

WEG Automation Catalog

Motors
Automation
Energy
Transmission & Distribution

02. Disconnect Switches (MSW and MSWB series)

Disconnect Switches – MSW Series

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Enclosed Disconnect Switches – MSWB Series

Standard Features.....	89
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MSW

Introducing the New WEG MSW Series Disconnect Switches. The MSW was developed according to IEC 60947-3 & UL508. The compact, reliable design of the MSW allows the operator to safely disconnect power and isolate the circuit within the panel. The MSW has a range of 25 to 160Amps, panel or door mount options, and offers a variety of accessories.

Standard Features

- Suitable as Motor Disconnect
- Base or Door mounting options
- DIN or base mounted
- Through the door or direct mount handles
- Touch Safe IP20

MSW Catalog Number Sequence

MSW	25	B	3	H
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Amperage Ratings/ Accessories

Door Mount- 25A, 40A, 63A, 80A, 100A,
Panel Mount- 25A, 40A, 63A, 80A, 125A, 160A

AP- Neutral Pole
AC- Auxiliary Contact
TS- Terminal Cover

Number of Poles

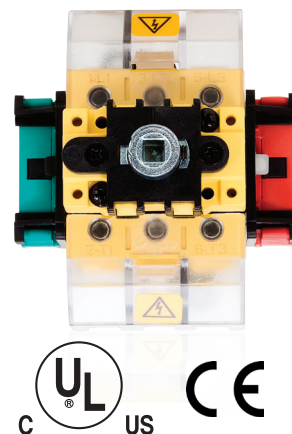
Poles- 3

Mounting

P- Panel Door Mount
B- Base Mount

Accessories

H- Red/Yellow Handle, + Shaft (Base Mount)
B- Black/Grey Handle, + Shaft (Base Mount)
NA- Neutral Pole
1NO- Auxiliary Contact
1NC - Auxiliary Contact



Overview

Mounting	Current (A)	Handle		Shaft (mm)			Neutral pole	Auxiliary contact			Terminal cover
		Red/yellow	Black/gray	85	185	300		1NO	1NC	1NO/1NC	
Panel door	32	●	■				■	■	■		■
	40	●	■				■	■	■		■
	63	●	■				■	■	■		■
	80	●	■				■	■	■		■
	100	●									■
Base	32	●	■	◆	■	■	■	■	■		■
	40	●	■	◆	■	■	■	■	■		■
	63	●	■	◆	■	■	■	■	■		■
	80	●	■	◆	■	■	■	■	■		■
	125	●			■	●				■	■
	160	●			■	●				■	■

Notes: ◆ - Only available as part of the standard configuration.

● - Available as part of the standard configuration or it can be supplied separately.

■ - Only available to be supplied separately.

Disconnect Switches

MSW

Disconnect Switches for Panel Door Mounting

Standard Configuration (Disconnect Switch + Handle Red/Yellow)

Catalog Number	Ith (A)	Ie (A)			Poles	List Price	Multiplier
		AC21 (690 V)	AC22 (690 V)	AC23 (690 V)			
MSW 25 P3 N-H	32	32	25	16	3	\$80	Z13
MSW 40 P3 N-H	40	40	32	20		\$85	
MSW 63 P-3 H	63	63	63	26		\$137	
MSW 80 P-3 H	80	80	80	32		\$148	
MSW 100 P-3 H	100	100	86	38		\$185	



Disconnect Switches and Accessories

Disconnect Switch

Catalog Number	Ith (A)	Ie (A)			Poles	List Price	Multiplier
		AC21 (690 V)	AC22 (690 V)	AC23 (690 V)			
MSW 25 P3 N	32	32	25	16	3	\$56	Z13
MSW 40 P3 N	40	40	32	20		\$65	
MSW 63 P-3	63	63	63	26		\$110	
MSW 80 P-3	80	80	80	32		\$122	
MSW 100 P-3	100	100	86	38		\$158	



Rotary Handle

Catalog Number	Disconnect Switch	Color	List Price	Multiplier
MSW H 40-P-N-R	MSW25/MSW40	Red/Yellow	\$43	Z13
MSW H 100 P	MSW63/MSW80/MSW100	Red/Yellow	\$30	
MSW H 40-P-N-B	MSW25/MSW40	Black/Gray	\$43	
MSW H 100-P-B	MSW63/MSW80/MSW100	Black/Gray	\$30	



Neutral Pole

Catalog Number	Disconnect Switch	Contact	List Price	Multiplier
MSW AP 25-P-1 NA	MSW25	1 NO early make	\$42	Z13
MSW AP 40-P-1 NA	MSW40	1 NO early make	\$42	
MSW AP 63-P-1 NA	MSW63	1 NO early make	\$49	
MSW AP 80-P-1 NA	MSW80	1 NO early make	\$49	



Auxiliary Contact

Catalog Number	Disconnect Switch	Contact	List Price	Multiplier
MSW AC-40 P 1NC	MSW25/MSW40	1NC	\$35	Z13
MSW AC-40 P 1NO	MSW25/MSW40	1NO	\$35	
MSW AC-80 P 1NC	MSW63/MSW80	1NC	\$37	
MSW AC-80 P 1NO	MSW63/MSW80	1NO	\$37	



Terminal Cover

Catalog Number	Disconnect Switch	Poles	List Price	Multiplier
MSW TS-40 P	MSW25/MSW40	3	\$14	Z13
MSW TS-80 B/P	MSW63/MSW80		\$28	
MSW TS-100 P ¹⁾	MSW100	2	\$70	

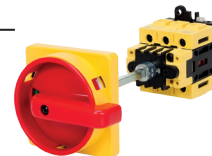


Note: 1) Necessary 2 pieces of MSW TS-100P to cover 3 poles.
Terminal cover to line or load side (1 piece supplied).

Disconnect Switch for Base Mounting (Screw or Din Rail)

Standard Configuration (Disconnect Switch + Handle Red/Yellow + Shaft)

Catalog Number	Ith (A)	Ie (A)			Shaft length (mm)	Poles	List Price	Multiplier
		AC21 (690 V)	AC22 (690 V)	AC23 (690 V)				
MSW 25 B-3 H	32	32	25	16	85	3	\$96	Z13
MSW 40 B-3 H	40	40	32	20	85		\$102	
MSW 63 B-3 H	63	63	63	26	85		\$156	
MSW 80 B-3 H	80	80	80	32	85		\$167	
MSW 125 B-3 H	125	125	125	80	300		\$352	
MSW 160 B-3 H	160	160	160	100	300		\$490	



Disconnect Switches and Accessories

Catalog Number	Ith (A)	Ie (A)			Poles	List Price	Multiplier
		AC21 (690 V)	AC22 (690 V)	AC23 (690 V)			
MSW 25 B-3	32	32	25	16	3	\$53	Z13
MSW 40 B-3	40	40	32	20		\$59	
MSW 63 B-3	63	63	63	26		\$112	
MSW 80 B-3	80	80	80	32		\$124	
MSW 125 B-3	125	125	125	80		\$286	
MSW 160 B-3	160	160	160	100		\$435	



Rotary Handle + Shaft

Catalog Number	Disconnect Switch	Color	Shaft (mm)	List Price	Multiplier
MSW H 40 B	MSW25/MSW40	Red/Yellow	85	\$42	Z13
MSW H 80 B	MSW63/MSW80	Red/Yellow	85	\$45	
MSW H 160 B	MSW125/MSW160	Red/Yellow	300	\$65	
MSW H 40-B-B	MSW25/MSW40	Black/Gray	85	\$42	
MSW H 80-B-B	MSW63/MSW80	Black/Gray	85	\$45	
MSW H 160-B-B	MSW125/MSW160	Black/Gray	300	\$65	



