

# Switched Disconnects and Enclosures AC Manual Toggle Controllers/Disconnects

30, 40, 50, 60 and 85A 600V AC

## 600V AC Manual Motor Controllers/Disconnects

For use in almost any industrial environment. Ideal component switch for motor control and as a disconnect. Toggle controllers can be built into equipment and enclosures for either box or panel-mount installation.

Amp	Poles	ToggleType	Wire	HP Rating				Catalog Number
				120V AC 1Ø	240V AC 3Ø	480V AC 3Ø	600V AC 3Ø	
30	2	Standard	Back/Side	2	5	10	15	<b>HBL7832D</b>
	2	Short	Back/Side	2	5	10	15	<b>HBL7832DS</b>
	2	Standard	Back/Side	2	5	10	15	<b>HBL7832DX</b>
	3	Standard	Back/Side	3	7.5	15	20	<b>HBL7810D</b>
	3	Short	Back/Side	3	7.5	15	20	<b>HBL7810DS</b>
40	2	Standard	Side	2	5	10	15	<b>HBL7842D</b>
	3	Standard	Side	3	7.5	15	20	<b>HBL7843D</b>
50	2	Standard	Side	2	5	10	15	<b>HBL7852D</b>
	3	Standard	Side	3	7.5	15	25	<b>HBL7853D</b>
60	2	Standard	Back	—	10	15	20	<b>HBL7862D</b>
	3	Standard	Back	—	10	25	30	<b>HBL7863D</b>
	2	Standard	Front	—	10	15	20	<b>HBL7862FWD</b>
	3	Standard	Front	—	10	25	30	<b>HBL7863FWD</b>
85	2	Standard	Back	—	10	15	20	<b>HBL7882D</b>
	3	Standard	Back	—	10	25	40	<b>HBL7883D</b>
Optional Side Guard, for close wall applications and finger safe environments.								<b>HBLFG30*</b>

Note: \*For 30A, 40A and 50A controllers.



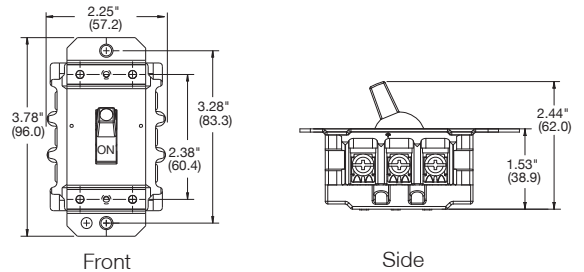
## Specifications

Electrical Performance		
Dielectric Voltage	Min. 2,200V AC minimum for 1 minute	
Electrical Life	Min. 6,000 Cycles at rated switch load	
Max. Working Voltage	600V AC RMS	
Short Circuit	Switches	10,000 RMS
Withstand Rating as Motor Disconnect	30A & 40A	60A max. when protected by J fuses
Short Circuit	50A	50A max. when protected by J fuses
Withstand Rating as Motor Controller	60A & 85A	80A max. when protected by J fuses
Short Circuit	All Switches	125A max. RK5 fuses
Withstand Rating as Motor Controller		
Mechanical		
Mechanical Life	Min. 10,000 minimum cycles	
Terminal	Switch Rating	AWG Max.
Accommodations	30A	#10
	40A & 50A	#8**
	60A & 85A	#4
Wire Type	Solid and stranded copper wire only.	
Terminal Torque	30A – 50A	20 inch pounds
Switch Rating	60A – 85A	25 inch pounds
Environmental		
Flammability	UL94HB/VO	
Operating Temp.	Max. 75°C	
	Min. -40°C continuous without impact	
Listings		
	Industrial Control File	
UL 508	#E70402	
CSA-C22.2 No.14	LR-46186	

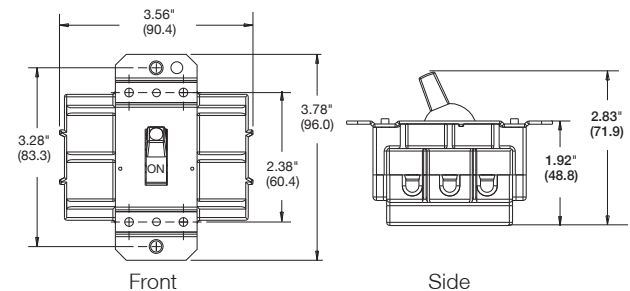
Note: \*\*Use listed certified ring terminal.

