

Series L7 Motor Disconnect Switches up to 100A

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, see our white paper Tech-LMSD in the online library.

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. 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.

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.

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.

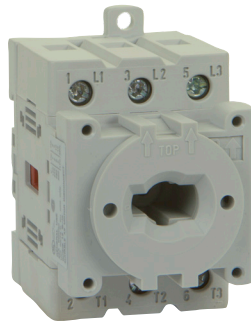
International standards and approvals

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.



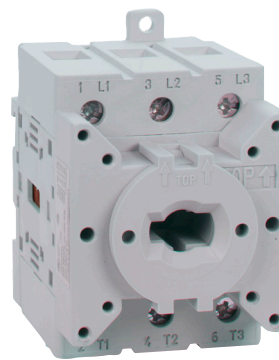
36mm
(≈1 13/32")

16A



45mm
(≈1 3/4")

25A
32A



54mm
(≈2 1/8")

40A
63A



72mm
(≈2 13/16")

80A
100A

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 L1:17 and completing it with your choice of L7 switch from pages L1:4 ...L1:6. 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 LA7 three or six poles from page L1:6 (Figure 2).

A broad selection of assembled UL Enclosed disconnects are available on pages L1:14 and L1:15. Painted metal, stainless steel, polyester-fiberglass, and ABS (IP66) enclosures with three, four and six pole disconnect switches are available with all accessories (Figure 3).

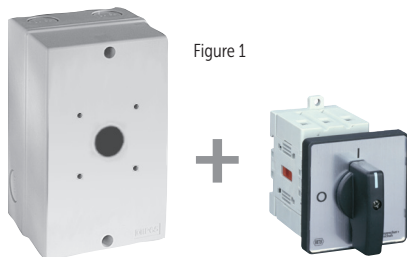


Figure 1



Figure 2

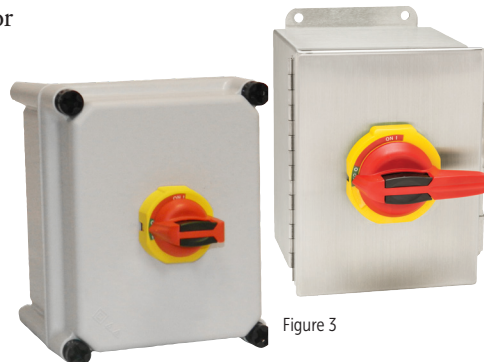


Figure 3

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.

