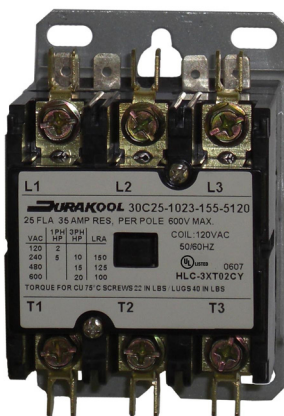


30C25

definite purpose contactor

DURAKOOL



- 30C 25FLA Definite Purpose Contactor
- Robust 1 - 4 Pole Contactor
- Arc Covers as standard
- Industry Standard Mounting
- RoHS Compliant
- UL File No: E61703



Contact Data

Table 1

Arrangements: 1 Form X (SPST-NO-DM) with or without shunt
 2 Form X (DPST-NO-DM)
 3 Form X (3PST-NO-DM)
 4 Form X (4PST-NO-DM)

Material: AgCdO, AgSnOInO

Model No	Full Load Amps (FLA)	Poles	Line Voltage (VAC)	Locked Rotor Amps (LRA)	Resistive Amps	Max. HP		
						Voltage	1 Phase	3 Phase
30C25-1021	25	1	120	150	35	120	1	
			240/277	150		240	2	
			480	125				
			600	100				
30C25-1022	25	2	120	150	35	120	1	
			240/277	150		240	2	
			480	125				
			600	100				
30C25-1023	25	3	120	150	35	110/120	2	
			240/277	150		200/240	5	7.5
			480	125		480		15
			600	100		600		20
30C25-1024	25	4	120	150	35	110/120	2	
			240/277	150		240	5	7.5
			480	125		480		15
			600	100		600		20

FLA rating tested for 30,000 cycles of endurance at 240/480/600VAC per UL508.
 Resistive Heat rating tested for 250,000 cycles at 277VAC.
 LRA rating tested for 6000 cycles of Locked Rotor endurance per UL508.

DURAKOOL

30C25

definite purpose contactor



General Specifications

Table 2

Initial Operate Time	mS	20	Terminations		
Release Time	mS	10 (typical)	Coil Terminals	1 pole 2 pole 3 pole 4 pole	0.250" QC + #6-32 screw (dual 0.250" QC optional) - per terminal
Bounce Time	mS	≤ 10	Power Terminals	1 pole 2 pole	#10-32 screw or #14-4 box lug + Dual 0.250" QC
Arc Cover		Standard		3 pole 4 pole	#10-32 screw or #14-4 box lug + Quad 0.250" QC
Insulation System		UL Class B 130°C	Recommended Tightening Torque	#10-32 box lug	22 in.lbf (2.49 Nm) 40 in.lbf (4.52 Nm)
Initial Dielectric Strength			Wire size	#10-32 box lug	16-8AWG* 14-4AWG
between contacts and coil	VAC	2200			
between poles	VAC	2200 (includes shunt)			
between open contacts	VAC	2200			
Temperature Range	°C	-40 ... +65			
Unit Weight (approx.)	1 pole	0.5 lb			
	2 pole	0.6 lb			
	3 pole	1.0 lb			
	4 pole	1.24 lb			

* Must use ring terminals

Ordering Codes

Type	Contact material	Contact arrangement	Cover protection and terminations	Coil code	Special options
3 0 C 2 5	1 0 2		1		
Contact Ratings 25 - 25 FLA					
Contact Material 10 - AgCdO (standard) 70 - AgSnInO					
Contact number & arrangement 21 - SPST-NO 22 - DPST-NO 23 - 3PST-NO 24 - 4PST-NO					
Cover protection category 1 - IP00, no overall cover					
Termination Codes (see drawings for full specifications) 1 - #10-32 combination philips screw with quad QC blades 2 - Same as 1 with sems screw and pressure plate 3 - #14-4AWG box lug with quad QC blades (box lug with quick connect) 4 - #14-4AWG box lug with dual QC blades (box lug with quick connect) (standard for 40FLA) 5 - #10-32 combination philips screw with dual QC blades (standard for 20-30FLA) 6 - #14-2AWG box lug with QC blades (standard for 50-60FLA) 7 - #14-1AWG box lug with QC blades (standard for 75-150FLA)					
Reserved for Customer Specific Requirements 001 - Dual 0.25" QC blades for coil terminations 002 - 999 - optional customer specific number					



30C25

definite purpose contactor

DURAKOOL

Coil Data (30C25-1021)

Table 3

Voltage: 24-277VAC 50/60Hz. See coil data below. (480VAC available but not UL approved)

Insulation Class: UL Class B (130°C)

