

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	HBL7832D
	2	Short	Back/Side	2	5	10	15	HBL7832DS
	2	Standard	Back/Side	2	5	10	15	HBL7832DX
	3	Standard	Back/Side	3	7.5	15	20	HBL7810D
	3	Short	Back/Side	3	7.5	15	20	HBL7810DS
40	2	Standard	Side	2	5	10	15	HBL7842D
	3	Standard	Side	3	7.5	15	20	HBL7843D
50	2	Standard	Side	2	5	10	15	HBL7852D
	3	Standard	Side	3	7.5	15	25	HBL7853D
60	2	Standard	Back	—	10	15	20	HBL7862D
	3	Standard	Back	—	10	25	30	HBL7863D
	2	Standard	Front	—	10	15	20	HBL7862FWD
	3	Standard	Front	—	10	25	30	HBL7863FWD
85	2	Standard	Back	—	10	15	20	HBL7882D
	3	Standard	Back	—	10	25	40	HBL7883D
Optional Side Guard, for close wall applications and finger safe environments.								HBLFG30*

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



HBL7810D



HBL7853D



HBL7863D



HBLFG30

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
Switches	10,000 RMS
Short Circuit	30A & 40A 60A max. when protected by J fuses
Withstand Rating	50A 50A max. when protected by J fuses
as Motor Disconnect	60A & 85A 80A max. when protected by J fuses
Short Circuit	
Withstand Rating	All Switches 125A max. RK5 fuses
as Motor Controller	

Mechanical

Mechanical Life	Min. 10,000 minimum cycles
Switch Rating	AWG Max.
Terminal	30A #10
Accommodations	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

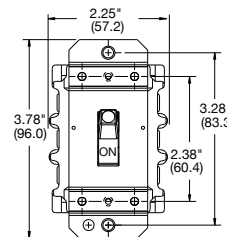
Listings

	Industrial Control File
UL 508	#E70402
CSA-C22.2 No.14	LR-46186

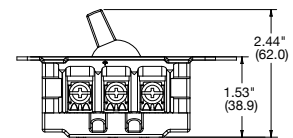
Note: **Use listed certified ring terminal.

Dimensions

30, 40 and 50 Amp Standard Toggles

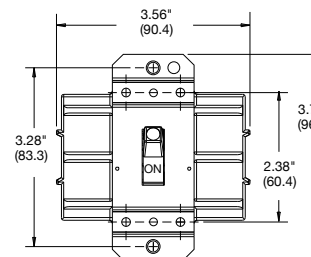


Front

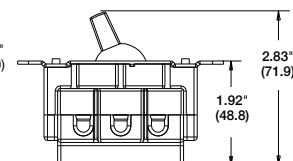


Side

60 and 85 Amp Standard Toggles



Front



Side

Dimensions in Inches (mm)



IP44*
SUITABILITY

40A 600V AC Manual Motor Controllers

Description	Catalog Number
40A, double pole, single throw, AC manual motor controller, black nylon handle, side wired.	HBL7842D
40A, three pole, single throw, AC manual motor controller, black nylon handle, side wired.	HBL7843D

Note: See page F-17 for technical information.

50A 600V AC Manual Motor Controllers

Description	Catalog Number
50A, double pole, single throw, AC manual motor controller, black nylon handle, side wired.	HBL7852D
50A, three pole, single throw, AC manual motor controller, black nylon handle, side wired.	HBL7853D

Note: See page F-17 for technical information.

60A 600V AC Manual Motor Controllers

Description	Catalog Number
60A, double pole, single throw, AC manual motor controller, black nylon handle, back wired.	HBL7862D
Same as HBL7862D except front wired.	HBL7862FWD
HBL7862FWD in Type 3R enclosure.	HBL16R92D
60A, three pole, single throw, AC manual motor controller, black nylon handle, back wired.	HBL7863D
Same as HBL7863D except front wired.	HBL7863FWD
HBL7863FWD in a Type 3R enclosure.	HBL16R93D
60A, 600V, three pole, rotary controller in NEMA 4X stainless steel enclosure.	HBL16S63D
60A, 600V, three pole, rotary controller in NEMA 4X non-metallic enclosure.	HBL16X63D

Note: See page F-17 for technical information.