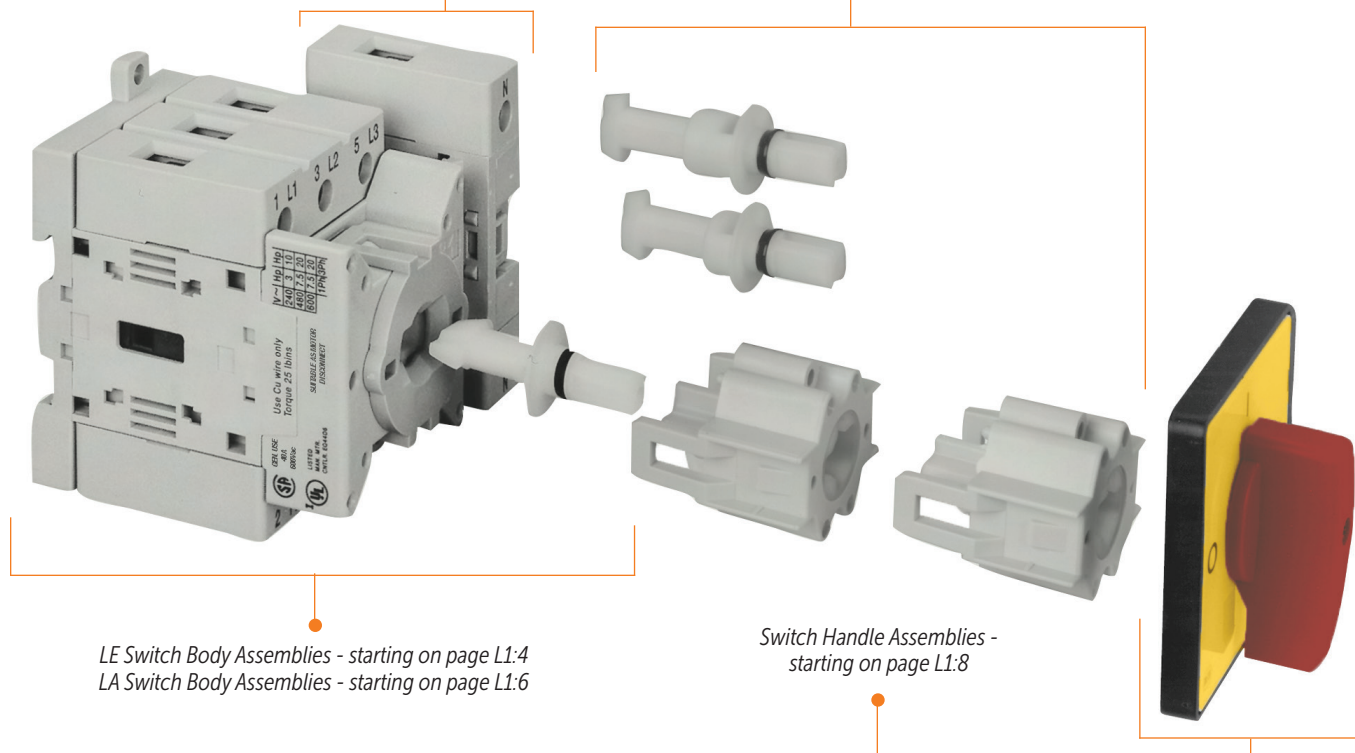
First determine the switch you need from pages L1:4...L1:6. Then turn to page L1:8 and L1:9 to choose a switch handle assembly.

If necessary, see page L1:12 and L1:13 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 L1:10.

Side Mount Accessories - page L1:10
Miscellaneous Accessories - page L1:11

Modular Shaft Extensions (LA only) - page L1:12
Metal Shaft Extensions (LA only) - page L1:13



LE Switch Body Assemblies - starting on page L1:4
LA Switch Body Assemblies - starting on page L1:6

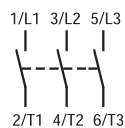
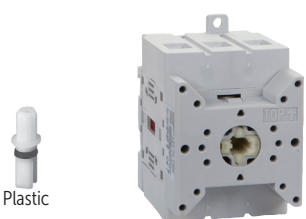
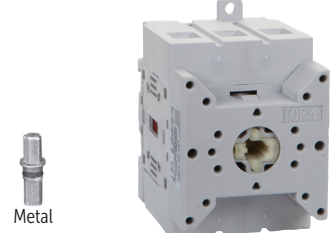
Switch Handle Assemblies -
starting on page L1:8

L1

L7 Disconnect Switches

L1:3

Front Mounted 3 Pole Switches - 90° Throw ①③

3 Pole 	 Plastic	 Plastic	 Metal		
	Catalog Number	Catalog Number	Catalog Number	Catalog Number	Catalog Number
3 Pole >	LE7-16-1753	LE7-25-1753	LE7-32-1753	LE7-40-1753	LE7-63-1753
Amp Rating (encl.)					
UL/CSA	16	25	32	40	63
IEC/VDE/BS	16	25	32	40	63
3Ø Horsepower					
240V	3	5	7.5	10	15
480V	7.5	10	15	20	25
600V	10	10	15	20	25
1Ø 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	