## Dimensions

### 30, 40 and 50 Amp Standard Toggles



### 60 and 85 Amp Standard Toggles

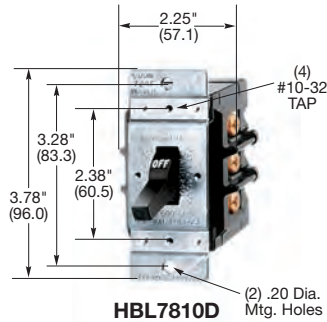


Dimensions in Inches (mm)

# 30 Ampere, 600 Volts AC Manual Motor Controllers

"Suitable as Motor Disconnect"

## 30A 600V AC Manual Motor Controllers, Double Pole



Description	Catalog Number
30A, double pole, single throw, AC manual motor controller, black nylon handle, side and back wired.	<b>HBL7832D</b>
30A, double pole, single throw, AC manual motor controller, black nylon handle, short toggle.	<b>HBL7832DS</b>
30A, double pole, single throw, AC manual motor controller. 50 piece bulk pack.	<b>HBL7832DX</b>
HBL7832D in HBL1390 Type 1 enclosure with non-metallic cover, ½ in. and ¾ in. knockouts on top, bottom and back of steel frame.	<b>HBL1392D</b>
HBL7832D in HBL1370 metal Type 1 enclosure.	<b>HBL1372D</b>
HBL7832D in NEMA 3R non-metallic enclosure.	<b>HBL13R22D</b>
HBL7832D in HBL13R90 metal Type 3R enclosure.	<b>HBL13R92D</b>
HBL7832D in NEMA 3R flip-lid enclosure.	<b>HBL13R12D</b>

Note: See page F-17 for technical information.

## 30A 600V AC Manual Motor Controllers, Three Pole

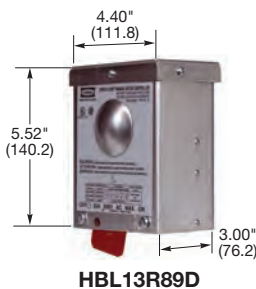
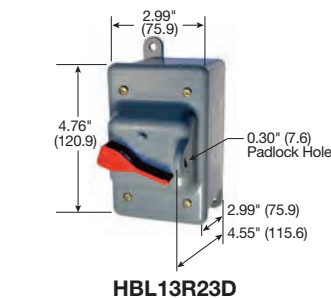
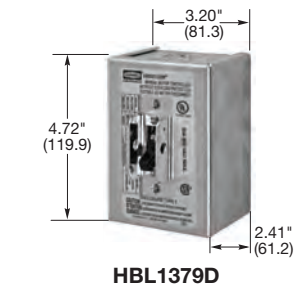
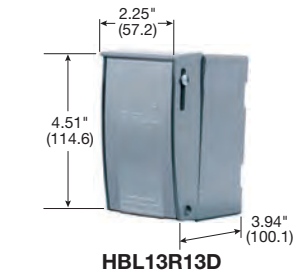


Description	Catalog Number
30A, three pole, single throw, AC manual motor controller, black nylon handle, side and back wired.	<b>HBL7810D</b>
30A, three pole, single throw, AC manual motor controller, black nylon handle, short toggle.	<b>HBL7810DS</b>
HBL7810D in HBL1390 Type 1 enclosure with non-metallic cover, ½ in. and ¾ in. knockouts on top, bottom and back of steel frame.	<b>HBL1389D</b>
HBL7810D in HBL1370 metal Type 1 enclosure.	<b>HBL1379D</b>
HBL7810D in NEMA 3R non-metallic enclosure.	<b>HBL13R23D</b>
HBL7810D in HBL13R90 metal Type 3R enclosure.	<b>HBL13R89D</b>
HBL7810D in NEMA 3R flip-lid enclosure.	<b>HBL13R13D</b>
30A, 600V, three pole, rotary controller in NEMA 4X stainless steel enclosure.	<b>HBL13S33D</b>
30A, 600V, three pole, rotary controller in NEMA 4X non-metallic enclosure.	<b>HBL13X33D</b>

Note: See page F-17 for technical information.

## Motor Rating

Product	120V AC	240V AC	480V AC	600V AC	Phase
30A Double Pole	2HP	5HP	10HP	15HP	1
30A Three Pole	3HP	7½HP	15HP	20HP	3
40A Double Pole	2HP	5HP	10HP	15HP	1
40A Three Pole	3HP	7½HP	15HP	20HP	3
50A Double Pole	2HP	5HP	10HP	15HP	1
50A Three Pole	3HP	7½HP	15HP	25HP	3
60A Double Pole	-	10HP	15HP	20HP	1
60A Three Pole	-	10HP	25HP	30HP	3
85A Double Pole	-	10HP	15HP	20HP	1
85A Three Pole	-	10HP	25HP	40HP	3



Dimensions in Inches (mm)