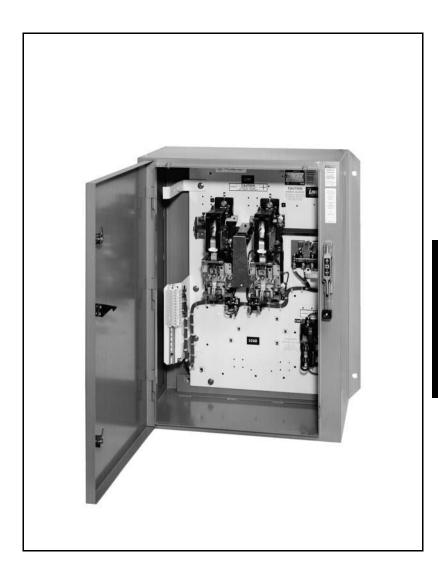
Crane Control Class 6140

Catalog

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Crane Control Class 6140

Frontline® Manual-Magnetic Disconnect Switches for DC Cranes



Class 6140 Type MHS11 Manual and Magnetic Disconnect Switch

PRICING AND ORDERING INFORMATION

The manual-magnetic disconnect switch is used for protecting electrical crane circuits except lifting magnet circuits. It meets OSHA requirements for a crane disconnect switch.

- · Contactors operated remotely or by handle on the enclosure
- · Flange mounted operator permits operation only with door closed

The standard disconnect switch consists of:

- Class 7004 Type M, Form Y781 (with silver-faced power contact tips), SPNO contactors. The contactors are mechanically tied. One normally open and one normally closed electrical interlocks are included for indicating lights.
- 1 Two pole, fused, control circuit knife switch.
- 1 Class 9999 Type Al-1 arc suppressor.
- 1 Set of incoming and outgoing power lugs.
- 1 Class 7001 relay only on NEMA Sizes 6, 8, and on 1600 and 2700 A devices.

VDC	Contactors NEMA Size	Continuous Ampere	•	Enclosure NEMA	Industrial Enclosure NEMA Type 12 Outdoor Enclosure NEMA Type 3R					
	NEWA SIZE	Rating	Туре	Price	Туре	Price				
	4	150	MFS11	12520.	MFA11	13968.				
	5	300	MGS11	15504.	MGA11	16948.				
	5A ★	400	MGAS11	17830.	MGAA11	19488.				
000	6	600	MHS11///////////////////////////////////	₩₩₩₩21466.	M HA11	22930.				
230	6A ★	800	MHAS11	30052.	MHAA11	32832.				
	8	1350	MKS11	42912.	MKA11	45844.				
		1600	A	A	A	A				
		2700	A	A	A	A				

- Consult factory for price and delivery.
- ★ Not a NEMA size/rating.

Controller Modifications

		Price									
Form	Description	Continuous Ampere Rating									
		150	300	400	600	1350					
F30 ■	2 Main-line, DC-rated power fuses	5850.	7830.	8146.	12840.	13876.					
A3	"On-Off" pushbutton	612.	612.	612.	612.	612.					
P1	Red "On" pilot light	612.	612.	612.	612.	612.					
P2	Green "Off" pilot light	612.	612.	612.	612.	612.					

Customer must specify fuse rating in amperes. If not specified, fuse will be sized for maximum current rating of switch.

Pilot Devices

For separately mounted pilot devices refer to Class 9001.

Ordering Information Required:

- 1. Class
- 2. Type
- 3. Controller Modifications: Specify Form Numbers

Class 6440 Manual-Magnetic Disconnect Switches for AC cranes are also available. Consult factory.





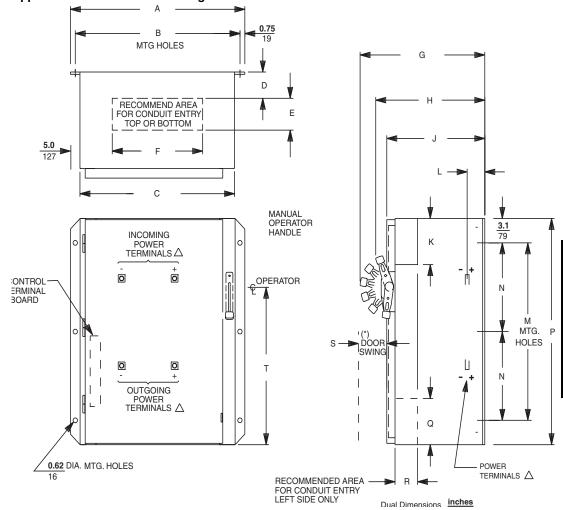
Crane Control Class 6140 Frontline® Manual-Magnetic Disconnect Switches for DC Cranes

APPLICATION DATA

Disconnect Switch Selection

When applied to cranes, the continuous ampere rating of the disconnect switch shall not be less than 50% of the combined short time ampere rating of all motors on the crane, nor less than 75% of the short time ampere rating of the motors applied for any single crane motion.