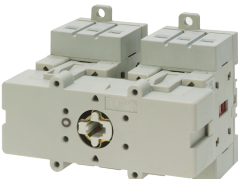
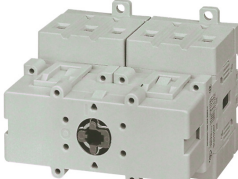
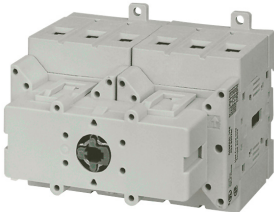
3 Pole 1/L13/L25/L3 2/T14/T26/T3	Metal	
	Catalog Number	Catalog Number
3 Pole >	LE7-80-1753	LE7-100-1753
Amp Rating (encl.)		
UL/CSA	80	100
IEC/VDE/BS	80	100
3Ø Horsepower		
240V	25	30
480V	40	50
600V	50	50
1Ø Horsepower		
120V	5	7.5
240V	10	15
Dimension - mm (inches)	90 (3-35/64) - Height 72 (2-27/32) - Width 90 (3-35/64) - Depth ②	

① Fourth pole side-mounted module available. See page L1:10.

② Dimension without shaft.

③ Switch Handle position

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

Changeover (Center OFF) 1 7 3 9 5 11 2 8 4 10 6 12 6 Pole 1 3 5 7 9 11 2 4 6 8 10 12	 Metal 	 Metal 	 Metal 		
	Catalog Number LE7-16-3753	Catalog Number LE7-25-3753	Catalog Number LE7-32-3753	Catalog Number LE7-40-3753	Catalog Number LE7-63-3753
Changeover >	LE7-16-1756	LE7-25-1756	LE7-32-1756	LE7-40-1756	LE7-63-1756
6 Pole >					
Amp Rating (encl.)					
UL/CSA	16	25	32	40	63
IEC/VDE/BS	16	25	32	40	63
3Ø Horsepower					
240V	3	5	7.5	10	15
480V	7.5	10	15	20	25
600V	10	10	15	20	25
1Ø 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	

Changeover (Center OFF) 6 Pole	Metal	
	Catalog Number	Catalog Number
Changeover >	LE7-80-3753	LE7-100-3753
6 Pole >	LE7-80-1756	LE7-100-1756
Amp Rating (encl.)		
UL/CSA	80	100
IEC/VDE/BS	80	100
3Ø Horsepower		
240V	25	30
480V	40	50
600V	50	50
1Ø 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 – 1 — 2
 ② Dimension without shaft.

Base Mounted 3 Pole Switches - 90° Throw ①③

3 Pole 1/L1 3/L2 5/L3 2/T1 4/T2 6/T3	Plastic		Plastic		Metal	
	Catalog Number	Catalog Num.	Catalog Num.	Catalog Num.	Catalog Num.	Catalog Num.
3 Pole >	LA7-16-1753	LA7-25-1753	LA7-32-1753	LA7-40-1753	LA7-63-1753	LA7-63-1753
Amp Rating (encl.)	16	25	32	40	63	63
UL/CSA	16	25	32	40	63	63
IEC/VDE/BS	16	25	32	40	63	63
3Ø Horsepower						
240V	3	5	7.5	10	15	15
480V	7.5	10	15	20	25	25
600V	10	10	15	20	25	25
1Ø Horsepower						
120V	1	1	1	2	3	3
240V	2	2	3	3	5	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	

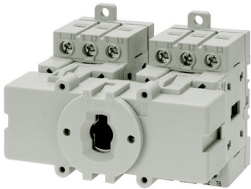
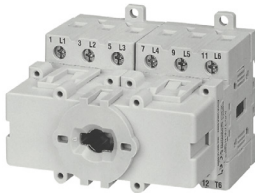
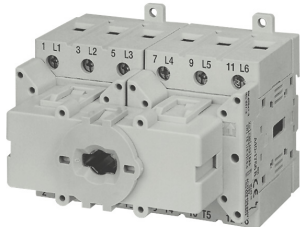
3 Pole 1/L1 3/L2 5/L3 2/T1 4/T2 6/T3	Metal	
	Catalog Num.	Catalog Num.
3 Pole >	LA7-80-1753	LA7-100-1753
Amp Rating (encl.)	80	100
UL/CSA	80	100
IEC/VDE/BS	80	100
3Ø Horsepower		
240V	25	30
480V	40	50
600V	50	50
1Ø Horsepower		
120V	5	7.5
240V	10	15
Dimension - mm (inches)	90 (3-35/64) - Height 72 (2-27/32) - Width 90 (3-35/64) - Depth ②	

① Fourth pole side-mounted module available. See page L1:10.

