Dual 0.250 QC (2)							
	Power Terminals 0.250 Standard		3/4P Dual							
Insulation System			Class B 266 °F (130 °C)							

Definite Purpose Contactors Ex9CKT Specifications 20~40 A

SCCR Ratings

SCCR: 100kA@480Vac with MCCB; @600Vac max. with Fuse

	Ex9CKT 20 & 25A 1, 2, 3 & 4P	Ex9CKT 30A 1, 2, 3 & 4P	Ex9CKT 40A 1, 2, 3 & 4P
CB Rated Current A	M1N 50A	M1N 50A	M1N 70A
Fuse Rated Current A	80	80	100

1. CB: must be NOARK UL MCCB M1N
2. Fuse type: Class J or Class L (Class L fuse required for applications with 100A or greater)

Lighting Data

25-40A; 1P/2P

Inductive Rating (DP Contactor FLA)	Tungsten & Ballast Rating
25A	30A
30A	40A
40A	40A (Ballast) 50A (Tungsten)

25-40A; 3P/4P

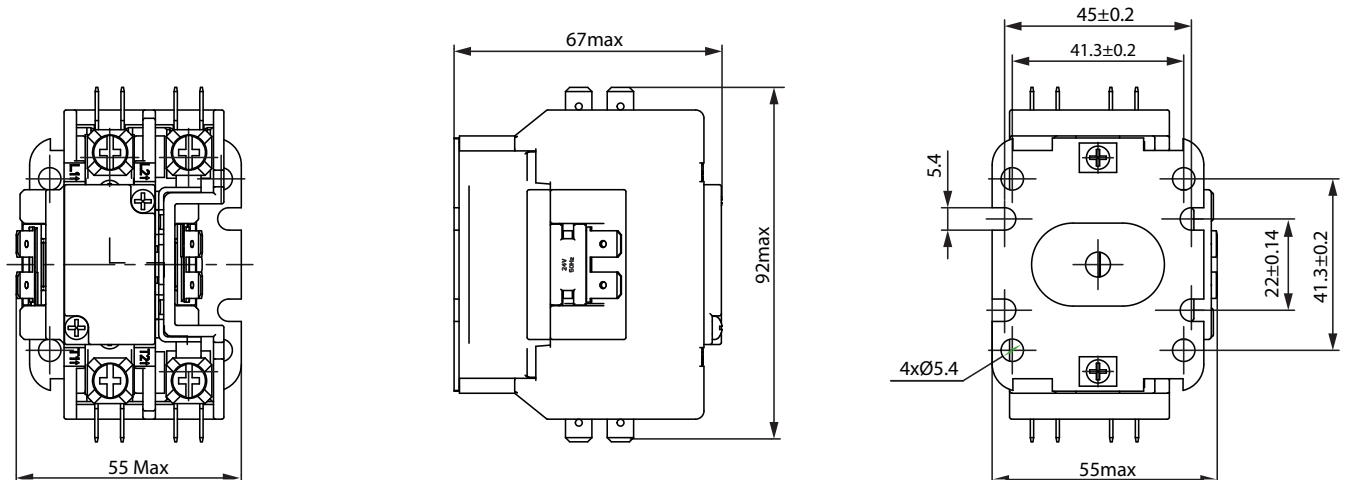
Inductive Rating (DP Contactor FLA)	Tungsten & Ballast Rating
25A	30A
30A	40A
40A	50A

