

Disconnect Switches

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Series L7 Motor Disconnect Switches (to 315A)

UL508 approved device
“suitable as motor
disconnect”

TIP!



To learn the basic differences between control, load and fusible disconnect switches and how to apply them, ask your Sprecher + Schuh representative for publication no: Tech-LMSD

Sprecher + Schuh's L7 line incorporates the latest modular design techniques to provide maximum functionality with the fewest number of parts. These rugged switches are compact, reliable and the ideal choice for all disconnect applications including motor disconnects per UL-508 Part III. A device under this UL listing meets the requirements as a motor controller or “at motor disconnect.”

Just the right switch for your application

L7 Disconnect Switches are available in four frame sizes up to 100 amps (larger L7 Disconnects up to 315A can be found beginning on page L29). The smaller L7s come in six pole models, as well as three pole changeover switches. A full complement of switch handles and accessories including auxiliary contact blocks, ground and neutral terminals make the L7 line broad enough to tackle virtually any disconnect duty.

Meets the toughest safety standards

A generous 9mm gap between open contacts, combined with high short circuit withstand capabilities ensures a minimum probability of welding. All switches are touch safe to IP20, while most switch handles are rated for strong water jets to IP66. Excellent making and breaking characteristics provide a level of safety that, in many cases, exceeds international standards.



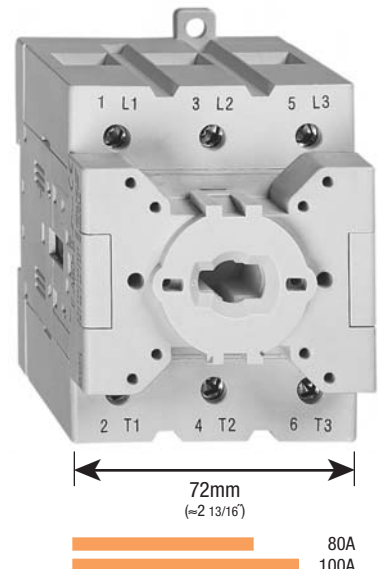
IEC 207
IEC 947-1
IEC 947-3

Modular, flexible and easy to assemble

The versatile L7 line is fully modular. All accessories snap-on and off without the use of tools, speeding assembly. The L7's modular design minimizes inventory with features such as universal auxiliary contact blocks... virtually every block fits all frame sizes. Both metal and plastic shaft extension systems are available to accommodate most panel depths.

International standards and approvals

L7 Motor Disconnect Switches are UL Listed (UL508, Part III) and CSA approved (C22.2 No. 14). They also carry the CE Mark and meet IEC 947-1, 947-3, as well as IEC 207 requirements. They are approved in virtually every international market.



Full range of enclosed disconnects for any job

From “do-it-yourself” to fully assembled, we offer a complete selection of three, four and six pole enclosed disconnects for any industrial application.

The most economical choice is to configure your own design (Figure 1) by selecting one of the non-UL/CSA

Approved ABS or Noryl enclosures from page L17 and completing it with your choice of L7 switch from pages L4...L7. These enclosed disconnects are suitable for use in NEMA 4 type applications (not UL Listed).

An assembled version of this enclosed disconnect is available with three or six poles from page L16 (Figure 2).

A broad selection of assembled UL Listed enclosed disconnects is available on pages L14 and L15. Painted metal, stainless steel and polyester-fiberglass enclosures with three, four and six pole disconnect switches are available with all accessories (Figure 3).

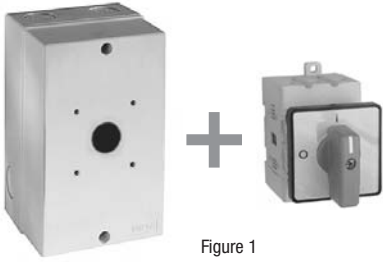


Figure 1



Figure 2



Figure 3

How to order L7 motor disconnect switches

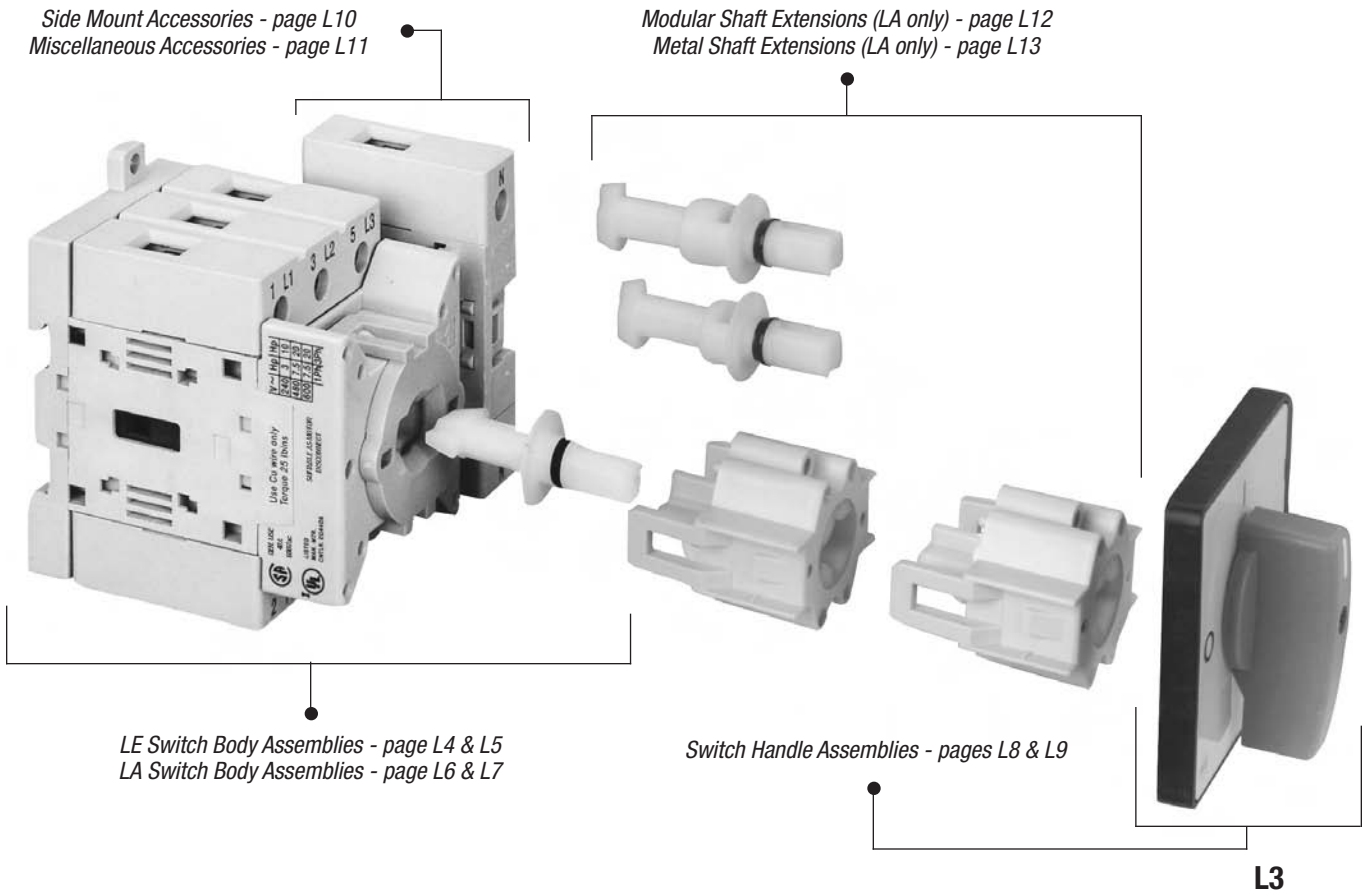
A complete L7 Motor Disconnect Switch is ordered with as little as two catalog numbers. The first number specifies the switch body and the second specifies the switch handle assembly. All L7 switch bodies come

standard with a shaft and mounting screws for the switch handle assembly. Accessories such as shaft extensions and auxiliary contact blocks are ordered separately.

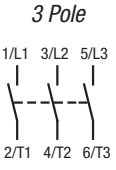

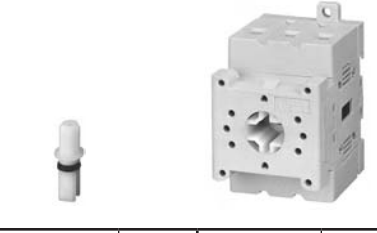

First determine the switch you need from pages L4...L7. Then turn to page L8 and L9 to choose a switch handle assembly.

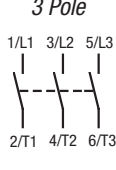
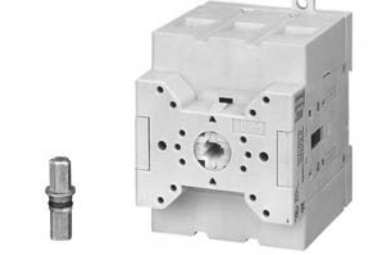

If necessary, see page L12 and L13 to determine the type and length of shaft extension you require.

Auxiliary contact blocks, fourth poles, ground terminals and neutral terminals are found on page L10.



Front Mounted 3 Pole Switches - 90° Throw ①

										
	Catalog Number	Price	Catalog Number	Price	Catalog Number	Price				
3 Pole	LE7-16-1753	45.70	LE7-25-1753	56.60	LE7-32-1753	71.80	LE7-40-1753	96.60	LE7-63-1753	114.20
Amp Rating (encl.)										
UL/CSA	16		25		32		40		63	
IEC/VDE/BS	16		25		32		40		63	
3∅ Horsepower										
240V	3		5		7.5		10		15	
480V	7.5		10		15		20		25	
600V	10		10		15		20		25	
1∅ Horsepower										
120V	1		1		1		2		3	
240V	2		2		3		3		5	
Dimension - mm (inches)	63 (2-31/64) - Height 36 (1-27/64) - Width 51 (2-1/64) - Depth ②		63 (2-31/64) - Height 45 (1-49/64) - Width 60 (2-23/64) - Depth ②		72 (2-55/64) - Height 54 (2-1/8) - Width 74 (2-29/32) - Depth ②					

				
	Catalog Num.	Price	Catalog Num.	Price
3 Pole	LE7-80-1753	154.00	LE7-100-1753	196.43
Amp Rating (encl.)				
UL/CSA	80		100	
IEC/VDE/BS	80		100	
3∅ Horsepower				
240V	25		30	
480V	40		50	
600V	50		50	
1∅ Horsepower				
120V	5		7.5	
240V	10		15	
Dimension - mm (inches)	90 (3-35/64) - Height 72 (2-27/32) - Width 90 (3-35/64) - Depth ②			

NOTE: Larger amp L7 Disconnect Switches can be found beginning on page L29.

① Fourth pole side-mounted module available. See page L10.
② Dimension without shaft.

Front Mounted 3 Pole Changeover Switches and 6 Pole Switches - 90° Throw ①

<p><i>Changeover</i> (Center OFF)</p> <p><i>6 Pole</i></p>										
	Catalog Number	Price	Catalog Number	Price	Catalog Number	Price	Catalog Number	Price	Catalog Number	Price
Changeover	LE7-16-3753	83.10	LE7-25-3753	138.80	LE7-32-3753	169.60	LE7-40-3753	216.80	LE7-63-3753	254.00
6 Pole	LE7-16-1756	80.40	LE7-25-1756	138.80	LE7-32-1756	169.60	LE7-40-1756	216.80	LE7-63-1756	254.00
Amp Rating (encl.)										
UL/CSA	16		25		32		40		63	
IEC/VDE/BS	16		25		32		40		63	
3∅ Horsepower										
240V	3		10		7.5		10		15	
480V	7.5		20		15		20		25	
600V	10		20		15		20		25	
1∅ Horsepower										
120V	1		1		1		2		3	
240V	2		2		1		3		5	
Dimension - mm (inches)	63 (2-31/64) - Height 90 (3-35/64) - Width 76 (3) - Depth ②		63 (2-31/64) - Height 90 (3-35/64) - Width 85 (3-11/32) - Depth ②		72 (2-55/64) - Height 108 (4-1/4) - Width 99 (3-57/64) - Depth ②					

<p><i>Changeover</i> (Center OFF)</p> <p><i>6 Pole</i></p>				
	Catalog Number	Price	Catalog Number	Price
Changeover	LE7-80-3753	344.00	L	428.80
6 Pole	LE7-80-1756	344.00	L	428.80
Amp Rating (encl.)				
UL/CSA	80		100	
IEC/VDE/BS	80		100	
3∅ Horsepower				
240V	25		30	
480V	40		50	
600V	50		50	
1∅ Horsepower				
120V	5		7.5	
240V	10		15	
Dimension - mm (inches)	90 (3-35/64) - Height 144 (5-43/64) - Width 115 (4-17/32) - Depth ②			

① 3 Pole Changeover Switch has center OFF —
 ② Dimension without shaft.

Sold by AA Electric 1-800-237-8274 Lakeland, FL • Lawrenceville, GA • Greensboro, NC • East Rutherford, NJ www.AAelectric.com

Disconnect Switches L7

Base Mounted 3 Pole Switches - 90° Throw ①

	Catalog Number	Price	Catalog Num.	Price	Catalog Num.	Price	Catalog Num.	Price	Catalog Num.	Price
3 Pole	LA7-16-1753	61.00	LA7-25-1753	74.80	LA7-32-1753	91.00	LA7-40-1753	116.40	LA7-63-1753	145.00
Amp Rating (encl.)	16		25		32		40		63	
UL/CSA	16		25		32		40		63	
IEC/VDE/BS	16		25		32		40		63	
3∅ Horsepower	3		5		7.5		10		15	
240V	3		5		7.5		10		15	
480V	7.5		10		15		20		25	
600V	10		10		15		20		25	
1∅ Horsepower	1		1		1		2		3	
120V	1		1		1		2		3	
240V	2		2		3		3		5	
Dimension - mm (inches)	63 (2-31/64) - Height 36 (1-27/64) - Width 51 (2-1/64) - Depth ②		63 (2-31/64) - Height 45 (1-49/64) - Width 60 (2-23/64) - Depth ②		72 (2-55/64) - Height 54 (2-1/8) - Width 74 (2-29/32) - Depth ②					

	Catalog Num.	Price	Catalog Num.	Price
3 Pole	LA7-80-1753	171.00	LA7-100-1753	214.80
Amp Rating (encl.)	80		100	
UL/CSA	80		100	
IEC/VDE/BS	80		100	
3∅ Horsepower	25		30	
240V	25		30	
480V	40		50	
600V	50		50	
1∅ Horsepower	5		7.5	
120V	5		7.5	
240V	10		15	
Dimension - mm (inches)	90 (3-35/64) - Height 72 (2-27/32) - Width 90 (3-35/64) - Depth ②			

NOTE: Larger amp L7 Disconnect Switches can be found beginning on page L29.

① Fourth pole side-mounted module available. See page L10.
② Dimension without shaft.

Base Mounted 3 Pole Changeover and 6 Pole Switches - 90° Throw ①






Changeover (Center OFF)		6 Pole		3 Pole Changeover		6 Pole		3 Pole Changeover		6 Pole	
Changeover	6 Pole	Catalog Number	Price	Catalog Number	Price	Catalog Number	Price	Catalog Number	Price	Catalog Number	Price
Changeover	6 Pole	LA7-16-3753	113.60	LA7-25-3753	175.20	LA7-32-3753	207.60	LA7-40-3753	258.40	LA7-63-3753	315.60
6 Pole		LA7-16-1756	106.70	LA7-25-1756	175.20	LA7-32-1756	207.60	LA7-40-1756	258.40	LA7-63-1756	315.60
Amp Rating (encl.)											
UL/CSA	16			25		32		40		63	
IEC/VDE/BS	16			25		32		40		63	
3∅ Horsepower											
240V	3			5		7.5		10		15	
480V	7.5			10		15		20		25	
600V	10			10		15		20		25	
1∅ Horsepower											
120V	1			1		1		2		3	
240V	2			2		3		3		5	
Dimension - mm (inches)		63 (2-31/64) - Height 90 (3-35/64) - Width 85 (3-11/32) - Depth ②		63 (2-31/64) - Height 90 (3-35/64) - Width 89 (3-1/2) - Depth ②		72 (2-55/64) - Height 108 (4-1/4) - Width 103 (4-1/16) - Depth ②					

Changeover (Center OFF)		6 Pole		3 Pole Changeover		6 Pole	
Changeover	6 Pole	Catalog Num.	Price	Catalog Num.	Price	Catalog Num.	Price
Changeover	6 Pole	LA7-80-3753	378.00	LA7-100-3753	465.60	LA7-80-1756	378.00
6 Pole		LA7-80-1756	378.00	LA7-100-1756	465.60		
Amp Rating (encl.)							
UL/CSA	80			100			
IEC/VDE/BS	80			100			
3∅ Horsepower							
240V	25			30			
480V	40			50			
600V	50			50			
1∅ Horsepower							
120V	5			7.5			
240V	10			15			
Dimension - mm (inches)		90 (3-35/64) - Height 144 (5-43/64) - Width 119 (4-17/32) - Depth ②					

① 3 Pole Changeover Switch has center OFF –

② Dimension without shaft.

Switch Handle Assemblies (LA and LE Switches)

Switch Handle Assembly ❶	Color	Mounting Method	Protection Rating	For use with...	Frame Size	Legend ❷	Catalog Number	Price
 Type A	Silver Legend ❷ Black Knob	Screw Fixing ❶	IP66	LA/LE7-16...63A	48 X 48	0-I OFF-ON	LFS2-A-4-175 LFS2-A-4-175I	7.60
			IP66	LA/LE7-25...100A ❸	64 X 64	0-I OFF-ON 1-0-2 ❹	LFS2-A-6-175 LFS2-A-6-175I LFS2-A-6-375	9.60
			IP66	LA/LE7-40...100A	88 X 88	0-I OFF-ON 1-0-2 ❹	LFS2-A-8-175 LFS2-A-8-175I LFS2-A-8-375	44.00
		Central Nut	IP66	LE7-16...63A	48 X 48	0-I OFF-ON	LFC2-A-4-175 LFC2-A-4-175I	10.60
 Type E	Silver Legend ❷ Black Knob ❸	Screw Fixing ❶	IP66	LA/LE7-16...63A	48 X 48	0-I OFF-ON	LFS2-E-4-175 LFC2-A-4-175I	11.40
			IP66	LA/LE7-25...100A ❸	64 X 64	0-I OFF-ON 1-0-2 ❹	LFS2-E-6-175 LFS2-E-6-175I LFS2-E-6-375	13.40
		Central Nut	IP66	LE7-16...63A	48 X 48	0-I OFF-ON	LFC2-E-4-175 LFC2-E-4-175I	16.60
 Type I	Yellow Legend ❷ Red Knob	Screw Fixing ❶	IP66	LA/LE7-16...63A	48 X 48	0-I OFF-ON	LFS2-I-4-175 LFS2-I-4-175I	7.60
			IP66	LA/LE7-25...100A ❸	64 X 64	0-I OFF-ON 1-0-2 ❹	LFS2-I-6-175 LFS2-I-6-175I LFS2-I-6-375	9.60
			IP66	LA/LE7-40...100A	88 X 88	0-I OFF-ON 1-0-2 ❹	LFS2-I-8-175 LFS2-I-8-175I LFS2-I-8-375	44.00
		Central Nut	IP66	LE7-16...63A	48 X 48	0-I OFF-ON	LFC2-I-4-175 LFC2-I-4-175I	10.60
 Type L	Yellow Legend ❷ Red Knob ❸	Screw Fixing ❶	IP66	LA/LE7-16...63A	48 X 48	0-I OFF-ON	LFS2-L-4-175 LFS2-L-4-175I	11.40
			IP66	LA/LE7-25...100A ❸	64 X 64	0-I OFF-ON	LFS2-L-6-175 LFS2-L-6-175I	13.40
		Central Nut	IP66	LE7-16...63A	48 X 48	0-I OFF-ON	LFC2-L-4-175 LFC2-L-4-175I	16.60
 Type S	Silver Legend ❷ Black Knob	Screw Fixing ❶	IP66	LA/LE7-25...63A	48 X 62	0-I OFF-ON	LFS2-4-175 LFS2-4-175I	10.40
			IP66	LA/LE7-25...100A	64 X 78	0-I OFF-ON 1-0-2 ❹	LFS2-S-6-175 LFS2-S-6-175I LFS2-S-6-375	13.20

❶ Mounting screws included with Switch Body Assembly.





❷ For blank legend plate, substitute "000" for last three digits in catalog number.
Example: LFS2-A-4-000.

❸ Lockable in OFF position, ON position or both.

❹ Only for use with 3 Pole Changeover switch.

❺ Only for use with LA/LE7-25...63 three pole Changeover Switches. Use 88 x 88 Switch Handle for 80 and 100A Changeover Switch.

Switch Handle Assemblies (LA and LE Switches)

Switch Handle Assembly ❶	Color	Mounting Method	Protection Rating	For use with...	Frame Size	Legend ❷	Catalog Number	Price
 <p>Type G</p>	Gray Frame Black Handle ❷	Screw Fixing ❶	IP66	LA/LE7-16	54 x 54	0 — I OFF — ON	LFS7-G-4-175	16.70
			IP66	LA/LE7-16...100A	67 x 67	0 — I OFF — ON	LFS2-G-6-175	19.20
			IP66 Type 3/3R/12	LA/LE7-40...100A	90 x 90	0 — I OFF — ON	LFS2-G-8-175	62.00
		Central Nut	IP66	LE7-16...63A	67 x 67	0 — I OFF — ON	LFC2-G-6-175	28.00
 <p>Type N</p>	Yellow Frame Red Handle ❷	Screw Fixing ❶	IP66	LA/LE7-16	54 x 54	0 — I OFF — ON	LFS7-N-4-175	16.70
			IP66	LA/LE7-16...100A	67 x 67	0 — I OFF — ON	LFS2-N-6-175	19.20
			IP66 Type 3/3R/12	LA/LE7-40...100A	90 x 90	0 — I OFF — ON	LFS2-N-8-175	62.00
		Central Nut	IP66	LE7-16...63A	67x67	0 — I OFF — ON	LFC2-N-6-175	28.00
 <p>Type R</p>	Yellow Frame Red Handle - With Defeater	Screw Fixing ❶	Type 4X IP66	LA7-16...100A	76 x 76	OFF - ON	L10-HS4E ❸	49.10
 <p>Type R</p>	Black Frame Black Handle With Defeater	Screw Fixing ❶	Type 4X IP66	LA7-16...100A	76 x 76	OFF - ON	L10-HS4 ❸	49.10

Special OEM Packaging Available

A selection of switches and operators is available for purchase as a “kit” in a single carton with one catalog number. Switches, operators and accessories are also available in bulk packaging. Contact your Sprecher + Schuh representative for more information.

- ❶ Mounting screws included with Switch Body Assembly.
- ❷ Lockable in OFF position with up to 3 padlocks.
- ❸ For LA base mount switches only. Requires R-type Switch Handle Shaft Extension. See page L13.

Auxiliary Contact Blocks

Aux. Contact Block	Contact C	For use with...	Catalog Number	Price
One NO (Early Break) ①				
		LE7-16 LE7-25...100	LE7-16-P-D10 LE7-P-D10	34.70 29.40
		LA7-16 LA7-25...100	LA7-16-P-D10 LA7-P-D10	34.70 29.40
One NO and One NC (Instantaneous)				
		LE7-16...100	LE7-P-11	41.80
		LA7-16...100	LA7-P-11	41.80
One NOEM and One NCLB (Make Before Break)				
		LE7-16...100	LE7-PL-11	41.80
		LA7-16...100	LA7-PL-11	41.80
Two NO and Two NC (Instantaneous)				
		LE7-16...100	LE7-P-22	83.60
		LA7-16...100	LA7-P-22	83.60

Fourth Pole

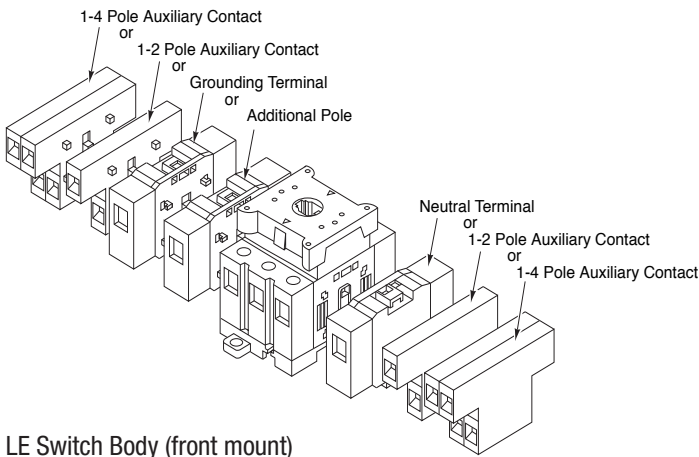
Fourth Pole C	Contact	For use with...	Catalog Number	Price
Early Make-Late Break				
		LE7-16	LE7-16-NP	27.70
		LE7-25	LE7-25-NP	29.40
		LE7-32	LE7-32-NP	35.20
		LE7-40	LE7-40-NP	42.20
		LE7-63	LE7-63-NP	50.00
		LE7-80	LE7-80-NP	53.60
		LE7-100	LE7-100-NP	72.20
		LA7-16	LA7-16-NP	27.70
		LA7-25	LA7-25-NP	29.40
		LA7-32	LA7-32-NP	35.20
LA7-40	LA7-40-NP	42.20		
LA7-63	LA7-63-NP	50.00		
LA7-80	LA7-80-NP	53.60		
LA7-100	LA7-100-NP	72.20		

Ground & Neutral Terminals

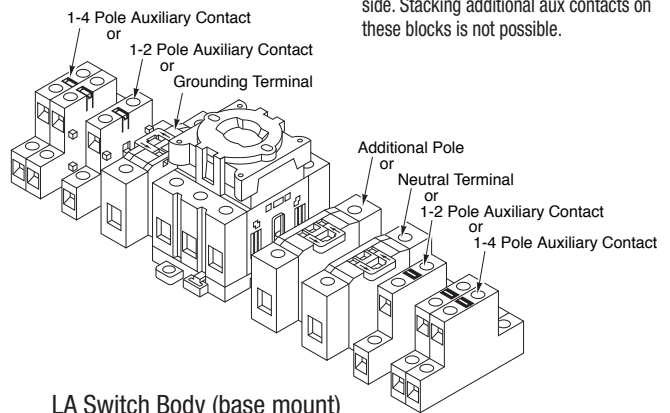
Terminal	Contact C	For use with...	Catalog Number	Price
Ground Terminal				
		LA7-16	LA7-16-PE	16.70
		LA7-25 & 32	LA7-32-PE	18.40
		LA7-40 & 63	LA7-63-PE	24.80
		LA7-80 & 100	LA7-100-PE	32.00
		LE7-16	LE7-16-PE	16.70
		LE7-25 & 32	LE7-32-PE	18.40
LE7-40 & 63	LE7-63-PE	24.80		
LE7-80 & 100	LE7-100-PE	32.00		
Neutral Terminal				
		LA7-16	LA7-16-TN	16.70
		LA7-25 & 32	LA7-32-TN	18.40
		LA7-40 & 63	LA7-63-TN	24.80
		LA7-80 & 100	LA7-100-TN	32.00
		LE7-16	LE7-16-TN	16.70
		LE7-20 & 32	LE7-32-TN	18.40
LE7-40 & 63	LE7-63-TN	24.80		
LE7-80 & 100	LE7-100-TN	32.00		

Accessory Mounting Guide

Various accessories can be mounted simultaneously on both the LA7 (base mount) and LE7 (front mount) switch bodies. The drawings below illustrate which combinations are possible.