Shaft

Catalog Number	Disconnect Switch	Length (mm)	List Price	Multiplier
MSW HS 185-40	MSW25/MSW40	185	\$12	Z13
MSW HS 300-40	MSW25/MSW40	300	\$17	
MSW HS 185-160	MSW63/MSW80/ MSW125/MSW160	185	\$20	
MSW HS 300-160	MSW63/MSW80/ MSW125/MSW160	300	\$26	



Neutral Pole

Catalog Number	Disconnect Switch	Contact	List Price	Multiplier
MSW AP 25-B-1 NA	MSW25	1 NO early make	\$42	Z13
MSW AP 40-B-1 NA	MSW40	1 NO early make	\$42	
MSW AP 63-B-1 NA	MSW63	1 NO early make	\$49	
MSW AP 80-B-1 NA	MSW80	1 NO early make	\$49	
MSW AP 160-B-1 NA	MSW125 MSW160	1 NO early make	\$49	



Auxiliary Contact

Catalog Number	Disconnect Switch	Contact	List Price	Multiplier
MSW AC-40 B 1NC	MSW25/MSW40	1NC	\$35	Z13
MSW AC-40 B 1NO	MSW25/MSW40	1NO	\$35	
MSW AC-80 B 1NC	MSW63/MSW80	1NC	\$37	
MSW AC-80 B 1NO	MSW63/MSW80	1NO	\$37	
MSW AC-160 B 1NC	MSW125/MSW160	1NC	\$70	
MSW AC-160 B 1NO	MSW125/MSW160	1NO	\$70	



Terminal Cover

Catalog Number	Disconnect Switch	Poles	List Price	Multiplier
MSW TS-40 B	MSW25/MSW40	3	\$16	Z13
MSW TS-80 B/P	MSW63/MSW80		\$32	
MSW TS-160 B	MSW125/MSW160		\$78	



Note: Terminal cover to line or load side (1 piece supplied).

