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- Ideal motor controller suitable as a disconnect
- High temperature thermoset body
- Provides high resistance to electrical arc tracking
- Strong ON/OFF action with quick-make, slow break operation provides long-life and reliability
- Superior dielectric strength
- Optional side guard, for close wall applications and finger safe environments
- Can be built into equipment and enclosures with either box or panel-mount installation

Toggle AC Manual Motor Controllers/Disconnects



30003D



40002D



60003D

Poles	HP Rating				30A		40A	50A	60A		85A
	120V AC	240V AC	480V AC	600V AC	Back and Side Wired		Side Wired	Side Wired	Front Wired	Back Wired	Back Wired
					Standard Toggle	Short Toggle	Standard Toggle	Standard Toggle	Standard Toggle	Standard Toggle	Standard Toggle
2	2	5	10	15	30002D	30002DS	40002D	50002D	—	—	—
2	2	5	10	15	—	—	4002*	—	—	—	—
3	3	7.5	15	20	30003D	30003DS	40003D	50003D	—	—	—
2	—	10	15	20	—	—	—	—	60002FWD	60002D	85002D
3	—	10	25	30	—	—	—	—	60003FWD	60003D	—
3	—	10	25	40	—	—	—	—	—	—	85003D

Note: *Motor controller only.

Accessories

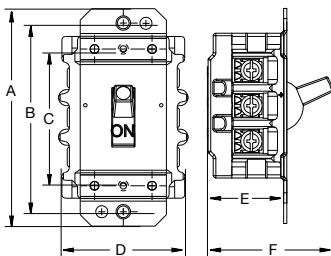
Description	Catalog Number
Finger guards, red, for use with 30, 40 and 50 amp switches (set of 2)	30003FG



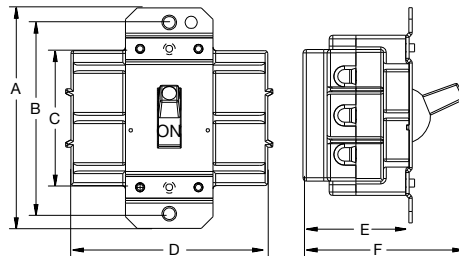
30003FG

Product Dimensions Inches (mm)

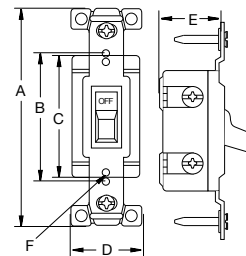
	30002D, 30003D, 40002D, 40003D, 50002D, 50003D	60002D, 60003D, 85002D, 85003D	4002
A	3.78" (96.0)	3.78" (96.0)	4.06" (103.1)
B	3.28" (83.3)	3.28" (83.3)	2.38" (60.5)
C	2.38" (60.4)	2.38" (60.4)	2.26" (57.4)
D	3.56" (90.4)	2.25" (57.2)	1.30" (33.0)
E	1.92" (48.8)	1.53" (38.9)	1.11" (28.2)
F	2.83" (71.9)	2.43" (62.0)	(2) #6-32 TAP



30002D, 30003D, 40002D, 40003D, 50002D, 50003D



60002D, 60003D, 85002D, 85003D



4002



30313D

30313D

- Die cast aluminum enclosure, gray zinc powder coat finish
- Heavy duty flip lid, 3-sided protection
- Lockout/tagout capability

30303D

- All aluminum cover and base, base is pre-drilled for rear surface mounting
- Raintight enclosures
- Lockout/tagout capability



30303D

Enclosed AC Manual Motor Controllers/Disconnects



Enclosed Switch Motor Controllers/Disconnects						NEMA 1		NEMA 3/3R		NEMA 3R	
Ideal for use in:						Indoor Environments		Outdoor Equipment		Outdoor Environments	
Poles	HP Rating					30A	30A		30A	60A	
	120V AC	240V AC	480V AC	600V AC	Thermoplastic		Aluminum Cast				
2	2	5	10	15	30102D	30322D*	30312D	30302D	—		
3	3	7.5	15	20	30103D	30323D*	30313D	30303D	—		
2	—	10	15	20	—	—	—	—	60302D		
3	—	10	25	30	—	—	—	—	60303D		

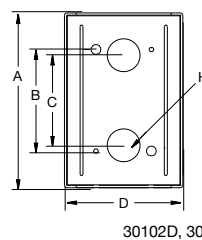
Note: *Drill weephole to alter from NEMA 3 to NEMA 3R.