② Dimension without shaft.

③ Switch Handle position

Base Mounted 3 Pole Changeover and 6 Pole Switches - 90° Throw ①③

Changeover (Center OFF) 1739511 2841012 6 Pole 1357911 24681012	 Metal 	 Metal 	 Metal 		
	Catalog Number	Catalog Number	Catalog Number	Catalog Number	Catalog Number
Changeover >	LA7-16-3753	LA7-25-3753	LA7-32-3753	LA7-40-3753	LA7-63-3753
6 Pole >	LA7-16-1756	LA7-25-1756	LA7-32-1756	LA7-40-1756	LA7-63-1756
Amp Rating (encl.)					
UL/CSA	16	25	32	40	63
IEC/VDE/BS	16	25	32	40	63
3Ø Horsepower					
240V	3	5	7.5	10	15
480V	7.5	10	15	20	25
600V	10	10	15	20	25
1Ø 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) 1739511 28410612 6 Pole 1357911 24681012		1 L1 3 L2 5 L3 7 L4 9 L5 11 L6 2 T1 4 T2 6 T3 8 T4 10 T5 12 T6 Metal	
Changeover >	Catalog Number	Catalog Number	
6 Pole >	Catalog Number	Catalog Number	
Amp Rating (encl.)			
UL/CSA	80	100	
IEC/VDE/BS	80	100	
3Ø Horsepower			
240V	25	30	
480V	40	50	
600V	50	50	
1Ø 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
- ② Dimension without shaft.
- ③ Insert LA2-G3399 is required for 3-position changeover switches when using LA2-G339 metal shaft extensions.

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
 Type A	Silver Legend ❷ Black Knob	Screw Fixing ❶	Type 12, IP66	LA/LE7-16...63A	48 X 48	O-I OFF-ON 1-0-2 ❸	LFS2-A-4-175 LFS2-A-4-175I LFS2-A-4-375
			Type 12, IP66	LA/LE7-25...100A ❹	64 X 64	O-I OFF-ON 1-0-2 ❸	LFS2-A-6-175 LFS2-A-6-175I LFS2-A-6-375
			Type 12, IP66	LA/LE7-40...100A	88 X 88	O-I OFF-ON 1-0-2 ❸	LFS2-A-8-175 ❺ LFS2-A-8-175I ❺ LFS2-A-8-375
		Central Nut	Type 12, IP66	LE7-16...63A	48 X 48	O-I OFF-ON	LFC2-A-4-175 LFC2-A-4-175I
 Type E	Silver Legend ❷ Black Knob ❸	Screw Fixing ❶	Type 12, IP66	LA/LE7-16...63A	48 X 48	O-I OFF-ON 1-0-2 ❸	LFS2-E-4-175 LFS2-E-4-175I LFS2-E-4-375
			Type 12, IP66	LA/LE7-25...100A ❹	64 X 64	O-I OFF-ON 1-0-2 ❸	LFS2-E-6-175 LFS2-E-6-175I LFS2-E-6-375
		Central Nut	Type 12, IP66	LE7-16...63A	48 X 48	O-I OFF-ON	LFC2-E-4-175 LFC2-E-4-175I
 Type I	Yellow Legend ❷ Red Knob	Screw Fixing ❶	Type 12, IP66	LA/LE7-16...63A	48 X 48	O-I OFF-ON 1-0-2 ❸	LFS2-I-4-175 LFS2-I-4-175I LFS2-I-4-375
			Type 12, IP66	LA/LE7-25...100A ❹	64 X 64	O-I OFF-ON 1-0-2 ❸	LFS2-I-6-175 LFS2-I-6-175I LFS2-I-6-375
			Type 12, IP66	LA/LE7-40...100A	88 X 88	O-I OFF-ON 1-0-2 ❸	LFS2-I-8-175 ❺ LFS2-I-8-175I ❺ LFS2-I-8-375
		Central Nut	Type 12, IP66	LE7-16...63A	48 X 48	O-I OFF-ON	LFC2-I-4-175 LFC2-I-4-175I
 Type L	Yellow Legend ❷ Red Knob ❸	Screw Fixing ❶	Type 12, IP66	LA/LE7-16...63A	48 X 48	O-I OFF-ON 1-0-2 ❸	LFS2-L-4-175 LFS2-L-4-175I LFS2-L-4-375
			Type 12, IP66	LA/LE7-25...100A ❹	64 X 64	O-I OFF-ON	LFS2-L-6-175 LFS2-L-6-175I
		Central Nut	Type 12, IP66	LE7-16...63A	48 X 48	O-I OFF-ON	LFC2-L-4-175 LFC2-L-4-175I