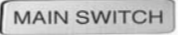
LE Switch Body (front mount)



LA Switch Body (base mount)

① All N.O. Early Break Contact Blocks mount on the left and/or right side by themselves, or with -NP, -PE, -TN aux on the opposite side. Stacking additional aux contacts on these blocks is not possible.

L7 Switch Accessories

Accessory	Description	Catalog Number	Price
	End Shaft - for LE switch ② (one 44mm shaft supplied standard with all switches) Plastic Metal	L2-G3380	4.60
		L7-G3688 ①	5.40
	Terminal cover - 3 pole LE/LA7-16 LE/LA7-25/32 LE/LA7-40/63 LE/LA7-80/100	L7-16-C3	8.40
		L7-25-C3	6.80
		L7-40-C3	8.60
		C7-80-C3	11.20
	Terminal cover - 4 pole LE/LA7-25/32 LE/LA7-40/63 LE/LA7-80/100	L7-25-C4	8.60
		L7-40-C4	11.40
		L7-80-C4	14.40
	6 Pole Mechanical Coupling - joins two L7 switches (front or base mount) to form a 6 pole switch (includes 44 mm metal End Shafts for both LE and LA switch) LE7-16 LE/LA7-25 & 32 LE/LA7-40 & 63 LE/LA7-80 & 100	L7-G3821 ②	25.60
		L7-G3660 ②	25.60
		L7-G3661 ②	25.60
		L7-G3662 ②	36.00
	Snap-on Nameplate & Holder Snaps on to switch handle frames of the following sizes: For 48x48, 64x64 & 67x67 For 88x88, 90x90	L2-G3667	6.20
		L7-G3515	17.20
	Nameplate for Snap-on Holder fits cat. # L2-G3667 & L2-G3515 For L2-G3667 "Main Switch" "Emergency Off" For L2-L2-G3515 "Main Switch" "Emergency Off"	L2-G3667A	4.00
		L2-G3667H	4.00
		L2-G3515A	10.80
		L2-G3515H	10.80

① LE7-80...100 3-pole switches and LA7-25...100 6-pole switches come standard with a 44mm **metal** End Shaft. LE7-16...63 3-pole switches and LA7-16-xxxx 6-pole switches come standard with a 44mm **plastic** End Shaft.

② When using mechanical coupler to join two LE7 or LA7 three pole switches, terminal markings will be:

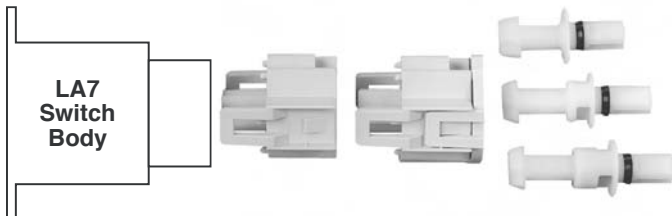


To obtain terminal markings order six pole switch from pages L5 and L7.



Modular shaft extension system

Shaft Extension Modules are ideal for lengthening the shaft of an LA7 switch up to 144mm (≈5.5”). These rugged polycarbonate modules are 24mm (≈15/16”) long and snap on “piggyback” to one another without the use of tools. Strong center shafts interlock as each module is snapped together. The standard 44mm End Shaft supplied with every LA7 switch connects the last Extension Module with the Switch Handle Assembly. End Shafts of 52 and 57mm are also available, making this modular system versatile, fast and economical. Shaft Extension Modules are supplied two per package.

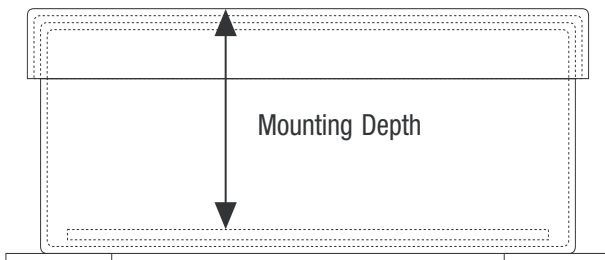


Modular Shaft Extension Components ③

Component	Description	Catalog Number	Price
	44mm End Shaft - one 44mm shaft supplied standard with all switches)		
	Plastic shaft	LA2-G2830	3.00
	Metal shaft	L7-G3687 ②	3.80
	52mm End Shaft -		
	Plastic shaft	LA2-G3194	3.60
	Metal shaft	L7-G3707 ②	4.20
	57mm End Shaft -		
	Plastic shaft	LA2-G3195	3.80
	Extension Modules - Two per package, priced per package	LA2-G2853	8.00

Determining modular shaft extension components

- Determine Mounting Depth. This is the distance from the inside mounting surface of the enclosure to the **outside surface** of the enclosure cover. See diagram below for details. ①



- If necessary convert Mounting Depth inches to millimeters (inches x 25.4 = millimeters).

NOTE: Table is based on a standard 3 or 4 pole switch body. For 6 pole switches, deduct 25mm from the overall Mounting Depth before referring to table.

- In the Modular Shaft Extension Table to the right, find the Mounting Depth in the column under the appropriate LA7 Switch Body.
- Order the End Shaft and number of Extension Modules required for that Mounting Depth.

Modular Shaft Extension Table

Number of Extension Modules	Required End Shaft	Mounting Depth (mm) ①			
		Switch Body LA7-16	Switch Body LA7-25/32	Switch Body LA7-40/63	Switch Body LA7-80/100
0	44mm ②	57.5-63.5	66.5-72.5	79.5-84.5	96-102
0	52mm	65-73	74-82	81.5-94	98-111.5
0	57mm	70-78	79-87	86.5-99	103-116.5
1	44mm ②	81.5-87.5	90.5-96.5	103.5-109.5	120-126
1	52mm	83.5-97	92.5-106	105.5-119	122-135.5
1	57mm	88.5-102	97.5-111	110.5-124	127-140.5
2	44mm ②	105.5-111.5	114.5-120.5	127.5-133.5	144-150
2	52mm	107.5-121	116.5-130	129.5-143	146-159.5
2	57mm	112.5-126	121.5-135	134.5-148	151-164.5
3	44mm ②	129.5-135.5	138.5-144.5	151.5-157.5	168-174
3	52mm	131.5-145	140.5-154	153.5-167	170-183.5
3	57mm	136.5-150	145.5-159	158.5-172	175-188.5
4	44mm ②	153.5-159.5	162.5-168.5	175.5-181.5	192-198
4	52mm	155.5-169	164.5-178	177.5-191	194-207.5
4	57mm	160.5-174	169.5-183	182.5-196	199-212.5
5	44mm ②	177.5-183.5	186.5-192.5	199.5-205.5	216-222
5	52mm	179.5-193	188.5-202	201.5-215	218-231.5
5	57mm	184.5-198	193.5-207	206.5-220	223-236.5
6	44mm ②	201.5-207.5	210.5-216.5	223.5-229.5	240-246
6	52mm	203.5-217	212.5-226	225.5-239	242-255.5
6	57mm	208.5-222	217.5-231	230.5-244	247-260.5

① For DIN rail mounted devices, remember to deduct the offset distance provided by the rail. For example, deduct 2.5mm from the Mounting Depth for switch bodies mounted on DIN 46277 rail.
 ② LE7-80...100 3-pole switches and LA7-25...100 6-pole switches come standard with a 44mm **metal** End Shaft. LE7-16...63 3-pole switches and LA7-16-xxxx 6-pole switches come standard with a 44mm **plastic** End Shaft.
 ③ Order additional shafts for LE (front mount switches) from page L11.

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Metal shaft extension system

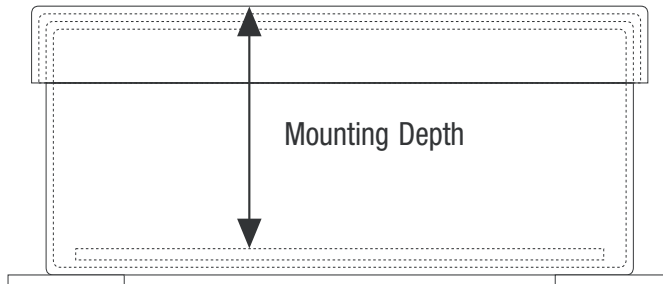
Adjustable metal shaft extensions snap on securely to LA7 switches via the same quick-connect design as shaft extension modules. Metal shafts are equipped with a door interlock and a padlock hasp for locking out the switch after the enclosure is opened (for outside lockout, select a Switch Handle Assembly with lockout capability).



Two standard lengths of these unique adjustable shafts are available. Metal shaft extensions mate with any of the standard Switch Handle Assemblies on pages L8 and L9. All necessary hardware is supplied with the shaft.

Determining metal shaft extension


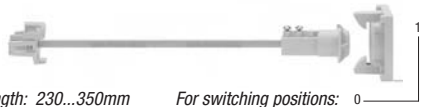

- Determine Mounting Depth. This is the distance from the inside mounting surface of the enclosure to the **outside surface** of the enclosure cover. See diagram below for details. ❶



- If necessary convert Mounting Depth inches to millimeters (inches x 25.4 = millimeters).
NOTE: Tables are based on a standard 3 or 4 pole switch body. For 6 pole switches, deduct 25mm from overall Mounting Depth before referring to table.
- In the Metal Shaft Extension Table to the right, find the Mounting Depth in the column under the appropriate LA7 Switch Body.
- Order the Metal Shaft Extension required for that Mounting Depth.

- ❶ For DIN rail mounted devices, remember to deduct the offset distance provided by the rail. For example, deduct 2.5mm from the Mounting Depth for switch bodies mounted on DIN 46277 rail.
- ❷ This dimension can be reduced another 55mm by cutting the plastic sleeve and further cutting the metal shaft.
- ❸ If using Metal Shaft Extension System with 3 Pole Changeover Switches, purchase insert to modify for three position switching.

Metal Shaft Extension Components

Component	Catalog Number	Price
 Length: 110...235mm For switching positions: 0	LA2-G3393 ❸	34.20
 Length: 230...350mm For switching positions: 0	LA2-G3394 ❸	44.40
 Insert - For modifying metal shaft for use with 3 Pole Changeover Switches (not lockable).	LA2-G3399	3.40

Metal Shaft Extension Table

Metal Shaft Extension	Mounting Depth (mm) ❶		
	Switch Body LA7-25/32	Switch Body LA7-40/63	Switch Body LA7-80/100
LA2-G3393	173❸ - 304	186❸ - 317	203❸ - 334
LA2-G3394	293 - 419	306 - 432	323 - 449

R-type Switch Handle Shaft Extensions

Only select shaft extension from this table if ordering the R-type (UL Type 4X) Switch Handle (page L9). Select shaft after figuring overall Mounting Depth.

R-type Switch Handle Shaft Extension (typical)						
Mounting Depth (mm) ❶				Catalog Number	Price	
LA7-16	LA7-25/32	LA7-40/63	LA7-80/100			
84.5-108.5	93.5-117.5	117.5-131.5	123.5-147.5	LA2-G194R1-67	30	
89.5-113.5	98.5-122.5	112.5-136.5	128.5-152.5	LA2-G194R1-72		
96.5-120.5	105.5-129.5	119.5-143.5	135.5-159.5	LA2-G194R1-79		
104.5-128.5	113.5-137.5	127.5-151.5	143.5-167.5	LA2-G194R1-87		
107.5-131.5	116.5-140.5	130.5-154.5	146.5-170.5	LA2-G194R1-90		
114.5-138.5	123.5-147.5	137.5-161.5	153.5-177.5	LA2-G194R1-97		
121.5-145.5	130.5-154.5	144.5-168.5	160.5-184.5	LA2-G194R1-104		
132.5-156.5	141.5-165.5	155.5 - 179.5	171.5-195.5	LA2-G194R1-115		
Adjustable R-type Switch Handle Shaft Extension						
130-385	144-399	157-412	174-429	L7-G3675		31

L7 Enclosed Motor Disconnects (UL and CSA Approved Enclosures) ①⑤

Amp/Horsepower Rating						Painted Steel - UL Type 1/3/12/4 Operator - IP66, UL Type 3, 12			Nonmetallic - UL Type 1/3/12/4 Operator - IP66, UL Type 3, 12			Nonmetallic - UL Type 4/4X Operator - UL Type 4X			Stainless Steel - UL Type 4/4X Operator - UL Type 4X		
						Image			Image			Image			Image		
UL/CSA Amps	Horsepower					Catalog Number	Price	Dimension	Catalog Number	Price	Dimension	Catalog Number	Price	Dimension	Catalog Number	Price	Dimension
	1Ø		3Ø														
	120V	240V	240V	480V	600V												
3 Pole - ON/OFF																	
16	1	2	3	7.5	10	LA7-16-1753-WN	224	A	LA7-16-1753-CN	256	C	LA7-16-1753-CR	312	C	LA7-16-1753-SR	866	A
25	1	2	5	10	10	LA7-25-1753-WN	240	A	LA7-25-1753-CN	272	C	LA7-25-1753-CR	328	C	LA7-25-1753-SR	884	A
32	1	3	7.5	15	15	LA7-32-1753-WN	256	A	LA7-32-1753-CN	288	C	LA7-32-1753-CR	344	C	LA7-32-1753-SR	902	A
40	2	3	10	20	20	LA7-40-1753-WN	280	A	LA7-40-1753-CN	314	C	LA7-40-1753-CR	368	C	LA7-40-1753-SR	926	A
63	3	5	15	25	25	LA7-63-1753-WN	310	A	LA7-63-1753-CN	342	C	LA7-63-1753-CR	398	C	LA7-63-1753-SR	956	A
80	5	10	25	40	50	LA7-80-1753-WN	350	B	LA7-80-1753-CN	496	D	LA7-80-1753-CR	560	D	LA7-80-1753-SR	1378	B
100	7.5	15	30	50	50	LA7-100-1753-WN	394	B	LA7-100-1753-CN	540	D	LA7-100-1753-CR	604	D	LA7-100-1753-SR	1422	B
4 Pole - ON/OFF ④																	
16	1	2	3	7.5	10	LA7-16-1754-WN	246	A	LA7-16-1754-CN	280	C	LA7-16-1754-CR	334	C	LA7-16-1754-SR	892	A
25	1	2	5	10	10	LA7-25-1754-WN	268	A	LA7-25-1754-CN	302	C	LA7-25-1754-CR	356	C	LA7-25-1754-SR	914	A
32	1	3	7.5	15	15	LA7-32-1754-WN	290	A	LA7-32-1754-CN	324	C	LA7-32-1754-CR	378	C	LA7-32-1754-SR	936	A
40	2	3	10	20	20	LA7-40-1754-WN	332	A	LA7-40-1754-CN	356	C	LA7-40-1754-CR	412	C	LA7-40-1754-SR	968	A
63	3	5	15	25	25	LA7-63-1754-WN	360	A	LA7-63-1754-CN	392	C	LA7-63-1754-CR	448	C	LA7-63-1754-SR	1006	A
80	5	10	25	40	50	LA7-80-1754-WN	404	B	LA7-80-1754-CN	550	D	LA7-80-1754-CR	638	D	LA7-80-1754-SR	1432	B
100	7.5	15	30	50	50	LA7-100-1754-WN	466	B	LA7-100-1754-CN	612	D	LA7-100-1754-CR	676	D	LA7-100-1754-SR	1494	B
6 Pole - ON/OFF																	
16	1	2	3	7.5	10	LA7-16-1756-WN	278	B	LA7-16-1756-CN	434	D	LA7-16-1756-CR	446	D	LA7-16-1756-SR	1264	B
25	1	2	5	10	10	LA7-25-1756-WN	314	B	LA7-25-1756-CN	466	D	LA7-25-1756-CR	520	D	LA7-25-1756-SR	1338	B
32	1	3	7.5	15	15	LA7-32-1756-WN	350	B	LA7-32-1756-CN	498	D	LA7-32-1756-CR	594	D	LA7-32-1756-SR	1412	B
40	2	3	10	20	20	LA7-40-1756-WN	408	B	LA7-40-1756-CN	554	D	LA7-40-1756-CR	608	D	LA7-40-1756-SR	1426	B
63	3	5	15	25	25	LA7-63-1756-WN	458	B	LA7-63-1756-CN	604	D	LA7-63-1756-CR	658	D	LA7-63-1756-SR	1476	B

Modifications (Factory Assembled) ②

Description	Catalog Number Suffix	Adder
Ground Terminal		
For LA7-16	-PE	16.70
For LA7-25 & 32	-PE	18.40
For LA7-40 & 63	-PE	24.80
For LA7-80 & 100	-PE	32.00
Neutral Terminal		
For LA7-16	-TN ⑥	16.70
For LA7-25 & 32	-TN ⑥	18.40
For LA7-40 & 63	-TN ⑥	24.80
For LA7-80 & 100	-TN ⑥	32.00

NOTE: All IP66, UL Type 3/12 Enclosed Disconnects come standard with a round, yellow and red, screw fixing handle (Type N) with ON/OFF marking. For a round gray and black handle, change "N" to "G". Example: change LA7-25-1753-WN to LA7-25-1753-WG. For a gray and black square handle (Type A), change "N" to "A". Example: change LA7-25-1753-WN to LA7-25-1753-WA.

All Type 4X Enclosed Disconnects come standard with a round yellow and red handle with defeatable door interlock (Type R) and ON/OFF marking. See pages L8 and L9 for descriptions of all Switch Handle Assemblies.

- ① UL/CSA Approved enclosures do not provide for knockouts. Wire opening must be drilled by user.
- ② Up to two modifications available per Enclosed Disconnect (one modification possible on 4 pole switches).

- ③ Not available on four pole switches.
- ④ One additional factory modification possible.
- ⑤ Non-metallic enclosures are fiberglass reinforced polyester type.

L7 Enclosed Motor Disconnects (UL and CSA Approved Enclosures) ①

UL/CSA Amps		Horsepower					Catalog Number	Price	Dimension	Painted Steel - UL Type 1/3/12/4 Operator - IP66, UL Type 3, 12			Nonmetallic - UL Type 1/3/12/4 Operator - IP66, UL Type 3, 12			Nonmetallic - UL Type 4/4X Operator - UL Type 4X			Stainless Steel - UL Type 4/4X Operator - UL Type 4X		
		1Ø		3Ø						Image	Image	Image	Image								
		120V	240V	240V	480V	600V															
3 Pole - ON/OFF (with 1 NOEM and 1 NCLB - Make Before Break)																					
16	1	2	3	7.5	10	LA7-16-1753-WN-PL11	266	A	LA7-16-1753-CN-PL11	298	C	LA7-16-1753-CR-PL11	354	C	LA7-16-1753-SR-PL11	910	A				
25	1	2	5	10	10	LA7-25-1753-WN-PL11	282	A	LA7-25-1753-CN-PL11	314	C	LA7-25-1753-CR-PL11	370	C	LA7-25-1753-SR-PL11	926	A				
32	1	3	7.5	15	15	LA7-32-1753-WN-PL11	298	A	LA7-32-1753-CN-PL11	330	C	LA7-32-1753-CR-PL11	386	C	LA7-32-1753-SR-PL11	942	A				
40	2	3	10	20	20	LA7-40-1753-WN-PL11	328	A	LA7-40-1753-CN-PL11	362	C	LA7-40-1753-CR-PL11	416	C	LA7-40-1753-SR-PL11	974	A				
63	3	5	15	25	25	LA7-63-1753-WN-PL11	356	A	LA7-63-1753-CN-PL11	390	C	LA7-63-1753-CR-PL11	444	C	LA7-63-1753-SR-PL11	1002	A				
80	5	10	25	40	50	LA7-80-1753-WN-PL11	402	B	LA7-80-1753-CN-PL11	548	D	LA7-80-1753-CR-PL11	610	D	LA7-80-1753-SR-PL11	1428	B				
100	7.5	15	30	50	50	LA7-100-1753-WN-PL11	446	B	LA7-100-1753-CN-PL11	592	D	LA7-100-1753-CR-PL11	654	D	LA7-100-1753-SR-PL11	1472	B				
4 Pole - ON/OFF (with 1 NOEM and 1 NCLB - Make Before Break) ③																					
16	1	2	3	7.5	10	LA7-16-1754-WN-PL11	288	A	LA7-16-1754-CN-PL11	238	C	LA7-16-1754-CR-PL11	292	C	LA7-16-1754-SR-PL11	850	A				
25	1	2	5	10	10	LA7-25-1754-WN-PL11	310	A	LA7-25-1754-CN-PL11	302	C	LA7-25-1754-CR-PL11	356	C	LA7-25-1754-SR-PL11	914	A				
32	1	3	7.5	15	15	LA7-32-1754-WN-PL11	332	A	LA7-32-1754-CN-PL11	366	C	LA7-32-1754-CR-PL11	420	C	LA7-32-1754-SR-PL11	978	A				
40	2	3	10	20	20	LA7-40-1754-WN-PL11	380	A	LA7-40-1754-CN-PL11	404	C	LA7-40-1754-CR-PL11	458	C	LA7-40-1754-SR-PL11	1016	A				
63	3	5	15	25	25	LA7-63-1754-WN-PL11	408	A	LA7-63-1754-CN-PL11	440	C	LA7-63-1754-CR-PL11	494	C	LA7-63-1754-SR-PL11	1052	A				
80	5	10	25	40	50	LA7-80-1754-WN-PL11	456	B	LA7-80-1754-CN-PL11	602	D	LA7-80-1754-CR-PL11	664	D	LA7-80-1754-SR-PL11	1482	B				
100	7.5	15	30	50	50	LA7-100-1754-WN-PL11	518	B	LA7-100-1754-CN-PL11	664	D	LA7-100-1754-CR-PL11	726	D	LA7-100-1754-SR-PL11	1544	B				
6 Pole - ON/OFF (with 1 NOEM and 1 NCLB - Make Before Break)																					
16	1	2	3	7.5	10	LA7-16-1756-WN-PL11	328	B	LA7-16-1756-CN-PL11	474	D	LA7-16-1756-CR-PL11	530	D	LA7-16-1756-SR-PL11	1348	B				
25	1	2	5	10	10	LA7-25-1756-WN-PL11	360	B	LA7-25-1756-CN-PL11	506	D	LA7-25-1756-CR-PL11	562	D	LA7-25-1756-SR-PL11	1380	B				
32	1	3	7.5	15	15	LA7-32-1756-WN-PL11	392	B	LA7-32-1756-CN-PL11	538	D	LA7-32-1756-CR-PL11	594	D	LA7-32-1756-SR-PL11	1412	B				
40	2	3	10	20	20	LA7-40-1756-WN-PL11	456	B	LA7-40-1756-CN-PL11	602	D	LA7-40-1756-CR-PL11	656	D	LA7-40-1756-SR-PL11	1474	B				
63	3	5	15	25	25	LA7-63-1756-WN-PL11	504	B	LA7-63-1756-CN-PL11	650	D	LA7-63-1756-CR-PL11	706	D	LA7-63-1756-SR-PL11	1524	B				

Modifications (Factory Assembled) ②

Description	Catalog Number Suffix	Adder
Ground Terminal		
For LA7-16	-PE	16.70
For LA7-25 & 32	-PE	18.40
For LA7-40 & 63	-PE	24.80
For LA7-80 & 100	-PE	32.00
Neutral Terminal		
For LA7-16	-TN	16.70
For LA7-25 & 32	-TN	18.40
For LA7-40 & 63	-TN	24.80
For LA7-80 & 100	-TN	32.00

NOTE: All IP66, UL Type 3/12 Enclosed Disconnects come standard with a round, yellow and red, screw fixing handle (Type N) with ON/OFF marking. For a round gray and black handle, change "N" to "G". Example: change LA7-25-1753-WN to LA7-25-1753-WG. For a gray and black square handle (Type A), change "N" to "A". Example: change LA7-25-1753-WN to LA7-25-1753-WA.

