Hubbell Industrial Controls, Inc.

AC Magnetic Contactor Crane and Mill Duty

Catalog & Price List 5110 • January 2021, Replaces May 2016

5110

Application

The Type 5110 AC contactor is used for heavy duty AC industrial applications such as AC cranes, steel mills, magnet controllers, starters, mill auxiliary controllers, manual-magnetic disconnect switches and as line contactors or dynamic braking contactors for solid state drives.

Description

Available in NEMA size 1-8, normally open and normally closed. Rugged Euclid™ contactors feature many unique design and engineering advancements that greatly simplify applications, installations and servicing over 75 years of experience in design as well as manufacturing has been incorporated into these highly reliable units.

Features

The Contactor line uses the latest technology in molded plastic materials for those parts requiring insulating qualities and strength.

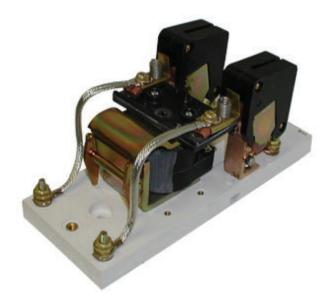
- Convenient DIRECT-WIRING for Right or Left Hand Power Connections, Rugged Terminals on both sides for all power connections.
- Completely front-connected, front removable "deadback" base design eliminates all nuts and bolts as well as live parts on the back of the base.
 There is easy access to every part of the contactor.
- Encapsulated Magnet Coil. Operating coils are designed in accordance with NEMA standards to withstand 110% of rated voltage continuously and to operate the contactor successfully at 80% of rated voltage. Standard coil voltages are 115 VDC and 230 VDC. For other coil voltages consult the factory.
- Corrosion resistant, durable, welded steel construction armature assembly incorporates stainless steel spring as well as stainless steel hinge pin providing long mechanical life.
- Hinged Arc-Shield for easy inspection and replacement of contactor tips.
 Power contact tips.
- Copper contact tips are standard. Silver-faced tips are available and are recommended for applications where the contactors remain closed for extended periods of time, such as manual magnetic disconnect switches. Silver/tungsten/carbide tips are available for hard service applications.

Accessories

- Auxiliary Electrical Contact Blocks can be mounted on either the right or left hand side of the main contactor. Contacts are bridge-type, doublebreaking, silver-cadmium oxide. Units can be "stacked" two deep, for multi-circuit arrangements. Auxiliary Electrical Contacts can be supplied in a kit form consisting of one contact block housing one (1) normally open and one (1) normally closed set of contacts in a common assembly, one knocker, plus the necessary mounting hardware.
- Multi-pole contactors. The size 1 and 2 normally open contactors are available with one, two or three poles. Two pole, normally open size 3-8 contactors can be built by ordering two single pole normally open contactors with half-voltage operating coils and one tie bar kit. The two coils must be wired in series
- Reversing contactors. Reversing contactors (two single pole or two double pole) contactors can be built by adding a horizontal mechanical interlock between the two single pole normally open or double pole tied normally open contactors mounted side by side.