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.

❻ This handle cannot be used on a mechanical coupling accessory L2-G3* when coupling any LE7 switches. Must select smaller 48x48 or 64x64 type handles for LE7 coupling applications.

Switch Handle Assemblies (LA and LE Switches) ②

Switch Handle Assembly	Color	Mounting Method	Protection Rating	For use with...	Frame Size	Legend	Catalog Number
 Type G	Gray Frame Black Handle	Screw Fixing ①	Type 12, IP66	LA/LE7-16	54 x 54	O — I OFF — ON	LFS7-G-4-175
			Type 12, IP66	LA7-16...100A LE7-25...100A	67 x 67	O — I OFF — ON	LFS2-G-6-175
			Type 12, IP66	LA/LE7-40...100A	90 x 90	O — I OFF — ON	LFS2-G-8-175 ⑥
		Central Nut	Type 12, IP66	LE7-16...63A	67 x 67	O — I OFF — ON	LFC2-G-6-175
 Type N	Yellow Frame Red Handle	Screw Fixing ①	Type 12, IP66	LA/LE7-16	54 x 54	O — I OFF — ON	LFS7-N-4-175
			Type 12, IP66	LA7-16...100A LE7-25...100A	67 x 67	O — I OFF — ON	LFS2-N-6-175
			Type 12, IP66	LA/LE7-40...100A	90 x 90	O — I OFF — ON	LFS2-N-8-175 ⑥
		Central Nut	Type 12, IP66	LE7-16...63A	67x67	O — I OFF — ON	LFC2-N-6-175

Switch Handle Assemblies for LA7 Switches - Type 4/4X ①②③④⑤

Switch Handle Assembly	Mounting Method	Protection Rating	For use with...	Frame Size	Legend	Color	Catalog Number
 Type R	Screw Fixing Configurable for defeatable or non- defeatable	Type 3R, 3, 12, 4, 4X IP66	LA7-16...100A	48.7 x 47	O — I OFF — ON	Black Frame Black Handle	LA7-SB
		Type 3R, 3, 12, 4, 4X IP66		48.7 x 47	O — I OFF — ON	Yellow Frame Red Handle	LA7-SY
 Type R	Screw Fixing Configurable for defeatable or non- defeatable	Type 3R, 3, 12, 4, 4X	LA7-16...100A	80 x 114	O — I OFF — ON	Black Frame Black Handle	L11-PB
		Type 3R, 3, 12, 4, 4X		80 x 114	O — I OFF — ON	Yellow Frame Red Handle	L11-PY

① Mounting screws included with Switch Body Assembly.

② Lockable in OFF position with up to 3 padlocks.

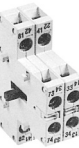
③ For LA7 base mount switches only.

④ Switch handle can be field modified to be defeatable or non-defeatable.

⑤ Handles LA7-S_ and L11-P_ require R-type Switch Handle Shaft Extension. See page L1:13.

⑥ This handle cannot be used on a mechanical coupling accessory L2-G3* when coupling any LE7 switches. Must select smaller 48x48 or 64x64 type handles for LE7 coupling applications.