All Type 4X Enclosed Disconnects come standard with a round yellow and red handle with defeatable door interlock ("Type R") and ON/OFF marking. See page L8 and L9 for descriptions of all Switch Handle Assemblies.

- ① UL/CSA Approved enclosures do not provide for knockouts. Wire opening must be drilled by user.
- ② One modification available per Enclosed Disconnect (no modifications available on 4 pole).

- ③ Factory modifications not available.
- ④ Nonmetallic enclosures are fiberglass reinforced polyester type.

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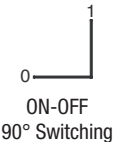
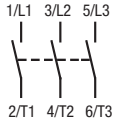

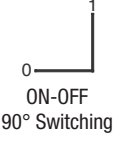
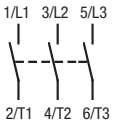
Disconnect Switches

L7

LY7 Enclosed Load Disconnect Switches (IP Rated Enclosures) ①




Amp/Horsepower Rating						Plastic - IP66 ABS Enclosure Operator - IP66, Red/Yellow (Type N)		Plastic - IP66 ABS Enclosure Operator - IP66, Gray/Black (Type G)		Plastic - IP66 ABS Enclosure Operator - IP66, Silver/Black (Type A)	
						Image		Image		Image	
UL/CSA Amps	Horsepower					Catalog Number	Price	Catalog Number	Price	Catalog Number	Price
	1Ø		3Ø								
	120V	240V	240V	480V	600V						
3 Pole - ON/OFF											
16	1	2	3	7.5	10	LY7-16M-1753-N4	122	LY7-16M-1753-G4	122	LY7-16M-1753-A4	116
25	1	2	5	10	10	LY7-25-1753-N6	141	LY7-25-1753-G6	141	LY7-25-1753-A6	131
32	1	3	7.5	15	15	LY7-32-1753-N6	157	LY7-32-1753-G6	157	LY7-32-1753-A6	147
40	2	3	10	20	20	LY7-40-1753-N6	209	LY7-40-1753-G6	209	LY7-40-1753-A6	199
63	3	5	15	25	25	LY7-63-1753-N6	237	LY7-63-1753-G6	237	LY7-63-1753-A6	227
80	5	10	25	40	50	LY7-80-1753-N6	294	LY7-80-1753-G6	294	LY7-80-1753-A6	284
100	7.5	15	30	50	50	LY7-100-1753-N6	338	LY7-100-1753-G6	338	LY7-100-1753-A6	328
6 Pole - ON/OFF											
16	1	2	3	7.5	10	LY7-16M-1756-N6	167	LY7-16M-1756-G6	167	LY7-16M-1756-A6	158
25	1	2	5	10	10	LY7-25-1756-N6	267	LY7-25-1756-G6	267	LA7-25-1756-A6	257
32	1	3	7.5	15	15	LY7-32-1756-N6	299	LY7-32-1756-G6	299	LY7-32-1756-A6	289
40	2	3	10	20	20	LY7-40-1756-N6	340	LY7-40-1756-G6	340	LY7-40-1756-A6	330
63	3	5	15	25	25	LY7-63-1756-N6	439	LY7-63-1756-G6	439	LY7-63-1756-A6	429

Assembled L7 Disconnect Switches

Switch	Description	Function	Color	Circuit	Poles	UL/CSA Amps	Catalog Number	Price
	Type Q Load Switch - This pre-assembled switch is designed for panels with standard 45mm cutouts. The specially designed switch handle also makes it ideal for mounting <i>within</i> a distribution panel when ready access to the operator is not desired. Finger-proof to IP20.		Gray face/Black Handle		3	25	LA7-25-1753-Q	85
						32	LA7-32-1753-Q	101
	Emergency Off Switch - This yellow and red pre-assembled switch is designed as an Emergency Off for panels with standard 45mm cutouts. The specially designed switch handle also makes it ideal for mounting <i>within</i> a distribution panel when a color coded OFF switch is desired. Finger-proof to IP20 with provision for locking with one padlock.		Yellow face/Red handle		3	25	LA7-25-1753-R	85
						32	LA7-32-1753-R	101

① Suitable for use in NEMA 4 type applications (not UL listed).

Thermoplastic Enclosures (IP Rated)

Accessory	Description	Enclosure Size	For use with...	Poles	Shaft Required...	Catalog Number	Price
	ABS Enclosure – For High Impact Applications IP66, UL94 Flame Resistance - HB With pre-drilled holes for 64 x 64 operator or larger	95 (W) x 150 (H) x 86 (D)	LA7-25...32	3 / 4	LA2-G3194	LA2-G3572	47
		95 (W) x 150 (H) x 111 (D)				LA2-G3573	50
		125 (W) x 180 (H) x 105 (D)	LA7-25...32 LA7-40...63	6 3 / 4	With switch Supplied with enclosure	L7-G3663	73
		175 (W) x 230 (H) x 120 (D)	LA7-40...63 LA7-80...100	6 3 / 4	With switch Supplied with enclosure	L7-G3665	104
	Without holes	95 (W) x 150 (H) x 86 (D) 95 (W) x 150 (H) x 111 (D)				LA2-G3574 LA2-G3575	41 45
	Noryl Enclosure – For Corrosion Prone Applications IP66, UL94 Flame Resistance - VO With pre-drilled holes for 64 x 64 operator or larger	95 (W) x 150 (H) x 86 (D)	LA7-25...32	3 / 4	LA2-G3194	LA2-G3576	64
		95 (W) x 150 (H) x 111 (D)				LA2-G3577	77
		125 (W) x 180 (H) x 105 (D)	LA7-25...32 LA7-40...63	6 3 / 4	With switch Supplied with enclosure	L7-G3664	93
		175 (W) x 230 (H) x 120 (D)	LA7-40...63 LA7-80...100	6 3 / 4	With switch Supplied with enclosure	L7-G3666	156
	Without holes	95 (W) x 150 (H) x 86 (D) 95 (W) x 150 (H) x 111 (D)				LA2-G3578 LA2-G3579	63 71
	Additional Ground & Neutral Terminals - (Provision for two. One included with enclosure)		LA2-G357... L7-G366...	All All		L7-G3656 L2-G3673	6 8

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Technical Information

			16A	25A	32A	40A	63A	80A	100A	Aux. Cont.		
Performance Data												
Rated operational voltage U_e	UL/CSA	[V]	600	600	600	600	600	600	600	600		
	IEC ①	[V]	690	690	690	690	690	690	690	690		
Rated insulation voltage U_i	UL/CSA	[V]	600	600	600	600	600	600	600	600		
	IEC	[V]	690	690	690	690	690	690	690	690		
Rated impulse voltage U_{imp}	UL/CSA	[kV]	8	8	8	8	8	8	8	8		
Test voltage U_t	1 minute	[kV]	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5		
Rated Frequency		[Hz]	50/60	50/60	50/60	50/60	50/60	50/60	50/60	50/60		
Conventional free air thermal current I_{th} ①		[A]	25	40	50	68	75	100	120	12 ②		
Conventional enclosed thermal current I_{th} ①		[A]	20	32	40	50	63	80	100	10		
Rated Current I_e ①												
AC-1	Non-inductive or only slightly inductive loads	690V	[A]	16	25	32	40	63	80	100	10	
AC-21A	Switching of resistive loads with slight overload											
Rated Power P_e												
AC-23A	Occasional switching of 3Ø motors and other highly inductive loads (criterion for selecting main switches)	230V	[kW]	5.5	7.5	7.5	15	18.5	22	30	-	
		400V	[kW]	7.5	11	15	22	30	37	55	-	
		690V	[kW]	7.5	11	15	18.5	22	37	45	-	
AC-3	Squirrel cage motors; starting and stopping of running motors	230V	[kW]	4	5.5	7.5	11	15	18.5	22	-	
		400V	[kW]	5.5	7.5	11	15	18.5	30	37	-	
		690V	[kW]	5.5	7.5	11	15	18.5	30	37	-	
Short circuit current (Type 2 coordination)												
	Rated conditional short circuit current	400/415V	[kA]	20	20	15	20	15	30	25	-	
	Maximum fuse rating of circuit (type g, G)		[A]	20	25	35	50	63	80	100	-	
	Rated short-time current 1cw, 1s		[A]	800	900	900	1300	1300	2500	2500	-	
Rated breaking capacity AC23A (cosφ 0.45)												
		230V	[A]	156	296	296	484	484	780	780	-	
		400V	[A]	120	256	256	504	504	800	800	-	
		690V	[A]	70	136	136	196	196	376	376	-	
DC switching capacity												
Rated current I_e												
DC-21A	For resistive loads, T < 1 ms U_e max = 600V	1 pole	48V	[A]	20	25	32	40	63	80	100	-
			110V	[A]	5	5	6	8	10	16	20	-
			220V	[A]	1	1	1	1.5	1.5	3	3	-
			440V	[A]	0.5	0.5	0.5	0.6	0.6	0.7	0.7	-
		2 poles in series	96V	[A]	20	25	32	40	63	80	100	-
			110V	[A]	20	23	25	32	50	70	80	-
			220V	[A]	5	5	6	8	10	16	20	-
			440V	[A]	1	1	1	1.5	1.5	3	3	-
		3 poles in series	600V	[A]	0.6	0.6	0.6	0.8	0.8	1	1	-
			110V	[A]	20	25	32	40	63	80	100	-
			220V	[A]	13	13	15	20	28	50	63	-
			440V	[A]	2.2	2.2	2.2	3.6	3.6	6.5	6.5	-
		600V	[A]	1.3	1.5	1.5	2	2	3	3	-	
Rated power P_e												
DC-23, DC-3, DC-5	For inductive loads, in series T < 7.5 ms	90V	[kW]	1	1.3	1.5	2.9	4.1	5.7	7.2	-	
		110V	[kW]	1	1.1	1.3	2.2	3.3	5.5	7	-	
		220V	[kW]	0.8	0.9	1.1	1.7	2	3.5	4.4	-	
		440V	[kW]	0.6	0.6	0.6	0.9	0.9	1.1	1.1	-	
		600V	[kW]	0.4	0.4	0.4	0.5	0.5	0.9	0.9	-	

① See Conformity to Standards on next page.
② Also suitable for SEV 500.

Technical Information (continued)

			16A	25A	32A	40A	63A	80A	100A	Aux. Cont.	
UL/CSA Data											
Continuous current		[A]	16	25	32	40	63	80	100	–	
Heavy Pilot Duty		[AC]	A600	A600	A600	–	–	–	–	A600	
Standard Duty		[DC]	–	–	–	–	–	–	–	Q600	
Motor Rating 60Hz	120V	[FLA]	16	9.8	16	24	34	56	80	–	
		[HP]	1	1	1	2	3	5	7.5	–	
Single phase, 2 poles	240V	[FLA]	12	10	12	17	28	50	68	–	
		[HP]	2	2	3	3	5	10	15	–	
	480V	[FLA]	8.5	8.5	14	21	26	34	55	–	
		[HP]	3	3	5	7.5	10	15	30	–	
	600V	[FLA]	11.2	6.8	11.2	16	20	27	44	–	
		[HP]	5	5	5	7.5	10	15	25	–	
Three phase	120V	[FLA]	13.6	13.6	19.2	28	40	56	84	–	
		[HP]	2	2	3	5	7.5	10	15	–	
	240V	[FLA]	9.6	15.2	22	28	42	68	80	–	
		[HP]	3	5	7.5	10	15	25	30	–	
	480V	[FLA]	11	14	21	27	34	52	65	–	
		[HP]	7.5	10	15	20	25	40	50	–	
	600V	[FLA]	11	11	17	22	27	52	52	–	
		[HP]	10	10	15	20	25	50	50	–	
	L Short Circuit Ratings										
	Maximum short circuit prospective fault current, RMS symmetrical *		[A]	5000	5000	5000	5000	5000	10000	10000	–
When protected by Class K, H or RK5 fuses, maximum amperes of rated fuse		[A]	25	80	80	100	100	200	200	–	

Mechanical Data

			16A	25A	32A	40A	63A	80A	100A	Aux. Cont.	
Protection class according to IEC 529											
Motor rating 60 Hz											
Actuators			IP66	IP66	IP66	IP66	IP66	IP66	IP66	–	
Switch bodies			IP20	IP20	IP20	IP20	IP20	IP20	IP20	IP20	
Mechanical life	[millions of operations]		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
Maximum wire gauges											
Terminal size per IEC 947-1											
Fine strands		1 conductor	[mm ²]	1.5...6	1...10	1...10	2.5...16	2.5...16	4...35	4...35	0.5...2.5
Rigid wire		1 conductor	[mm ²]	1...10	1.5...6	1.5...6	2.5...25	2.5...25	4...50	4...50	0.75...2.5
Wire gauges according to UL/CSA											
			[AWG]	10/8	14/8	14/8	12/4	12/4	10/1	10/1	18/14
Tightening Torque	max.		[lb-in]	12	12	12	25	25	50	50	9
			[Nm]	1.4	1.4	1.4	2.8	2.8	5.6	5.6	1.0
Ambient Temperature	Operation		[°C]							–25...+60	
		Storage	[°C]							–40...+80	

Conformity to Standards: ①

IEC 207, IEC 947-1, IEC 947-3 Low voltage switchgear and control gear part 3: Switches, disconnectors, switch-disconnectors and fuse-combination units.

CE

UL 508: Industrial Control Equipment

CSA: C22.2 No. 14: Industrial Control Equipment

Approvals: ①

UL Listed (File No. E54612 NLRV)











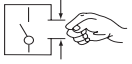
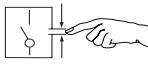
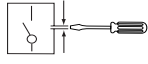
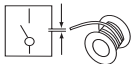


CSA Certified (LR 13002)

Meets IEC, VDE and BS standard requirements

IEC/CE Marked (Per EN60947-3)

① LA(E)-16 switches are cUL approved.

IP Ratings Definitions

<p>IP Ratings Definitions</p> <p>The first IP number (left side of chart) is protection against solid objects. The second IP number (across top) is protection against liquids. The chart itself shows degrees of protection according to IEC 529.</p>	 No protection IP...0	 Protected against vertically falling drops of water (condensation) IP...1	 Protected against dripping water with enclosure up to 15° from vertical IP...2	 Protected against sprayed water up to 60° from vertical IP...3	 Protected against sprayed water from all directions (limited ingress permitted) IP...4	 Protected against low pressure water jets from all directions (limited ingress permitted) IP...5	 Protected against strong jets of water from all directions IP...6	 Protected against immersion up to one meter IP...7	 Protected against long periods of immersion under pressure IP...8
<p>IP0...</p>  No protection IP00									
<p>IP1...</p>  Protected against solid objects up to 50mm (accidental touch by hands) IP10	IP11	IP12							
<p>IP2...</p>  Protected against solid objects up to 12mm (fingers, knuckles) IP20	IP21	IP22	IP23						
<p>IP3...</p>  Protected against solid objects up to 2.5mm (tools, wires) IP30	IP31	IP32	IP33	IP34					
<p>IP4...</p>  Protected against solid objects up to 1mm (wires) IP40	IP41	IP42	IP43	IP44					
<p>IP5...</p>  Protected against dust (limited ingress permitted) IP50			IP53	IP54	IP55	IP56			
<p>IP6...</p>  Totally protected against dust IP60					IP65	IP66	IP67		

NEMA / UL Type Definitions

For a degree of protection against:	NEMA / UL Type								
	Indoor Use			Outdoor Use		Indoor or Outdoor Use			
	1	12	13	3R	3	4	4X	6P	6
Incidental contact with enclosed equipment	•	•	•	•	•	•	•	•	•
Falling dirt	•	•	•	•	•	•	•	•	•
Rust	•	•	•	•	•	•	•	•	•
Circulating dust, lint, fibers and flyings		•	•		•	•	•	•	•
Windblown dust					•	•	•	•	•
Falling liquids and light splashing		•	•		•	•	•	•	•
Rain (limited water allowed inside)				•	•	•	•	•	•
Rain (no water allowed inside)					•	•	•	•	•
Snow and sleet				•	•	•	•	•	•
Hosedown and splashing water						•	•	•	
Occasional prolonged submersion								•	•
Oil or coolant spraying or splashing			•						
Corrosive agents							•	•	
Occasional temporary submersion								•	•

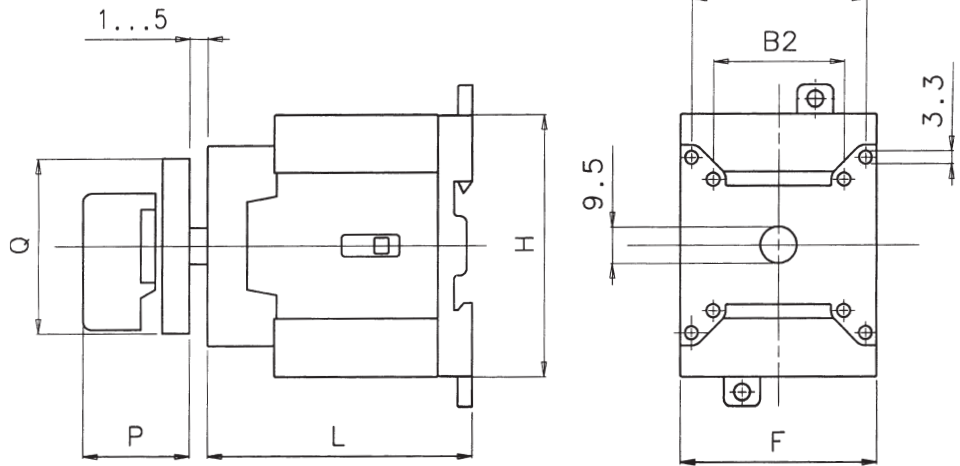
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LE7 Front Mount (3 Pole) with Screw Fixing Handle

- Dimensions are in millimeters
- Dimensions not intended for manufacturing purposes

Switch Handle		
Type	B1	B2
LFS2-A-4	28	48 x 48
LFS2-E-4	28	48 x 48
LFS2-I-4	28	48 x 48
LFS2-L-4	28	48 x 48
LFS2-S-4	28	48 x 62
LFS2-A-6	28	64 x 64
LFS2-E-6	28	64 x 64
LFS2-I-6	28	64 x 64
LFS2-L-6	28	64 x 64
LFS2-S-6	28	64 x 78
LFS7-G-4	34	54 x 54
LFS7-N-4	34	54 x 54
LFS2-G-6	34	67 x 67
LFS2-N-6	34	67 x 67
LFS2-A-8	45	88 x 88
LFS2-I-8	45	88 x 88
LFS2-G-8	49	88 x 88
LFS2-N-8	49	88 x 88

Switch Body					
Type	B1	B2	F	H	L
LE7-16	-	28	36	63	51
LE7-25/32	-	36	45	63	60
LE7-40/63	48	36	54	72	74
LE7-80/100	48	36	72	90	90

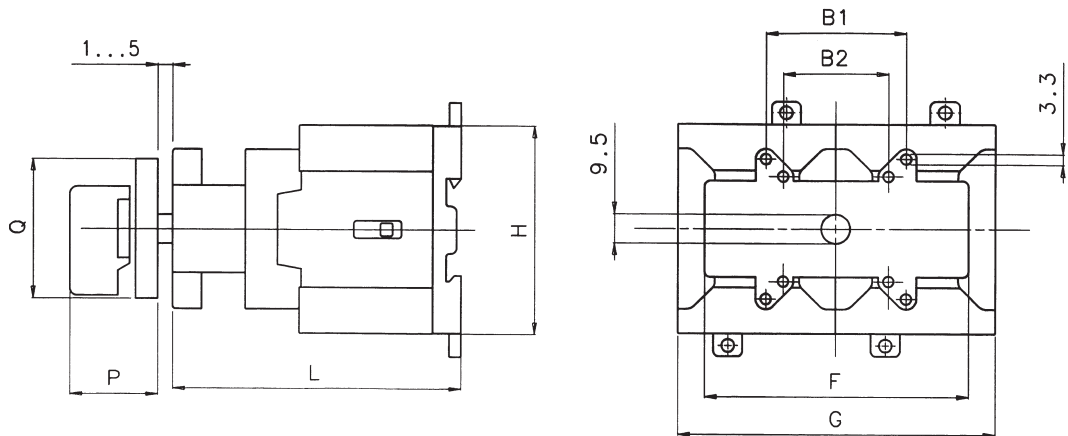


LE7 Front Mount (6 Pole) with Screw Fixing Handle

- Dimensions are in millimeters
- Dimensions not intended for manufacturing purposes

Switch Handle		
Type	P	Q
LFS2-A-4	28	48 x 48
LFS2-E-4	28	48 x 48
LFS2-I-4	28	48 x 48
LFS2-L-4	28	48 x 48
LFS2-S-4	28	48 x 62
LFS2-A-6	28	64 x 64
LFS2-E-6	28	64 x 64
LFS2-I-6	28	64 x 64
LFS2-L-6	28	64 x 64
LFS2-S-6	28	64 x 78
LFS7-G-4	34	54 x 54
LFS7-N-4	34	54 x 54
LFS2-G-6	34	67 x 67
LFS2-N-6	34	67 x 67
LFS2-A-8	45	88 x 88
LFS2-I-8	45	88 x 88
LFS2-G-8	49	88 x 88
LFS2-N-8	49	88 x 88

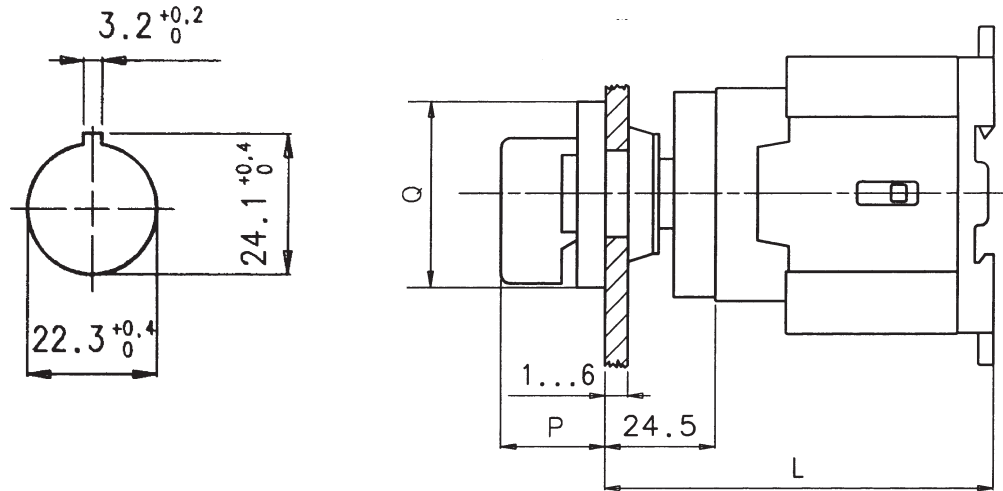
Switch Body						
Type	B1	B2	F	G	H	L
LE7-16	-	28	90	81.5	63	76
LE7-25/32	-	36	90	90	63	85
LE7-40/63	48	48	90	108	72	99
LE7-80/100	48	36	116	144	90	115



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LE7 Front Mount (3 Pole) with Central Nut Fixing Handle

- Dimensions are in millimeters
- Dimensions not intended for manufacturing purposes



Switch Handle

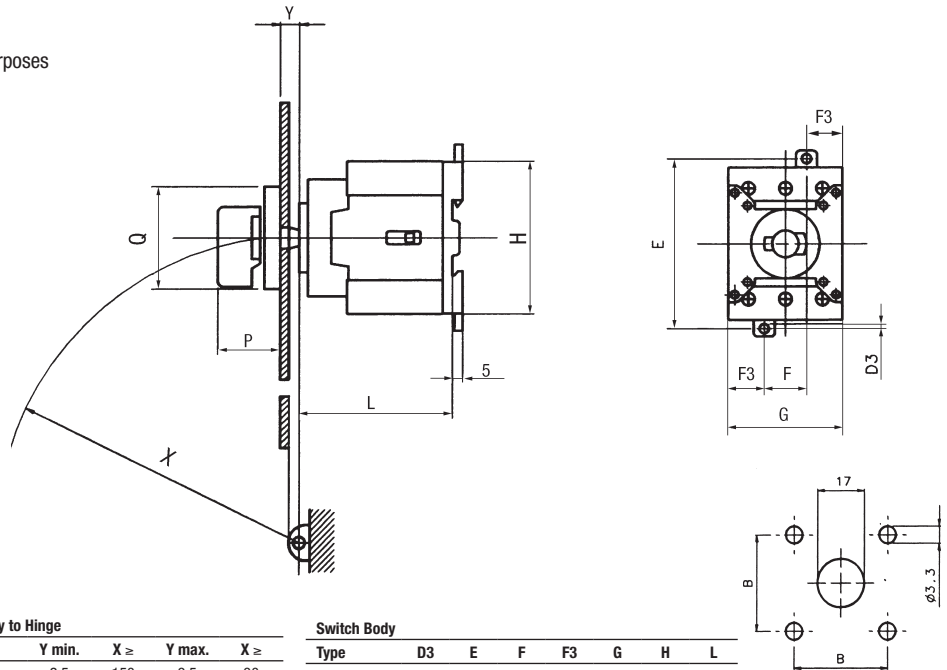
Type	P	Q
LFC2-A-4	29	48 x 48
LFC2-E-4	29	48 x 48
LFC2-I-4	29	48 x 48
LFC2-L-4	29	48 x 48
LFC2-G-6	34	67 x 67
LFC2-N-6	34	67 x 67

