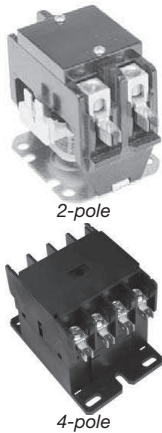


Definite Purpose Contactors

Product Overview/Catalog Number Explanation



Bulletin 400

- Available in the following ranges:
 - 1-Pole: 20/25...40 A, 600V max.
 - 2-Pole: 20/25...40 A, 600V max.
 - 3-Pole: 20/25...90 A, 600V max.
 - 4-Pole: 20/25...40 A, 600V max.

The Allen-Bradley Bulletin 400 Definite Purpose contactors are specifically designed for applications such as air-conditioning, refrigeration, resistive heating, data processing and food service equipment, pumps, and compressors.

Box lugs are standard on 40 A contactors and larger. A maximum of two auxiliary contact blocks (one on each side, four contacts max.) can be field installed.

Features Include:

- UL tested for lighting loads
- Compliant with international standards
- Standard and high fault short-circuit current rating (SCCR)

Table of Contents

Product Selection 4
 Accessories 9
 Modifications 9
 Specifications 10
 Approximate Dimensions 11

Standards Compliance

UL 508
 CSA C22.2 No. 14
 EN/IEC 60947-4-1

Certifications

UL Recognized (File No. E3125, Guide No. NLDX2)
 CSA Certified (File No. LR1234)
 CE Marked
 SEMKO Certified

Your order must include: 1.) complete cat. no. of selected contactor, and 2.) auxiliary contacts, if required.

Catalog Number Explanation

400 – **DP40** **N** **A** **3** – **K**

a *b* *c* *d* *e*

a

Current Rating	
Code	Full Load Amps [A]
DP25	20/25
DP30	30
DP40	40
DP50	50
DP60	60
DP75	75
DP90	90

b

Enclosure Code	
Code	Enclosure
N	No enclosure/No exceptions

c

Nominal Coil Voltage	
Code	50/60 Hz Frequency
J	24
D	120
A	208/240
F	277
LF	347
B	480

d

Number of Poles	
Code	Description
1	1 pole
2	2 poles
3	3 poles
4	4 poles

e

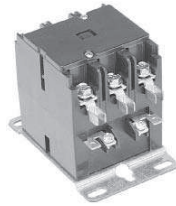
Modifications	
Code	Description
B	Box lug with DP25 or DP30 in 2 nd position
D	400-DRA factory attached to DP (20/25...40 A)
E	2 poles with 3-pole base
K	#6-32 screw coil terminal with DP25, DP30, or DP40 in 2 nd position
R	Ring terminal for DP40...DP90
S	#10-32 SEMS terminal
T	Coil terminals down
U	Coil terminals on load side (T1/2, T2/4, T3/6) without quick connect line/load terminals
X	Without quick connect terminals on line and load

e (cont'd)

Modifications	
3-Pole 20/25, 30, and 40 A only (SER A)	
Code	Description
AB1	Auxiliary contact – 1 N.O./1 N.C. with Quick Connect
A1	Auxiliary contact – SPDT with QC
A2	Auxiliary contact – 2 SPDT with QC
3-Pole 50...90 A only	
Code	Description
AB	Auxiliary contact – 1 N.O./1 N.C. with QC
A	Auxiliary contact – SPDT with QC
4-Pole 20/25, 30, and 40 A only (SER A)	
Code	Description
AB4	Auxiliary contact – 1 N.O./1 N.C. with QC
A4	Auxiliary contact – SPDT with QC
3- and 4-Pole (SER B) 20/25, 30, and 40 A only	
Code	Description
AB5	Auxiliary contact – 1 N.O./1 N.C. with QC
A5	Auxiliary contact – SPDT with QC
AA5	Auxiliary contact – 2 SPDT with QC

Bulletin 400
Definite Purpose Contactors
 Product Selection

20/25...40 FLA 3-Pole



30 FLA Contactor 3-Pole with optional Coil Terminal Screws

Full Load Amps	Number of Poles	Maximum Continuous Ampere Rating [A]		Line Voltage	Locked Rotor Amps	Resistive Amps Rating	Maximum Horsepower			Cat. No.
		Tungsten Lamp Loads*	Ballast Lighting Load†				Voltage	Single Phase	Three Phase	
20/25	3	25		240/277 480 600	150 125 100	35 35 35	110/120	2	—	400-DP25NⓂ3
							200/208	—	7.5	
							240/277	5	10	
							480	—	15	
							600	—	20	
30	3	28		240/277 480 600	180 150 120	40 40 40	110/120	2	—	400-DP30NⓂ3
							200/208	—	10	
							240/277	5	10	
							480	—	15	
							600	—	20	
40*	3	35	—	240/277 480 600	240 200 160	50 50 50	110/120	3	—	400-DP40NⓂ3
							200/208	—	10	
							240/277	7.5	10	
							480	—	20	
							600	—	25	

* To use ring terminals on 40 FLA and larger power connections add the suffix **R** to the catalog number.
 Example: **Cat. No. 400-DP40NⓂ3** becomes **Cat. No. 400-DP40NⓂ3-R**.