General Information

Circuit Protection

Disconnect Switches

Motor Protectors

Contactors

Overloads

Enclosed Starters

Electronic Relays

Pushbuttons and Pilot Lights

Terminal Blocks

Power Factor Correction

Appendix A

Appendix B

Appendix C

Disconnect Switches



MSW

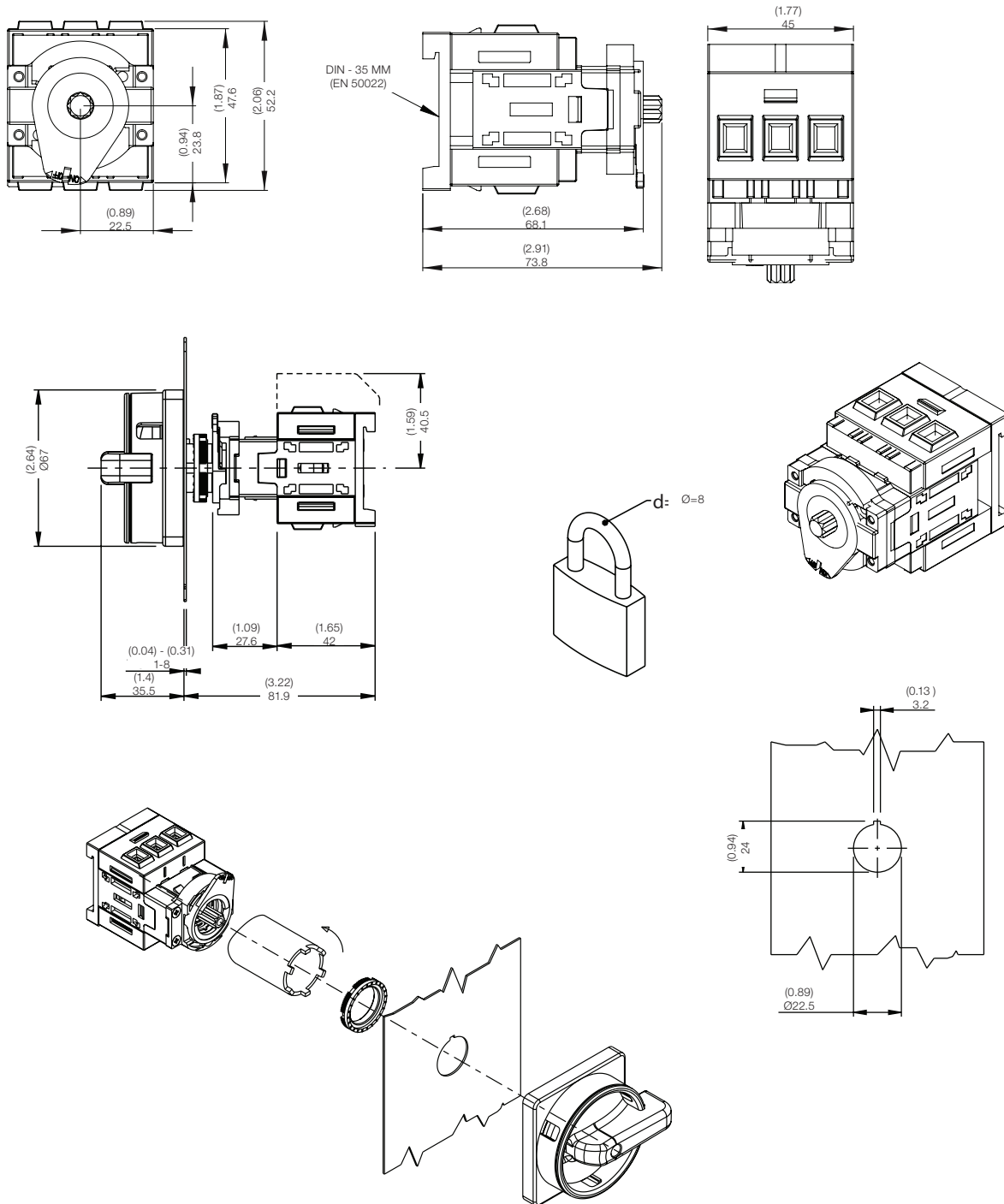
Technical Data

IEC 60947-3 characteristics			Units	MSW 25	MSW 40	MSW 63	MSW 80	MSW 100	MSW 125	MSW 160	Auxiliary contact	
Rated operating voltage U _e			V	690								
Rated insulation voltage U _i			V	690	690	690	690	690	800	800	690	
Rated impulse withstand voltage U _{imp} (sectionable)			kV	8	8	8	8	8	8	8	4	
Rated thermal current I _{th}			A	32	40	63	80	100	125	160	16	
Rated thermal current in enclosed I _{thg}			A	32	40	63	80	86	125	160	10	
Frequency			Hz	50/60								
Rated operating current I _n : alternate current												
AC-21A switching resistive loads			690 V	A	32	40	63	80	100	125	160	AC-15 240 V-5 A
AC-22A switching mixed resistive and inductive loads			500 V	A	-	-	-	-	100	125	160	DC-13 250 V-0.44 A
			690 V	A	25	32	63	80	86	125	160	-
AC-23A periodic switching of motors	3 phase 3 poles	230 V	A/kW	25/7.5	32/10	63/20	80/25	70/22	125/30	160/45	-	
		400 V	A/kW	25/15	32/18.5	50/28	75/42	67/37	125/55	160/75	-	
		500 V	A/kW	22/15	27/18.5	50/35	75/52	67/45	100/63	125/80	-	
		690 V	A/kW	16/15	20/18.5	26/25	32/31	38/37	80/75	100/90	-	
AC3 starting of cage motors (interruption while running)	3 phase 3 poles	230 V	A/kW	22/5.5	27/7.5	45/14	60/19	60/18.5	-	-	-	
		400 V	A/kW	22/11	27/15	40/22	55/30	55/30	-	-	-	
		500 V	A/kW	22/11	22/15	35/24	45/31	55/37	-	-	-	
		690 V	A/kW	16/11	16/15	22/21	25/24	32/30	-	-	-	
Rated interruption current AC-23A (cosφ 0.45)		230 V	A	200	256	360	600	560	-	-	-	
		400 V	A	200	256	320	536	536	1,000	1,280	-	
		500 V	A	176	216	280	536	536	-	-	-	
		690 V	A	128	160	176	256	304	800	800	-	
Short circuit characteristics												
Rated short-time short circuit withstand current I _{cw} (1s)			A	800	800	1,200	1,500	1,500	3,000	3,000	-	
Rated short circuit making capacity I _{cm}			A	1,500	1,500	2,200	2,800	2,840	4,500	4,500	-	
Conditional rated short circuit withstand current			kA	10	10	10/5	10/5	10	15	15	1	
Fuse rating gG	500 V	A	-	-	-	-	100	125	125	10		
	690 V	A	40	40	63/80	63/80	-	-	-	-		
UL 508 characteristics - UL File E189202												
General use		600 V ac	A	32	40	60	80	100	125	160	HD A600 ac Q600 dc	
Standard motors load	Single phase 2 poles	120 V ac	HP (FLA)	1.5 (20)	2 (24)	2	3	3 (34)	-	-	-	
		240 V ac	HP (FLA)	3 (17)	5 (28)	5	7.5	10 (50)	-	-	-	
	3 phase 3 poles	240 V ac	HP (FLA)	7.5 (22)	10 (28)	10	15	10 (28)	40 (104)	40 (104)	-	
		480 V ac	HP (FLA)	10 (14)	15 (21)	25	30	25 (34)	100 (124)	100 (124)	-	
		600 V ac	HP (FLA)	15 (17)	20 (22)	30	40	30 (32)	125 (125)	125 (125)	-	
General characteristics												
Protection degree	Handle	EN 60529/UL 50	IP65 / Type 1-4-4X-NEMA 4X								-	
	Terminals	EN 60529	IP20								-	
Material group	EN 60947-1	-	II					IIla	IIla	II		
Pollution grade	EN 60947-1	-	3									
Flammability	UL 94	-	V0									
Ambient temperature	Operation	°C	-25 +55									
	Storage	°C	-30 +70									
Climate withstand	IEC 68 part 2-3	-	Hot damp									
	IEC 68 part 2-30	-	Unsettled hot damp									
Switching force (3 poles)	-	-	0.8 Nm (7.1 lb.in.)		1 Nm (8.85 lb.in.)		1.5 Nm	2.6 (23 lb.in.)		-		
Connections	EN 60947-1	-	-		-			-	-	-		
Terminal block caliber	-	-	A6		A8			-	-	A2		
Terminal screw	-	-	M4		M5			M8	M8	M3.5		
Tightening torque	EN 60947-1	-	1.2 Nm		3 Nm			6 Nm	6 Nm	0.8 Nm		
	UL 508	-	10.6 lb.in. (1.2 Nm)		32 lb.in. (3.6 Nm)			53 lb.in. (6Nm)		7.1 lb.in.		
Main terminal capacity	-	mm ²	1.5-10		6-25			10-70	10-70	1-2.5		
Flexible conductors	-	AWG	12-8		10-2			3/0-6	3/0-6	18-12		
	-	mm ²	1.5-16		10-35			10-70	10-70	1-2.5		
Solid conductors	-	AWG	12-8		10-2			3/0-6	3/0-6	18-12		
Opening angles			90°								-	

Dimensions

Disconnect Switches for Panel Door Mounting

MSW25...40P-3



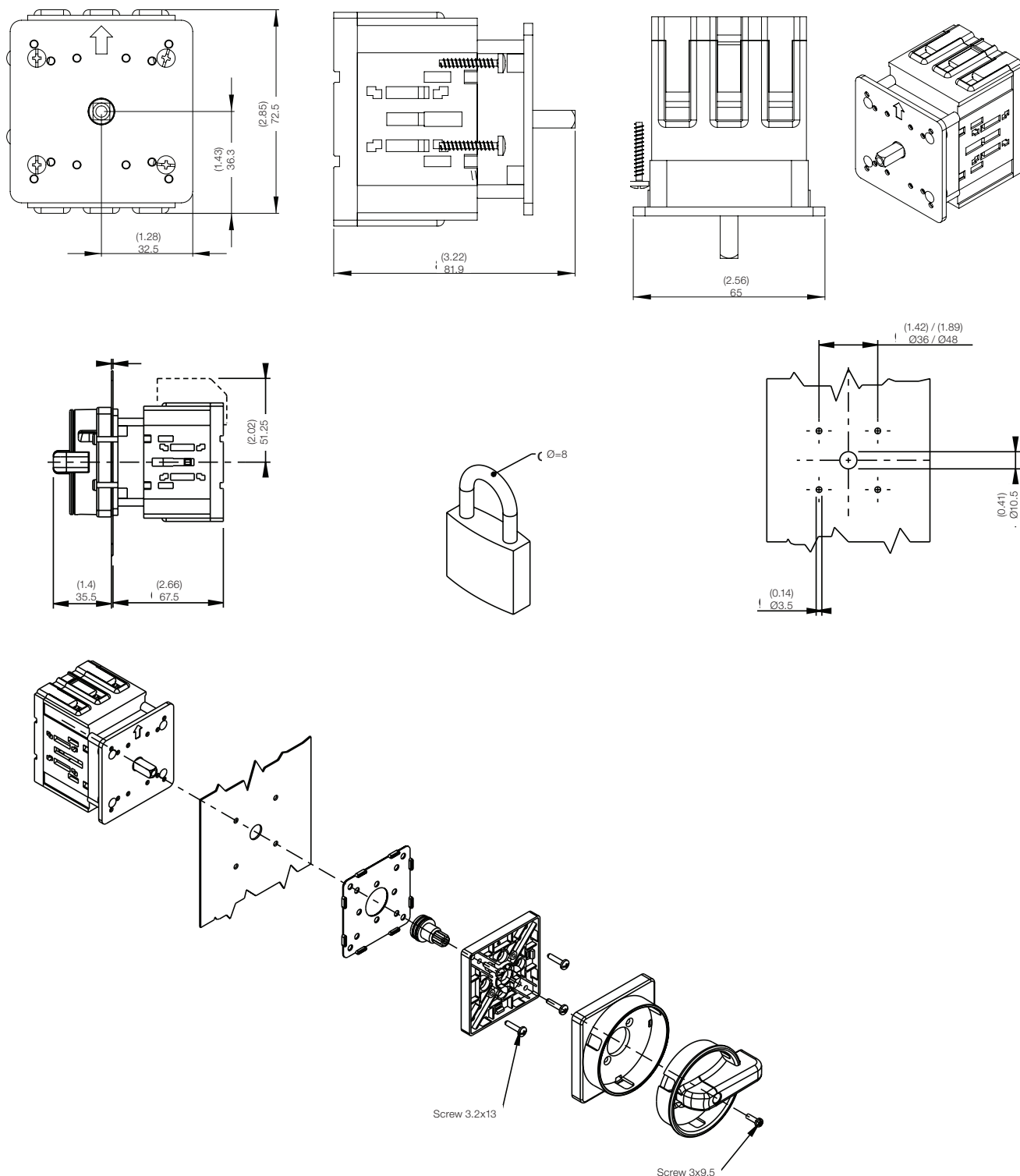
Note: Dimensions mm (in).

