



A-C MOTOR CONTROL CENTERS—UNITROL®

245

OPTIONAL FEATURES

1—SINGLE PHASE TRANSFORMER—(See Note) ② ③

④ VA Rating	Price	Space Required			Space Factor	Recommended Size of Primary Circuit Breaker Trip Amps.	
	60 Cycles					220 Volts	440 Volts
	Type A, B & C	Width Inches	Height Inches	Depth Inches			
200	\$162.	20	14	10	1	15	15
300	173.	20	14	10	1	15	15
500	179.	20	14	10	1	15	15
750	185.	20	14	10	1	15	15
1000	191.	20	14	10	1	15	15
1500	201.	20	14	10	1	15	15
2000	215.	20	14	10	1	15	15
3000	234.	20	14	10	1	20	15
5000	361.	20	14	20	1	30	15
7500	408.	20	14	20	1	50	25
10000	525.	20	14	20	1	70	30
15000	674.	20	28	20	2	90	50
25000	931.	20	28	20	2	150	90

NOTE—When used as common control transformer adding Electrical Interlock on Disconnect Device is recommended.

- ② Single phase transformers—240 or 480 volts two wire primary, 115 volts two wire or 115/230 volts 3 wire secondary.
- ③ Three phase transformers—440 volts or 550 volts primary, 120/208 volts secondary.
- ④ Transformers from 2000 VA size and up to 25000 VA will be mounted in bottom unit space of sections only because of weight.
- ⑤ Lighting panelboard prices apply to types A-B-C—Price does not include wiring to terminal boards—incoming connections only included as lugs on mains.
- ⑥ Transformers requiring primary protection such as 2 pole fusible disconnect or circuit breaker—Select from 9804 or 9808.

2—THREE PHASE TRANSFORMERS ③ ③

④ VA Rating	Price	Space Required			Space Factor	Recommended Size of Primary Circuit Breaker Trip Amps.	
	60 Cycles					220 Volts	440 Volts
	Type A, B & C	Width Inches	Height Inches	Depth Inches			
6000	\$580.	20	28	20	2	20	15
9000	629.	20	28	20	2	40	20
15000	779.	20	28	20	2	50	30
20000	887.	---	---	---	3	70	40
25000	959.	---	---	---	3	100	50
30000	1053.	---	---	---	3	100	50
37500	1247.	---	---	---	3	150	70
45000	1376.	---	---	---	4	200	100
50000	1517.	---	---	---	4	225	100

3—LIGHTING PANELBOARDS—SAFETYBREAKER TYPE 115/230 V., 3 Phase 3 Wire or 3 Phase 4 Wire

No. of Single Pole Circuits	⑤ Price	Space Required			Space Factor
		Width Inches	Height Inches	Depth Inches	
6	\$143.	20	9½ or 14	10	1
12	262.	20	18½ or 14	10	1
18	298.	20	18½ or 28	10	2
24	335.	20	28	10	2
30	372.	20	28	10	2

NOTE—15 to 50 amps in single pole—15-70 amps in 2 pole. 2 Pole may be substituted for 2-single pole.

Item	Applying to Unitrol Types	Description	Price Additions				
			NEMA Size				
			1	2	3	4	5
CONTROLLER							
4	All	Start-Stop Pushbutton in door.....	\$22.	\$22.	\$22.	\$22.	\$22.
5	All	Run-Off-Automatic 3 Position Pilot Switch in Door.....	22.	22.	22.	22.	22.
6	All	Indicating Light Mounted in Door—Includes Auxiliary Contact on Contactor if Required.....	27.	27.	27.	27.	27.
7	All	Forward-Reverse-Stop Pushbuttons in Door Bul. 9824-9828.....	45.	45.	45.	45.	45.
8	All	High-Low-Stop Pushbuttons in Door Bul. 9852-9862-9857-9866.....	45.	45.	45.	45.	45.
PANEL EQUIPMENT							
9	All	Control Circuit Transformer, 60 Cy. with Fused or Unfused Secondary.....	27.	38.	56.	68.	77.
10	Class I	Extra Auxiliary Contacts Norm. Open or Norm. Closed—Each	11.	11.	11.	11.	33.
	B	Extra Auxiliary Contacts Norm. Open or Norm. Closed—Each	21.	21.	21.	21.	43.
	C	Extra Auxiliary Contacts Norm. Open or Norm. Closed—Each	27.	27.	27.	27.	49.
11	Class II	Extra Auxiliary Contacts Norm. Open or Norm. Closed—Each	23.	23.	23.	23.	47.
	B	Extra Auxiliary Contacts Norm. Open or Norm. Closed—Each	29.	29.	29.	29.	53.
12	All	Auxiliary Contact for Fusible Motor Circuit Switch (Recommended when separate control is used).....	20.	20.	20.	20.	33.
13	All	Wiring to Common Control Circuit Transformer or for Separate Control Circuit, per Starter Unit (Recommend adding Electrical Interlock on Disconnect Device).....	10.	10.	10.	10.	10.
14	All	Fused Control Circuit (One or Two Fuses). Recommended where Separate Control or Single Control Transformer for Entire Center is Used (0-30 Amp.).....	22.	22.	22.	22.	22.
15	Class I	Control Relay Max. 4 Pole (One per Unit).....	51.	51.	51.	51.	51.
	B	Control Relay Max. 4 Pole (One per Unit).....	80.	80.	80.	80.	80.
	C	Control Relay Max. 4 Pole (One per Unit).....	115.	115.	115.	115.	115.
16	Class II	Control Relay Max. 4 Pole (One per Unit).....	88.	88.	88.	88.	88.
	B	Control Relay Max. 4 Pole (One per Unit).....	123.	123.	123.	123.	123.
	C	Control Relay Max. 4 Pole (One per Unit).....	123.	123.	123.	123.	123.
17	All	3 Coil Overload Relay in Place of 2 Coil.....	4.	4.	4.	4.	40.
18	All	Omit 2 Coil Overload Relay.....	12.	20.	50.	80.	140.

- ① NEMA size 1 will accommodate 2 extra auxiliary contact units, either N.O., N.C. or combination N.O. and N.C. types. Where one N.O. and one N.C. auxiliary contact is required a combination type is used with both contacts on the same side of the line. NEMA sizes 2, 3, 4 and 5 will accommodate 3 extra auxiliary contacts, either N.O. or N.C.

DISCOUNT SCHEDULE ICD-2

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GUTLER-HAMMER

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WOUND ROTOR,
SYNCHRONOUS & MEDIUM
VOLTAGE MOTOR CONTROL

MOTOR CONTROL
CENTERS
—UNITROL®

DC MOTOR CONTROL

MOTOR CONTROL
FOR
SPECIFIC APPLICATIONS

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FOR
OVERLOAD RELAYS