Switch Body

Type	L
LE7-16	75.5
LE7-25/32	84.5
LE7-40/63	98.5

LA7 Base Mount (3 Pole) with Screw Fixing Handle

- Dimensions are in millimeters
- Dimensions not intended for manufacturing purposes



Switch Handle

Type	P	Q	B
LFS2-A-4	28	48 x 48	36
LFS2-E-4	28	48 x 48	36
LFS2-I-4	28	48 x 48	36
LFS2-L-4	28	48 x 48	36
LFS2-S-4	28	48 x 62	36
LFS2-A-6	28	64 x 64	48 (36)
LFS2-E-6	28	64 x 64	48 (36)
LFS2-I-6	28	64 x 64	48 (36)
LFS2-L-6	28	64 x 64	48 (36)
LFS2-S-6	28	64 x 78	48 (36)
LFS7-G-4	34	54 x 54	36
LFS7-N-4	34	54 x 54	36
LFS2-G-6	34	67 x 67	48 (36)
LFS2-N-6	34	67 x 67	48 (36)
LFS2-A-8	45	88 x 88	48
LFS2-I-8	45	88 x 88	48
LFS2-G-8	49	88 x 88	48
LFS2-N-8	49	88 x 88	48

Proximity to Hinge

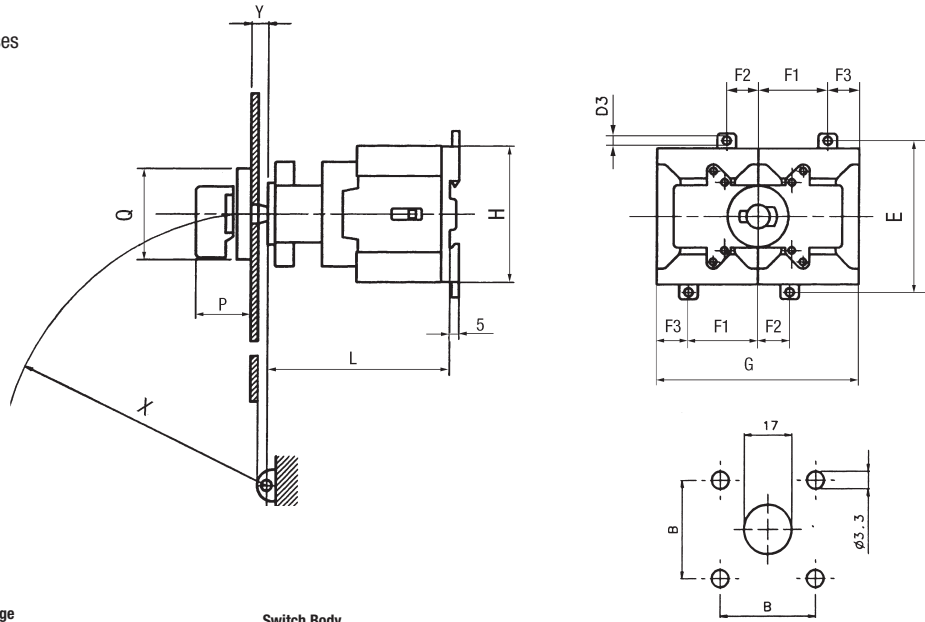
Type	Y min.	X ≥	Y max.	X ≥
LE7-16	2.5	150	9.5	90
LE7-25/32	2.5	150	9.5	90
LE7-40/63	2.5	150	9.5	90
LE7-80/100	2.5	150	9.5	90

Switch Body

Type	D3	E	F	F3	G	H	L
LA7-16	4.5	70	11	12.5	36	63	55
LA7-25/32	4.5	70	15	15	45	63	59
LA7-40/63	4.5	80	20	17	54	72	73
LA7-80/100	5.6	95	25	25.5	72	90	89

LA7 Base Mount (6 Pole) with Screw Fixing Handle

- Dimensions are in millimeters
- Dimensions not intended for manufacturing purposes



Switch Handle

Type	P	Q	B
LFS2-A-4	28	48 x 48	36
LFS2-E-4	28	48 x 48	36
LFS2-I-4	28	48 x 48	36
LFS2-L-4	28	48 x 48	36
LFS2-S-4	28	48 x 62	36
LFS2-A-6	28	64 x 64	48 (36)
LFS2-E-6	28	64 x 64	48 (36)
LFS2-I-6	28	64 x 64	48 (36)
LFS2-L-6	28	64 x 64	48 (36)
LFS2-S-6	28	64 x 78	48 (36)
LFS7-G-4	34	54 x 54	36
LFS7-N-4	34	54 x 54	36
LFS2-G-6	34	67 x 67	48 (36)
LFS2-N-6	34	67 x 67	48 (36)
LFS2-A-8	45	88 x 88	48
LFS2-I-8	45	88 x 88	48
LFS2-G-8	49	88 x 88	48
LFS2-N-8	49	88 x 88	48

Proximity to Hinge

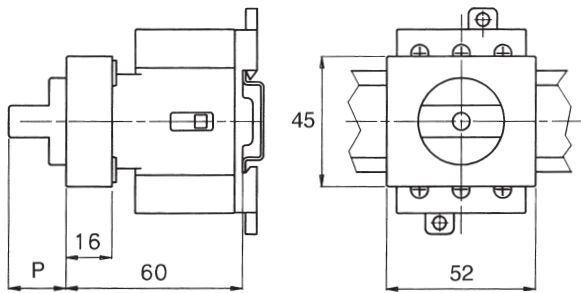
Type	Y min.	X ≥	Y max.	X ≥
LE7-16	2.5	150	9.5	90
LE7-25/32	2.5	150	9.5	90
LE7-40/63	2.5	150	9.5	90
LE7-80/100	2.5	150	9.5	90

Switch Body

Type	D3	E	F1	F2	F3	G	H	L
LA7-16	4.5	70	xx	12.5	12.5	90	63	55
LA7-25/32	4.5	70	30	15	15	90	63	84
LA7-40/63	4.5	80	37	17	17	108	72	98
LA7-80/100	5.6	95	48.5	25.5	25.5	144	90	114

Type Q and Emergency Off Switch

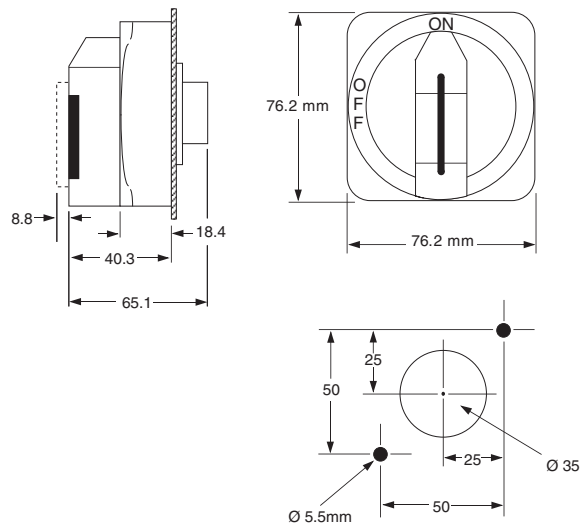
- Dimensions are in millimeters
- Dimensions not intended for manufacturing purposes



Type	P
LA7-25(32)-1753-Q	20
LA7-25(32)-1753-R	23

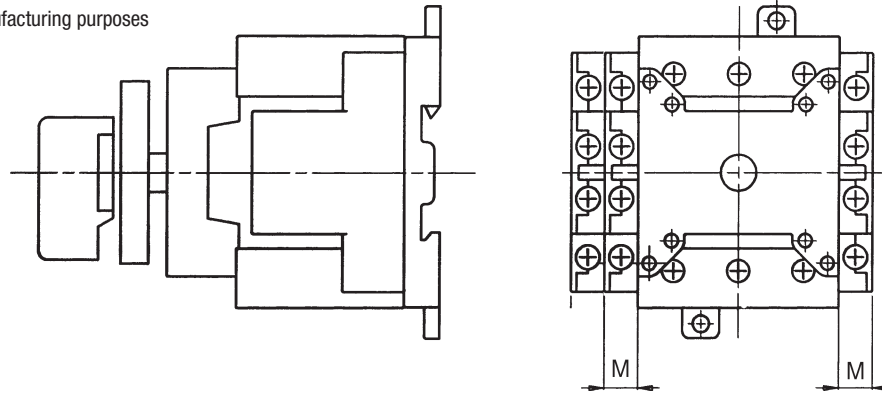
L10-HS4... (Type R) Switch Handle Assembly

- Dimensions are in millimeters
- Dimensions not intended for manufacturing purposes



L7 with Auxiliary Contact Blocks

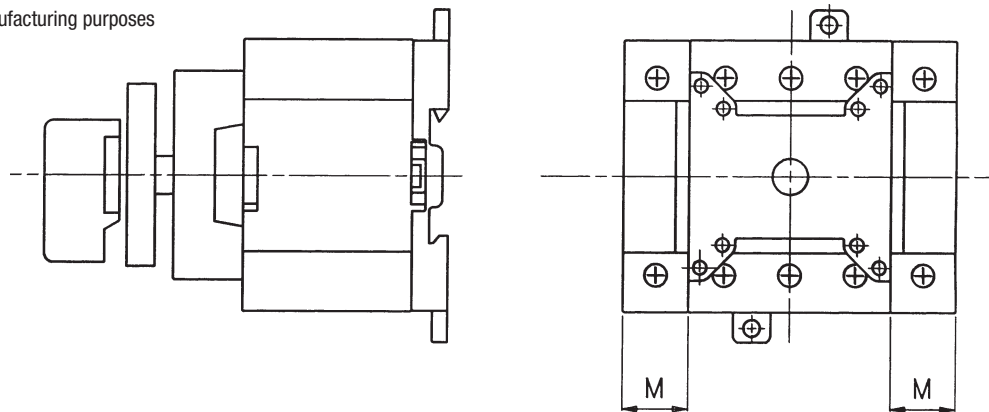
- Dimensions are in millimeters
- Dimensions not intended for manufacturing purposes



Contacts	M
1 N.O. + 1 N.C.	9
2 N.O. + 2 N.C.	18

L7 with Ground, Neutral and Fourth Pole

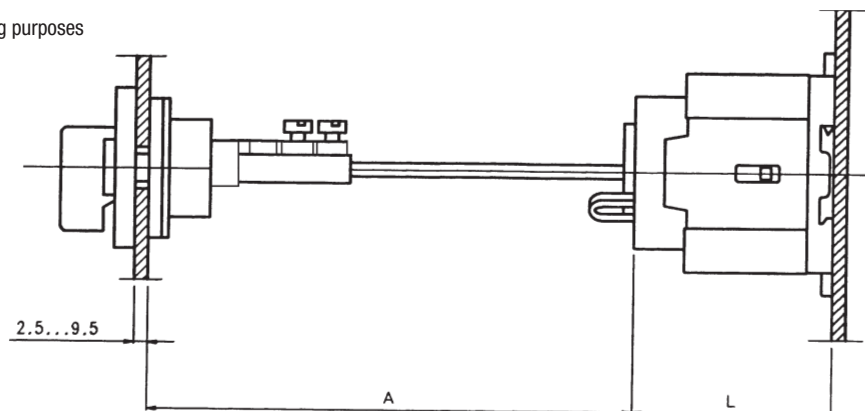
- Dimensions are in millimeters
- Dimensions not intended for manufacturing purposes



Type	M
L7-16	12.5
L7-20/32	14
L7-40/63	17.5
L7-80/100	22

Metal Shaft Extension (LA2-G3393[4])

- Dimensions are in millimeters
- Dimensions not intended for manufacturing purposes

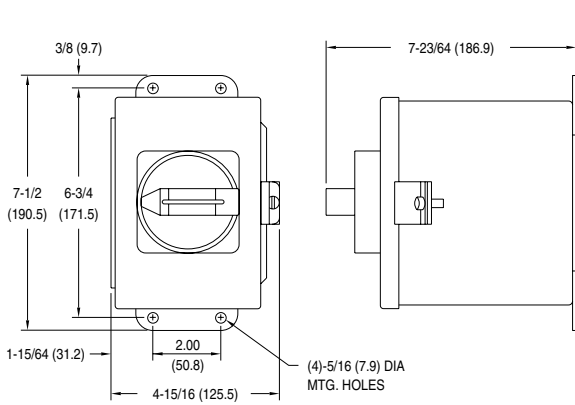


Switch Body	
Type	L
LA7-16	55
LA7-20/32	59
LA7-40/63	73
LA7-80/100	89

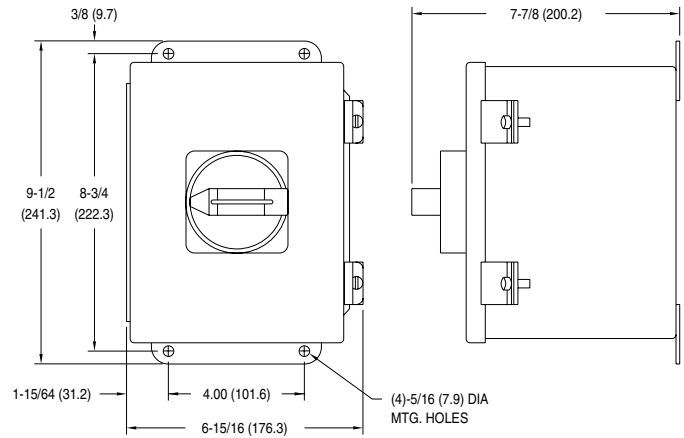
Shaft	
Type	A
LA2-G3393	110...235
LA2-G3394	230...350

L7 Enclosed Motor Disconnect

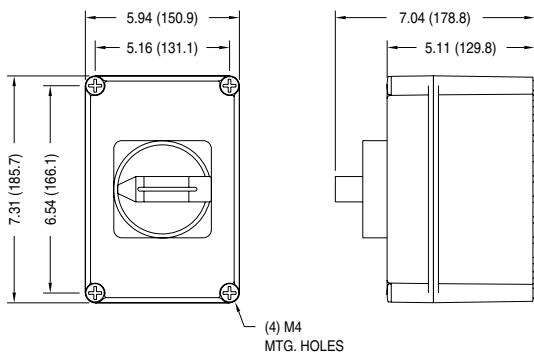
- Dimensions are in millimeters
- Dimensions not intended for manufacturing purposes



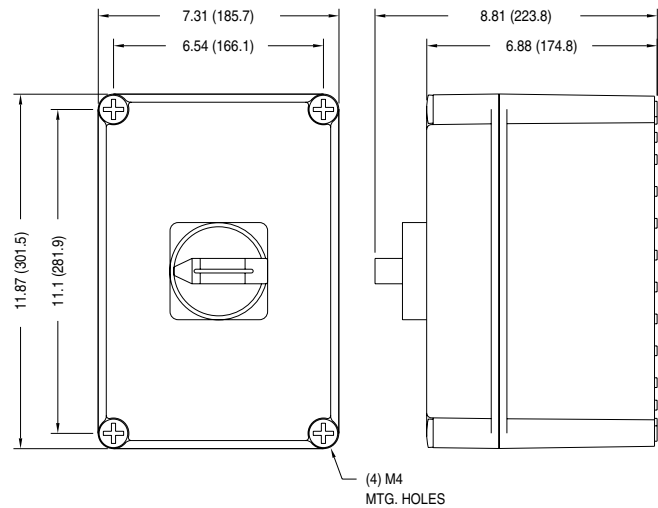
Dimension Code A



Dimension Code B



Dimension Code C

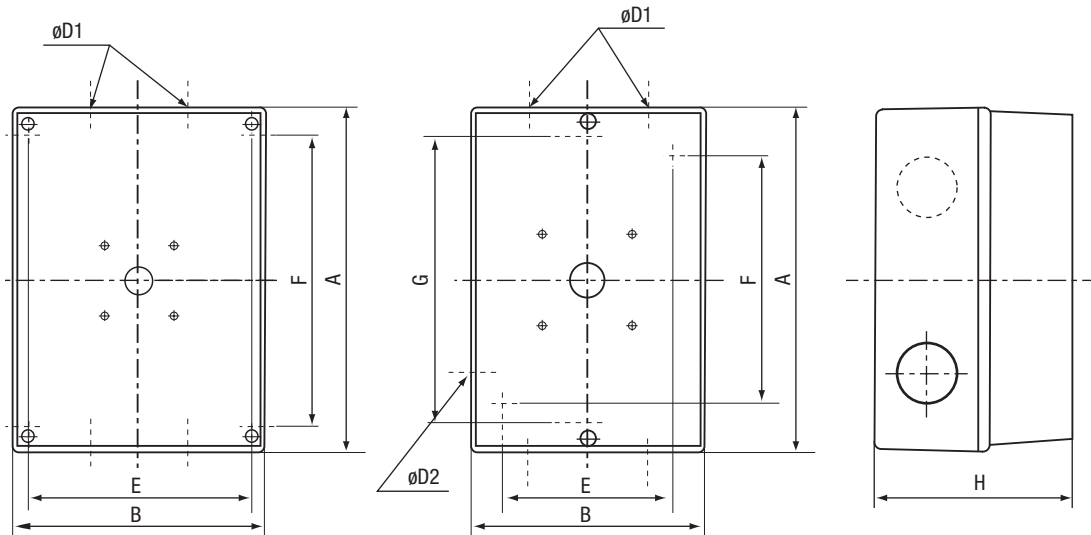


Dimension Code D

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LY7 Enclosed Load Disconnect Switch (and Thermoplastic Enclosures)

- Dimensions are in millimeters
- Dimensions not intended for manufacturing purposes



Type		Enclosure		A	B	øD1	øD2	E	F	G	H
		ABS	Noryl								
LY7-16M	3 poles	LA2-G3572	LA2-G3576	118	70	20	~	50	105	~	70
	6 poles	L7-G3663	L7-G3664	180	125	37.5	~	~	~	145	105
LY7-25/32	3/4 poles	LA2-G3572	LA2-G3576	150	95	22.5	22.5	60	115	~	86
	6 poles	L7-G3663	L7-G3664	180	125	37.5	~	~	~	145	105
LY7-40/63	3/4 poles	L7-G3663	L7-G3664	180	125	37.5	~	~	~	145	105
	6 poles	L7-G3665	L7-G3666	230	175	47.5	~	155	195	~	120
LY7-80/100	3/4 poles	L7-G3665	L7-G3666	230	175	47.5	~	155	195	~	120

Notes

Lined area for notes

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Disconnect Switches

L7

Series L7 Motor Disconnect Switches (to 315A)

Rugged and reliable
motor disconnects up to
100HP (@460V)

Sprecher + Schuh's larger L7 Motor Disconnect Switches extend your range of applications up to 315A. These sturdy switches are compact, reliable and the ideal choice for the rigorous demands of motor disconnect switching.

Flexible switch choices

Two frame sizes provide a range of disconnect switches rated from 125 to 315 amps. Base and panel mount switches are available in both three and four poles. In addition, all switches are available with either box lugs or bolt-on terminals. Box lugs are typically used in most applications, however, bolt-on terminals may be preferred in this size switch, particularly in applications where vibration could loosen connections.

Convenient accessories

Base mount L7 switches come standard with a 195mm (≈7-3/4") metal shaft that can easily be cut to the correct length. A longer shaft is also available. Accessories including auxiliary contact blocks, ground and neutral terminals snap-on without the use of tools. Terminal covers are also available.

Safe and reliable

High short circuit withstand capability ensures a minimum probability of contact welding. Switches with box



lugs are touch safe to IP20, while all Switch Handle Assemblies are dust and splash-proof to UL Type 3, 3R, 12 (IP66). Excellent making and breaking characteristics provide a level of safety that, in many cases, exceeds international standards.

International standards and approvals

L7 Motor Disconnect Switches with box lugs are UL / cUL Listed. L7s with bolt-on lugs are UR / cUR Recognized. All switches carry the CE Mark and meet both IEC 947-1 and 947-3 requirements. They are approved in virtually every international market.

TIP!



To learn the basic differences between control, load and disconnect switches and how to apply them, ask your Sprecher + Schuh representative for publication no: Tech-LMSD



112mm
(≈ 4")
125A
160A



145mm
(≈ 5 3/4")
250A
315A

L29

3 Pole Switches, Front Mounting, Box Lugs, 90° Throw (UL / cUL Listed)

	Catalog Number	Price	Catalog Number	Price	Catalog Number	Price	Catalog Number	Price
3 Pole >	LE7-125-1753	350	LE7-160-1753	450	LE7-250-1753	570	LE7-315-1753	740
Amp Rating I_{the}								
UL/CSA	150		200		250		300	
IEC/VDE/BS	125		160		250		315	
3Ø HP - UL/CSA								
240V	30		40		60		75	
480V	60		60		75		100	
600V	60		60		75		100	
1Ø HP - UL/CSA								
120V	7.5		10		15		20	
240V	20		25		30		35	
Dimension - mm (inches)	108 (4-1/4) - Height 112 (4-13/32) - Width 91 (3-19/32) - Depth ❶				120 (4-47/64) - Height 145 (5-23/32) - Width 103 (4-1/16) - Depth ❶			

4 Pole Switches, Front Mounting, Box Lugs, 90° Throw (UL / cUL Listed)

	Catalog Number	Price	Catalog Number	Price	Catalog Number	Price	Catalog Number	Price
4 Pole >	LE7-125-1754	440	LE7-160-1754	580	LE7-250-1754	740	LE7-315-1754	960
Amp Rating I_{the}								
UL/CSA	150		200		250		300	
IEC/VDE/BS	125		160		250		315	
3Ø HP - UL/CSA								
240V	30		40		60		75	
480V	60		60		75		100	
600V	60		60		75		100	
1Ø HP - UL/CSA								
120V	7.5		10		15		20	
240V	20		25		30		35	
Dimension - mm (inches)	108 (4-1/4) - Height 150 (5-29/32) - Width 91 (3-19/32) - Depth ❶				108 (4-1/4) - Height 197.5 (7-51/64) - Width 103 (4-1/16) - Depth ❶			

❶ (D) Dimension without shaft.

3 Pole Switches, Front Mounting, Bolt-on Wiring, 90° Throw (UR / cUR Recognized)

	Catalog Number	Price	Catalog Number	Price	Catalog Number	Price	Catalog Number	Price
3 Pole >	LF7-125-1753	350	LF7-160-1753	450	LF7-250-1753	570	LF7-315-1753	740
Amp Rating I_{the}								
UL/CSA	150		200		250		300	
IEC/VDE/BS	125		160		250		315	
3Ø HP - UL/CSA								
240V	30		40		60		75	
480V	60		60		75		100	
600V	60		60		75		100	
1Ø HP - UL/CSA								
120V	7.5		10		15		20	
240V	20		25		30		35	
Dimension - mm (inches)	110 (4-21/64) - Height 112 (4-13/32) - Width 91 (3-19/32) - Depth ❶				126 (4-31/32) - Height 145 (6-19/64) - Width 103 (4-1/16) - Depth ❶			

4 Pole Switches, Front Mounting, Bolt-on Wiring, 90° Throw (UR / cUR Recognized)

	Catalog Number	Price	Catalog Number	Price	Catalog Number	Price	Catalog Number	Price
4 Pole >	LF7-125-1754	440	LF7-160-1754	580	LF7-250-1754	740	LF7-315-1754	960
Amp Rating I_{the}								
UL/CSA	150		200		250		300	
IEC/VDE/BS	125		160		250		315	
3Ø HP - UL/CSA								
240V	30		40		60		75	
480V	60		60		75		100	
600V	60		60		75		100	
1Ø HP - UL/CSA								
120V	7.5		10		15		20	
240V	20		25		30		35	
Dimension - mm (inches)	110 (4-21/64) - Height 177.5 (7-1/64) - Width 91 (3-19/32) - Depth ❶				126 (4-31/32) - Height 205 (8-3/32) - Width 103 (4-1/16) - Depth ❶			

❶ (D) dimension without shaft. Overall (H) dimension from edge of connectors.

3 Pole Switches, Base Mounting, Box Lugs, 90° Throw (UL / cUL Listed)

			<p>195mm (≈7-3/4") aluminum shaft with door clutch included with all base mount switches. Longer shaft available, see Accessories.</p>		Catalog Number	Price	Catalog Number	Price	Catalog Number	Price	Catalog Number	Price
					3 Pole >	LA7-125-1753	350	LA7-160-1753	450	LA7-250-1753	570	LA7-315-1753
Amp Rating I_{the}												
UL/CSA	150		200		250		300					
IEC/VDE/BS	125		160		250		315					
3Ø HP - UL/CSA												
240V	30		40		60		75					
480V	60		60		75		100					
600V	60		60		75		100					
1Ø HP - UL/CSA												
120V	7.5		10		15		20					
240V	20		25		30		35					
Dimension - mm (inches)	108 (4-1/4) - Height 112 (4-13/32) - Width 91 (3-19/32) - Depth ❶				126 (4-31/32) - Height 145 (5-23/32) - Width 98 (3-55/64) - Depth ❶							

4 Pole Switches, Base Mounting, Box Lugs, 90° Throw (UL / cUL Listed)

			<p>195mm (≈7-3/4") aluminum shaft with door clutch included with all base mount switches. Longer shaft available, see Accessories.</p>		Catalog Number	Price	Catalog Number	Price	Catalog Number	Price	Catalog Number	Price
					4 Pole >	LA7-125-1754	440	LA7-160-1754	580	LA7-250-1754	740	LA7-315-1754
Amp Rating I_{the}												
UL/CSA	150		200		250		300					
IEC/VDE/BS	125		160		250		315					
3Ø HP - UL/CSA												
240V	30		40		60		75					
480V	60		60		75		100					
600V	60		60		75		100					
1Ø HP - UL/CSA												
120V	7.5		10		15		20					
240V	20		25		30		35					
Dimension - mm (inches)	108 (4-1/4) - Height 150 (5-29/32) - Width 91 (3-19/32) - Depth ❶				108 (4-1/4) - Height 197.5 (7-51/64) - Width 103 (4-1/16) - Depth ❶							

❶ (D) Dimension without shaft.