Disconnect Switches

MSW

Dimensions

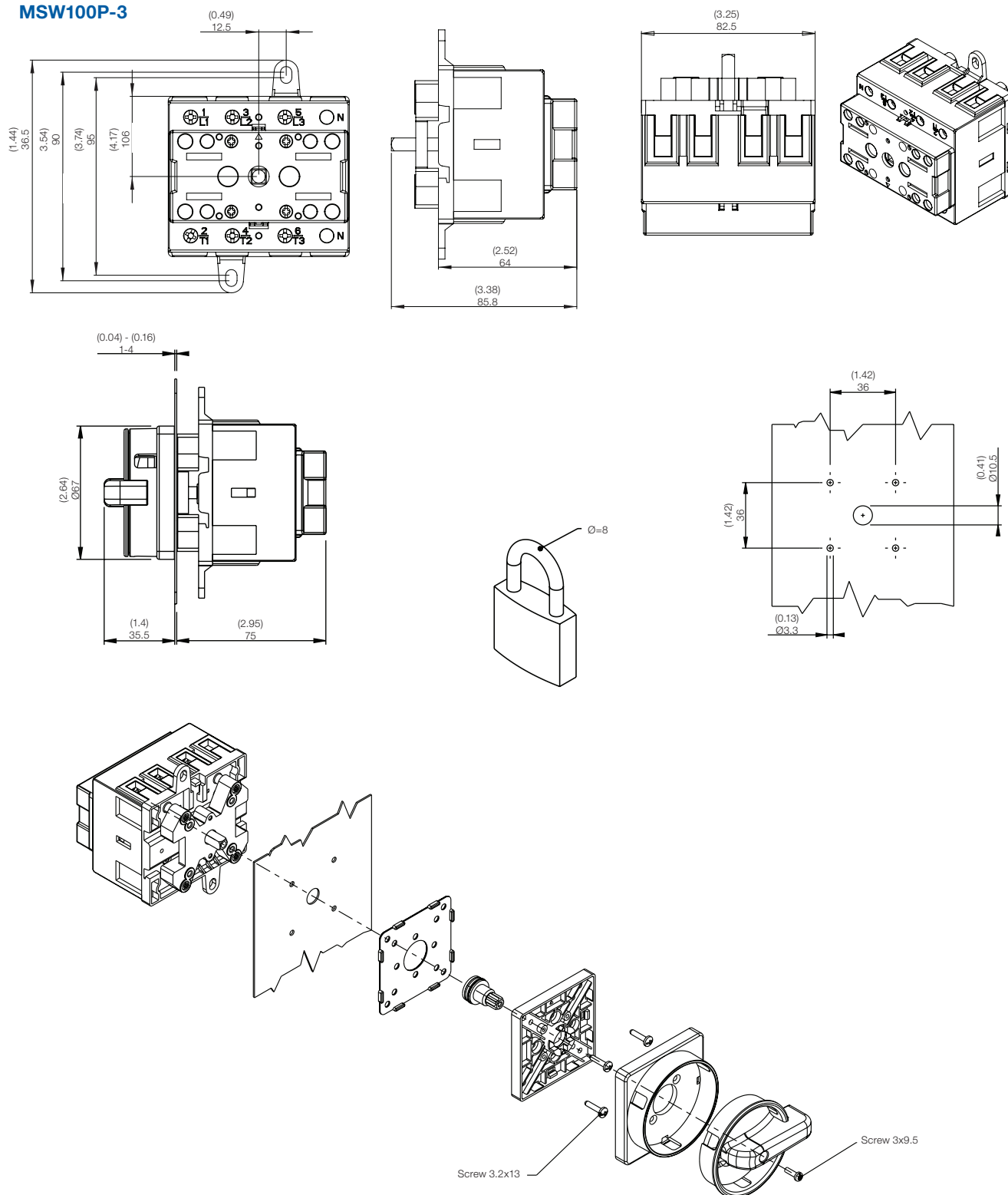
MSW63...80P-3



Note: Dimensions mm (in).

Dimensions

MSW100P-3



Note: Dimensions mm (in).

Disconnect Switches

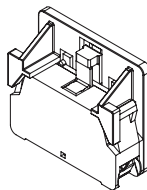
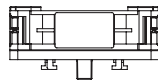
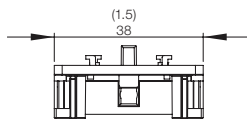


MSW

Dimensions

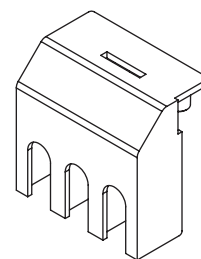
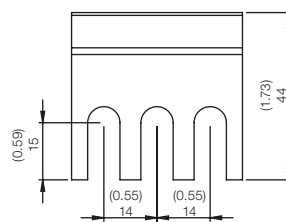
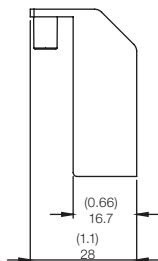
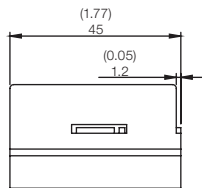
Auxiliary Contact

MSWAC-40...80P1NC / MSWAC-40...80P1NO

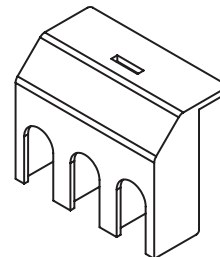
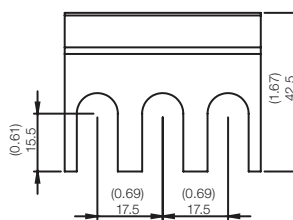
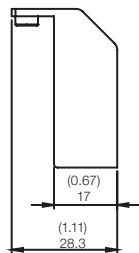
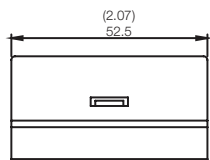


Terminal Cover

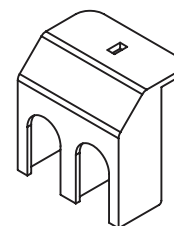
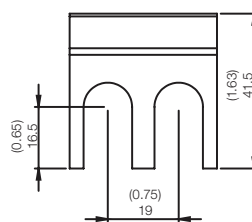
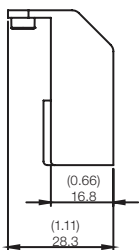
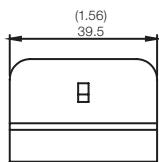
MSWTS-40P