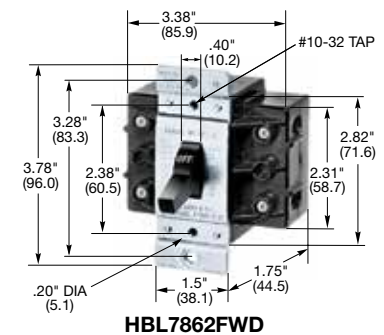
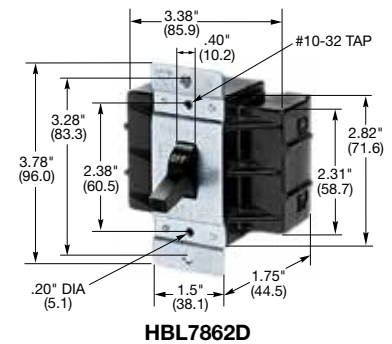
85A 600V AC Manual Motor Controllers

Description	Catalog Number
85A, double pole, single throw, AC manual motor controller, black nylon handle, back wired.	HBL7882D
85A, three pole, single throw, AC manual motor controller, black nylon handle, back wired.	HBL7883D

Note: See page F-17 for technical information.

Motor Controller Accessories

Description	Catalog Number
Finger Guards, fit 30A, 40A and 50A controllers.	HBLFG30
Auxiliary Contacts, NO/Common/NC, for use in rotary switches only.	HBLAUX



Dimensions in Inches (mm)