Definite Purpose Contactors Ex9CKT Dimensions 20~40 A

Ex9CKT20~40 Screw

1 Pole

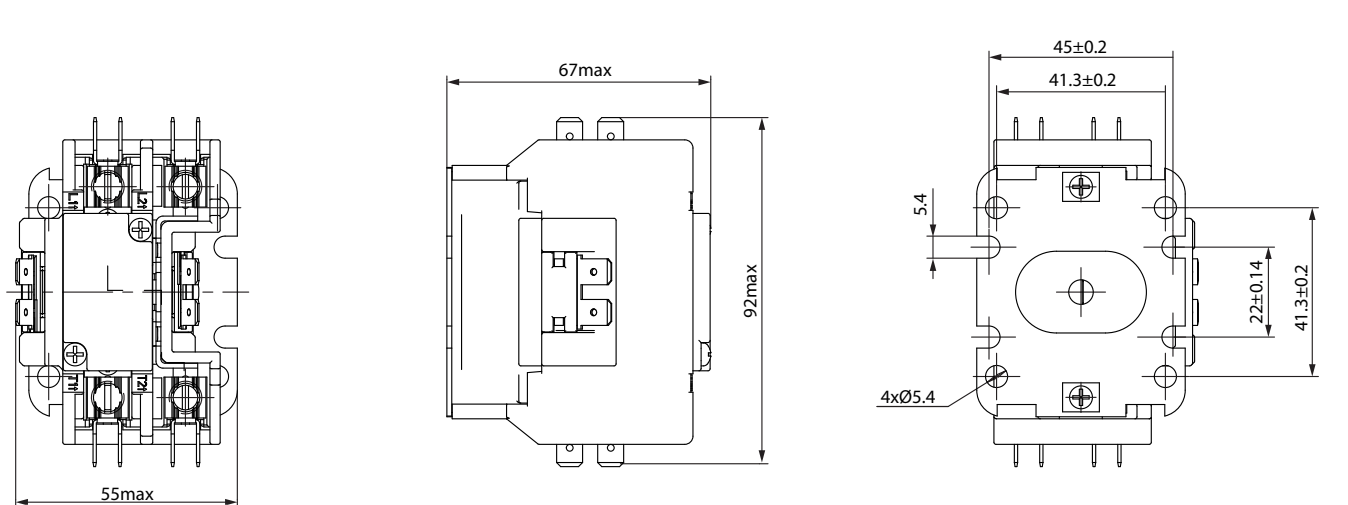
Unit: in. [mm]



Ex9CKT20~40 Lug

1 Pole

Unit: in. [mm]



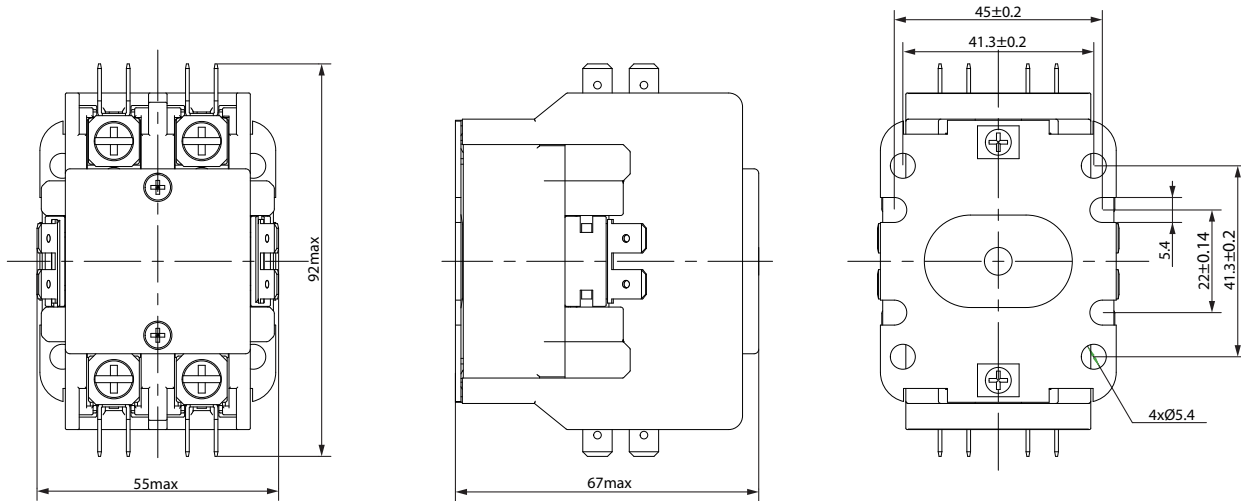
Definite Purpose Contactors

Ex9CKT Dimensions 20~40 A

Ex9CKT20~40 Screw

2 Pole

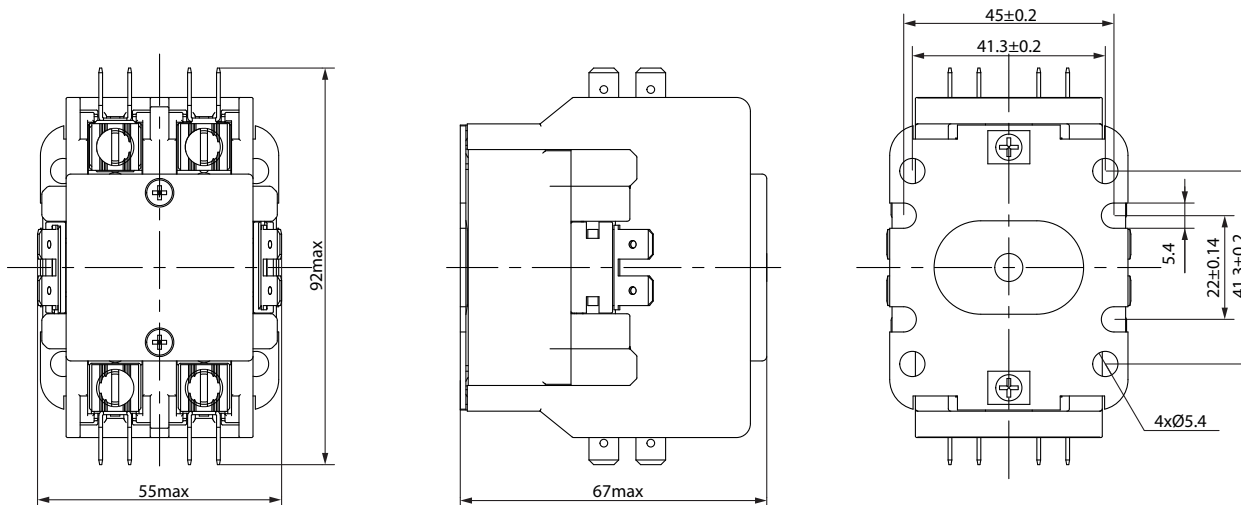
Unit: in. [mm]