Auxiliary Contact Blocks ②

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

Fourth Pole ②

Fourth Pole	Contact Configuration	For use with...	Catalog Number
Early Make-Late Break			
		LE7-16 LE7-25 LE7-32 LE7-40 LE7-63 LE7-80 LE7-100	LE7-16-NP LE7-25-NP LE7-32-NP LE7-40-NP LE7-63-NP LE7-80-NP LE7-100-NP
		LA7-16 LA7-25 LA7-32 LA7-40 LA7-63 LA7-80 LA7-100	LA7-16-NP LA7-25-NP LA7-32-NP LA7-40-NP LA7-63-NP LA7-80-NP LA7-100-NP

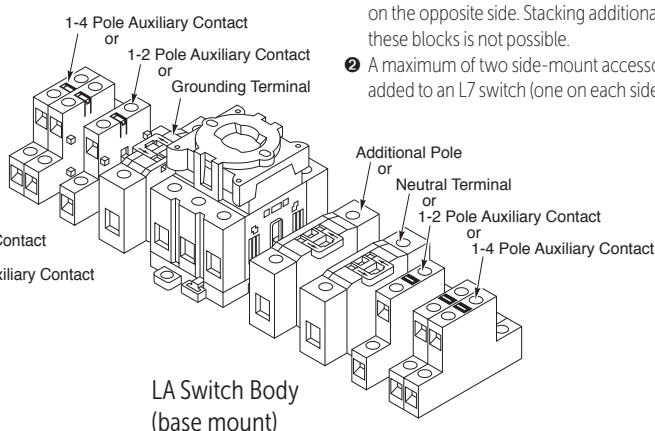
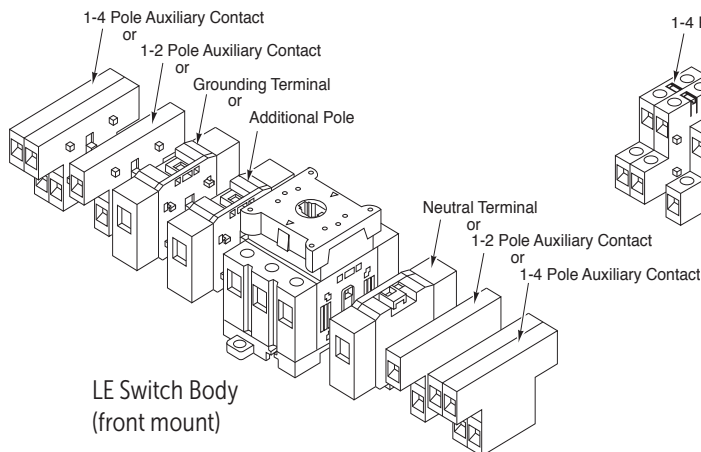
Ground & Neutral Terminals ②

Terminal	Contact Configuration	For use with...	Catalog Number
Ground Terminal			
		LA7-16 LA7-25 & 32 LA7-40 & 63 LA7-80 & 100	LA7-16-PE LA7-32-PE LA7-63-PE LA7-100-PE
		LE7-16 LE7-25 & 32 LE7-40 & 63 LE7-80 & 100	LE7-16-PE LE7-32-PE LE7-63-PE LE7-100-PE
Neutral Terminal			
		LA7-16 LA7-25 & 32 LA7-40 & 63 LA7-80 & 100	LA7-16-TN LA7-32-TN LA7-63-TN LA7-100-TN
		LE7-16 LE7-20 & 32 LE7-40 & 63 LE7-80 & 100	LE7-16-TN LE7-32-TN LE7-63-TN LE7-100-TN

L1

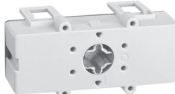
Accessory Mounting Guide

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.