Enclosures Without Controller/Disconnect

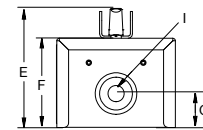
NEMA 1		NEMA 3R	
Use with 30002D and 30003D		For 30A, use with 30002D and 30003D	
30100		30300	60300

Product Dimensions Inches (mm)

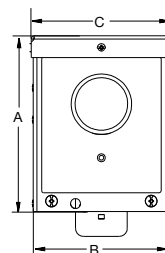
	30102D, 30103D, 3100	30322D, 30323D	30302D, 30303D, 30300	60302D, 60303D, 60300
A	4.72" (120.0)	5.42" (137.7)	5.52" (140.2)	10.11" (256.8)
B	2.75" (69.8)	4.76" (120.9)	4.28" (108.7)	4.28" (108.7)
C	2.44" (61.9)	2.99" (75.9)	4.40" (111.8)	4.40" (111.8)
D	3.20" (81.2)	2.22" (56.4)	3.30" (83.3)	3.30" (83.8)
E	3.15" (80.0)	4.55" (115.6)	2.75" (69.9)	2.75" (69.9)
F	2.41" (61.3)	2.99" (75.9)	1.99" (50.5)	2.00" (50.8)
G	0.92" (23.2)	—	1.06" (26.9)	1.52" (38.6)
H	(2) ½" (12.7)	—	(2) ¾"	(2) ¾" X 1"
I	Knockouts	—	Knockouts	Knockouts
	½ x ¾ Knockout each end	—	—	—



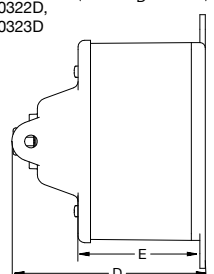
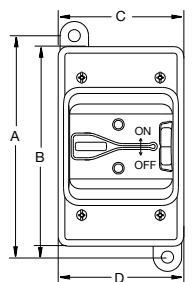
30102D, 30103D



30302D, 30303D, 30300, 60302D, 60303D, 60300



30322D, 30323D



Motor Control Products

Rotary AC Manual Motor Controllers/Disconnects



TECH·SPEC®



66033D

30003FG

- Ideal motor controller suitable as a disconnect
- Rotary controllers can be built into equipment and enclosures for either box or panel-mount installation
- Provides high resistance to electrical arc tracking
- Thermoset body withstands high temperatures
- Superior dielectric strength
- #10 brass terminal screw and clamping plate for secure back or side wiring
- Optional side guard, for close wall applications and finger safe environments

Rotary AC Manual Motor Controllers/Disconnects



66033D



66042D



66063D

Poles	HP Rating				30A	40A	60A
	120V AC	240V AC	480V AC	600V AC	Back and Side Wired	Side Wired	Back Wired
2	2	5	10	15	66032D	66042D	—
3	3	7.5	15	20	66033D	66043D	—
2	—	10	15	20	—	—	66062D
3	—	10	25	30	—	—	66063D

Accessories



30003FG



6610MK



664XWP

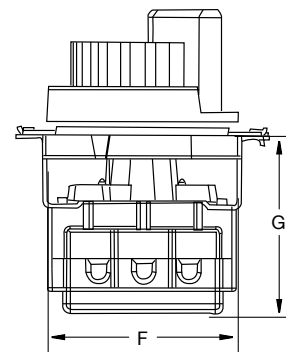
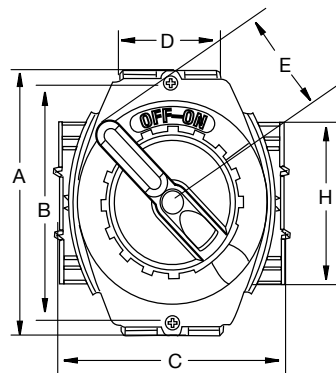