Ex9CKT20~40 Lug

2 Pole

Unit: in. [mm]

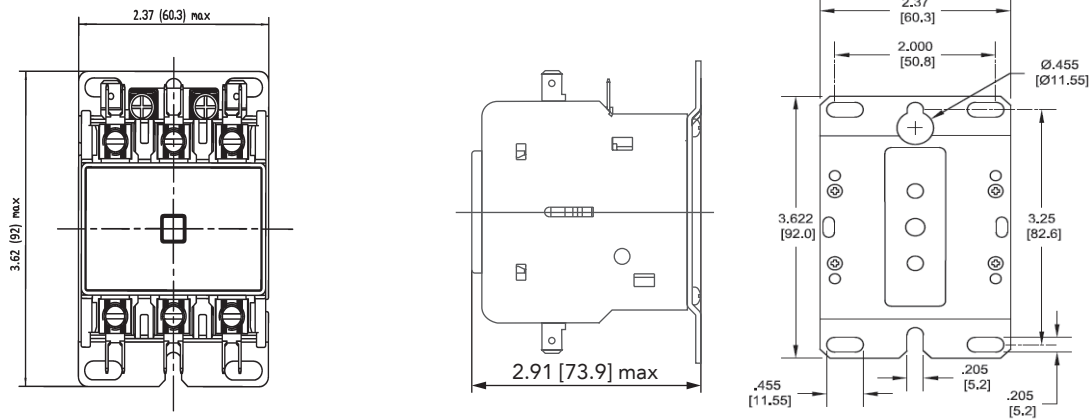


Definite Purpose Contactors Ex9CKT Dimensions 20~40 A

Ex9CKT20~40

3 Pole

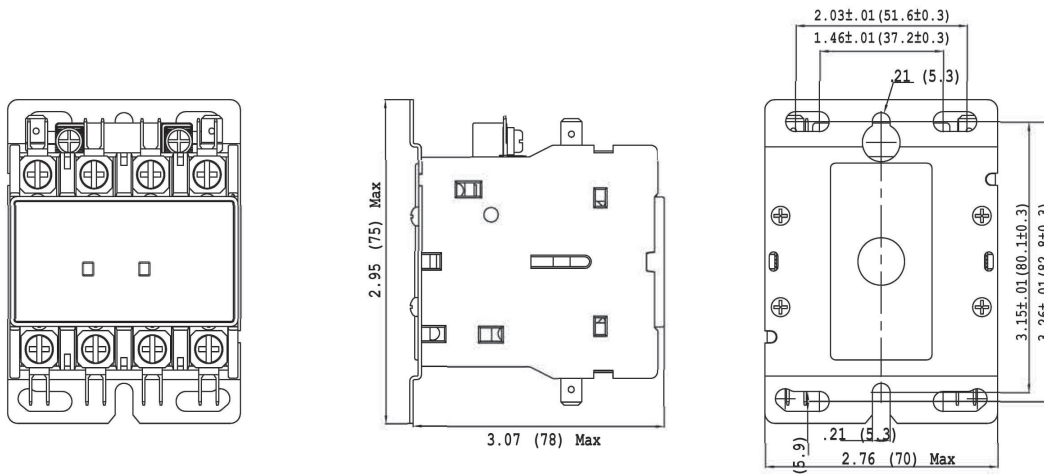
Unit: in. [mm]



Ex9CKT20~40

4 Pole

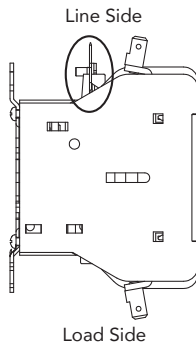
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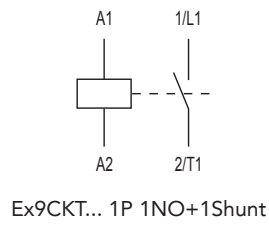
Definite Purpose Contactors