3 Pole Switches, Base Mounting, Bolt-on Wiring, 90° Throw (UR / cUR Recognized)





			<p>195mm (=7-3/4") aluminum shaft with door clutch included with all base mount switches. Longer shaft available, see Accessories.</p>					
	Catalog Number	Price	Catalog Number	Price	Catalog Number	Price	Catalog Number	Price
3 Pole >	LB7-125-1753	350	LB7-160-1753	450	LB7-250-1753	570	LB7-315-1753	740
Amp Rating I_{the}								
UL/CSA	150		200		250		300	
IEC/VDE/BS	125		160		250		315	
3Ø HP - UL/CSA								
240V	30		40		60		75	
480V	60		60		75		100	
600V	60		60		75		100	
1Ø HP - UL/CSA								
120V	7.5		10		15		20	
240V	20		25		30		35	
Dimension - mm (inches)	120 (4-47/64) - Height 112 (4-13/32) - Width 91 (3-19/32) - Depth ❶				126 (4-31/32) - Height 145 (5-23/32) - Width 98 (3-55/64) - Depth ❶			

4 Pole Switches, Base Mounting, Bolt-on Wiring, 90° Throw (UR / cUR Recognized)

			<p>195mm (=7-3/4") aluminum shaft with door clutch included with all base mount switches. Longer shaft available, see Accessories.</p>					
	Catalog Number	Price	Catalog Number	Price	Catalog Number	Price	Catalog Number	Price
4 Pole >	LB7-125-1754	440	LB7-160-1754	580	LB7-250-1754	740	LB7-315-1754	960
Amp Rating I_{the}								
UL/CSA	150		200		250		300	
IEC/VDE/BS	125		160		250		315	
3Ø HP - UL/CSA								
240V	30		40		60		75	
480V	60		60		75		100	
600V	60		60		75		100	
1Ø HP - UL/CSA								
120V	7.5		10		15		20	
240V	20		25		30		35	
Dimension - mm (inches)	120 (4-47/64) - Height 150 (5-29/32) - Width 91 (3-19/32) - Depth ❶				126 (4-31/32) - Height 197.5 (7-51/64) - Width 98 (3-55/64) - Depth ❶			

❶ (D) dimension without shaft. Overall (H) dimension from edge of connectors.

Switch Handle Assemblies

Switch Handle Assembly ❶	Protection Rating	Color	Mounting Method	For use with...	Frame Size	Legend	Catalog Number	Price
 <p>Type A</p>	IP66 Type 3, 3R, 12	Silver Legend Black Knob	Screw Fixing ❶	Lx7-125...315A	88 x 88	0 OFF ON	LFS7-A-8-175	50
				Lx7-125...315A	130 x 130	0 OFF ON	LFS7-A-13-175	65
 <p>Type I</p>	IP66 Type 3, 3R, 12	Yellow Legend Red Knob	Screw Fixing ❶	Lx7-125...315A	88 x 88	0 OFF ON	LFS7-I-8-175	50
				Lx7-125...315A	130 x 130	0 OFF ON	LFS7-I-13-175	65
 <p>Type G</p>	IP66 Type 3, 3R, 12	Gray Frame Black Knob	Screw Fixing ❶	Lx7-125...315A	90 x 90	0 OFF ON	LFS7-G-8-175	50
				Lx7-125...315A	135 x 135	0 OFF ON	LFS7-G-13-175	65
 <p>Type N</p>	IP66 Type 3, 3R, 12	Yellow Frame Red Knob	Screw Fixing ❶	Lx7-125...315A	90 x 90	0 OFF ON	LFS7-N-8-175	50
				Lx7-125...315A	135 x 135	0 OFF ON	LFS7-N-13-175	65


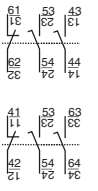
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Disconnect
Switches





L7

❶ Mounting screws included with Switch Body Assembly.




Auxiliary Contact Blocks

Aux. Contact Block	Contact Configuration	For use with...	Catalog Number	Price
One NC - Two NO (Early Break)				
		LA7-125...160 LB7-125...160	L7-AB-P21-160	125
		LA7-250...315 LB7-250...315	L7-AB-P21-315	125
		LE7-125...160 LF7-125...160	L7-EF-P21-160	125
		LE7-250...315 LF7-250...315	L7-EF-P21-315	125

Ground & Neutral Terminals

Aux. Contact Block	Contact Configuration	For use with...	Catalog Number	Price
One NC - Two NO (Early Break)				
		LA7-125...160 LE7-125...160	L7-AE160-PE	150
		LA7-250...315 LE7-250...315	L7-AE315-PE	250
		LB7-125...160 LF7-125...160	L7-BF160-PE	150
		LB7-250 LF7-250	L7-BF250-PE	250
		LB7-315 LF7-315	L7-BF315-PE	250
		Neutral Terminal		
		LA7-125...160 LE7-125...160	L7-AE160-TN	150
		LA7-250...315 LE7-250...315	L7-AE315-TN	250
		LB7-125...160 LF7-125...160	L7-BF160-TN	150
		LB7-250 LF7-250	L7-BF250-TN	250
		LB7-315 LF7-315	L7-BF315-TN	250

L7 Switch Accessories

Accessory	Description	Cat. Number	Price
	Long Shaft - 40cm (15-3/4") For LA7/LB7-125...315	L7-AB40	28
	Terminal Covers - two covers required per pole For LA/LE7-125...160 For LA7/LE7-250...315 For LB7/LF7-125...160 For LB7/LF7-250...315	L7-AE125-C1 L7-AE250-C1 L7-AE125-C1 L7-AE250-C1	15 24 15 24
	Nameplate & Frame - Attaches to top or side of all Lx7 Switch Handles (19.2mm x 49mm) Gray & Black Blank MAIN SWITCH HAUPTSCHALTER INTERR. PRINCIPALE INTERR. PRINCIPAL INTERR. PRINCIPAL HUVUDBRYTARE WAHLSCHALTER Red & Yellow EMERGENCY OFF	L2-G3515 L2-G3515A L2-G3515B L2-G3515C L2-G3515D L2-G3515E L2-G3515F L2-G3515G L2-G3515H	12 19 19

10 per package

Technical Information

				125A	160A	250A	315A	
IEC Performance Data								
Rated insulation voltage U_i ①		[V]		1000	1000	1000	1000	
Rated impulse withstand voltage U_{imp}		[kV]		8	8	8	8	
Test voltage U_i	1 minute	[kV]		3.5	3.5	3.5	3.5	
Rated voltage U_e ①②		[V]		1000	1000	1000	1000	
Rated Frequency		[Hz]		50/60	50/60	50/60	50/60	
Conventional free air thermal current I_{th}		[A]		125	160	250	315	
Conventional enclosed thermal current I_{the}		[A]		125	160	250	315	
Rated Current I_e ①								
AC-1	Non-inductive or only slightly inductive loads	690V	[A]	125	160	250	315	
AC-21A	Switching of resistive loads with slight overload							
Rated Power P_e								
AC-23A	Occasional switching of 3 ϕ motors and other highly inductive loads (criterion for selecting main switches)	230V	[kW]	30	30	37	55	
		400V	[kW]	45	55	90	110	
		690V	[kW]	37	37	45	45	
AC-3	Squirrel cage motors; starting and stopping of running motors	230V	[kW]	22	30	37	45	
		400V	[kW]	37	45	55	75	
		690V	[kW]	30	37	45	45	
Short circuit current (Type 2 coordination)								
	-Rated conditional short circuit current	400/415V	[kA]	30	30	30	30	
	-Maximum fuse rating of circuit (type g, G)		[A]	125	160	250	315	
	-Rated short-time current 1cw, 1s		[A]	2500	3000	4600	5800	
Rated breaking capacity AC23A (cosϕ 0.45)								
		230V	[A]	800	900	1600	1800	
		400V	[A]	750	850	1380	1650	
		690V	[A]	340	340	400	400	
DC switching capacity								
Rated current I_e								
DC-21A - For resistive loads, T < 1 ms	3 poles	60V	[A]	125	160	250	315	
		in series	110V	[A]	110	140	220	280
		220V	[A]	45	55	85	110	
in series	4 poles	110V	[A]	125	160	250	315	
		220V	[A]	80	100	150	200	
		440V	[A]	16	20	32	40	
Rated power P_e								
DC-22A, DC-3	4 poles	24V	[kW]	3	3.8	6	7.5	
		in series	48V	[kW]	6	7.5	12	15
		60V	[kW]	7.5	9.5	15	19	
For inductive loads, T \leq 2.5 ms	in series	110V	[kW]	10	12.5	20	25	
		220V	[kW]	4.5	5.5	8	10	
Rated power P_e								
DC-23A, DC-5	4 poles	24V	[kW]	3	3.8	6	7.5	
		in series	48V	[kW]	6	7.5	12	15
		60V	[kW]	7.5	9.5	15	19	
For inductive loads, T \leq 15 ms	in series	110V	[kW]	8.8	11	17.5	22	
		220V	[kW]	2.5	3.5	5.5	7	

① Valid for line with grounded common neutral termination, overvoltage category III, pollution degree 3. Other values on request.

② Not suitable for load switching applications (AC-20) above 690V.

Technical Information (continued)

			125A	160A	250A	315A	
UL/CSA Data							
Rated insulation voltage		[V]	600	600	600	600	
Rated voltage		[V]	600	600	600	600	
Continuous current		[A]	150	200	250	300	
Amp rating for general use		[A]	150	200	250	300	
Motor Rating 60Hz	Single phase, 2 poles	120V	[FLA]	80	100	135	180
			[HP]	7.5	10	15	20
		240V	[FLA]	88	110	136	155
			[HP]	20	25	30	35
		480V	[FLA]	78	88	99	108
			[HP]	35	40	45	50
	Three phase	600V	[FLA]	62	70	86	104
			[HP]	35	40	50	60
		120V	[FLA]	84	108	160	208
			[HP]	15	20	30	40
		240V	[FLA]	80	104	154	192
			[HP]	30	40	60	75
	480V	[FLA]	77	77	96	124	
	[HP]	60	60	75	100		
	600V	[FLA]	62	62	77	99	
	[HP]	60	60	75	100		

Mechanical Data

			125A	160A	250A	315A
Protection class according to IEC 529						
Motor rating 60 Hz						
Switch Handles			IP66	IP66	IP66	IP66
Box lugs			IP20	IP20	IP20	IP20
Bolt-on			IP20	IP20	IP20	IP20
Mechanical life	[millions of operations]		0.1	0.1	0.075	0.075
Temperature Range	operation	[°C]	-5...+40 (+23°F...+104°F)			
	storage	[°C]	-25...+55 / max. 70°C for 24 hr. (-13°F...+131°F / max.+158°F for 24 hr.)			
Maximum wire gauges						
Terminal size per IEC 947-1	Gauge	No.	B11	B11	B14	B14
Fine strands, 1 conductor	Max.	[mm ²]	70	70	150	150
	Min.	[mm ²]	16	16	25	25
Rigid wire, 1 conductor	Max.	[mm ²]	95	95	185	185
	Min.	[mm ²]	10	10	16	16
Wire gauges according to UL/CSA						
	Max.	[AWG]	3 / 0	3 / 0	~	350
		[MCM]	~	~	350	350
	Min.	[AWG]	8	8	4	4

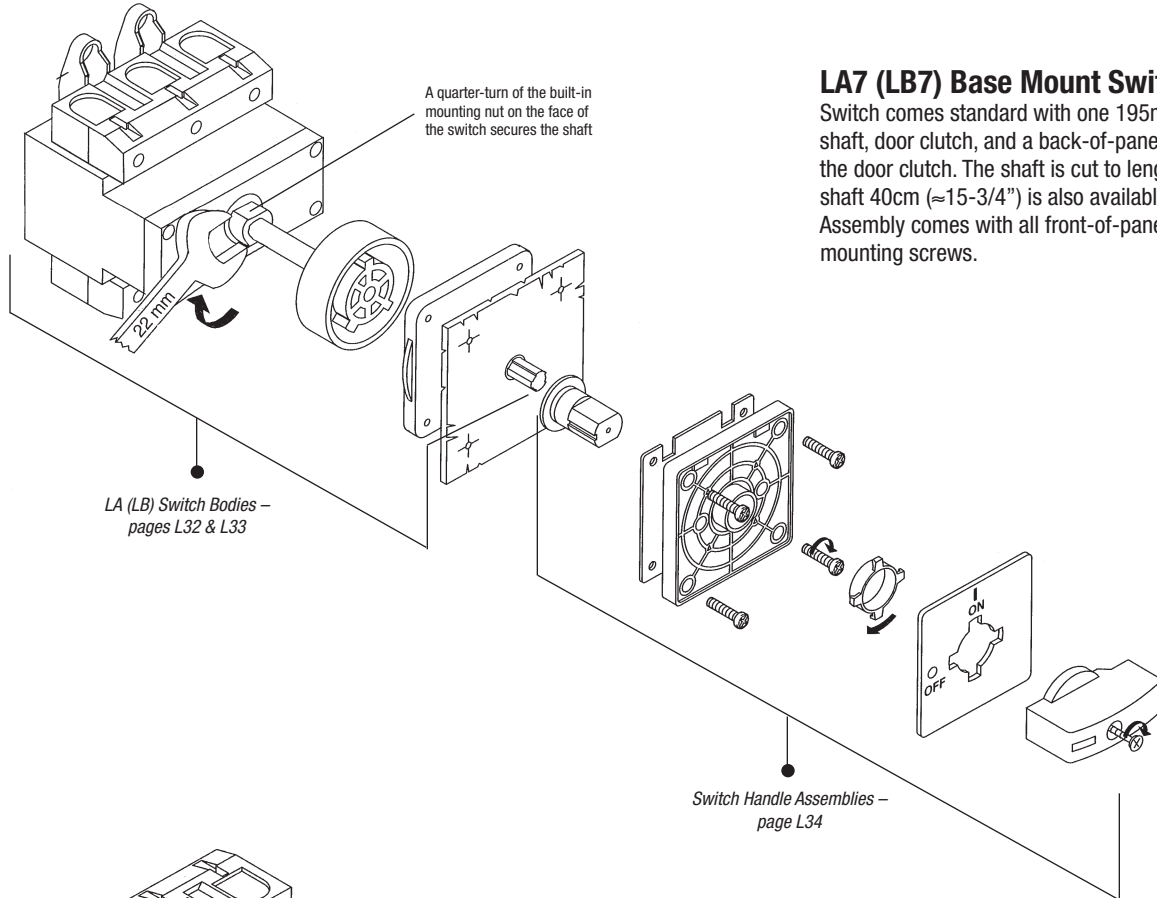
Approvals

Catalog No. or Designation		UL Listed (marked with UL)	UR Recognized (marked with UR)	UL Listed for Canada (marked with cUL)	UR Recognized for Canada (marked with cUR)	CE
LA7-125	LE7-125	A		A		A
LA7-160	LE7-160	A		A		A
LA7-250	LE7-250	A		A		A
LA7-315	LE7-315	A		A		A
LB7-125	LF7-125		A		A	A
LB7-160	LF7-160		A		A	A
LB7-250	LF7-250		A		A	A
LB7-315	LF7-315		A		A	A
Auxiliary Switch Blocks		Z	Z	Z	Z	Z
Ground Terminal		Z	Z	Z	Z	Z
Neutral Terminal		Z	Z	Z	Z	Z

A = Approved or test passed

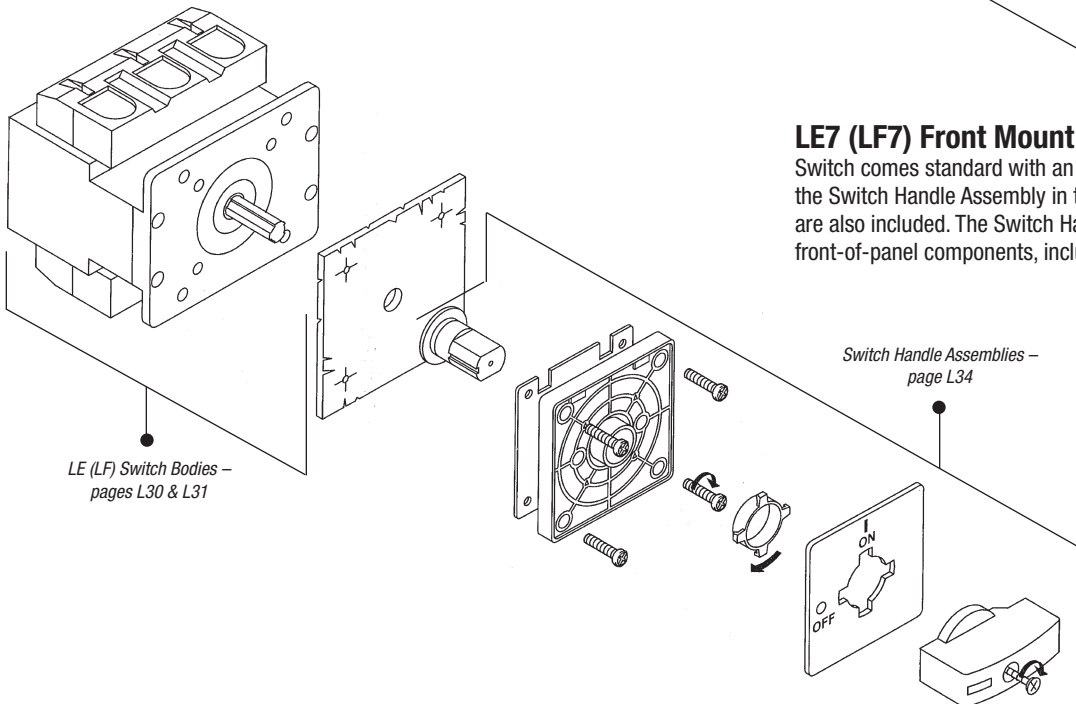
Z = Accessories are covered by the approval for the switch

Exploded Views



LA7 (LB7) Base Mount Switches

Switch comes standard with one 195mm (≈7-3/4”) aluminum shaft, door clutch, and a back-of-panel interlock for mating with the door clutch. The shaft is cut to length in the field. A longer shaft 40cm (≈15-3/4”) is also available. The Switch Handle Assembly comes with all front-of-panel components, including mounting screws.



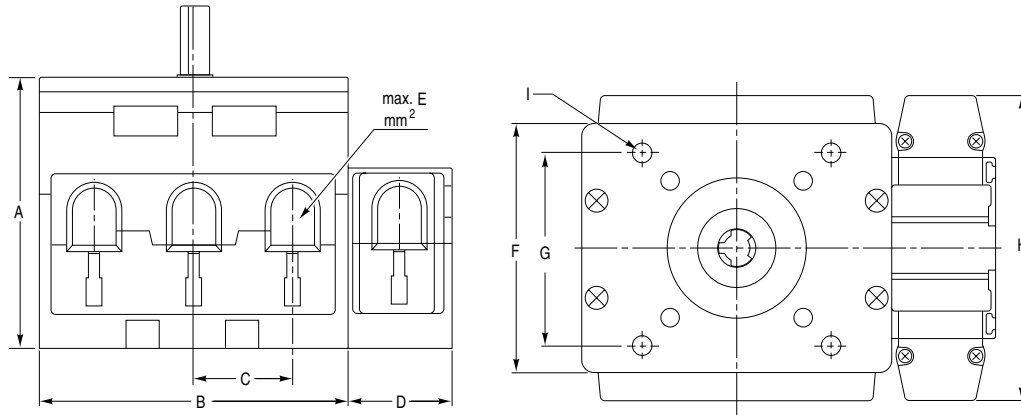
LE7 (LF7) Front Mount Switches

Switch comes standard with an integral shaft which mates with the Switch Handle Assembly in the field. Panel mounting screws are also included. The Switch Handle Assembly comes with all front-of-panel components, including mounting screws.

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LE7 Front Mount with Box Lugs (3 & 4 Pole)

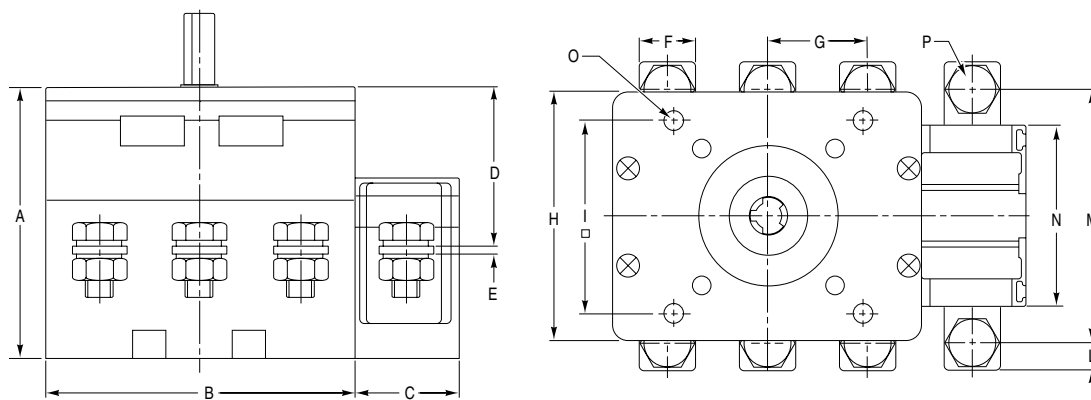
- Dimensions are in millimeters
- Dimensions not intended for manufacturing purposes



	A	B	C	D	E	F	G	H	I
125A	91 (3-19/32)	112 (4-13/32)	36 (1-13/32)	38 (1-1/2)	95 (3-23/64)	88 (3-7/16)	68 (2-5/8)	108 (4-1/4)	M5 (3/16)
160A	91 (3-19/32)	112 (4-13/32)	36 (1-13/32)	38 (1-1/2)	95 (3-23/64)	88 (3-7/16)	68 (2-5/8)	108 (4-1/4)	M5 (3/16)
250A	103 (4-3/64)	145 (5-23/32)	44 (1-23/32)	52.5 (2-1/16)	185 (7-9/32)	88 (3-7/16)	68 (2-5/8)	120 (4-11/16)	M5 (3/16)
315A	103 (4-3/64)	145 (5-23/32)	44 (1-23/32)	52.5 (2-1/16)	185 (7-9/32)	88 (3-7/16)	68 (2-5/8)	120 (4-11/16)	M5 (3/16)

LF7 Front Mount with Bolt-on Terminals (3 & 4 Pole)

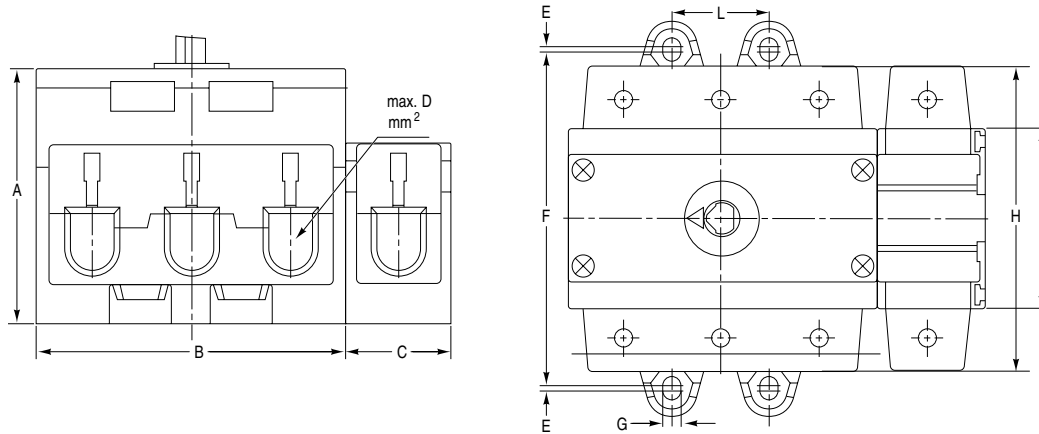
- Dimensions are in millimeters
- Dimensions not intended for manufacturing purposes



	A	B	C	D	E	F	G	H	I	L	M	N	O	P
125A	91 (3-19/32)	112 (4-13/32)	38 (1-1/2)	65.5 (2-9/16)	3 (1/8)	2 (3/32)	36 (1-13/32)	88 (3-7/16)	68 (2-5/8)	10 (13/32)	90 (3-17/32)	64 (2-17/32)	M5 (3/16)	M10 (3/8)
160A	91 (3-19/32)	112 (4-13/32)	38 (1-1/2)	65.5 (2-9/16)	3 (1/8)	2 (3/32)	36 (1-13/32)	88 (3-7/16)	68 (2-5/8)	10 (13/32)	90 (3-17/32)	64 (2-17/32)	M5 (3/16)	M10 (3/8)
250A	103 (4-3/64)	145 (5-23/32)	52.5 (1-22/32)	60.4 (2-3/8)	4 (5/32)	2 (3/32)	44 (1-23/32)	88 (3-7/16)	68 (2-5/8)	13 (1/2)	100 (3-15/16)	70 (2-3/4)	M5 (3/16)	M12 (15/32)
315A	103 (4-3/64)	145 (5-23/32)	52.5 (1-22/32)	60.4 (2-3/8)	4 (5/32)	2 (3/32)	44 (1-23/32)	88 (3-7/16)	68 (2-5/8)	13 (1/2)	100 (3-15/16)	70 (2-3/4)	M5 (3/16)	M12 (15/32)

LA7 Base Mount with Box Lugs (3 & 4 Pole)