- 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.
- ② A maximum of two side-mount accessories may be added to an L7 switch (one on each side)

L7 Switch Accessories

Accessory	Description	Catalog Number
 (Reducer included)	End Shaft - for LE switch ② - Replacement 44mm shaft supplied standard with all switches - Sold only in packages of 5. - Order 5 pieces to receive 1 pkg of 5. Plastic L2-G3380 Metal L7-G3688 ①	
	Terminal cover - 3 pole LE/LA7-16 LE/LA7-25/32 LE/LA7-40/63 LE/LA7-80/100 - Sold only in packages of 2. - Order 2 pieces to receive 1 pkg of 2.	L7-16-C3 L7-25-C3 L7-40-C3 L7-80-C3
	Terminal cover - 3 & 4th pole LE/LA7-25/32 LE/LA7-40/63 LE/LA7-80/100 - Sold only in complete packages. - Order 1 to receive 1 pkg of 4 pieces.	L7-25-C4 L7-40-C4 L7-80-C4
	6 Pole Mechanical Coupling - ②③ 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 L7-G3660 L7-G3661 L7-G3662
	Handle Assembly Wrench Used for tightening LA7-S- handles during assembly	LA7-N245

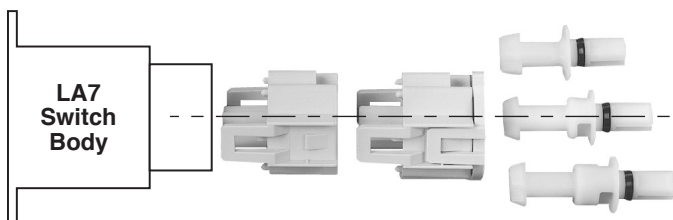
① LE7-40...100 3-pole switches and LE7-16...100 6-pole/Changeover switches come standard with a 44mm **metal** End Shaft. LE7-16...32 3-pole switches come standard with a 44mm **plastic** End Shaft.

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 L1:5 and L1:7. Coupling for changeover switch is not available.

③ Mechanical couplings applied to all LE7 front mount switches must use LFS2- 48x48 or 64x64 type handles. 6-Pole Mechanical Couplings are not designed for use with LFS2- 88x88 or 90x90 type handles. Mechanical couplings applied to all LA7 base mount switches may use all types of LFS2 handles where applicable.

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.

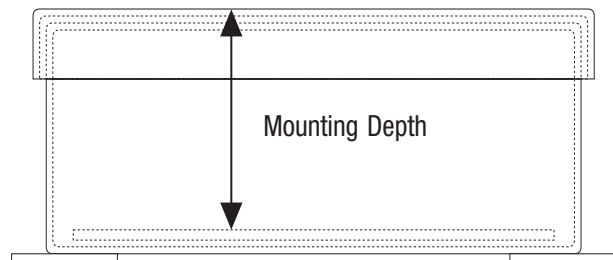


Modular Shaft Extension Components ③

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

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 LA7-40...100 3-pole switches and LA7-16...100 6-pole/Changeover switches come standard with a 44mm metal End Shaft. LA7-16...32 3-pole switches come standard with a 44mm plastic End Shaft.

③ Order replacement End Shafts for LE (front mount switches) from page L1:11.

Metal shaft extension system

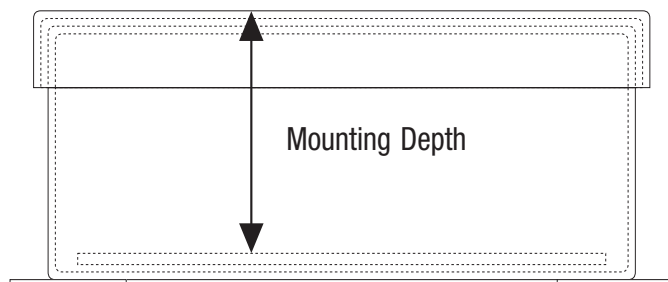
Adjustable metal shaft extensions snap on securely to LA7 switches via the same quick-connect design as shaft extension modules. Metal shafts are equipped with a door interlock and a padlock hasp for locking out the switch after the enclosure is opened (for outside lockout, select a Switch Handle Assembly 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 L1:8 and L1:9. 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.