Coil Voltage Code	Rated Voltage 50/60Hz	Coil Resistance (Ohms)	Coil Operating Voltage (VAC)			Minimum Inrush		Nominal Coil Power	
			Must Release	Must Operate	Max Voltage	VA @ 50Hz	VA @ 60Hz	VA @ 50Hz	VA @ 60Hz
5024	24	18	6	18	30	31	28	6	5
5120	120	420	20	88	132	31	28	6	5
5230	208/240	1800	40	177	264	31	28	6	5
5277	277	2500	50	221	300	31	28	6	5
5480	480	8000	100	380	528	31	28	6	5

Coil Data (30C25-1022)

Table 4

Voltage: 24-277VAC 50/60Hz. See coil data below. (480VAC available but not UL approved)

Insulation Class: UL Class B (130°C)

Coil Voltage Code	Rated Voltage 50/60Hz	Coil Resistance (Ohms)	Coil Operating Voltage (VAC)			Minimum Inrush		Nominal Coil Power	
			Must Release	Must Operate	Max Voltage	VA @ 50Hz	VA @ 60Hz	VA @ 50Hz	VA @ 60Hz
5024	24	11	6	18	30	33	30	8	6.5
5120	120	237	20	88	132	33	30	8	6.5
5230	208/240	1000	40	177	264	33	30	8	6.5
5277	277	1600	50	221	300	33	30	8	6.5
5480	480	4200	100	380	528	33	30	8	6.5

Coil Data (30C25-1023)

Table 5

Voltage: 24-277VAC 50/60Hz. See coil data below. (480VAC available but not UL approved)

Insulation Class: UL Class B (130°C)

Coil Voltage Code	Rated Voltage 50/60Hz	Coil Resistance (Ohms)	Coil Operating Voltage (VAC)			Minimum Inrush		Nominal Coil Power	
			Must Release	Must Operate	Max Voltage	VA @ 50Hz	VA @ 60Hz	VA @ 50Hz	VA @ 60Hz
5024	24	7	6	18	30	65	60	7.5	6
5120	120	180	20	88	132	65	60	7.5	6
5230	208/240	719	40	177	264	65	60	7.5	6
5277	277	900	65	220	300	65	60	7.5	6
5480	480	3100	150	384	520	65	60	7.5	6

Coil Data (30C25-1024)

Table 6

Voltage: 24-277VAC 50/60Hz. See coil data below. (480VAC available but not UL approved)

Insulation Class: UL Class B (130°C)

Coil Voltage Code	Rated Voltage 50/60Hz	Coil Resistance (Ohms)	Coil Operating Voltage (VAC)			Minimum Inrush		Nominal Coil Power	
			Must Release	Must Operate	Max Voltage	VA @ 50Hz	VA @ 60Hz	VA @ 50Hz	VA @ 60Hz
5024	24	6	6	18	30	62	59	9	7
5120	120	150	20	88	132	62	59	9	7
5230	208/240	600	40	177	264	62	59	9	6
5277	277	750	65	220	300	62	59	9	7
5480	480	4200	150	384	520	62	59	9	7