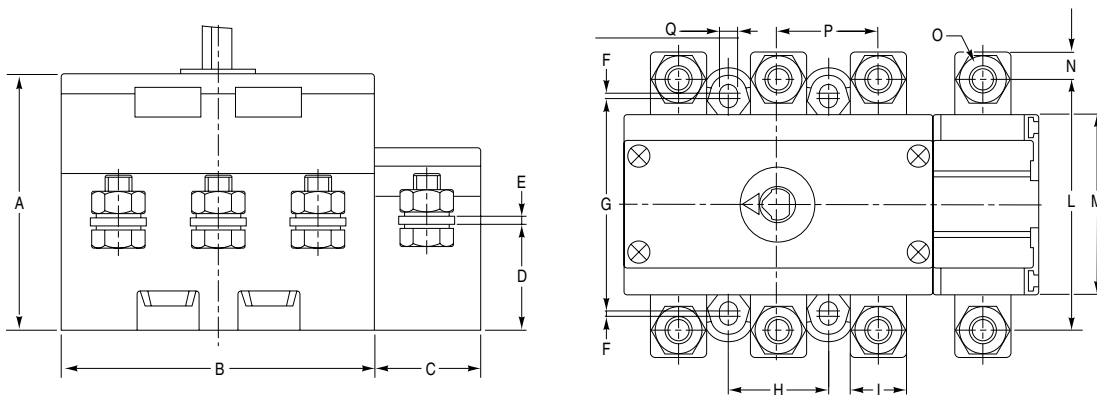
- Dimensions are in millimeters
- Dimensions not intended for manufacturing purposes



	A	B	C	D	E	F	G	H	I	L
125A	91 (3-19/32)	112 (4-13/32)	38 (1-1/2)	95 (3-23/64)	2 (3/32)	118 (4-5/8)	6.4 (1/4)	108 (4-1/4)	64 (2-17/32)	36 (1-13/32)
160A	91 (3-19/32)	112 (4-13/32)	38 (1-1/2)	95 (3-23/64)	2 (3/32)	118 (4-5/8)	6.4 (1/4)	108 (4-1/4)	64 (2-17/32)	36 (1-13/32)
250A	98 (3-27/32)	145 (5-23/32)	52.5 (1-23/32)	185 (7-9/32)	2 (3/32)	140 (5-1/2)	6.4 (1/4)	126 (4-15/16)	70 (2-3/4)	44 (2-1/16)
315A	98 (3-27/32)	145 (5-23/32)	52.5 (1-23/32)	185 (7-9/32)	2 (3/32)	140 (5-1/2)	6.4 (1/4)	126 (4-15/16)	70 (2-3/4)	44 (2-1/16)

LB7 Base Mount with Bolt-on Terminals (3 & 4 Pole)

- Dimensions are in millimeters
- Dimensions not intended for manufacturing purposes

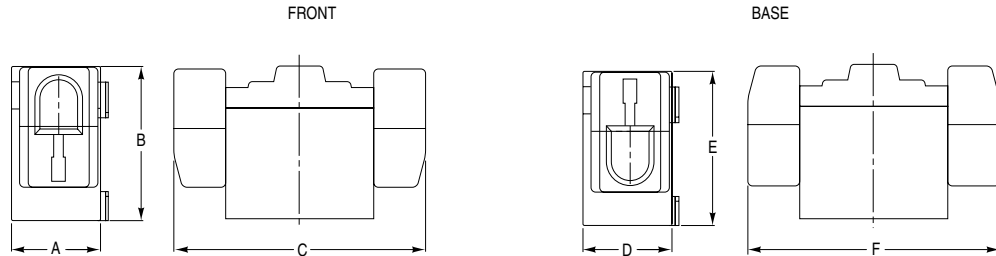


	A	B	C	D	E	F	G	H	I	L	M	N	O	P	Q
125A	91 (3-19/32)	112 (4-13/32)	38 (1-1/2)	35.5 (1-7/16)	3 (1/8)	2 (3/32)	76 (3)	36 (1-13/32)	20 (3/4)	90 (3-17/32)	64 (2-17/32)	10 (13/32)	M10 (3/8)	36 (1-13/32)	6.4 (1/4)
160A	91 (3-19/32)	112 (4-13/32)	38 (1-1/2)	35.5 (1-7/16)	3 (1/8)	2 (3/32)	76 (3)	36 (1-13/32)	20 (3/4)	90 (3-17/32)	64 (2-17/32)	10 (13/32)	M10 (3/8)	36 (1-13/32)	6.4 (1/4)
250A	98 (3-27/64)	145 (5-23/32)	52.5 (1-23/32)	38.6 (1-1/2)	4 (5/32)	2 (3/32)	80 (3-1/8)	44 (1-23/32)	26 (1-1/64)	100 (3-15/16)	70 (2-3/4)	13 (1/2)	M12 (15/32)	44 (1-23/32)	6.4 (1/4)
315A	98 (3-27/64)	145 (5-23/32)	52.5 (1-23/32)	38.6 (1-1/2)	4 (5/32)	2 (3/32)	80 (3-1/8)	44 (1-23/32)	26 (1-1/64)	100 (3-15/16)	70 (2-3/4)	13 (1/2)	M12 (15/32)	44 (1-23/32)	6.4 (1/4)

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Box Lug Ground and Neutral Terminal

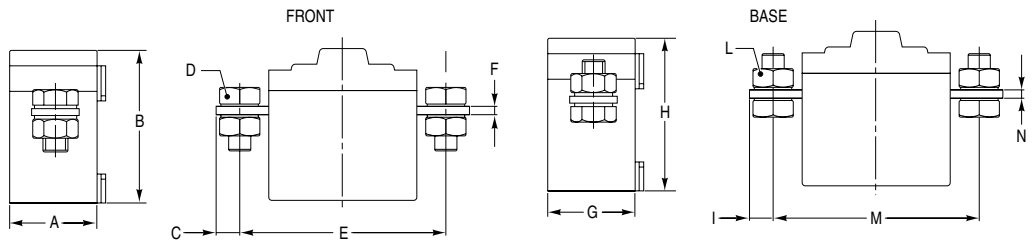
- Dimensions are in millimeters
- Dimensions not intended for manufacturing purposes



	A	B	C	D	E	F
125 / 160A	37.8 (1-1/2)	64 (2-17/32)	108 (4-1/4)	37.8 (1-1/2)	64 (2-17/32)	108 (4-1/4)
250 / 315A	52.3 (2-1/16)	71.1 (2-25/32)	126 (4-15/16)	52.3 (2-1/16)	80.6 (3-1/8)	126 (4-15/16)

Bolt-on Ground and Neutral Terminal

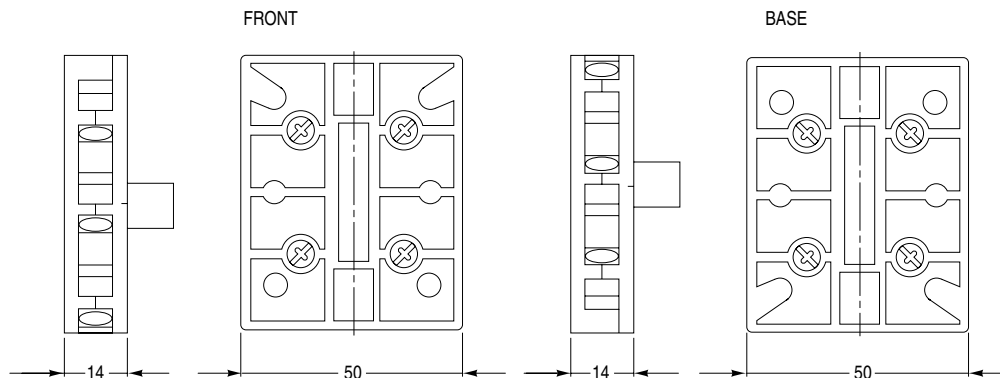
- Dimensions are in millimeters
- Dimensions not intended for manufacturing purposes



	A	B	C	D	E	F	G	H	I	L	M	N
125 / 160A	37.8 (1-1/2)	64 (2-17/32)	10 (13/32)	M10 (13/32)	90 (3-17/32)	3 (1/8)	37.8 (1-1/2)	64 (2-17/32)	10 (13/32)	M10 (13/32)	90 (3-17/32)	3 (1/8)
250 / 315A	52.3 (2-1/16)	68 (2-21/32)	13 (1/2)	M12 (15/32)	100 (3-15/16)	4 (5/32)	52.3 (2-1/16)	68 (2-21/32)	13 (1/2)	M12 (15/32)	100 (3-15/16)	4 (5/32)

Auxiliary Contacts

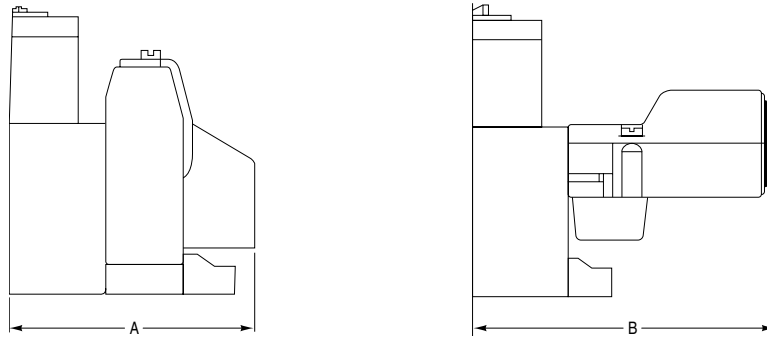
- Dimensions are in millimeters
- Dimensions not intended for manufacturing purposes



Terminal Cover

- Dimensions are in millimeters
- Dimensions not intended for manufacturing purposes

	A	B
125 / 160A	76.2 (3)	95 (3-3/4)
250 / 315A	88 (3-15/32)	109.5 (4-5/16)

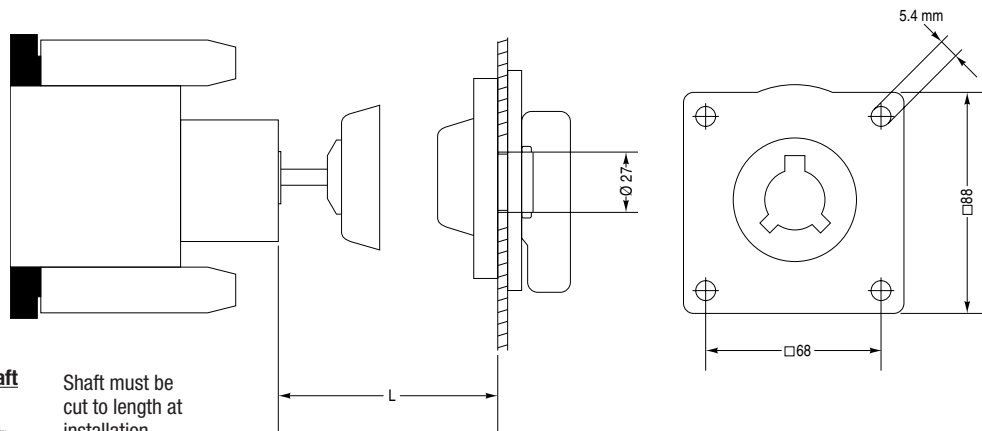


Door Clutches

- Dimensions are in millimeters
- Dimensions not intended for

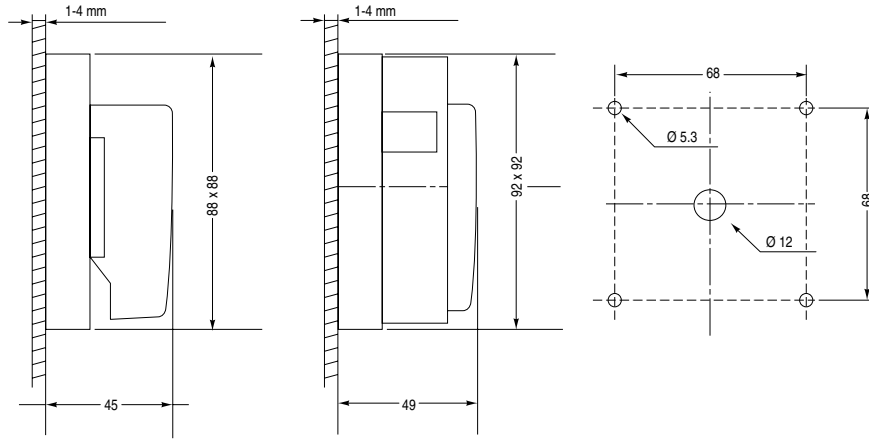
L for Standard Shaft
93 – 199mm
(3-21/32" – 7-27/32")

Shaft must be cut to length at installation.



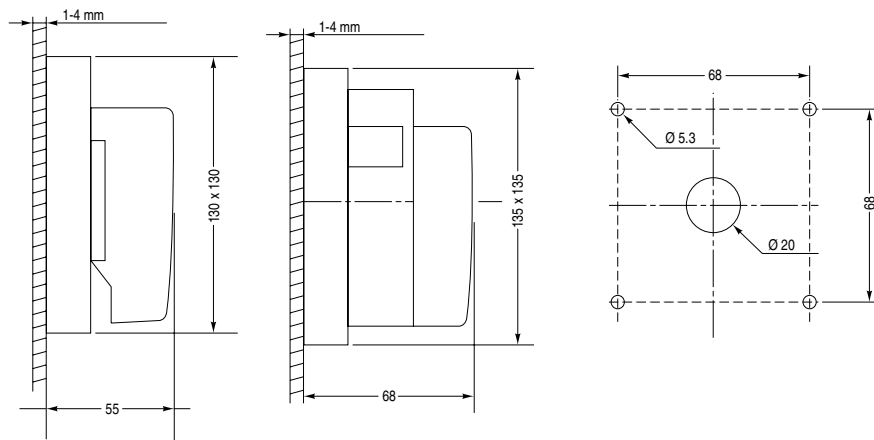
Switch Handle Assemblies (Types A, I, G & N small)

- Dimensions are in millimeters
- Dimensions not intended for



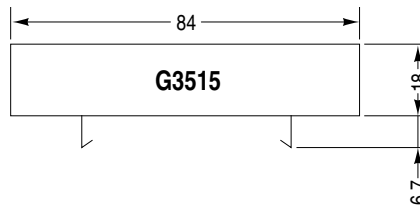
Switch Handle Assemblies (Types A, I, G & N large)

- Dimensions are in millimeters
- Dimensions not intended for



Additional Name Plate

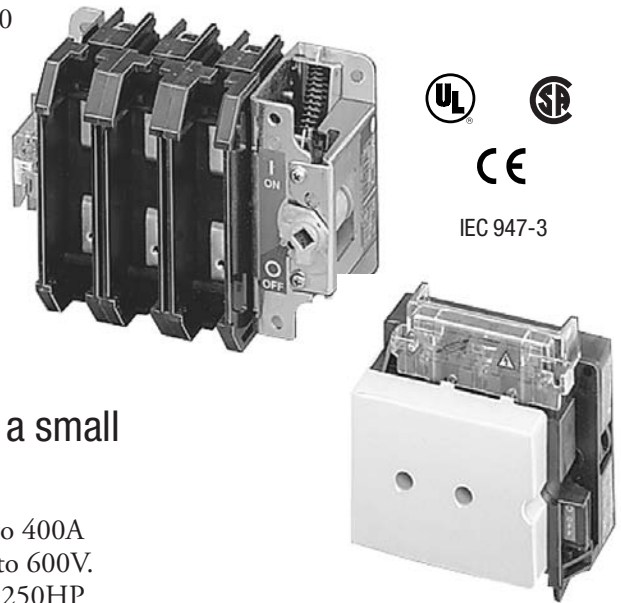
Frame and legend snap on to Switch Handle Assembly frame. Fits all Switch Handle Assemblies.



Series L10 Fusible & Non-fusible Disconnect Switches

Suitable as a *Service
Entrance Disconnecting
Means*

Sprecher + Schuh's new L10 series of fused and non-fused disconnect switches comply with service entrance requirements. This family of rod operated switches is suitable for applications that require small panel space and superior short circuit protection.



UL SP
CE
IEC 947-3

Big performance in a small package

L10 disconnects are rated to 400A and can be operated at up to 600V. They protect motors up to 250HP (@460V). The L10 may be installed on circuits capable of delivering up to 100,000A of short circuit fault current; levels typically found in modern industrial facilities. This performance comes in a small package, leaving room for additional branch circuit components within the panel.

Maximum protection for downstream equipment

L10 switches are engineered to provide excellent short-circuit protection for downstream equipment. These switches accept the latest small-dimension HRCI-J and HRCII-C fuses. This Type 2 protection limits let-through currents to levels specified for IEC equipment, and ensures that when the short circuit is cleared, the device will be operable.

Meets the toughest safety standards

The L10 series is suitable for use in service entrance applications. Further insuring safety, line-side terminal shields are standard on all L10 disconnects. Non-fused switches (30 & 60A) feature "dead-front" construction while fuse covers are available for all devices, preventing contact with live parts.

Common parts reduce inventory

Universal auxiliary contact blocks fit on all frame sizes, reducing inventory. In addition, all 30 and 60A switches use the same operating handles and shafts, ditto for the 100, 200 and 400A frame sizes. On-board fuse carriers also eliminate the need for extra components while reducing panel space requirements.

Comprehensive standards and approvals

L10 disconnect switches conform to UL 98 standards (100-400A switches) and UL1087/489 standards (30 & 60A switches; are UL Listed, CSA, ASTA and LOVAG Certified and are designed to meet IEC 947-3, VDE, DIN, BS and applicable NEMA requirements.

TIP!





To learn the basic differences between control, load and fusible disconnect switches and how to apply them, ask your Sprecher + Schuh representative for publication no: Tech-LMSD




Up to four auxiliary contact blocks can be fitted on each L10 disconnect switch

UL/CSA Fused Disconnect Switches

Switch (typical)	Amp Rating (A)	Maximum Horsepower ❶								Catalog Number	Price	Dimension Code
		1 Ø (60Hz)		Three Phase (60Hz)				DC				
		115V	230V	200V	230V	460V	575V	125V	250V			
UL Class J and CSA HRCI-J Fuses ❷												
	30	2	3	7.5	7.5	15	20	3	5	L10-NJ030P3	223	A1
	60	3	10	15	15	30	50	5	10	L10-NJ060P3	290	B1
	100	7.5	15	25	30	60	75	~	20	L10-NJ100P3	458	C1
	200	~	25	50	60	125	150	~	40	L10-NJ200P3	1010	D1
	400	~	50	100	125	250	300	~	50	L10-NJ400P3	1930	F1
CSA HRCII-C Fuses												
	30	2	3	7.5	7.5	15	20	~	~	L10-NA200P3	223	A1
	60	3	10	15	15	30	50	~	~	L10-NA300P3	290	B1
	100	~	15	25	30	60	75	~	~	L10-NH100P3	458	D1
	200	~	30	50	60	125	150	~	~	L10-NH200P3	1010	E1
	400	~	50	100	125	250	300	~	~	L10-NH400P3	1930	F1

UL/CSA Non-Fused Disconnect Switches ❸

Switch (typical)	Amp Rating (A)	Maximum Horsepower ❶								Catalog Number	Price	Dimension Code
		1 Ø (60Hz)		Three Phase (60Hz)				DC				
		115V	230V	200V	230V	460V	575V	125V	250V			
	30	2	3	7.5	7.5	15	20	3	5	L10-NN030P3	188	A2
	60	3	10	15	15	30	50	5	10	L10-NN060P3	255	B2
	100	~	15	25	30	60	75	~	20	L10-NN100P3	458	C1
	200	~	25	50	60	125	150	~	40	L10-NN200P3	1010	D1
	400	~	50	100	125	250	300	~	50	L10-NN400P3	1930	F1





Note: L10 Fusible and Non-fusible Disconnect Switches with dimension codes D, E & F require lugs. Sprecher + Schuh lugs available on page L49.

Ordering Instructions

- Specify Disconnect Switch catalog number (page L46)
- Specify desired switch handle catalog number (page L47)
- Specify desired operating shaft catalog number (page L48)
- Specify desired accessories (page L49)





- ❶ Time delay fuses may be required to utilize the disconnect switch at its maximum horsepower rating.
- ❷ Only UL listed Class J and CSA Certified HRCI-J fuses are suitable for use with these disconnect switches.
- ❸ Non-fused disconnect switches must use separately installed UL Listed Class J, CC or T fuses or CSA Certified HRCI-J fuses.

Switch Handle Assemblies


Switch Handle Assembly ❶	Description	Color	Degree of Protection	Catalog Number	Price
 <p>Type R Handle with defeater 76 x 76mm</p>	<p>Type R Handle - For 30A and 60A switches</p> <p>- With Defeater - Lockable: 3 locks ❷</p>	Black	Type 1 – IP42	L10-HS1	22
			Type 3R, 3, 12, 4, 4X – IP66	L10-HS4	33
		Red/Yellow	Type 1 – IP42	L10-HS1E	22
			Type 3R, 3, 12, 4, 4X – IP66	L10-HS4E	33
 <p>Type R Handle without defeater 76 x 76mm</p>	<p>Type R Handle - For 30A and 60A switches</p> <p>- Without Defeater - Lockable: 3 locks ❷</p>	Black	Type 1 – IP42	L10-HS1-N2	42
			Type 3R, 3, 12, 4, 4X – IP66	L10-HS4-N2	33
		Red/Yellow	Type 1 – IP42	L10-HS1E-N2	42
			Type 3R, 3, 12, 4, 4X – IP66	L10-HS4E-N2	33
 <p>Pistol Grip Handle with defeater 103 X 103mm</p>	<p>Pistol Grip Handle - For 100A, 200A and 400A switches ❸</p> <p>- With Defeater - Lockable: 3 locks ❷</p>	Black	Type 1 – IP42	L10-HM1	42
			Type 3R, 3, 12, 4, 4X – IP66	L10-HM4	64
		Red/Yellow	Type 1 – IP42	L10-HM1E	42
			Type 3R, 3, 12, 4, 4X – IP66	L10-HM4E	64
 <p>Pistol Grip Handle without defeater 103 X 103mm</p>	<p>Pistol Grip Handle - For 100A, 200A and 400A switches ❸</p> <p>- Without Defeater - Lockable: 3 locks ❷</p>	Black	Type 1 – IP42	L10-HM1-N2	42
			Type 3R, 3, 12, 4, 4X – IP66	L10-HM4-N2	64
		Red/Yellow	Type 1 – IP42	L10-HM1E-N2	42
			Type 3R, 3, 12, 4, 4X – IP66	L10-HM4E-N2	64

❶ Mounting screws included with Switch Handle Assembly.
 ❷ Lockable in OFF position (and ON position with special modification).
 ❸ Can be used on 30 and 60A switches. Select L10-R1M or L10-R2M shaft.