MSWTS-80B-P



MSWTS-100P

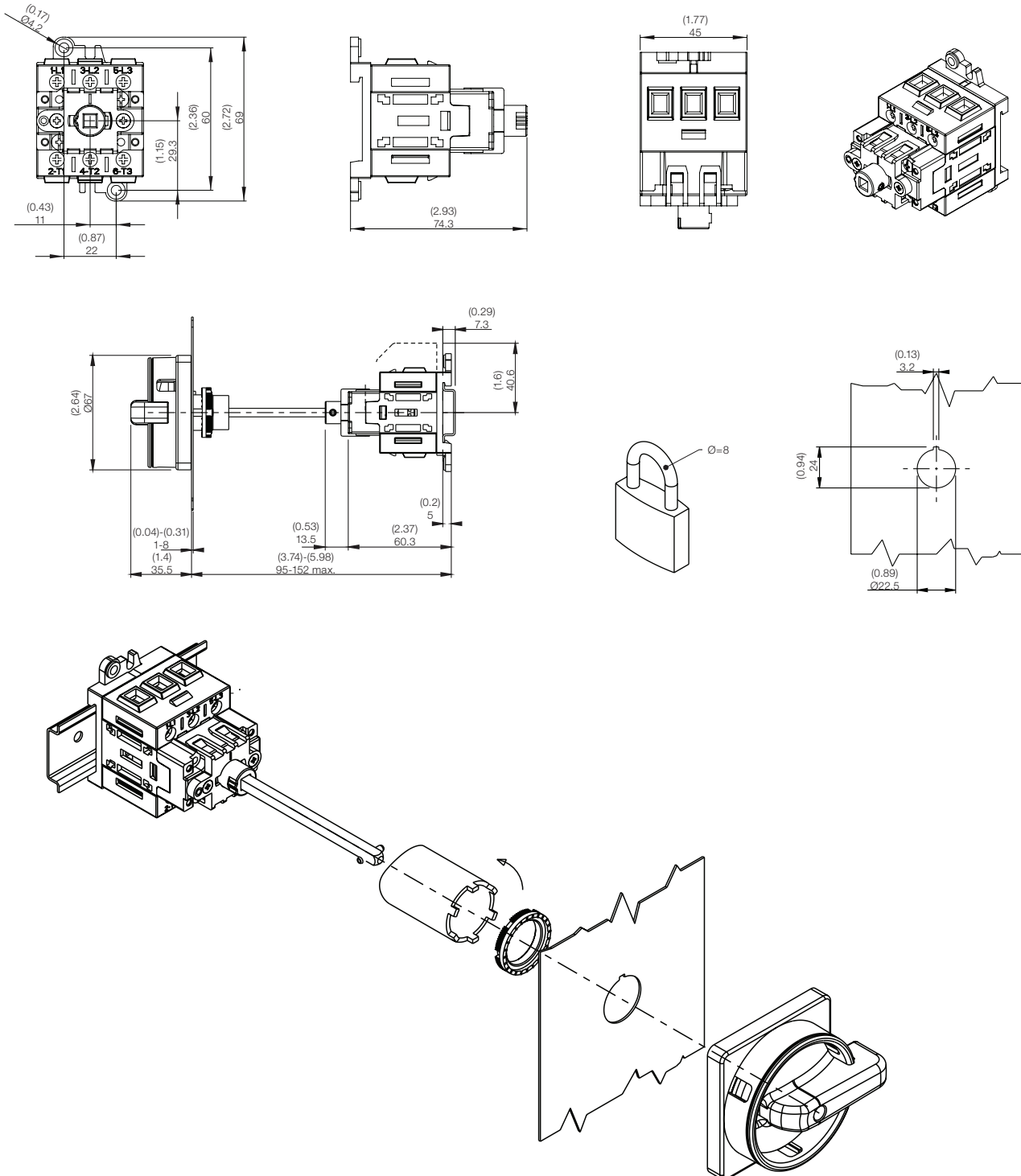


Note: Dimensions mm (in).

Dimensions

Disconnect Switches for Base Mounting

MSW25...40B-3



Note: Dimensions mm (in).