Approximate Dimension and Weights



NEMA SIZE	CONTINUOUS AMPERE RATING	A	В	С	D	E	F	G	Н	J	к	L	M	N	Р	P●	Q	R	s	т	Weight lbs (kg)
4	150	<u>27</u> 686	25.5 648	<u>24</u> 610	3.5 89	<u>4.5</u> 114	<u>10</u> 254	20.8 528	<u>17</u> 432	<u>15</u> 381	<u>3</u> 76	<u>4.5</u> 114	26 660	•	32.2 818	<u>38</u> 965	<u>3</u> 76	3.5 89	<u>19</u> 483	20.5 521	165 (75)
5	300	30	28.5	27	3.5	4.5	14	20.8	<u>17</u>	<u>15</u>	<u>3</u>	5.5	36	A	42.2	50	<u>3</u>	3.5	22	26.7	235
5A ★	400	762	724	686	89	114	356	528	432	381	76	140	914		1072	1270	76	89	559	678	(106.8)
6	600	33 838	31.5 800	30 762	<u>5</u> 127	<u>8</u> 203	<u>18</u> 457	25.8 655	22 559	<u>20</u> 508	<u>14</u> 356	<u>7.2</u> 183	<u>42</u> 1067	A	48.2 1224	<u>60</u> 1524	<u>14</u> 356	<u>7</u> 178	25 635	24.5 622	405 (184.9)
6A ★	800	45 1143	43.5 1105	<u>42</u> 1067	<u>5</u> 127	<u>8</u> 203	<u>18</u> 457	<u>32</u> 813	23.2 589	<u>20</u> 508	<u>14</u> 356	<u>7.2</u> 183	<u>42</u> 1067	A	48.2 1224	<u>60</u> 1524	<u>14</u> 356	3.5 89	<u>19</u> 483	<u>28</u> 711	480 (217.7)
8	1350	<u>39</u> 991	37.5 953	<u>36</u> 914	<u>5</u> 127	9 229	<u>19</u> 483	29.8 757	<u>26</u> 660	<u>24</u> 610	<u>16</u> 406	<u>7.8</u> 198	<u>54</u> 1372	<u>27</u> 686	<u>60.2</u> 1529	<u>69</u> 1753	<u>16</u> 406	<u>10</u> 254	<u>20</u> 508	31 787	740 (336.4)

- ▲ Center mounting holes not supplied.
- Height with fuses (Form F30)
- ★ Not a NEMA size/rating.

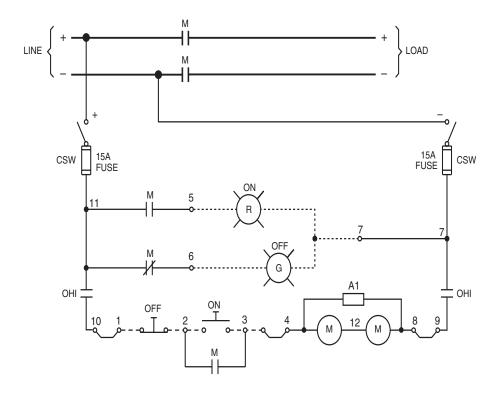
For dimensions of 1600 and 2700 A disconnect switches, consult factory.



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Frontline® Manual-Magnetic Disconnect Switches for DC Cranes

ELEMENTARY WIRING DIAGRAM



Pilot Device Selection

The pilot device should be selected so the current rating is adequate for controlling the disconnect switch. For coil operating currents refer to Class 9998 Coil Data catalog sheet.

Contactor coils for NEMA Sizes 4 and 5 disconnect switches are controlled directly by the pilot device. An arc suppressor is supplied as standard.

An interposing relay is standard on NEMA Sizes 6, 7 and 8 disconnect switches. An arc suppressor may be required depending upon the rating of the pilot device.

Contactor coils on the 1600 and 2700 A disconnect switches are controlled by interposing relays. An arc suppressor may be required depending upon the rating of the pilot device.