Metal Operating Shafts



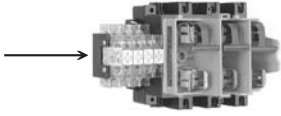
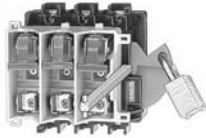
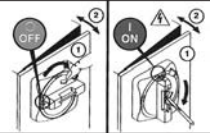
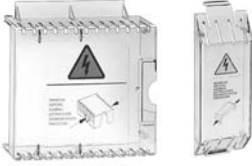


Shaft (typical)	Switch Dimension Code	For use with handle type...	Operating Shaft Length (mm)	Catalog Number	Price
	A1, A2 B1, B2	Type R	263	L10-R1	14
			457	L10-R2	20
	A1, A2 B1, B2	Pistol Grip	263	L10-R1M	21
			457	L10-R2M	28
	C1, D1	Pistol Grip	200	L10-R3	17
			403	L10-R4	32
	E1, F1	Pistol Grip	278	L10-R5	32
			532	L10-R6	60

Operating Shaft Accessories

Accessory	Description	Catalog Number	Price
	Shaft Guide - Increases the alignment tolerance of the shaft to the switch handle. For L10-R1(2) shafts	L10-HSG1	4

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Accessories

Accessory	Description	Catalog Number	Price														
	Auxiliary Contact Blocks - One pole (NO) One pole (NC) Two pole (1 NO/1 NC) Two pole (NO) Two pole (NC)	L10-GA10 ①② L10-GA01 ①② L10-GA11 ①② L10-GA20 ①② L10-GA02 ①②	10.50 10.50 16.80 16.80 16.80														
	Auxiliary Contact Adaptor - Required for fitting auxiliary contacts to all 30 & 60A fused and non-fused disconnect switches. One required.	L10-AA	5.00														
	Auxiliary Contact Support Kit - Required when mounting more than two Auxiliary Contact Blocks per switch.	L10-A1	15.00														
	Padlocking Kit - For 30 & 60A switches	L10-P1	12.00														
	Switch Handle Instruction Label - For use with all Switch Handle Assemblies (10 per package - priced per package)	L10-L1	3.00														
	Fuse Covers ③ - <table border="1"> <thead> <tr> <th>Dim. Code</th> <th>Quantity Req'd</th> </tr> </thead> <tbody> <tr> <td>A1, A2</td> <td>1</td> </tr> <tr> <td>B1, B2</td> <td>1</td> </tr> <tr> <td>C1</td> <td>3</td> </tr> <tr> <td>D1</td> <td>3</td> </tr> <tr> <td>E1</td> <td>3</td> </tr> <tr> <td>F1</td> <td>3</td> </tr> </tbody> </table>	Dim. Code	Quantity Req'd	A1, A2	1	B1, B2	1	C1	3	D1	3	E1	3	F1	3	L10-FCA2 ④ L10-FCJ60 ④ L10-FCC1 L10-FCD1 L10-FCE1 L10-FCF1	21.00 25.00 23.00 32.00 44.00 60.00
Dim. Code	Quantity Req'd																
A1, A2	1																
B1, B2	1																
C1	3																
D1	3																
E1	3																
F1	3																
	Terminal Shield ③④ - (All Disconnect Switches come standard with one Terminal Shield. For use on either line or load side disconnect switch.) <table border="1"> <thead> <tr> <th>Dim. Code</th> <th>Quantity Req'd</th> </tr> </thead> <tbody> <tr> <td>A1, A2</td> <td>1</td> </tr> <tr> <td>B1, B2</td> <td>1</td> </tr> <tr> <td>C1</td> <td>3</td> </tr> <tr> <td>D1</td> <td>3</td> </tr> <tr> <td>E1</td> <td>3</td> </tr> <tr> <td>F1</td> <td>3</td> </tr> </tbody> </table>	Dim. Code	Quantity Req'd	A1, A2	1	B1, B2	1	C1	3	D1	3	E1	3	F1	3	L10-LNC1 ④ L10-LNC2 ④ L10-LNC3 L10-LNC4 L10-LNC5 L10-LNC6	8.00 14.00 20.00 28.00 40.00 52.00
Dim. Code	Quantity Req'd																
A1, A2	1																
B1, B2	1																
C1	3																
D1	3																
E1	3																
F1	3																
	Terminal Lugs - 3 per package <table border="1"> <thead> <tr> <th>Dimension Code</th> <th>Wire Size</th> </tr> </thead> <tbody> <tr> <td>D1 (L10-NH100P3 only)</td> <td>10mm²-50mm² #8-1/0 AWG</td> </tr> <tr> <td>D1</td> <td>16mm²-120mm² #6-250MCM AWG</td> </tr> <tr> <td>E1</td> <td>25mm²-240mm² #4-500MCM AWG</td> </tr> <tr> <td>F1</td> <td>Two 50mm²-150mm² Two 1/0-350MCM AWG</td> </tr> </tbody> </table>	Dimension Code	Wire Size	D1 (L10-NH100P3 only)	10mm ² -50mm ² #8-1/0 AWG	D1	16mm ² -120mm ² #6-250MCM AWG	E1	25mm ² -240mm ² #4-500MCM AWG	F1	Two 50mm ² -150mm ² Two 1/0-350MCM AWG	L10-LE1 L10-LF1 L10-LG1 L10-LH1	25.20 57.00 84.00 121.00				
Dimension Code	Wire Size																
D1 (L10-NH100P3 only)	10mm ² -50mm ² #8-1/0 AWG																
D1	16mm ² -120mm ² #6-250MCM AWG																
E1	25mm ² -240mm ² #4-500MCM AWG																
F1	Two 50mm ² -150mm ² Two 1/0-350MCM AWG																

- ① 30 & 60A disconnect switches require Auxiliary Contact Adaptor (L10-AA) for installation of auxiliary contacts.
- ② A maximum of four contact blocks can be installed on each disconnect switch. When more than two contact blocks are used, the Auxiliary Contact Support Kit (L10-A1) must be installed.
- ③ Also used for covering the shorting bars on 100, 200 and 400A Non-fused Disconnect switches.
- ④ Non-fused disconnects include dead front cover and fuse covers for fusible disconnects, applies to 30A and 60A versions only.

L10 Enclosed Motor Disconnects (UL and CSA Approved Enclosures)

Amp/Horsepower Rating							Type 3/4/12 Watertight, Dusttight Sheetmetal Enclosure - IP66			Type 4/4X Watertight, Corrosion-Resistant Stainless Steel Enclosure - IP66			Type 4/4X Watertight, Corrosion-Resistant Non-metallic Enclosure - IP66		
							Image			Image			Image		
UL/ CSA Amps	Horsepower						Catalog Number	Price	Dimension Code	Catalog Number	Price	Dimension Code	Catalog Number	Price	Dimension Code
	1Ø (60 Hz)			3Ø (60 Hz)											
	115V	230V	200V	230V	460V	575V									
Non-Fused															
30	2	3	7.5	7.5	15	20	L10-FN030P3	345	A2	L10-CN030P3	650	A2	L10-KN030P3	345	A2
60	3	10	15	15	30	50	L10-FN060P3	611	B2	L10-CN060P3	823	B2	L10-KN060P3	611	B2
100	7.5	15	25	30	60	75	L10-FN100P3	882	C1	L10-CN100P3	1618	C1	L10-KN100P3	882	C1
200	~	25	50	60	125	150	L10-FN200P3	1471	D1	L10-CN200P3	2274	D1	L10-KN200P3	1471	D1
400	~	50	100	125	250	300	L10-FN400P3	2709	F1	L10-CN400P3	4347	F1	L10-KN400P3	2709	F1
Class J Fused															
30	2	3	7.5	7.5	15	20	L10-FJ030P3	521	A1	L10-CJ030P3	749	A1	L10-KJ030P3	523	A1
60	3	10	15	15	30	50	L10-FJ060P3	648	B1	L10-CJ060P3	860	B1	L10-KJ060P3	648	B1
100	7.5	15	25	30	60	75	L10-FJ100P3	882	C1	L10-CJ100P3	1618	C1	L10-KJ100P3	882	C1
200	~	25	50	60	125	150	L10-FJ200P3	1471	D1	L10-CJ200P3	2274	D1	L10-KJ200P3	1471	D1
400	~	50	100	125	250	300	L10-FJ400P3	2709	F1	L10-CJ400P3	4347	F1	L10-KJ400P3	2709	F1

NOTE: All Enclosed Disconnects come standard with a black handle with ON/OFF marking. For a yellow and red handle, add suffix "E" to the end of the catalog number. Example: change L10-FN030P3 to L10-FN030P3E.

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Fused Disconnect Switches for CSA HRCI-J and UL Class Fuses ①

		L10- NJ030P3	L10- NJ060P3	L10- NJ100P3	L10- NJ200P3	L10- NJ400P3						
Electrical Ratings												
Standards and Approvals (see page L32)												
CSA Fuse Type/UL Fuse Type		HRCI-J/ Class J	HRCI-J/ Class J	HRCI-J/ Class J	HRCI-J/ Class J	HRCI-J/ Class J						
Maximum Fuse Cartridge Size	[A]	30	60	100	200	400						
Maximum Voltage												
AC	[V]	600	600	600	600	600						
DC	[V]	250	250	250	250	250						
Ampere Rating	[A]	30	60	100	200	400						
Max. Short Circuit Prospective Fault Current												
	[kA]	100	100	100	100	100						
Fuse Operating Characteristics												
		Time Delay	Non-time Delay	Time Delay	Non-time Delay	Time Delay	Non-time Delay	Time Delay	Non-time Delay	Time Delay	Non-time Delay	
Maximum HP												
3∅ AC	200V, 60Hz	[HP]	7.5	3	15	7.5	25	15	50	25	100	50
	230V, 60Hz	[HP]	7.5	3	15	7.5	30	15	60	25	125	50
	460V, 60Hz	[HP]	15	5	30	15	60	25	125	50	250	100
	575V, 60Hz	[HP]	20	7.5	50	15	75	30	150	60	300	125
1∅ AC	115V, 60Hz	[HP]	2	0.5	3	1.5	7.5	–	–	–	–	–
	230V, 60Hz	[HP]	3	1.5	10	3	15	7.5	25	15	50	25
DC	125V DC	[HP]	3	2	5	5	–	–	–	–	–	–
	250V DC	[HP]	5	5	10	10	20	20	40	40	50	50
Mechanical Ratings												
Degree of Protection (per IEC 947)												
Switch only		IP00	IP00	IP00	IP00	IP00						
Switch with Terminal Shields and Fuse Cover(s)		IP20	IP20	IP20	IP20	IP20						
Mechanical Endurance ②	[operations]	10,000	10,000	10,000	8,000	8,000						
Operating Torque (max.)	[Nm]	4	4	17.5	20.3	31.4						
	[Lb.-In.]	35	35	155	180	275						
Terminal Capacity												
Power terminals	[mm ²]	2.5...6	2.5...25	2.5...35	16...20	Two 50...150						
	[AWG]	#14...#8	#14...#4	#14...#2	#6...250MCM	Two 1/0...350MCM						
Auxiliary contact terminals	[mm ²]	2.5...4	2.5...4	2.5...4	2.5...4	2.5...4						
	[AWG]	#14...#12	#14...#12	#14...#12	#14...#12	#14...#12						
Maximum number of auxiliary contact blocks		4	4	4	4	4						
Approximate Weight	[kg.]	0.92	1.32	4.12	6.16	13.83						
	[lbs.]	2.03	2.9	9.08	13.59	30.50						
Minimum Enclosure Size												
Height	[mm]	248	248	330	560	762						
	[in.]	9 3/4	9 3/4	13	22	30						
Width	[mm]	171	197	301	344	424						
	[in.]	6 3/4	7 3/4	11 27/32	13 17/32	16 45/64						
Depth	[mm]	148	148	162	178	243						
	[in.]	5 13/16	5 13/16	6 3/8	7	9 9/16						

① Only CSA Certified HRCI-J and UL Listed Class J fuses are suitable for use with these disconnect switches.
② Based on Rockwell Automation tests in accordance with the requirements as defined in CSA C22.2 No. 4, IEC 947-3, UL 1087 and UL98.

Fused Disconnect Switches for CSA HRCII-C Fuses

			L10- NA200P3	L10- NA300P3	L10- NH100P3	L10- NH200P3	L10- NH400P3
Electrical Ratings							
Standards and Approvals (see page L32)							
CSA Fuse Type			HRCII-C	HRCII-C	HRCII-C	HRCII-C	HRCII-C
Maximum Fuse Cartridge Size	[A]		30	60	100	200	400
Maximum Voltage - AC	[V]		600	600	600	600	600
Ampere Rating	[A]		30	60	100	200	400
Max. Short Circuit Prospective							
Fault Current	[kA]		100	100	100	100	100
Maximum HP							
3∅ AC	200V, 60Hz	[HP]	7.5	15	25	50	100
	230V, 60Hz	[HP]	7.5	15	30	60	125
	460V, 60Hz	[HP]	15	30	60	125	250
	575V, 60Hz	[HP]	20	50	75	150	300
1∅ AC	115V, 60Hz	[HP]	2	3	–	–	–
	230V, 60Hz	[HP]	3	10	15	30	50
Mechanical Ratings							
Degree of Protection (per IEC 947)							
Switch only			IP00	IP00	IP00	IP00	IP00
Switch with Terminal Shields and Fuse Cover(s)			IP20	IP20	IP20	IP20	IP20
Mechanical Endurance ①	[operations]		10,000	10,000	10,000	8,000	8,000
Operating Torque (max.)	[Nm]		4	4	20.3	31.4	31.4
	[Lb.-In.]		35	35	180	275	275
Terminal Capacity							
Power terminals	[mm ²]		2.5...6	2.5...25	10...50	25...240	Two 50...150
	[AWG]		#14...#8	#14...#4	#8...#1/0	#4...500MCM	Two 1/0...350MCM
Auxiliary contact terminals	[mm ²]		2.5...4	2.5...4	2.5...4	2.5...4	2.5...4
	[AWG]		#14...#12	#14...#12	#14...#12	#14...#12	#14...#12
Max. number of auxiliary contact blocks			4	4	4	4	4
Approximate Weight	[kg.]		0.83	1.18	6.16	9.30	13.83
	[lbs.]		1.84	2.60	13.59	20.50	30.50
Minimum Enclosure Size							
Height	[mm]		248	248	384	610	762
	[in.]		9 3/4	9 3/4	15 1/8	24	30
Width	[mm]		171	197	344	394	424
	[in.]		6 3/4	7 3/4	13 17/32	15 33/64	16 45/64
Depth	[mm]		148	148	178	227	243
	[in.]		5 13/16	5 13/16	7	8 15/16	9 9/16

① Based on Sprecher+Schuh tests in accordance with the requirements as defined in CSA C22.2 No. 4 and IEC 947-3.

Non-Fused Disconnect Switches for CSA and UL Class Applications ❶

		L10- NN030P3	L10- NN060P3	L10- NN100P3	L10- NN200P3	L10- NN400P3						
Electrical Ratings												
Standards and Approvals (see page L32)												
Maximum Fuse Cartridge Size	[A]	30 ❷	60 ❷	100 ❷	200 ❷	400 ❷						
Maximum Voltage												
AC	[V]	600	600	600	600	600						
DC	[V]	250	250	250	250	250						
Ampere Rating	[A]	30	60	100	200	400						
Max. Short Circuit Prospective Fault Current												
	[kA]	100	100	100	100	100						
Fuse Operating Characteristics												
		Time	Non-time Delay	Time	Non-time Delay	Time	Non-time Delay	Time	Non-time Delay	Time	Non-time Delay	
Maximum HP												
3∅ AC	200V, 60Hz	[HP]	7.5	3	15	7.5	25	15	50	25	100	50
	230V, 60Hz	[HP]	7.5	3	15	7.5	30	15	60	25	125	50
	460V, 60Hz	[HP]	15	5	30	15	60	25	125	50	250	100
	575V, 60Hz	[HP]	20	7.5	50	15	75	30	150	60	300	125
1∅ AC	115V, 60Hz	[HP]	2	0.5	3	1.5	7.5	–	–	–	–	–
	230V, 60Hz	[HP]	3	1.5	10	3	15	7.5	25	15	50	25
DC	125V DC	[HP]	3	2	5	5	–	–	–	–	–	–
	250V DC	[HP]	5	5	10	10	20	20	40	40	50	50
Mechanical Ratings												
Degree of Protection (per IEC 947)												
Switch only			IP20		IP20		IP00		IP00		IP00	
Switch with Terminal Shields and Fuse Cover(s)			IP20 ❸		IP20 ❸		IP20		IP20		IP20	
Mechanical Endurance ❸	[operations]		10,000		10,000		10,000		8,000		8,000	
Operating Torque (max.)	[Nm]		4		4		17.5		20.3		31.4	
	[Lb.-In.]		35		35		155		180		275	
Terminal Capacity												
Power terminals	[mm ²]		2.5...6		2.5...25		2.5...35		16...120		Two 50...150	
	[AWG]		#14...#8		#14...#4		#14...#2		#6...250MCM		Two 1/0...350MCM	
Auxiliary contact terminals	[mm ²]		2.5...4		2.5...4		2.5...4		2.5...4		2.5...4	
	[AWG]		#14...#12		#14...#12		#14...#12		#14...#12		#14...#12	
Max. number of auxiliary contact blocks			4		4		4		4		4	
Approximate Weight	[kg.]		0.81		1.14		4.31		6.56		14.97	
	[lbs.]		1.78		2.52		9.50		14.47		33.00	
Minimum Enclosure Size												
Height	[mm]		248		248		330		560		762	
	[in.]		9 3/4		9 3/4		13		22		30	
Width	[mm]		171		197		301		344		424	
	[in.]		6 3/4		7 3/4		11 27/32		13 17/32		16 45/64	
Depth	[mm]		111		111		162		178		243	
	[in.]		4 3/8		4 3/8		6 3/8		7		9 9/16	

- ❶ Non-fused disconnects must use separately installed CSA Certified HRCI-J, HRCI-T or HRCI-MISC (also UL Listed as Class CC) fuses; or UL Listed Class J, CC or T fuses.
- ❷ When using CSA HRCI-J, HRCI-MISC (also UL Listed as Class CC) or HRCI-T fuses, and UL Class J, CC or T fuses.
- ❸ Based on Sprecher + Schuh tests in accordance with the requirements as defined in CSA C22.2 No. 4, IEC 947-3, UL 1087 and UL98.
- ❹ Line and load terminal shields supplied as standard.

Environmental Data For All L10 Fused and Non-Fused Disconnect Switches

All L10 Fused and Non-Fused Disconnect Switches

Environmental Ratings

Ambient Temperature

Open	[°C (F)]	-2...+55 (-4...+131)
Enclosed	[°C (F)]	-20...+40 (-4...+104)
Storage	[°C (F)]	-40...+65 (-40...+149)

Altitude (per IEC 947-1) [m] 2,000

Relative Humidity (per IEC 947-1) 90% at +20°C (+68°F)
50% at +40°C (+104°F)

Auxiliary Contact Ratings

All L10 Auxiliary Contacts

AC-11 Rating		DC-11 Rating	
Volts U _e	Amps I _e	Volts U _e	Amps I _e
12...120	6	28	5.0
220...240	3	110	1.25
380...480	1.5	220	0.62
500...600	1.2	440	0.27
		600	0.20

Thermal Current

EEMAC/NEMA A600, P300 [A] 10

Insulation Voltage - IEC U_i [V] 660

Approvals:

UL Listed

File Nos. E191715
E191716
E191717
E191718
E193035

CSA Certified

File No. LR 113426-1

CE Marked

Per IEC 947-3

Meets IEC, VDE and BS standard requirements

LOVAG Certified

ASTA Certified

	Molded Case	NEMA-type
Catalog Number	NJ-030, 060 NA-200, 300 NN-030, 060	NJ-100, 200, 400 NH-100, 200, 400 NN-100, 200, 400
UL98 (Miscellaneous Switch)	No	Yes
UL1087 (Molded Case)	Yes	No
CSA	Yes	Yes
CE	Yes	No

Conformity to Standards:

IEC 947-3/EN60947-3 Low voltage switchgear and control gear part 3: Switches, disconnectors, switch-disconnectors and fuse-combination units.

CE
BS EN60947-3
VDE 0660
CSA 22.2 No. 4
NEMA KS-1
UL 1087
UL 98

Applications Within the United States and Canada

General

The requirements for disconnect switches used in motor branch circuits rated 600V and less are defined in Article 430, Part H of the U.S. National Electrical Code (NEC), NFPA70. Canadian Electrical Code (CEC) requirements are very similar in the area of motor branch circuit disconnect requirements. For simplicity, we will treat the NEC and CEC requirements as being the same – and reference specific sections of the US National Electrical Code.

The requirements for properly sizing a disconnect switch are dependent on the type of application. The NEC refers to two types of applications: single motor and combination loads. A combination load consists of an application where two or more motors are used together or where one or more motors are used in combination with other loads, such as resistance heaters.

Single Motor Applications

Section 430-110 Paragraph (a) states that the disconnect switch must have an ampere rating of at least 115% of the full load current rating of the motor.

Example 1: for a motor with a full-load current of 22A, the disconnect switch must be rated at least 25.3A (22 x 1.15).

If the disconnecting means under evaluation is rated in horsepower, the selection of the disconnect switch is even more straightforward; a disconnect switch must have a horsepower rating equal to, or greater than the horsepower rating of the motor at the applicable voltage.

Example 2: For a motor with a 10HP rating at 460V AC, the disconnect switch must be rated at least 10HP at 460V AC.

If the disconnect switch is rated in horsepower, and UL Listed, UL Component Recognized, or CSA Certified, it will meet the requirements for the 115% full-load current rating stipulated by the NEC.

Combination Load Applications

Section 430-110 Paragraph (c) addresses the rating of the disconnecting means for combination loads. This paragraph essentially requires that the loads that “may be simultaneously on a single disconnecting means” be combined to provide equivalent full-load and locked-rotor currents for what is then to be considered as a single motor for the purpose of selecting the appropriate disconnecting means. This means that it is necessary to identify the particular combination of connected loads which can be operating simultaneously and will result in the maximum full-load and locked-rotor current sums.

The individual full-load current values are to be selected from Tables 430-148, 430-149, or 430-150 and the locked-rotor values are to be from Table 430-151.

The equivalent single motor full-load current is the sum of the simultaneously operating motor full-load currents and the rating in amperes of the other loads operating at the same time. The equivalent locked-rotor current is the sum of the simultaneously started motors’ locked-rotor currents and the full-load currents of the remaining operating motor and non-motor loads.

The disconnecting means shall have a current rating equal to or greater than 115% of the equivalent single motor full-load current and have a horsepower rating equal to or greater than the horsepower rating determined from the equivalent locked-rotor summation.

Consider the following 460V application:

Load	HP	Full-Load Current A
Motor 1	5	7.6 (simultaneous)
Motor 2	10	14.0 (not included) ❶
Motor 3	15	21.0 (simultaneous)
Motor 4	20	27.0 (simultaneous)
Other		7.0 (simultaneous)
Total Equivalent		62.6 (simultaneous)

❶ Motor 2 is not included in the total since it cannot operate simultaneously with the other motor, therefore, the disconnect switch must be rated at least 72A (1.15 x 62.6).

Consider now the locked-rotor current analysis for the same application:

Load	HP	Locked Rotor Current A
Motor 1	5	(7.6 FLA) 45.6 (simultaneous)
Motor 2	10	84.0 (not included) ❶
Motor 3	15	126.0 (simultaneous) ❷
Motor 4	20	162.0 (simultaneous) ❷
Other		7.0 (simultaneous)
Total Equivalent		302.6 (simultaneous)


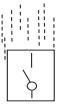

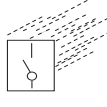
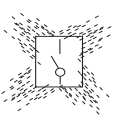
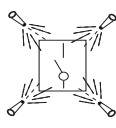
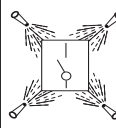
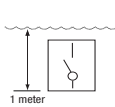
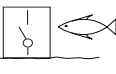

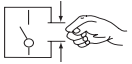
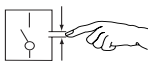
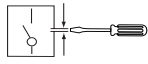
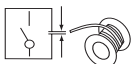


❶ Note again that Motor 2 cannot operate simultaneously with the other loads.

❷ The largest equivalent locked-rotor current occurs when motors 3 and 4 start together while the other loads marked “simultaneous” are already operating. Since Motor 1 is not starting with Motors 3 and 4, its full-load current will be added to the total instead of its locked-rotor current.

Table 430-151, which provides the correlation between locked-rotor currents and HP ratings, shows that a 40 HP rating is the equivalent for 302.6 locked-rotor amperes.

Therefore, the disconnect selected for this application must have a current rating of at least 72A and a HP rating of at least 40 HP. In this case, an L10 disconnect switch rated for 100A and 60 HP at 460V would be an appropriate choice. What can be seen from this analysis is that, depending upon the number of motors that can start simultaneously, the actual size of the required disconnect is sometimes determined by the equivalent full load current (72A) and other times by the equivalent horsepower determined from the locked-rotor analysis (40 HP).