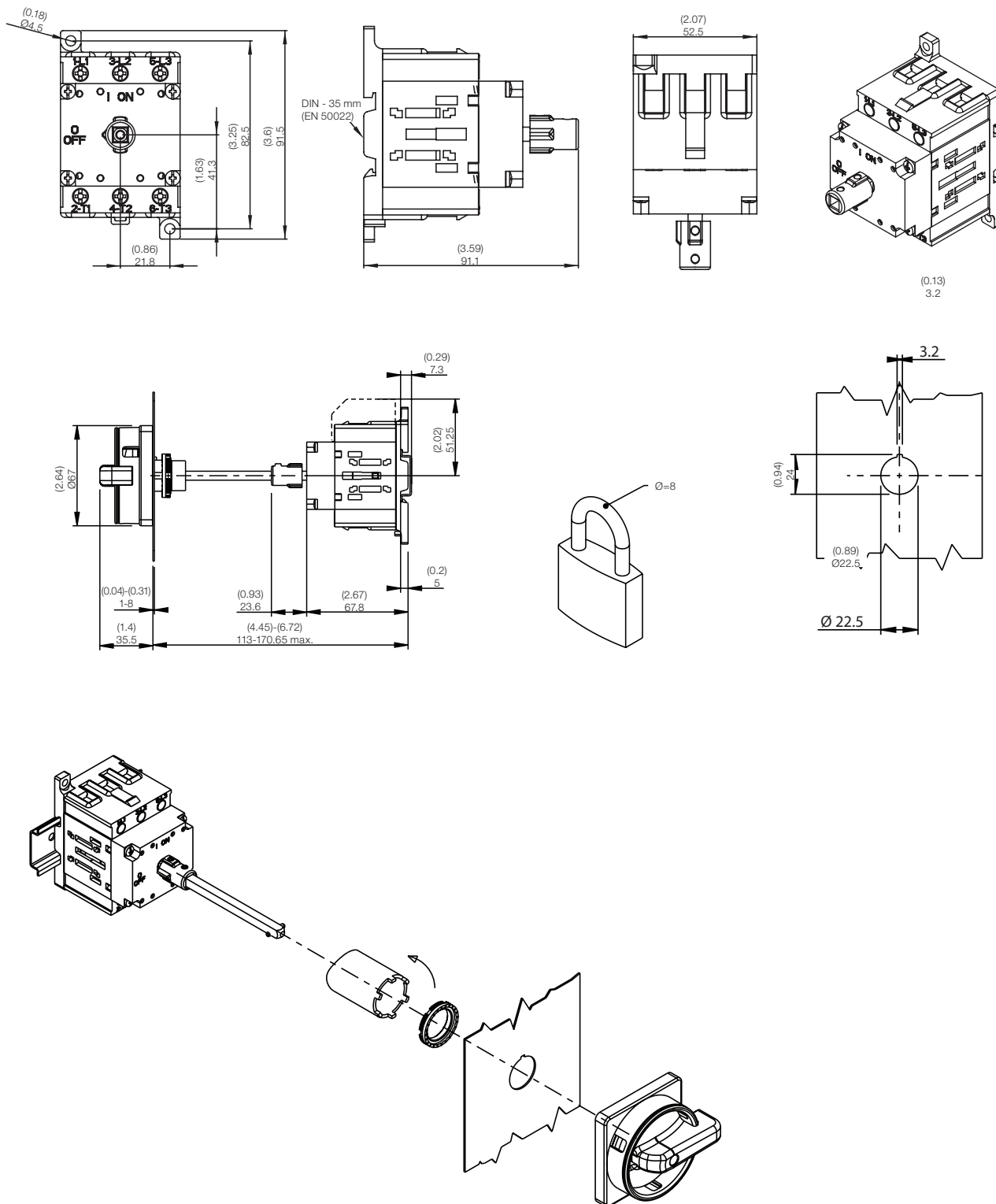
Disconnect Switches



MSW

Dimensions

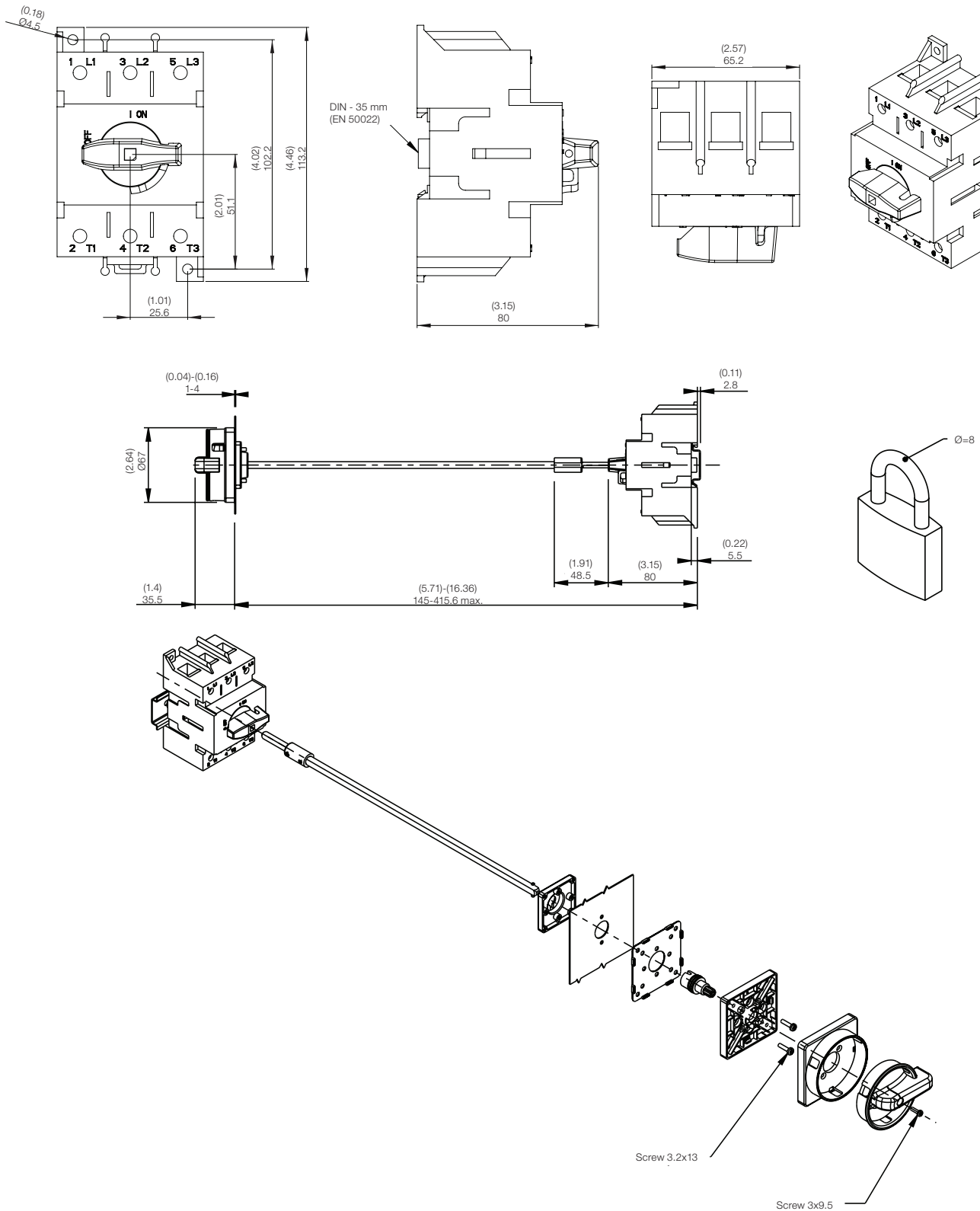
MSW63...80B-3



Note: Dimensions mm (in).

Dimensions

MSW125...160B-3



Note: Dimensions mm (in).

General Information

Circuit Protection

Disconnect Switches

Motor Protectors

Contactors

Overloads

Enclosed Starters

Electronic Relays

Pushbuttons and Pilot Lights

Terminal Blocks

Power Factor Correction

Appendix A

Appendix B

Appendix C

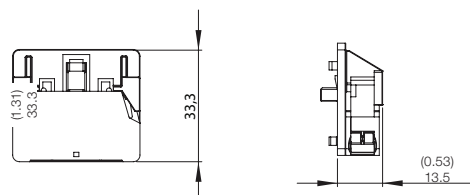
Disconnect Switches

MSW

Dimensions

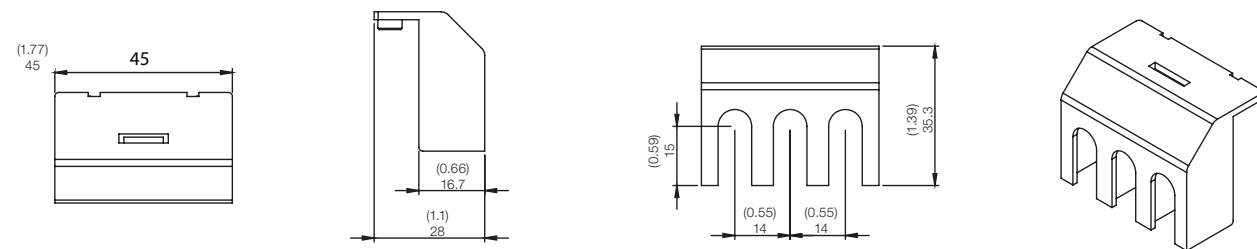
Auxiliary Contact

MSWAC-40...80B1NC / MSWAC-40...80B1NO

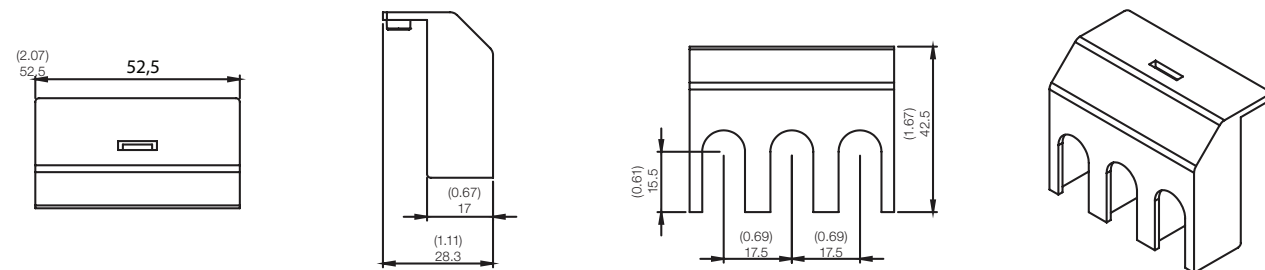


Terminal Cover

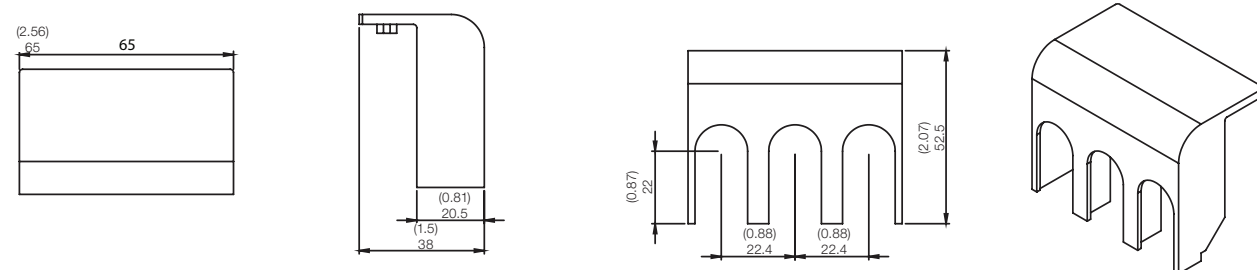
MSWTS-40B



MSWTS-80B-P



MSWTS-160B



Note: Dimensions mm (in).