30C25

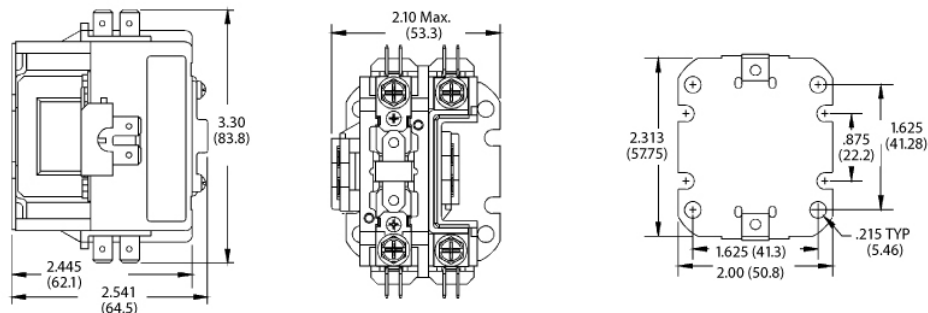
definite purpose contactor

DURAKOOL

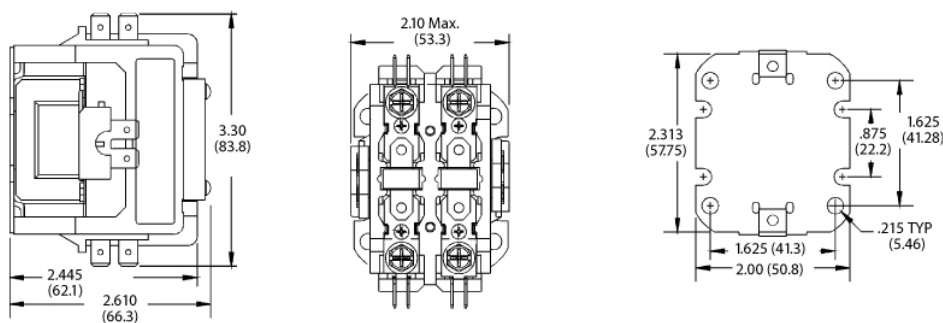
Overall Dimensions

Fig. 1

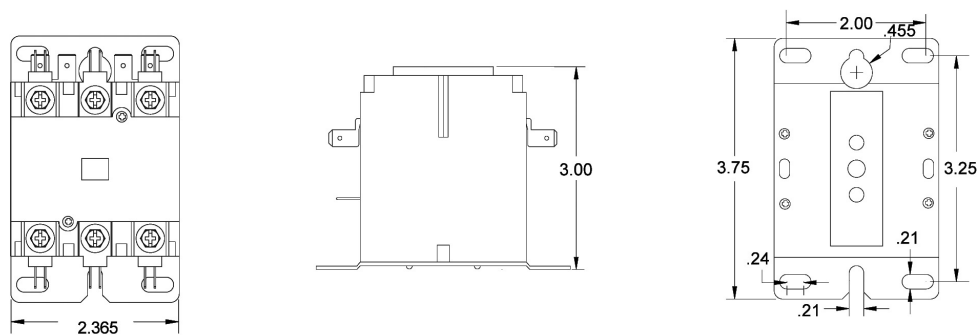
1 Pole



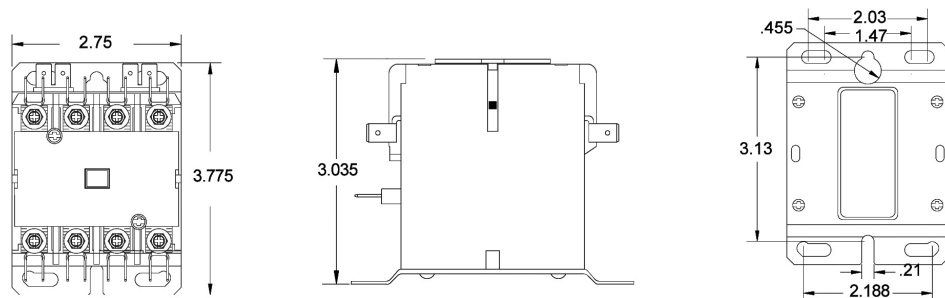
2 Pole



3 Pole



4 Pole



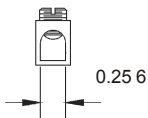
Dimensions in inches (millimetres)

DURAKOOL

30C25

definite purpose contactor

DURAKOOL

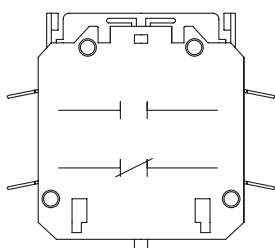
Power Terminations	
Termination Codes: 1 & 5 Standard on 20-30FLA #10-32 combination phillips/slotted and 5/16 hex head screw with #12 washer	
Termination Code: 2 Optional on 20-40FLA #10-32 sems screw with pressure plate	
Termination Codes: 3 & 4 Box Lug 14-4 AWG (Cu/Al) Dimension in inches	

Auxillary Switches for 3 & 4 pole contactors

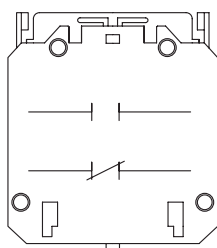
Description	Contact Arrangement	Termination	Part Number
Single unit interlock configuration. One on each side - max set up to two switches	SPST-NO + SPST-NC break before make	0.250" QC	30CA1Q
Single unit interlock configuration. One on each side - max set up to two switches	SPST-NO + SPST-NC break before make	#6-32 screw terminals	30CA1S
SPDT circuit One switch per side	SPDT	0.250" QC	30CB1Q
SPDT circuit Two switches per side	2 x SPDT	0.250" QC	30CB2S

Auxillary Switch Contact Rating						
SPST-NO+SPST-NC					SPDT	
Voltage Rating	120VAC	240VAC	480VAC	600VAC	120VAC	250VAC
Amps - Break	3.00	1.50	0.75	0.60	0.5	0.25
Amps - Make	30	15	7.5	6	15	15
Amps - continuous	10	10	10	10	10	10

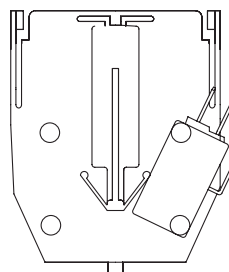
1 NO/NC
quick connects



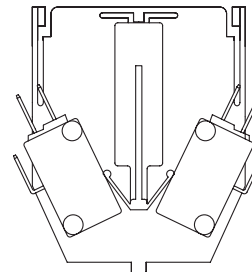
1 NO/NC
screw terminals



one SPDT
switch per side



two SPDT
switches per side



American Electronic Components Inc., 1100 Lafayette St., Elkhart, IN 46516

Toll Free: (888) 847-6552, Tel: (574) - 295-6330

www.aecensors.com

Specifications and availability are liable to change without notice.

DURAKOOL