660AC

Accessory	Finger Guards	Handle Kit	Weatherproofing Kit	Auxiliary Contact
Description	For use with 30-50A switches (set of 2)	For rotary switch, includes handle, shaft, mounting brackets and required screws	For rotary switch, includes 4 seals, neoprene bushing and 3 "O" rings	NO/NC, includes 1 contact for use with push-on terminals
Catalog Number	30003FG	6610MK	664XWP	660AC

Product Dimensions Inches (mm)

	66032D, 66033D, 66042D, 66043D with Handle Kit 6610MK	66062D, 66063D with Handle Kit 6610MK
A	3.78" (96.0)	3.78" (96.0)
B	3.40" (86.4)	3.40" (86.4)
C	3.09" (78.5)	3.56" (90.3)
D	1.50" (38.1)	1.50" (38.1)
E	1.56" R. (36.6 R.)	1.56" R. (36.6 R.)
F	2.81" (71.4)	2.81" (71.4)
G	2.44" (61.9)	2.96" (75.2)
H	—	2.31" (58.7)



Motor Control Products

NEMA 4X Enclosed Rotary Motor Controllers/Disconnects



664S33D

664S33D

- 304 stainless steel enclosure, chemical and corrosion-resistant
- PBT handle and collar, chemical and impact resistant
- Lockout/tagout capability

664X63D

- Undrilled case allows custom placement of entry positions with normal tools and knockouts
- All thermoplastic, non-corrosive, non-metallic enclosure
- Clearly identified "ON/OFF" indicators



664X63D

Enclosed Rotary Motor Controllers/Disconnects



664S33D



664S63D



664X33D



664X63D

					NEMA 4X				
					Stainless steel enclosures ideal for use in environments where washdown is necessary (i.e., food processing, laboratories, etc.)		Non-metallic enclosures used primarily in heavy wash-down and corrosive environments		
Poles	HP Rating				30A	60A	30A	40A	60A
	120V AC	240V AC	480V AC	600V AC					
2	2	5	10	15	—	—	—	—	—
3	3	7.5	15	20	664S33D	—	664X33D	664X43D	—
3	—	10	25	30	—	664S63D	—	—	664X63D

Note: *Drill weephole to alter from NEMA 3 to NEMA 3R.

Accessories



30003FG



660AC



664XFT

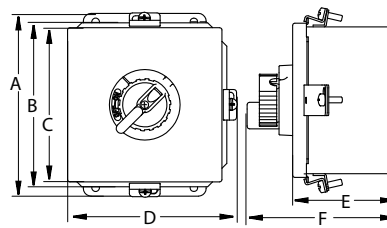


6603N

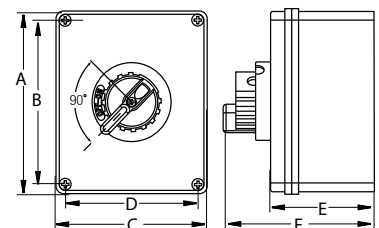
Accessory	Finger Guards	Auxiliary Contact	Mounting Feet	Neutral Buss Connector
Description	For Use with 30-50A Switches (set of 2)	NO/NC, Pilot Duty	For NEMA 4X Enclosure	For NEMA 4X Enclosure
Catalog Number	30003FG	660AC	664XFT	6603N

Product Dimensions Inches (mm)

	664S33D	664S63D	66X33D, 66X43D	66X63D
A	7.44" (189.0)	9.44" (239.8)	6.70" (170.2)	9.00" (228.6)
B	6.75" (171.5)	8.75" (222.3)	6.00" (152.4)	8.30" (210.8)
C	6.00" (152.4)	8.00" (203.4)	5.50" (139.7)	5.50" (139.7)
D	6.96" (176.8)	6.95" (176.5)	4.80" (121.9)	4.80" (121.9)
E	4.00" (101.6)	4.00" (101.6)	5.55" (141.0)	5.55" (141.0)
F	6.10" (154.9)	6.10" (154.9)	3.80" (96.5)	3.80" (96.5)
G	4.25" (108.0)	4.25" (108.0)	—	—



664S33D, 664S63D



664X33D, 664X63D

Valox® is a registered trademark of SABIC Innovative Plastics, acquired from General Electric Company.