MSWB

Introducing the WEG MSWB Series Enclosed Disconnect Switches, compact switching solutions for AC power applications. The MSWB was developed according to IEC 60947-3 and UL508. It is used for manually isolating or interrupting electrical circuits under load conditions. Often used as a means for secondary lock-out / tag-out scenarios. The switches are available in 3 poles up to 80A for resistive loads and up to 32A for inductive applications.

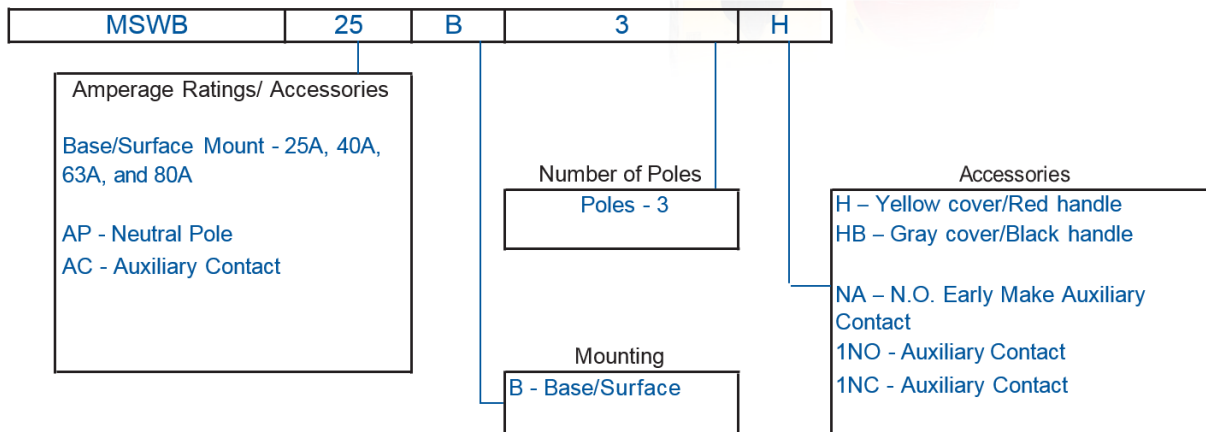


UL File No. E172121

Standard Features

- Suitable as Motor Disconnect
- Surface mounting
- Two color options:
 - Yellow cover with red handle
 - Gray cover with black handle
- Thermoplastic and robust Type 1, 4, 4X (IP65) enclosure with black enclosure base
- Protection ratings:
 - IP65 protection rating for handles allowing up to three padlocks in “OFF” position
 - IP20 protection rating for internal terminals
- Knock-outs for cable gland provides flexibility for cable entry/exit on the top, bottom, and rear of the box

MSWB Catalog Number Sequence



General Information
Circuit Protection
Disconnect Switches
Motor Protectors
Contactor
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Pushbuttons and Pilot Lights
Terminal Blocks
Power Factor Correction
Appendix A
Appendix B
Appendix C

Disconnect Switches



MSWB

Enclosed Disconnect Switches for Base/Surface

Disconnect Switches in Type 1, 4, 4X (IP65) Enclosure ¹⁾

Catalog Number	AC-21 UL508 General Use @600 VAC (FLA)	UL508 Motor Load			Mounting	Pole	Front Part Color	List Price	Multiplier
		HP (FLA)							
		240 VAC	480 VAC	600 VAC					
MSWB 25 B3 H	32	7.5 (22)	10 (14)	15 (17)	Surface	3	Yellow cover / Red handle	\$190	Z13
MSWB 40 B3 H	40	10 (28)	15 (21)	20 (22)				\$235	
MSWB 63 B3 H	63	10 (28)	25 (34)	30 (32)				\$340	
MSWB 80 B3 H	80	15 (42)	30 (40)	40 (41)				\$400	
MSWB 25 B3 HB	32	7.5 (22)	10 (14)	15 (17)			Gray cover / Black handle	\$190	
MSWB 40 B3 HB	40	10 (28)	15 (21)	20 (22)				\$235	
MSWB 63 B3 HB	63	10 (28)	25 (34)	30 (32)				\$340	
MSWB 80 B3 HB	80	15 (42)	30 (40)	40 (41)				\$400	

Note: 1) Black enclosure base.

Neutral Pole ^{2) 3)}

Catalog Number	Enclosed Disconnect Switch	Contact	List Price	Multiplier
MSW AP 25-B-1-NA	MSWB25	1 NO early make	\$42	Z13
MSW AP 40-B-1-NA	MSWB40	1 NO early make	\$42	
MSW AP 63-B-1-NA	MSWB63	1 NO early make	\$49	
MSW AP 80-B-1-NA	MSWB80	1 NO early make	\$49	

Notes: 2) The same neutral pole for the base-mount MSW disconnect switches.

3) Only one neutral pole per one enclosed disconnect switch and can be installed on either side

Auxiliary Contact ^{4) 5) 6)}

Catalog Number	Enclosed Disconnect Switch	Contact	List Price	Multiplier
MSW AC-40 B 1NC	MSWB25 / MSWB40	1NC	\$35	Z13
MSW AC-40 B 1NO	MSWB25 / MSWB40	1NO	\$35	
MSW AC-80 B 1NC	MSWB63 / MSWB80	1NC	\$37	
MSW AC-80 B 1NO	MSWB63 / MSWB80	1NO	\$37	

Notes: 4) Same as the base-mount MSW's auxiliary contact.

5) Direct side mounting on the disconnect switch.

6) Up to two auxiliary contacts can be installed per one enclosed disconnect switch (one contact block on each side of the disconnect switch).