* Max. 480V line 277V load
 † Fluorescent

Ⓜ **Coil Voltage Code**

The cat. no. as listed is incomplete. Select a coil voltage code from the table below to complete the cat. no.
 Example: **Cat. No. 400-DP25NⓂ3** becomes **Cat. No. 400-DP25NⓂJ3**. For other voltages, consult your local Rockwell Automation sales office or Allen-Bradley distributor.

[V]	24	120	208/240	277	347	480
Code	J	D	A	F	LF	B

Coil Technical Data

Nominal Coil Voltage	24	120	208/240	277	347	480
Maximum Pickup Volts	18	88	177	220	277	384
Drop-Out Volts Range	6...15	20...70	40...140	65...185	85...225	150...270
Nominal Inrush VA	50 Hz	72	72	72	72	72
	60 Hz	64	64	64	64	64
Nominal Sealed VA	50 Hz	7.2	7.2	7.2	7.2	7.2
	60 Hz	6	6	6	6	6
Nominal DC Resistance (Ω)	5.8	147	597	837	1330	2425

Auxiliary Contacts



Description	Cat. No.
1 N.O./1 N.C. w/QCs§	400-AB1
SPDT w/QCs*	400-A1
2-SPDT w/QCs*	400-A2

§ Contact rating single-circuit N.O. or N.C.:

[V]	120	240	480	600	
Amperes	Break	3.0	1.5	0.75	0.6
	Make	30	15	7.5	6
	Continuous	10	10	10	10

* Contact rating SPDT:
 10 A, 1/3 Hp, 125 or 250V AC;
 1/2 A, 125V DC;
 1/4 A, 250V DC;
 4 A 120V AC on lamp load

Accessories

	Description	For Use With	Cat. No.
	Mechanical Interlock Kit	20/25...40 A 3-pole	400-MK1
	DIN Rail Adapter	20/25...40 A 1-...4-pole	400-DRA

Modifications

Description		Suffix Code
Box lug with DP25 or DP30 in second position		B
Molded coil (not available with 1 or 2 in fifth position)		C
Factory-installed DIN Rail adapter (20...40 A)		D
2-pole with 3-pole base		E
#6-32 screw coil terminal with DP25, DP30, or DP40 in second position (3- & 4-pole only)		K
Ring terminal for DP40...DP90		R
#10-32 SEMS terminals with DP25, DP30, or DP40 in second position		S
Coil terminals down		T
Coil terminals on load side (T1/2, T2/4, T3/6) without quick connect (QC) line/load terminals		U
Without QC terminals on line and load		X
Auxiliary contact – 1 N.O./1 N.C. with QC	*	AB1
Auxiliary contact – SPDT with QC	*	A1
Auxiliary contact – 2 SPDT with QC	*	A2
Auxiliary contact – 1 N.O./1 N.C. with QC	⊗	AB
Auxiliary contact – SPDT with QC	⊗	A

* 3-pole – 20/25, 30, and 40 A only.

⊗ 3-pole – 50...90 A only.

Bulletin 400
Definite Purpose Contactors
 Specifications

20/25...40 FLA 1- and 2-Pole

Line and Load Terminals		#10-32 screw or box lug
Wire Size Min....Max.	#10-32 screw	16...8 AWG (stranding must be split for #8 wire)
	Box Lug	14...4 AWG
Mechanical Life		1 000 000 operations
Electrical Life		250 000 operations
Recommended Tightening Torque	#10-32 screw	25 lb•in
	Box lug	40 lb•in
Quick Connects	Power terminals	Dual 0.250 QC (2)
	Coil terminals	1-Pole: Quad 0.250 QC 2-Pole: Dual or Quad 0.250 QC
Arc Cover		Optional
Insulation System		130 °C Class B
Temperature Range		-40...65 °C (-40...150 °F)
Mounting Position	Vertical	All positions
	Horizontal	Base down only
Weight	1-Pole	0.5 lb
	2-Pole	0.6 lb

50...60 FLA 3-Pole

Line and Load Terminals		Box lug
Wire Size Min....Max.	#10-32 screw	14...2 AWG
	Box Lug	14...2 AWG
Mechanical Life		500 000 operations
Electrical Life		250 000 operations
Recommended Tightening Torque		50 lb•in
Quick Connects	Power terminals	Dual 0.250 QC (2)
	Coil terminals	#6-32 screw and 0.250 QC (2)
Arc Cover		Standard
Insulation System		130 °C Class B
Temperature Range		-40...65 °C (-40...150 °F)
Mounting Position	Vertical	All positions
	Horizontal	Base down only
Weight		2 lb