NEMA Size 3 Normally Open



NEMA Size 1 2-Pole Normally Open



Price List 5110 • Discount Code EU

	Contactor Rati Maximum 600		Standard Control Circuit 230/250 VDC †				
NEMA Size	8 Hour Open AC Amperes	Intermittent Duty Rating AC Amperes	Operating Voltage	Number Of Main Poles	Part Number	List Price	
		-		1 N.O.	HC59311-108	\$1,740	
			230 VDC	2 N.O.	HC59312-108	\$2,714	
1	25	33		3 N.O.	HC59313-108	\$3,968	
			230 VDC	2 N.O.	HC59391-006	\$8,144	
			Reverser	3 N.O.	HC59391-008	\$10,788	
				1 N.O.	HC59321-104	\$2,158	
			230 VDC	2 N.O.	HC59322-104	\$3,688	
2	50	67		3 N.O.	HC59323-102	\$5,498	
			230 VDC	2 N.O.	HC59392-006	\$10,092	
			Reverser	3 N.O.	HC59392-008	\$13,850	
				1 N.O.	HC59365-001	\$3,620	
			230 VDC	2 N.O.	HC59393-002	\$8,608	
3	100	133		3 N.O.	HC59393-004	\$12,504	
			230 VDC	2 N.O.	HC59393-006	\$18,142	
			Reverser	3 N.O.	HC59393-008	\$26,076	
				1 N.O.	HC59347-001	\$4,384	
			230 VDC	2 N.O.	HC59394-002	\$10,138	
4	150	200		3 N.O.	HC59394-004	\$14,802	
			230 VDC	2 N.O.	HC59394-006	\$21,204	
			Reverser	3 N.O.	HC59394-008	\$30,670	
				1 N.O.	HC59675-402	\$5,986	
			230 VDC	2 N.O.	HC59395-002	\$13,572	
5	300	400		3 N.O.	HC59395-004	\$19,952	
			230 VDC	2 N.O.	HC59395-006	\$27,956	
			Reverser	3 N.O.	HC59395-008	\$40,762	
				1 N.O.	HC59676-402	\$8,074	
			230 VDC	2 N.O.	HC59396-002	\$17,748	
5A*	400	530		3 N.O.	HC59396-004	\$26,216	
07.				2 N.O.	HC59396-006	\$36,308	
			230 VDC Reverser			\$53,290	
			110701001	3 N.O.	HC59396-008		
			230 VDC	1 N.O.	HC59600-621	\$11,206	
6	600	800		2 N.O.	HC59416-002	\$25,334	
			230 VDC Reverser	2 N.O.	HC59416-004	\$54,196	
			330 \/DC	1 N.O.	HC59700-621	\$19,836	
7	900	1200	230 VDC	2 N.O.	HC59417-002	\$42,596	
			230 VDC Reverser	2 N.O.	HC59417-004	\$88,716	
				1 N.O.	HC59800-621	\$22,480	
8	1350	1800	230 VDC	2 N.O.	HC29418-002	\$46,984	
J	1000	1000	230 VDC Reverser	1 N.O.	HC59418-004	\$99,296	

Hubbell rating



For non-standard Operating Voltages, Consult factory for panel numbers and cost. Reversers include both mechanical and electrical interlocks.

Price List 5110

Auxiliary Electrical Contact Kits

Discount Code EW

Contactor NEMA Size (main	Optional Auxiliary	Part Number	List Price Per Kit	C	lumber of Contacts
cont.)	Contacts	Trainiso.	Customer Install	Left	Right
1 & 2 N.O.	1 N.O./N.C.	HC68011-003	\$696	1	1
3 & 4 N.O.	1 N.O./N.C.	HC68011-001	\$696	1	1
3 & 4 N.O.	2 N.O./N.C.	HC68011-002	\$1,392	1	1
5 & 5A	1 N.O./N.C.	HC68011-008	\$696	1	1
N.O.	2 N.O./N.C.	HC68011-009	\$1,392	1	1
	1 N.O./N.C. (LH)	HC59620-006	\$812	1	0
6,7 & 8	2 N.O./N.C. (LH)	HC59620-066	\$1,624	1	0
N.O.	1 N.O./N.C. (RH)	HC59620-106	\$812	0	1
	2 N.O./N.C. (RH)	HC59620-166	\$1,624	0	1

Auxiliary Electrical Contacts are supplied in a kit form consisting of one normally open and one normally closed set of contacts in a common assembly, one striker, plus the necessary mounting hardware.

Mechanical Interlock Kits

Discount Code EW

NEMA Size	Number	Part	List Price Per Kit
(of main contactor)	of Poles	Number	Customer Install
1 & 2	Single	HC68041-001	\$638
1 & 2	Multiple	HC68041-002	\$638
3 & 4	Single or Multiple	HC68041-003	\$782
5 & 5A	Single or Multiple	HC68041-016	\$922
6	Single or Multiple	HC59625-006	\$1,136
7 & 8	Single or Multiple	HC59625-008	\$1,230

Only one auxiliary contact block can be mounted when using a mechanical interlock.

Tie-Bar Kits for Multi-Pole N.O. Contactors

Discount Code EW

NEMA Size (of main contactor)	Description	Part Number	List Price Per Kit For Customer Installation
3 & 4	Multi-pole	HC59400-004	\$212
5 & 5A	Multi-pole	HC59400-005	\$284
6	Multi-pole	HC59400-126	\$426
7 & 8	Multi-pole	HC59400-128	\$498

How to Order:

- A) Select proper Operating Voltage for contactor coil.
- B) Refer to NEMA Size & Number of Main Poles required for contactor listed in chart.
- C) Order by Part Number.