Technical Data

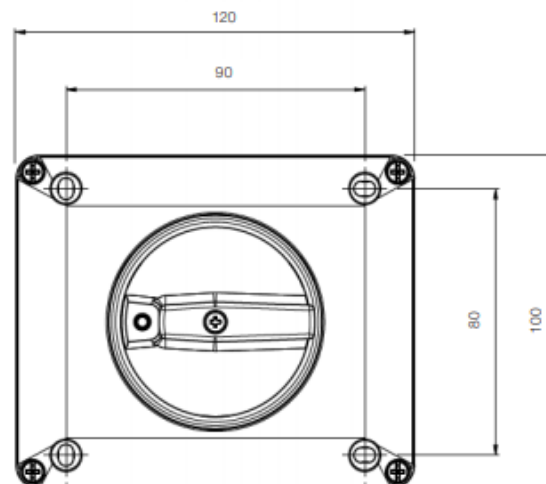
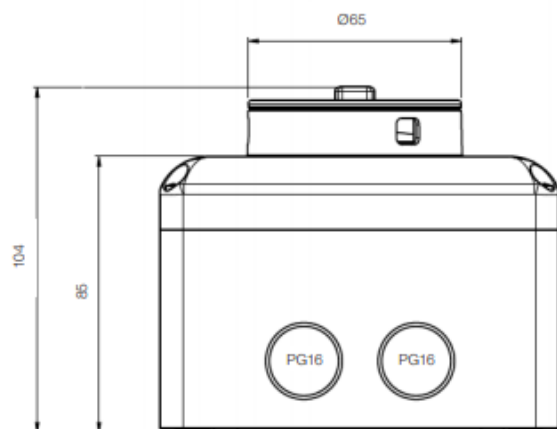
EN 60947-3 characteristics				MSW 25	MSW 40	MSW 63	MSW 80	Auxiliary contacts
				MSWB 25	MSWB 40	MSWB 63	MSWB 80	
Rated operating voltage Ue			V	690				
Rated insulation voltage Ui			V	690				
Rated impulse withstand voltage Uimp			kV	8	8	8	8	4
Rated thermal current Ith = Iu			A	32	40	63	80	16
Rated thermal current in enclosed Ithe			A	32	40	63	80	10
Frequency			Hz	50/60				
Rated operating current Ie: alternate current								
AC-21 A		690 V	A	32	40	63	80	AC-15 500 V - 4 A
AC-22 A		500 V	A	-	-	-	-	DC-13 250 V - 0.4 A
		690 V	A	25	32	63	80	-
AC-22 A	Three phase 3 poles	230 V	A/kW	25/7.5	32/10	63/20	80/25	-
		400 V	A/kW	25/15	32/18.5	50/28	75/42	-
		500 V	A/kW	25/15	32/22	50/35	75/52	-
		690 V	A/kW	16/15	20/18.5	26/25	32/31	-
AC-3	Single phase 2 poles	110 V	A/kW	-	-	-	-	-
		230 V	A/kW	-	-	-	-	-
	Three phase 3 poles	230 V	A/kW	22/5.5	27/7.5	45/14	60/19	-
		400 V	A/kW	22/11	27/15	40/22	60/30	-
		500 V	A/kW	22/11	27/18.5	35/24	45/31	-
		690 V	A/kW	16/11	20/15	22/21	25/24	-
Rated interruption current AC-23 A (cos-θ 0.45)		230 V	A	200	256	360	600	-
		400 V	A	200	256	360	536	-
		500 V	A	200	256	280	536	-
		690 V	A	128	160	176	256	-
Rated short-time short circuit withstand current - Icw (1s)			A	800	800	1,200	1,500	-
Short-circuit making capacity (peak value) - Icm			A	1,500	1,500	2,200	2,800	-
Conditional rated short circuit withstand current			kA	10	10	10	10	1
Fuse rating gG/gL		500 V	A	-	-	-	-	10
		690 V	A	40	40	63/80	63/80	-
UL 508 characteristics								
General use								HD
		600 V ac	A	32	40	60	80	A600 AC Q600 DC
Standard motors load	Single phase	120 V ac	HP (FLA)	1.5 (20)	2 (24)	2 (24)	3 (34)	-
	2 poles	240 V ac	HP (FLA)	3 (17)	5 (28)	5 (28)	7.5 (40)	-
	Three phase	240 V ac	HP (FLA)	7.5 (22)	10 (28)	10 (28)	15 (42)	-
	3 poles	480 V ac	HP (FLA)	10 (14)	15 (21)	25 (34)	30 (40)	-
		600 V ac	HP (FLA)	15 (17)	20 (22)	30 (32)	40 (41)	-
Protection degree		Handle	EN 60529	IP65 (TYPE 1 - 4 - 4X - NEMA 4X)				-
			(UL 50)					
		Terminals	EN 60529	IP20				
Material group		EN 60947-1			II			
Pollution grade		EN 60947-1			3			
Flammability		UL 94			V0			
Ambient temperature		Operation	°C	-25 + 55				
		Storage	°C	-30 + 70				
Switching force (3 poles)				0.8 Nm		1 Nm		-
				(7.1 lb.in.)		(8.85 lb.in.)		
Connection								
Terminal block caliber		EN 60947-1			A6		A8	A2
Terminal screw					M4		M5	
Tightening torque		EN 60947-1			1.2 Nm		3 Nm	0.8 Nm
		UL 508			7 lb.in		32 lb.in.	12 lb.in
					(0.8 Nm)		(3.6 Nm)	(1.3 Nm)
Connection cross-section								
Flexible conductors		mm2		1.5-10		6-25		1-2.5
		AWG		12-8		10-2		18-12
Solid conductors		mm2		1.5-10		10-25		1-2.5
		AWG		12-8		10-2		18-12
Opening angles				90°				-
Mechanical life 120 operations per hour mil/cl				100,000				1,500,000

Disconnect Switches

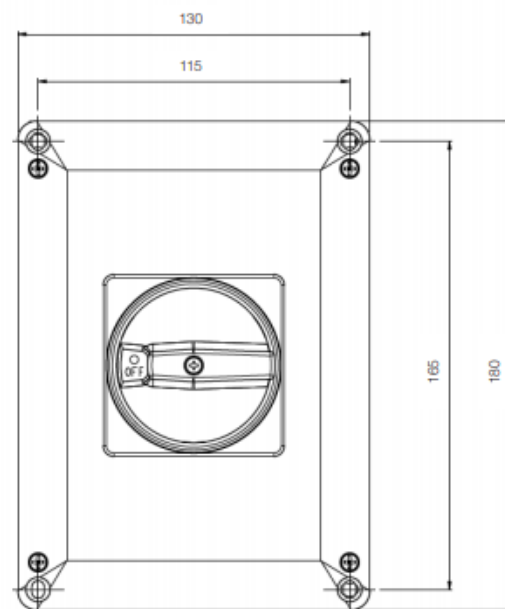
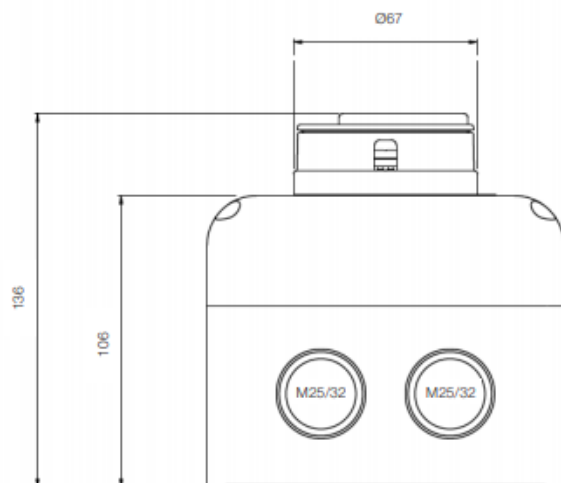
MSWB

Dimensions (mm)

MSWB 25 B3 / MSWB 40 B3



MSWB 63 B3 / MSWB 80 B3



General
Information

Circuit
Protection

Disconnect
Switches

Motor
Protectors

Contactors

Overloads

Enclosed
Starters

Electronic
Relays

Pushbuttons
and Pilot
Lights

Terminal
Blocks

Power
Factor
Correction

Appendix

A

Appendix

B

Appendix

C