Ex9CKT Wiring Diagram 20~40 A

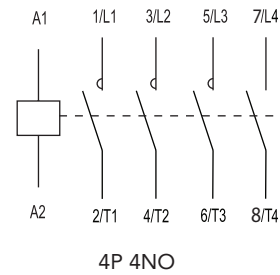
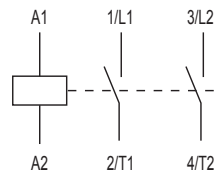
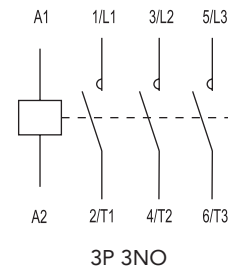
Ex9CKT20~40



Ex9CKT20~40



Ex9CKT20~40



NOTE: Ex9CKT shares accessories with the Ex9CK.

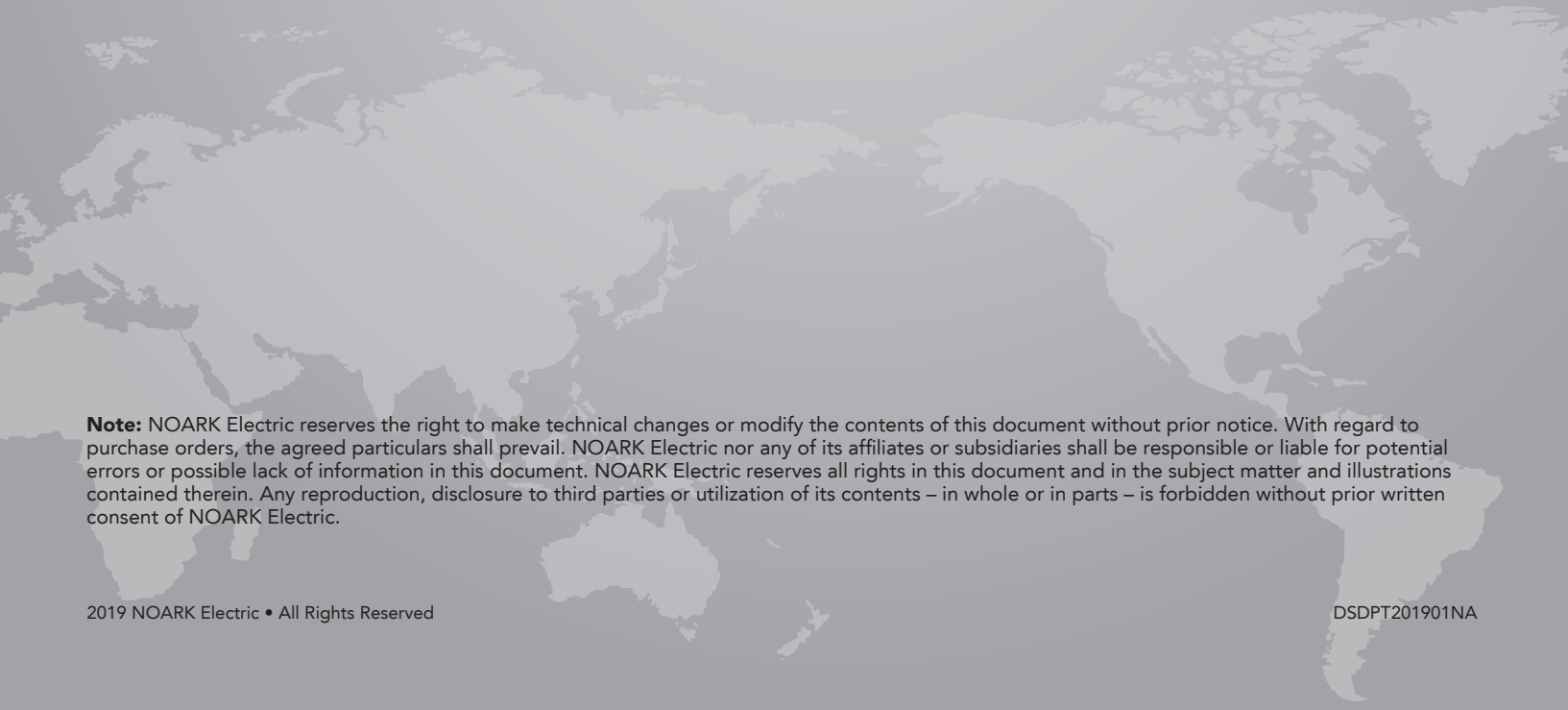
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