IP Ratings Definitions

<p>IP Ratings Definitions The first IP number (left side of chart) is protection against solid objects. The second IP number (across top) is protection against liquids. The chart itself shows degrees of protection according to IEC 529.</p>	 No protection IP...0	 Protected against vertically falling drops of water (condensation) IP...1	 Protected against dripping water with enclosure up to 15° from vertical IP...2	 Protected against sprayed water up to 60° from vertical IP...3	 Protected against sprayed water from all directions (limited ingress permitted) IP...4	 Protected against low pressure water jets from all directions (limited ingress permitted) IP...5	 Protected against strong jets of water from all directions IP...6	 Protected against immersion up to one meter IP...7	 Protected against long periods of immersion under pressure IP...8
<p>IP0...  No protection</p>	IP00								
<p>IP1...  Protected against solid objects up to 50mm (accidental touch by hands)</p>	IP10	IP11	IP12						
<p>IP2...  Protected against solid objects up to 12mm (fingers, knuckles)</p>	IP20	IP21	IP22	IP23					
<p>IP3...  Protected against solid objects up to 2.5mm (tools, wires)</p>	IP30	IP31	IP32	IP33	IP34				
<p>IP4...  Protected against solid objects up to 1mm (wires)</p>	IP40	IP41	IP42	IP43	IP44				
<p>IP5...  Protected against dust (limited ingress permitted)</p>	IP50			IP53	IP54	IP55	IP56		
<p>IP6...  Totally protected against dust</p>	IP60					IP65	IP66	IP67	

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Disconnect Switches

L10

NEMA / UL Type Definitions

For a degree of protection against:	NEMA / UL Type								
	Indoor Use			Outdoor Use		Indoor or Outdoor Use			
	1	12	13	3R	3	4	4X	6P	6
Incidental contact with enclosed equipment	•	•	•	•	•	•	•	•	•
Falling dirt	•	•	•	•	•	•	•	•	•
Rust	•	•	•	•	•	•	•	•	•
Circulating dust, lint, fibers and flyings		•	•		•	•	•	•	•
Windblown dust					•	•	•	•	•
Falling liquids and light splashing		•	•		•	•	•	•	•
Rain (limited water allowed inside)				•	•	•	•	•	•
Rain (no water allowed inside)					•	•	•	•	•
Snow and sleet				•	•	•	•	•	•
Hosedown and splashing water						•	•	•	•
Occasional prolonged submersion								•	•
Oil or coolant spraying or splashing			•						
Corrosive agents							•	•	
Occasional temporary submersion								•	•

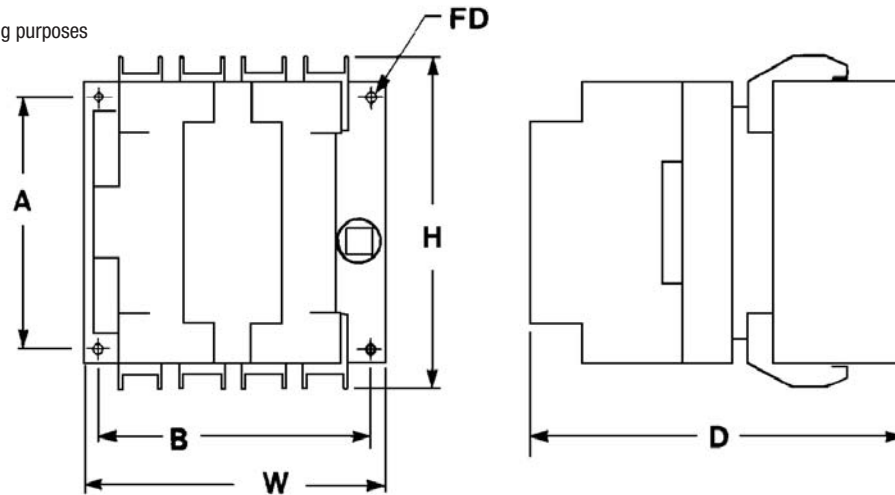
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Disconnect
Switches

L10

L10 Disconnect Switch (30 & 60A)

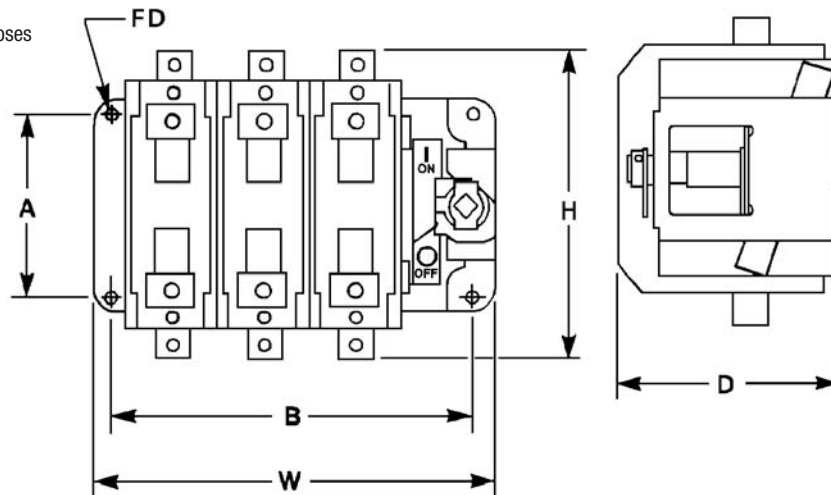
- Dimensions are in millimeters (inches)
- Dimensions not intended for manufacturing purposes



Disconnect Switch	Approximate Dimensions					
Dimension Reference	H	W	D	A	B	FD
A1	106 (4 11/64)	102 (4 1/64)	112 (4 13/32)	82 (3 15/64)	85 (3 11/32)	2-M4 2-#8
A2	106 (4 11/64)	102 (4 1/64)	83 (3 17/64)	82 (3 15/64)	82 (3 15/64)	2-M4 2-#8
B1	118 (4 21/32)	134 (5 9/32)	115 (4 33/64)	100 (3 15/16)	120 (4 23/32)	4-M4 4-#8
B2	118 (4 21/32)	134 (5 9/32)	83 (3 17/64)	100 (3 15/16)	120 (4 23/32)	4-M4 4-#8

L10 Disconnect Switch (100, 200 & 400A)

- Dimensions are in millimeters (inches)
- Dimensions not intended for manufacturing purposes

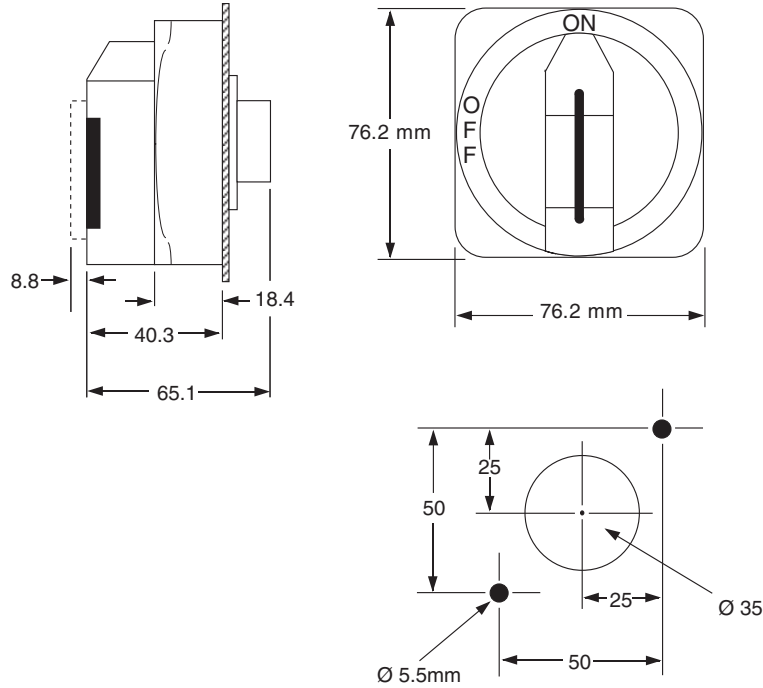


Disconnect Switch	Approximate Dimensions					
Dimension Reference	H	W	D	A	B	FD
C1	148 (5 53/64)	194 (7 41/64)	130 (5 7/64)	106 (4 11/64)	170 (6 11/16)	4-M6 (4 1/4)
D1	184 (7 1/4)	236 (9 19/64)	148 (5 53/64)	106 (4 11/64)	212 (8 11/32)	4-M6 (4 1/4)
E1	220 (8 21/32)	278 (10 15/16)	180 (7 3/32)	150 (5 29/32)	252 (9 59/64)	4-M8 (4 5/16)
F1	250 (9 27/32)	308 (12 1/8)	213 (8 25/64)	150 (5 29/32)	282 (11 7/64)	4-M8 (4 5/16)

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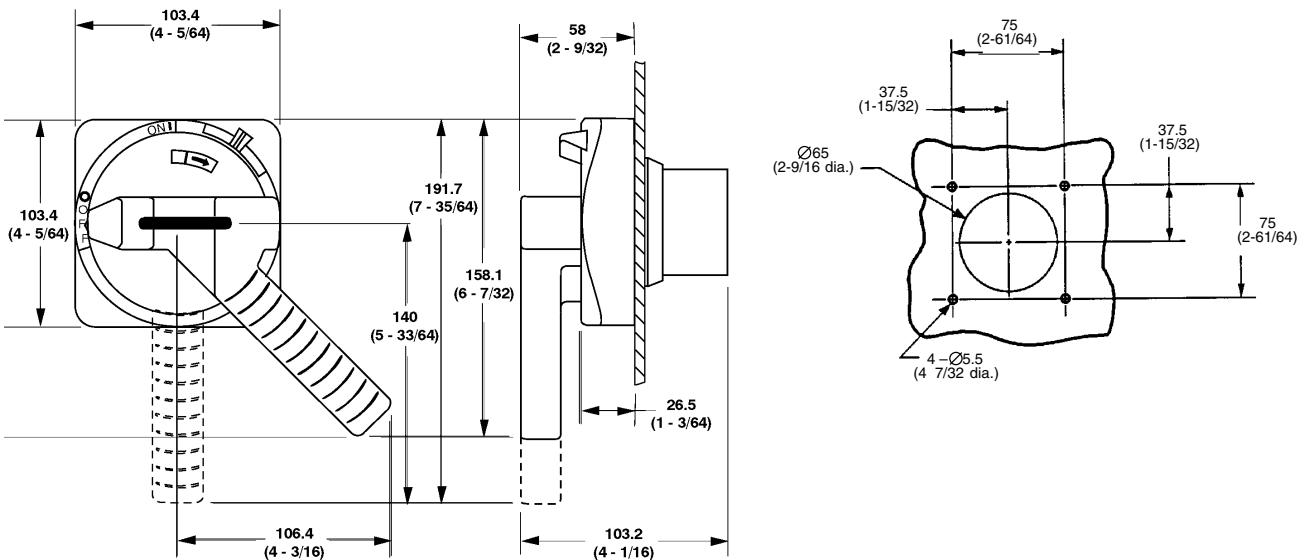
L10-HS... (Type R) Switch Handle Assembly

- Dimensions are in millimeters (inches)
- Dimensions not intended for manufacturing purposes



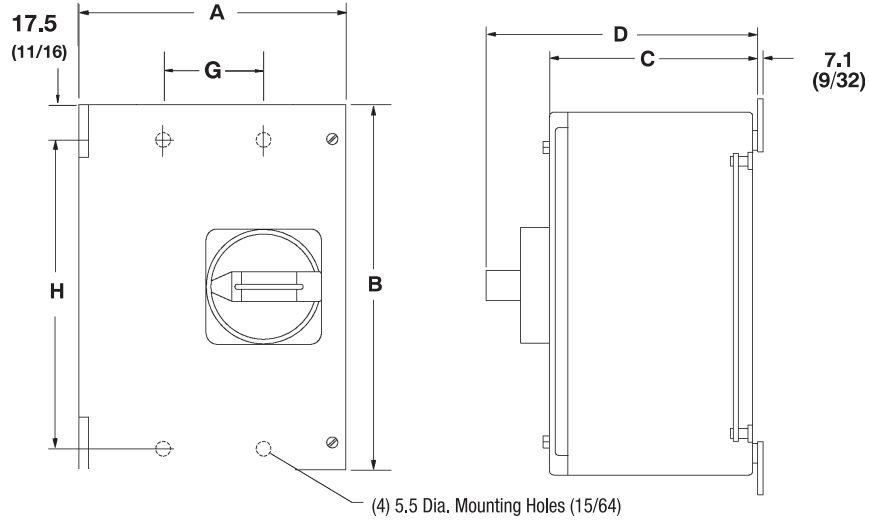
L10-HM... Pistol Grip Switch Handle Assembly

- Dimensions are in millimeters (inches)
- Dimensions not intended for manufacturing purposes



Type 3/4/12 - Watertight, Dusttight Sheet Metal Enclosure (30, 60 & 100A)

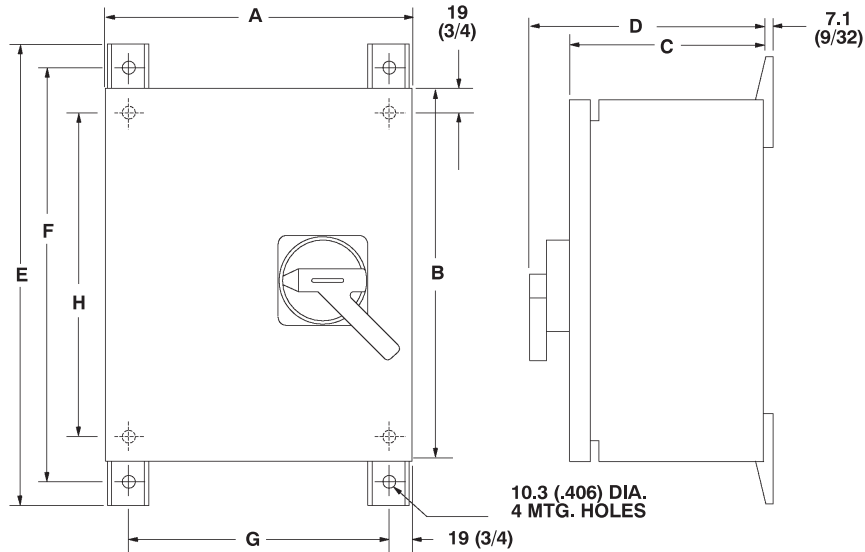
- Dimensions are in millimeters (inches)
- Dimensions not intended for manufacturing purposes



Amps	Type	Dim. Ref.	A	B	C	D	E	F	G	H
30	Fused & Non-Fused	A1 & A2	200 (7-7/8)	300 (11-13/16)	160 (6-19/64)	200 (7-7/8)	~	~	76 (3)	265 (10-7/16)
60	Fused & Non-Fused	B1 & B2	200 (7-7/8)	300 (11-13/16)	160 (6-19/64)	200 (7-7/8)	~	~	76 (3)	265 (10-7/16)
100	Fused & Non-Fused	C1	400 (15-3/4)	350 (13-25/32)	210 (8-1/16)	268 (10-35/64)	~	~	178 (7)	315 (12-25/64)

Type 3/4/12 - Watertight, Dusttight Sheet Metal Enclosure (200 & 400A)

- Dimensions are in millimeters (inches)
- Dimensions not intended for manufacturing purposes

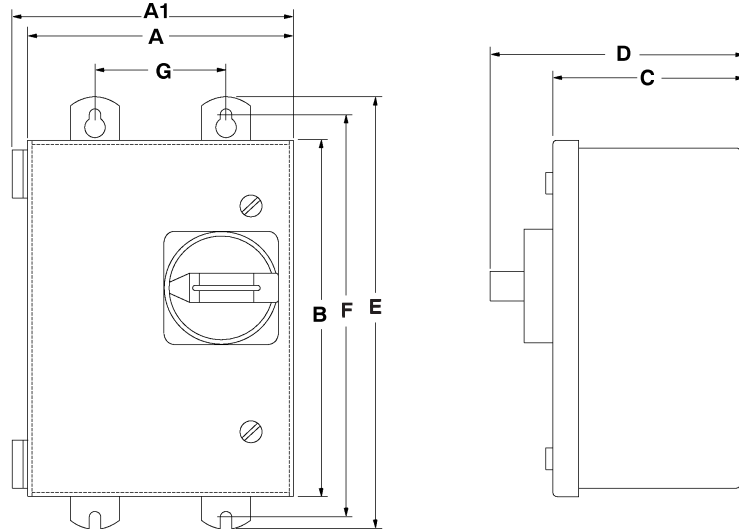


Amps	Type	Dim. Ref.	A	B	C	D	E	F	G	H
200	Fused & Non-Fused	D1	406 (16)	610 (24)	224 (8-51/64)	282 (11-5/64)	688 (27-5/64)	650 (25-9/16)	368 (13-31/64)	572 (22-1/2)
400	Fused & Non-Fused	F1	610 (24)	762 (30)	326 (12-51/64)	384 (15-5/64)	840 (33-5/64)	802 (31-9/16)	572 (22-1/2)	724 (28-1/2)

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Type 4/4X Watertight, Corrosion-Resistant Stainless Steel Enclosure (30 & 60A)

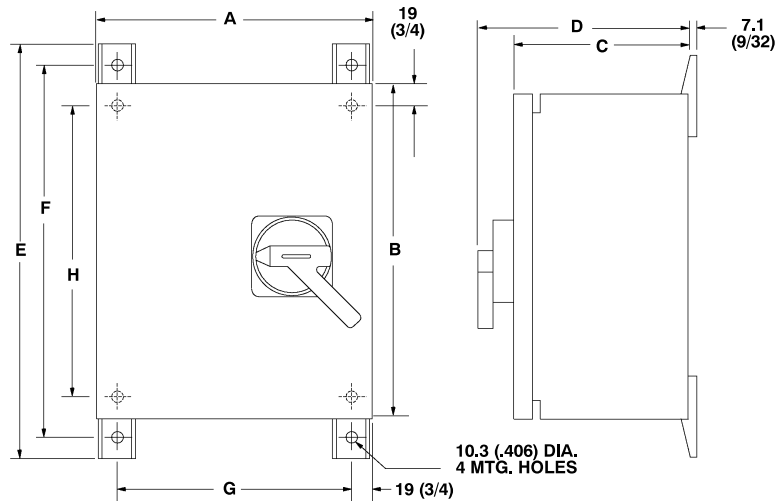
- Dimensions are in millimeters (inches)
- Dimensions not intended for manufacturing purposes



Amps	Type	Dim.Ref.	A	A1	B	C	D	E	F	G	H
30	Fused & Non-Fused	A2	159 (6-1/4)	170 (6-11/16)	240 (9-7/16)	128 (5-1/32)	168 (6-5/8)	273 (10-3/4)	254 (10)	83 (3-1/4)	~
	Fused	A1	214 (8-7/16)	225 (8-7/8)	265 (10-7/16)	162 (6-3/8)	202 (7-15/16)	298 (11-23/32)	280 (11-1/32)	83- (3-1/4)	
60	Fused & Non-Fused	B1 & B2	214 (8-7/16)	225 (8-7/8)	265 (10-7/16)	162 (6-3/8)	202 (7-15/16)	298 (11-23/32)	280 (11-1/32)	83- (3-1/4)	

Type 4/4X Watertight, Corrosion-Resistant Stainless Steel Enclosure (100, 200 & 400A)

- Dimensions are in millimeters (inches)
- Dimensions not intended for manufacturing purposes



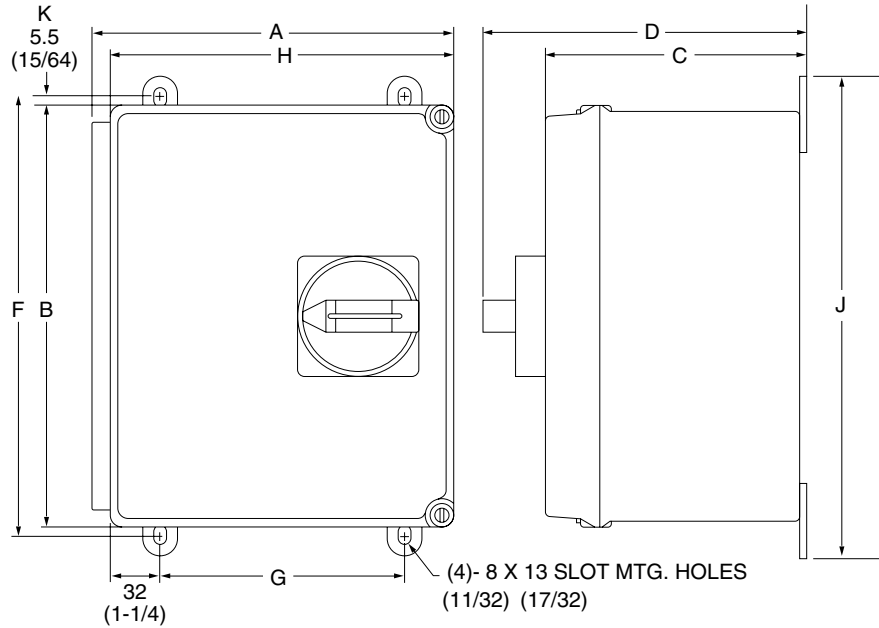
Amps	Type	Dim. Ref.	A	B	C	D	E	F	G	H
100	Fused & Non-Fused	C1	400 (15-3/4)	350 (13-25/32)	182 (7-3/16)	240 (9-15/32)	383 (15-3/32)	365 (14-3/8)	266 (10-1/2)	~
200	Fused & Non-Fused	D1	406 (16)	610 (24)	224 (8-51/64)	282 (11-5/64)	688 (27-5/64)	650 (25-19/32)	368 (14-1/2)	572 (22-1/2)
400	Fused & Non-Fused	F1	610 (24)	762 (30)	326 (12-51/64)	384 (15-5/64)	840 (33-5/64)	802 (31-15/32)	572 (22-1/2)	724 (28-1/2)

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Disconnect
Switches
L10

Type 3/4/4X/12 - Corrosion Resistant Non-Metallic Enclosure (30 & 60A)

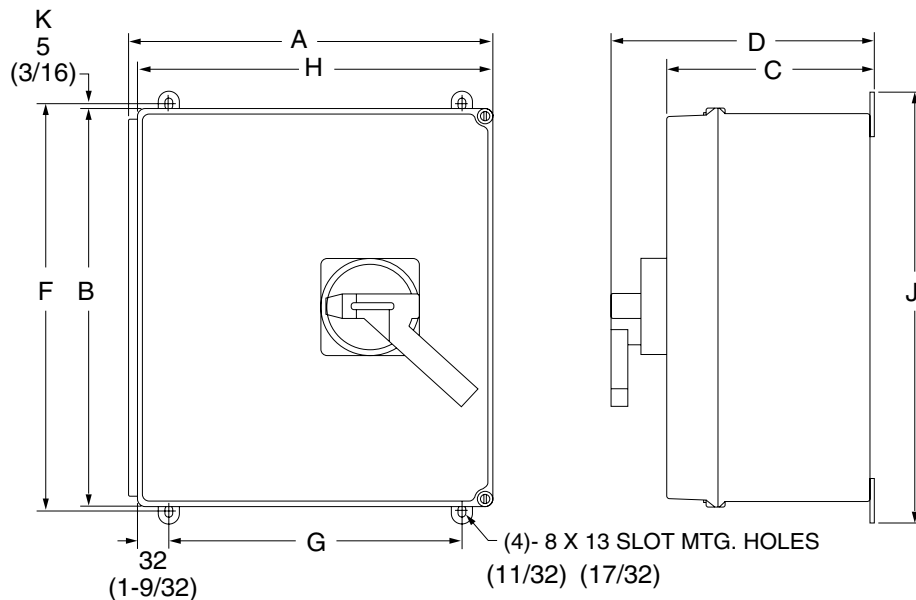
- Dimensions are in millimeters (inches)
- Dimensions not intended for manufacturing purposes



Amps	Type	Dim. Ref.	A	B	C	D	F	G	H	J	K
30 & 60	Fused & Non-Fused	A1 & A2 B1 & B2	226 (8-59/64)	267 (10-33/64)	163 (6-27/64)	203 (7-31/32)	278 (10-61/64)	152 (6)	216 (8-1/2)	305 (12)	6 (15/64)

Type 3/4/4X/12 - Corrosion Resistant Non-Metallic Enclosure (100A)

- Dimensions are in millimeters (inches)
- Dimensions not intended for manufacturing purposes

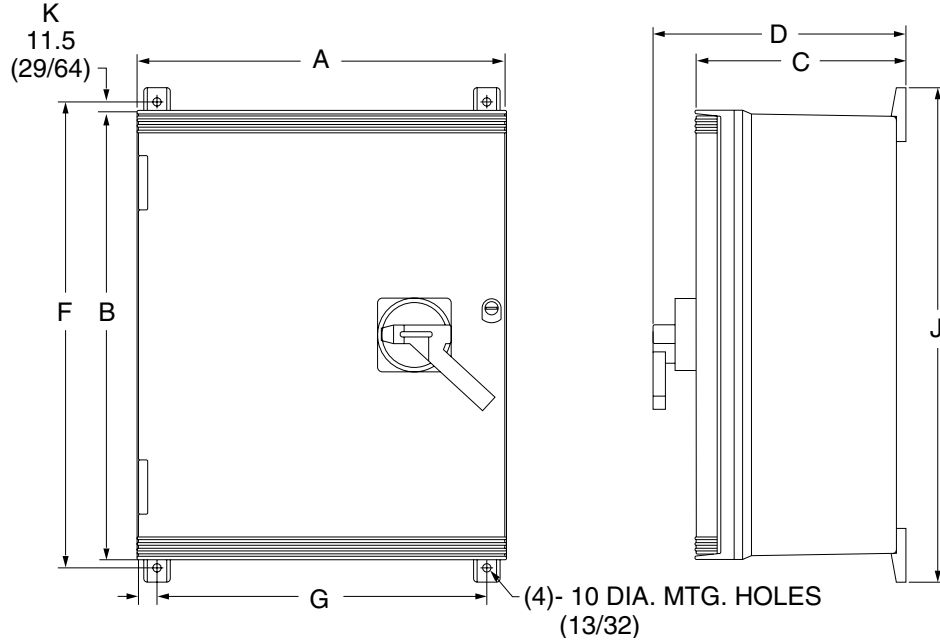


Amps	Type	Dim. Ref.	A	B	C	D	F	G	H	J	K
100	Fused & Non-Fused	C1	380 (14-31/32)	420 (16-1/4)	215 (8-31/64)	273 (10-49/64)	430 (16-61/64)	305 (12)	370 (14-9/16)	457 (18)	5 (13/64)

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Type 3/4/4X/12 - Corrosion Resistant Non-Metallic Enclosure (200A)

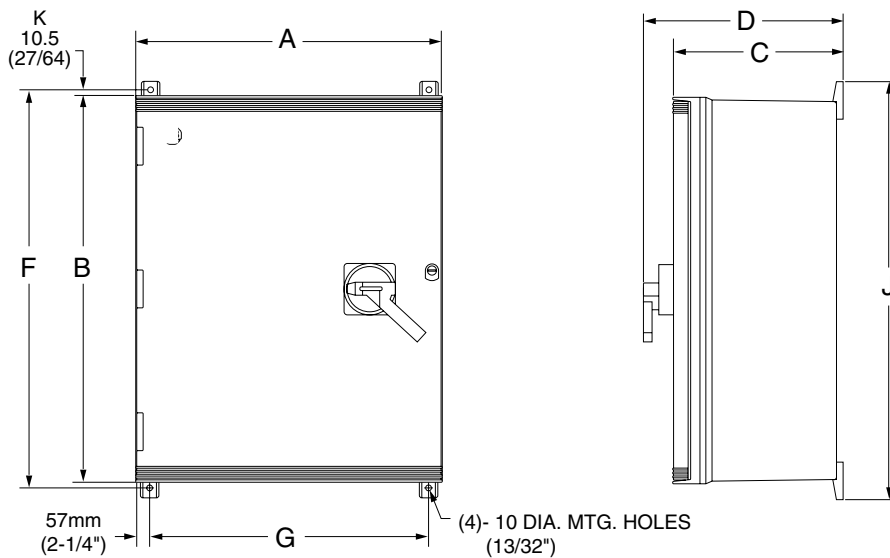
- Dimensions are in millimeters (inches)
- Dimensions not intended for manufacturing purposes



Amps	Type	Dim. Ref.	A	B	C	D	F	G	J	K
200	Fused & Non-Fused	D1	513 (20-13/64)	625 (24-5/8)	292 (11-31/64)	350 (13-25/32)	648 (25-1/2)	457 (18)	686 (27)	11.5 (29/64)

Type 3/4/4X/12 - Corrosion Resistant Non-Metallic Enclosure (400A)

- Dimensions are in millimeters (inches)
- Dimensions not intended for manufacturing purposes



Amps	Type	Dim. Ref.	A	B	C	D	F	G	J	K
400	Fused & Non-Fused	F1	612 (24 1/8)	775 (30 33/64)	343 (13 31/64)	401 (15 23/32)	796 (31 31/32)	555 (21 7/8)	834 (32 27/32)	10.5 (13/32)