For Accessories: Select the appropriate part number above

Auxiliary Electrical Contact Ratings

Electrical Contacts are rated in accordance with NEMA Standard ICS-2-125 (B600 and P600) Table Ratings

	Max.		Maximum Make and Break Current-Amperes						
AC	Cont.	12	0V	240V		480V		0V 600V	
	Amps	Make	Break	Make	Break	Make	Break	Make	Break
B-600	5	30	3	15	1.5	7.5	0.75	6	0.6
	Max.	125V		250V		600V			
DC	Cont. Amps	Make	Break	Make	Break	Make	Break		
P-600	5	1.1	1.1	0.55	0.55	0.2	0.2		



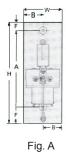
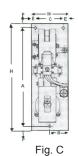
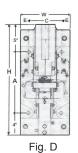


Fig. B





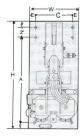




Fig. E Typical Side View

CONTACTOR RATINGS

Maximum 600 VAC 40° C Ambient

NEMA	8 Hour	Intermittent	
Size	Open AC	Enclosed	Duty Rating AC Amperes
	Amperes	AC Amperes	AC Amperes
1	25	23	33
2	50	45	67
3	100	90	133
4	150	135	200
5	300	270	400
5A*	400	360	530
6	600	540	800
7	900	810	1200
8	1200	1215	1800

SINGLE POLE NON-REVERSING

Approximate Dimensions (in inches)

NEMA SIZE	H HEIGHT	W WIDTH	D DEPTH	Α	В	С	E	F	MTG HOLE	FIG.
1*	10.25	4.00	4.80	7.81	2.00			1.625	.265	Α
2*	10.25	4.00	4.80	7.81	2.00			1.625	.265	Α
3	12.00	4.50	7.00	11.00	2.25	3.25	0.63	.50	.38	В
4	12.00	4.50	7.00	11.00	2.25	3.25	0.63	.50	.38	В
5	15.50	6.13	9.50	14.50	3.06	4.00	1.05	.50	.44	В
5A*	15.50	6.13	9.50	14.50	3.06	4.00	1.05	.50	.44	В
6, 7, 8	20.25	9.00	15.00	11.25		5.00	1.50	4.00	.52	D

^{*} Two and Three Pole Dimensions are the same as single pole.

Renewal Contact Kits:

Discount Code EW

0:	Сор	per	Silve	r	Silver Tungsten Carbide		
Size:	Part Number:	List Price	Part Number:	List Price	Part Number:	List Price	
1	HC59672-001	\$214	HC59672-002	\$1,520	N/A	-	
2	HC59672-003	\$248	HC59672-004	\$1,718	HC59672-023	\$2,148	
3 & 4	HC59672-007	\$324	HC59672-008	\$2,710	HC59672-018	\$3,966	
5 & 5A	HC59672-024	\$358	HC59672-025	\$3,040	HC59672-026	\$4,924	
6, 7 & 8	HC59672-113	\$1,262	HC59672-114	\$4,692	HC59672-125	\$6,576	
25 A. PWR AUX	HC59672-014	\$214					
50 A. PWR AUX	HC59672-015	\$					

Contact Kits include:

(1) movable contact, (1) stationary contact, spring and hardware. An arc horn is included in Size 6, 7 & 8. Size 1 does not include an arc horn.

Arc Shield Kits:

Discount Code EW	
------------------	--

Size:	Part Number:	List Price
1	HC42855-001	\$330
2	HC42856-001	\$464
3	HC59673-001	\$624
4.	HC59673-002	\$624
5 & 5A	HC59673-003	\$922
6, 7 & 8	HC59662-811	\$2,316

Prices Subject to Change without Notice.



Hubbell Industrial Controls, Inc.

a subsidiary of Hubbell Incorporated 4301 Cheyenne Drive, Archdale, NC 27263 Phone (336) 434-2800 | Fax (336) 434-2801 www.hubbell.com/hubbellindustrialcontrols/en sales@hubbell-icd.com

 $^{^{\}star}$ * When two "F" Dim. are given, the first is for the top, the second is for the bottom mounting hole