30003D



50003D



60003D



66033D



30102D



30302D



664S33D



664X33D



30003FG



660AC

Toggle AC Motor Controllers Suitable as Disconnects

Description	Amp	Phase	Poles	HP Ratings				Catalog Number
				120V AC	240V AC	480V AC	600V AC	
Toggle switch	30	1	2	2	5	10	15	30002D
Short toggle switch	30	1	2	2	5	10	15	30002DS
Toggle switch	30	3	3	3	7.5	15	20	30003D
Short toggle switch	30	3	3	3	7.5	15	20	30003DS
Toggle switch	40	1	2	2	5	10	15	40002D*
Toggle switch	40	3	3	3	7.5	15	25	40003D
Toggle switch	50	1	2	2	5	10	15	50002D
Toggle switch	50	3	3	3	7.5	15	25	50003D
Toggle switch	60	1	2	—	10	15	20	60002D
Toggle switch	60	3	3	—	10	25	30	60003D
Toggle switch – front wire	60	1	2	—	10	15	20	60002FWD
Toggle switch – front wire	60	3	3	—	10	25	30	60003FWD
Toggle switch	85	1	2	—	10	15	20	85002D
Toggle switch	85	3	3	—	10	25	40	85003D

Note: *For motor controller only, use catalog number 4002.

Rotary AC Manual Motor Controllers Suitable as Disconnects

Description	Amp	Phase	Poles	HP Ratings				Catalog Number
				120V AC	240V AC	480V AC	600V AC	
Rotary switch	30	1	2	2	5	10	15	66032D
Rotary switch	30	3	3	3	7.5	15	20	66033D
Rotary switch	40	1	2	2	5	10	15	66042D
Rotary switch	40	3	3	3	7.5	15	25	66043D
Rotary switch	60	1	2	—	10	15	20	66062D
Rotary switch	60	3	3	—	10	25	30	66063D

Toggle And Rotary Enclosed Switches Suitable as Disconnects

Description	Amp	Phase	Poles	HP Ratings				Catalog Number
				120V AC	240V AC	480V AC	600V AC	
NEMA 1 aluminum – toggle	30	1	2	2	5	10	15	30102D
NEMA 1 aluminum – toggle	30	3	3	3	7.5	15	20	30103D
NEMA 3/3R non-metallic	30	1	2	2	5	10	15	30322D
NEMA 3/3R non-metallic	30	3	3	3	7.5	15	20	30323D
NEMA 3R die cast aluminum	30	1	2	2	5	10	15	30312D
NEMA 3R die cast aluminum	30	3	3	3	7.5	15	20	30313D
NEMA 3R aluminum	30	1	2	2	5	10	15	30302D
NEMA 3R aluminum	30	3	3	3	7.5	15	20	30303D
NEMA 3R aluminum	60	1	2	—	10	15	20	60302D
NEMA 3R aluminum	60	3	3	—	10	25	30	60303D
NEMA 4X stainless steel	30	3	3	3	7.5	15	20	664S33D
NEMA 4X stainless steel	60	3	3	—	10	25	30	664S63D
NEMA 4X rotary motor controller	30	3	3	3	7.5	15	20	664X33D
NEMA 4X rotary motor controller	40	3	3	3	7.5	15	20	664X43D
NEMA 4X rotary motor controller	60	3	3	—	10	25	30	664X63D

Accessories

Description	Catalog Number
Finger guards, red, for use with 30, 40 and 50 amp switches (set of 2)	30003FG
Handle kit for rotary switch, includes handle, shaft, mounting brackets and required screws	6610MK
Weatherproofing kit for rotary switch, includes 4 seals, neoprene bushing and 3 "O" rings	664XWP
Auxiliary contact NO/NC, includes 1 contact for use with push-on terminals	660AC
Mounting feet for NEMA 4X enclosure	664XFT
Neutral buss connector for NEMA 4X enclosure	6603N

Pendant Control Stations



PCS002

- Compact size, designed for comfort fit
- Raised button guards
- Safety-yellow "Super-Tuff" polymer enclosure
- Heavy duty nickel-plated copper contacts
- Mechanical interlock on single- and two-speed stations
- "Saddle" type wire terminations
- Excellent strain relief