20/25...40 FLA 3-Pole

Line and Load Terminals		#10-32 screw or box lug
Wire Size Min....Max.	#10-32 screw	16...8 AWG (stranding must be split for #8 wire)
	Box Lug	14...4 AWG
Mechanical Life		1 000 000 operations
Electrical Life		250 000 operations
Recommended Tightening Torque	#10-32 screw	25 lb•in
	Box lug	40 lb•in
Quick Connects	Power terminals	Dual 0.250 QC (2)
	Coil terminals	Quad 0.250 QC
Arc Cover		Standard
Insulation System		130 °C Class B
Temperature Range		-40...65 °C (-40...150 °F)
Mounting Position	Vertical	All positions
	Horizontal	Base down only
Weight		1 lb

75...90 FLA 3-Pole

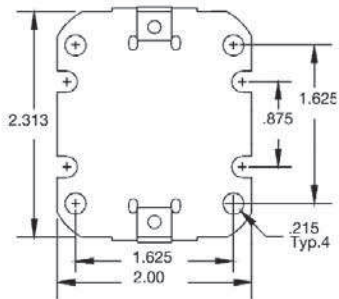
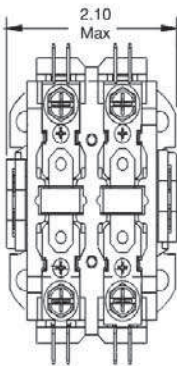
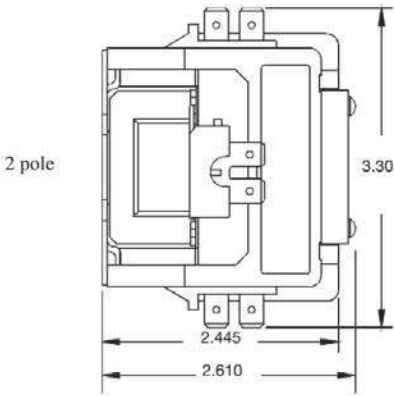
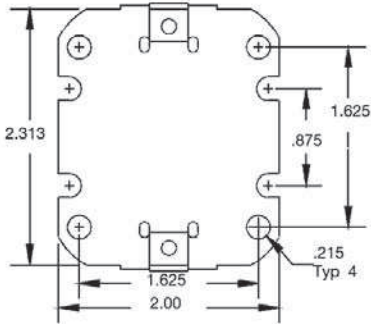
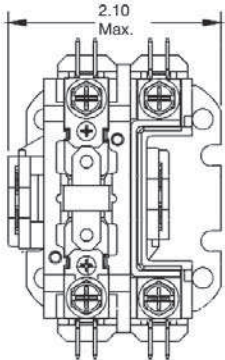
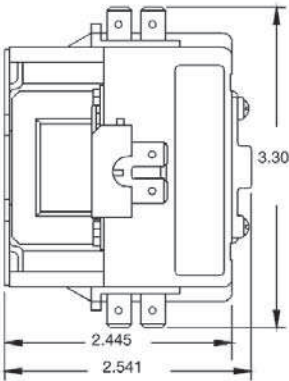
Line and Load Terminals		Box lug
Wire Size Min....Max.	#10-32 screw	14...1/0 AWG
	Box Lug	14...1/0 AWG
Mechanical Life		500 000 operations
Electrical Life		100 000 operations
Recommended Tightening Torque		50 lb•in
Quick Connects	Power terminals	Dual 0.250 QC
	Coil terminals	#6-32 screw and 0.250 QC (2)
Arc Cover		Standard
Insulation System		130 °C Class B
Temperature Range		-40...65 °C (-40...150 °F)
Mounting Position	Vertical	All Positions
	Horizontal	Base down only
Weight		4 lb

20/25...40 FLA 4-Pole

Line and Load Terminals		#10-32 screw or box lug
Wire Size Min....Max.	#10-32 screw	16...8 AWG (stranding must be split for #8 wire)
	Box lug	14...4 AWG
Mechanical Life		1 000 000 operations
Electrical Life		250 000 operations
Recommended Tightening Torque	#10-32 screw	25 lb•in
	Box lug	40 lb•in
Quick Connects	Power terminals	Dual 0.250 QC
	Coil terminals	Dual 0.250 QC (2)
Arc Cover		Standard
Insulation System		130 °C Class B
Temperature Range		-40...65 °C (-40...150 °F)
Mounting Position	Vertical	All positions
	Horizontal	Base down only
Weight		1.5 lb

Dimensions shown in inches. Dimensions are not intended to be used for manufacturing purposes.

20/25...40 FLA 1- and 2-Pole



20/25...40 FLA 3-Pole