Ratings Quick Reference Guide

Circuit-Lock® Switched Enclosures

Amp	Description	Phase	Poles	HP				Catalog Number
				120	240	480	600	
30	TYPE 1 Non-Metallic	3	3	3	7.5	15	20	HBL1389MQR
	TYPE 1 Non-Metallic	3	3	3	7.5	15	20	HBL1389MQ5
	TYPE 1 Non-Metallic	3	3	3	7.5	15	20	HBL1389MQR2
	NEMA 1 Aluminum	1	2	2	5	10	15	HBL1372D
	NEMA 1 Aluminum	3	3	3	7.5	15	20	HBL1379D
	NEMA 1 Non-Metallic	1	2	2	5	10	15	HBL1392D
	NEMA 1 Non-Metallic	3	3	3	7.5	15	20	HBL1389D
	NEMA 3/3R Non-Metallic	1	2	2	5	10	15	HBL13R22D
	NEMA 3/3R Non-Metallic	3	3	3	7.5	15	20	HBL13R23D
	NEMA 3R Die Cast Aluminum	1	2	2	5	10	15	HBL13R12D
	NEMA 3R Die Cast Aluminum	3	3	3	7.5	15	20	HBL13R13D
	NEMA 3R Aluminum	1	2	2	5	10	15	HBL13R92D
	NEMA 3R Aluminum	3	3	3	7.5	15	20	HBL13R89D
	TYPE 4X Non-Metallic	3	3	1	7.5	15	15	HBLDS3
	TYPE 4X Non-Metallic	3	3	1	7.5	15	15	HBLDS3AC
	TYPE 4X Non-Metallic	3	3	1	7.5	15	15	HBLDS3NK
	TYPE 4X Non-Metallic	3	3	1	7.5	15	15	HBLDS3ACNK
	TYPE 4X Non-Metallic	3	3	1	5	10	10	HBLDS33ACNK
	TYPE 4X Non-Metallic	3	3	1	7.5	15	15	HBLDS3MQR
	TYPE 4X Non-Metallic	3	3	1	7.5	15	15	HBLDS3MQ5
	TYPE 4X Non-Metallic	3	3	1	7.5	15	15	HBLDS3MQR2
	TYPE 4X Stainless Steel	3	3	1	7.5	15	15	HBLDS3SS
	TYPE 4X Stainless Steel	3	3	1	7.5	15	15	HBLDS3SSAC
	TYPE 4X Stainless Steel	3	3	1	7.5	15	15	HBLDS3SSVFD
	TYPE 4X Stainless Steel	3	3	2	7.5	15	15	HBLDS3SSMQR
	TYPE 4X Stainless Steel	3	3	1	7.5	15	15	HBLDS3SSMQ5
	TYPE 4X Non-Metallic Fused Disconnect	3	3	1	7.5	15	20	FDS30
	NEMA 4X Stainless Steel	3	3	3	7.5	15	20	HBL13S33D
	NEMA 4X Non-Metallic	3	3	3	7.5	15	20	HBL13X33D
60	NEMA 3R Aluminum	1	2	—	10	15	20	HBL16R92D
	NEMA 3R Aluminum	3	3	—	10	25	30	HBL16R93D
	TYPE 4X Non-Metallic	3	3	7.5	30	50	50	HBLDS6
	TYPE 4X Non-Metallic	3	3	7.5	30	50	50	HBLDS6AC
	TYPE 4X Stainless Steel	3	3	7.5	30	50	50	HBLDS6SS
	TYPE 4X Stainless Steel	3	3	7.5	30	50	50	HBLDS6SSAC
	TYPE 4X Non-Metallic Fused Disconnect	3	3	3	15	30	40	FDS60
	NEMA 4X Stainless Steel	3	3	—	10	25	30	HBL16S63D
100	NEMA 4X Non-Metallic	3	3	—	10	25	30	HBL16X63D
	TYPE 4X Non-Metallic	3	3	7.5	30	50	50	HBLDS10
	TYPE 4X Non-Metallic	3	3	7.5	30	50	50	HBLDS10AC
	TYPE 4X Stainless Steel	3	3	7.5	30	50	50	HBLDS10SS
	TYPE 4X Stainless Steel	3	3	7.5	30	50	50	HBLDS10SSAC



HBL1379D



HBL1389D



HBLDS3



HBL16R93D



HBL13S33D



FDS30



HBLDS3SS



HBL16S63D



HBLDS3MQR



HBLDS3MQ5

Circuit-Lock® Switches

Amp	Description	Phase	Poles	HP				Catalog Number
				120	240	480	600	
30	Toggle Switch	1	2	2	5	10	15	HBL7832D
	Short Toggle Switch	1	2	2	5	10	15	HBL7832DS
	Toggle Switch, Bulk Pack	1	2	2	5	10	15	HBL7832DX
	Toggle Switch	3	3	3	7.5	15	20	HBL7810D
	Short Toggle Switch	3	3	3	7.5	15	20	HBL7810DS
40	Toggle Switch	1	2	2	5	10	15	HBL7842D
	Toggle Switch	3	3	3	7.5	15	20	HBL7843D
50	Toggle Switch	1	2	2	5	10	15	HBL7852D
	Toggle Switch	3	3	3	7.5	15	25	HBL7853D
—	Finger guard (30–50A Switches)	—	—	—	—	—	—	HBLFG30
60	Toggle Switch	1	2	—	10	15	20	HBL7862D
	Toggle Switch	3	3	—	10	25	30	HBL7863D
	Toggle Switch – Front Wire	1	2	—	10	15	20	HBL7862FWD
	Toggle Switch – Front Wire	3	3	—	10	25	30	HBL7863FWD
85	Toggle Switch	1	2	—	10	15	20	HBL7882D
	Toggle Switch	3	3	—	10	25	40	HBL7883D



HBL7810D



HBL7853D



HBL7862D



HBL7863D