

D-c Magnetic Control for Combined Windlass and Capstan

For Use with Series and Compound Motors and Shunt Brakes — Reversing, Dynamic Lowering for Windlass Operation and Plain Reversing for Capstan Service

Navy A Service

Bulletin
6954

Size	Max. H-p Rating Intermittent Duty		Control Panel Drip Proof		Master Spraytight		Extra Accelerator (Optional) Price	Spare (Unboxed) # Includes Navy Packaging			Master Plan	Ship Plan	
	115 Volts	230 Volts	Price	Net Wt. Lbs.	Price	Net Wt. Lbs.		Total for 1 to 5 Equip. per Ship	Net Wt. Lbs.	Total for 6 to 20 Equip. per Ship			Total for 21 or more Equip. per Ship
3	17.5	35	\$ 3318.	1060	\$ 545.	165	\$ 133.	\$ 215.	48	\$ 429.	\$ 540.	\$ 333.	\$ 333.
4	27.5	55	3628.	1150	636.	165	155.	244.	65	487.	783.	333.	333.
5	55.	110	4927.	1460	656.	165	211.	322.	72	645.	867.	333.	333.

OPEN TYPE NON-BREAKABLE RESISTORS

Max. H-p Rating 115 or 230 Volts	Price	Net Weight Lbs.	Max. H-p Rating 115 or 230 Volts	Price	Net Weight Lbs.	Max. H-p Rating 115 or 230 Volts	Price	Net Weight Lbs.
10	\$ 385.	210	40	\$ 1038.	472	75	\$ 1835.	582
15	474.	248	45	1163.	472	90	2178.	788
20	585.	316	50	1267.	525	100	2407.	840
25	696.	367	55	1494.	577	110	2634.	892
30	811.	367	60	1611.	630			
35	824.	420	70	1716.	630			

For combined operation, two without interlock switches are required.
Price per Bulletin 6954 at 371. each. Spares \$4.20
Optional Features and Price Additions Applying to Bulletin 6952,
6953, and 6954 Controllers:

a. Price control panel, master and spares from Bulletin 6952.
b. Price resistor from Bulletin 6954.
Note: Controller is similar to Bulletin 6952 panel, except jam pro-
tection is provided instead of overload protection.
1—For plain windlass operation without capstan, price as follows:
2—For continuous rated resistors, add 75% to resistor prices above.

Navy A Service

A-c 3 Pole Magnetic Contactor

Bulletin
6956

Size	Max. Amps. 110/440 Volts	Controller				Spares (Unboxed) Includes Navy Packaging			Net Wt. Spares Unboxed	Master Plan	Ship Plan
		Drip Proof		Spraytight		Contacts and Springs	Coil	Complete Set of Spare			
		Price	Net Wt.	Price	Net Wt.						
1	25	\$ 222.	22	\$ 253.	32	\$ 12.75	\$ 14.50	\$ 27.	1 1/2	No Charge	\$ 213.
2	50	315.	25	353.	35	16.35	18.20	34.	2 1/2	No Charge	213.
3	100	484.	50	536.	65	20.	23.65	43.	3 1/2	No Charge	213.
4	150	573.	---	625.	---	24.	28.	52.	8	No Charge	213.
5	300	1105.	---	1178.	---	37.	45.	82.	15	No Charge	213.

Navy A Service

A-c Magnetic Across-the-Line Starter

Bulletin
6962

HORSEPOWER RATINGS												
Size	110 Volts Three Phase	115 Volts Single Phase	220 Volts Three Phase	230 Volts Single Phase	440 Volts Three Phase	440 Volts Single Phase						
1	3	1½	5	3	7½	5						
2	7½	3¾	15	7½	25	10						
3	15	7½	30	15	50	25						
4	25	---	50	---	100	---						
5	50	---	100	---	200	---						
6	100	---	200	---	400	---						
PRICES												
Size	Max. H-p 440 V. 3 Ph.	Controller				Spare (Unboxed) Includes Navy Packaging				Net Weight Spare Unboxed	Master Plan	Ship Plan
		Drip Proof		Spraytight		Contacts and Springs	Coils	O. L. Relay Heaters	Complete Set of Spare			
		Price	Net Wt.	Price	Net Wt.							
Non-Reverse Starters with Overload Protection RESET ONLY IN COVER — MAXIMUM OF 3 PILOT CIRCUIT FUSES												
1	7½	\$ 342.	25	\$ 373.	50	\$ 12.75	\$ 14.50	\$ 3.65	\$ 30.	2½	No Charge	\$ 213.
2	25	451.	27	491.	60	16.35	18.20	5.55	38.	3	No Charge	213.
3	50	638.	55	684.	120	20.	23.65	3.65	47.	4	No Charge	213.
4	100	934.	120	1022.	150	24.	28.	3.65	65.	8	No Charge	213.
5	200	1260.	200	1346.	---	37.	45.	3.65	85.	15	213.	213.
6	400	2609.	465	2914.	---	75.	113.	3.65	191.	25	213.	213.
Reversing Starters with Overload Protection RESET ONLY IN COVER — MAXIMUM OF 3 PILOT CIRCUIT FUSES												
1	7½	\$ 496.	55	\$ 545.	80	\$ 25.50	\$ 14.50	\$ 3.65	\$ 43.	3½	No Charge	\$ 213.
2	25	653.	70	724.	90	32.70	18.20	3.65	54.	4	No Charge	213.
3	50	1005.	115	1085.	130	40.	23.65	3.65	67.	7	No Charge	213.
4	100	1336.	160	1462.	210	40.	35.	3.65	89.	11	No Charge	213.
Optional Features: See Bulletin 5900A Page 13.												

End of
Bulletin
6962

*Spare prices include spares for master switch and controller resistor.

All prices F. O. B. Milwaukee — Discount Schedule 16 CD

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CUTLER-HAMMER, INC.



MILWAUKEE 1, WISCONSIN