IP55
SUITABILITY

Pendant Control Stations, Two Button, NEMA 4X



PCS002



PCS102

Ideal for use on outdoor equipment.	With Mechanical Interlock Between Push Buttons		Normally Open-Normally Closed Without Mechanical Interlock
	Single-Speed	Two-Speed	Single-Speed
	PCS002	PCS202	PCS102

Note: Included with product: nylon cord grip and sealing washer (must be installed to achieve NEMA 4X rating).
 Indication label pack. Cord dia. range .375–.625 in. (9.5–15.9).
 Ambient temperatures: 25°F to 140°F (32°C to 60°C).
 Typical applications: Package electric motor hoists. Remote control of machinery.

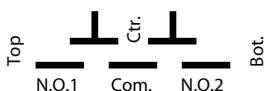
Contact Ratings - Compact Pendant Push Button Stations, PCS Series

	Single-Speed		Two-Speed	
	Voltage	Current	Voltage	Current
AC	120V	6.0 Amp	120V	3.0 Amp
35% power factor	240V	3.0 Amp	240V	1.5 Amp
DC	125V	1.1 Amp	—	—
Inductive	250V	0.55 Amp	—	—

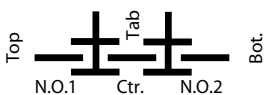
Note: Contacts will carry the above currents on a continuous basis and have the same interrupting ratings.

Wiring Diagram

Single-Speed* **PCS002**

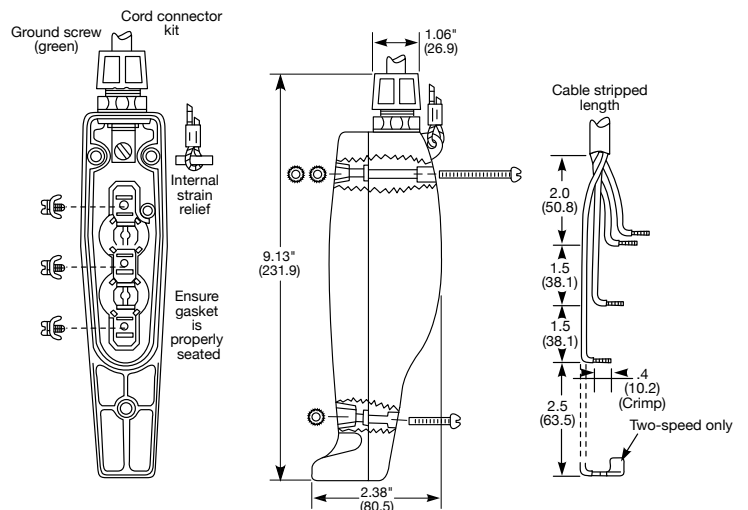
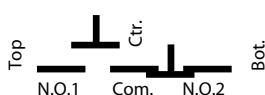


Two-Speed* **PCS202**



Note: *Mechanical "floating ball" interlock prevents actuating both push buttons simultaneously.

Momentary (Start/Stop) **PCS102**





AC Manual Toggle and Rotary Motor Controllers/Disconnects

Certification

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

Performance

Electrical

Dielectric voltage	2,200V AC minimum for 1 minute	
Electrical life	6,000 cycles at general rating load	
Max working voltage	600V AC RMS	
	Controllers	10,000 Rms
Short circuit	30A and 40A	60A max J fuses
Withstand rating	50A	50A max J fuses
As motor disconnect	60A and 85A	80A max J fuses
Short circuit withstand rating as motor controller	All controllers	125A max RK5 fuses

Mechanical

Mechanical life	10,000 cyc min.		
Terminal accommodations	Amps	AWG Minimum	AWG Maximum
	30	#14	#10
	40 and 50	#14	# 8 - with UL listed ring terminal
	60 and 85	#14	# 4
Terminal torque	30 - 50	20 inch pounds	
	60 - 85	25 inch pounds	

Environmental

Flammability	UL94HB/V
Operating temperature	Maximum continuous 30, 40 and 60A, 60°C
	Maximum continuous 50 and 85A, 75°C
	Minimum continuous without impact, -40°C