- 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.
- This dimension can be reduced another 55mm by cutting the plastic sleeve and further cutting the metal shaft.
- If using Metal Shaft Extension System with LA7 3 Pole Changeover Switches, insert LA2-G3399 is required for three position switching. Lockout at the switch is not possible. See page L1:8 for Type E or Type L lockable handles for lockout on outside of enclosure.
- Shaft included in package is designed for LA7-S_ and L11-P_ only. Not for use with previous handles.

Metal Shaft Extension Components (LA7-16...100)

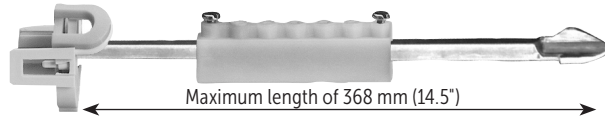
Component	Catalog Number
 Length: 110...235mm For switching positions: 0	LA2-G3393 ❸
 Length: 230...350mm For switching positions: 0	LA2-G3394 ❸
 Insert - For modifying metal shaft for use with 3 Pole Changeover Switches (SEE IMPORTANT NOTE ❸)	LA2-G3399

Metal Shaft Extension Table

Metal Shaft Extension	Mounting Depth (mm) ❶			
	Switch Body LA7-16	Switch Body LA7-25/32	Switch Body LA7-40/63	Switch Body LA7-80/100
LA2-G3393	168❷ - 299	173❷ - 304	186❷ - 317	203❷ - 334
LA2-G3394	288 - 414	293 - 419	306 - 432	323 - 449

R-type Switch Handle Shaft Extensions (LA7-16...100) ❹

Only select shaft extension from this table if ordering the R-type (UL Type 4X) Switch Handle (page L1:9). Select shaft after figuring overall Mounting Depth.

R-type Switch Handle Shaft Extension (typical)				
				
Mounting Depth (mm) ❶				Catalog Number
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	LA7-S-67
107.5-131.5	116.5-140.5	130.5-154.5	146.5-170.5	LA7-S-90
114.5-138.5	123.5-147.5	137.5-161.5	153.5-177.5	LA7-S-97
132.5-156.5	141.5-165.5	155.5-179.5	171.5-195.5	LA7-S-115
Adjustable R-type Switch Handle Shaft Extension (LA7-S1-P shown)				
 Maximum length of 368 mm (14.5")				
130-385	144-399	157-412	174-429	LA7-S1-P
Includes all parts except L11-S1 shaft, order separately				LA7-NS-P

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

Amp/Horsepower Rating						Painted Steel - UL Type 1/3/12/4 LFS2 Operator - Type 12/IP66 ⑦						Nonmetallic - UL Type 1/3/12/4 LFS2 Operator - Type 12/IP66 ⑦						Nonmetallic - UL Type 4/4X Operator - UL Type 4/4X						Stainless Steel - UL Type 4/4X Operator - UL Type 4/4X					
																													
																		LA7-S handle shown						L11-P handle shown					
						Dimension ③						Dimension ③						Dimension ③						Dimension ③					
1Ø		3Ø				Catalog Number		Catalog Number		Catalog Number		Catalog Number																	
120V	240V	240V	480V	600V		A	C	A	C	A	C	A																	
3 Pole - ON/OFF																													
16	1	2	3	7.5	10	LA7-16-1753-WN	A	LA7-16-1753-CN	C	LA7-16-1753-CR	C	LA7-16-1753-SR	A																
25	1	2	5	10	10	LA7-25-1753-WN	A	LA7-25-1753-CN	C	LA7-25-1753-CR	C	LA7-25-1753-SR	A																
32	1	3	7.5	15	15	LA7-32-1753-WN	A	LA7-32-1753-CN	C	LA7-32-1753-CR	C	LA7-32-1753-SR	A																
40	2	3	10	20	20	LA7-40-1753-WN	A	LA7-40-1753-CN	C	LA7-40-1753-CR	C	LA7-40-1753-SR	A																
63	3	5	15	25	25	LA7-63-1753-WN	A	LA7-63-1753-CN	C	LA7-63-1753-CR	C	LA7-63-1753-SR	A																
80	5	10	25	40	50	LA7-80-1753-WN	B	LA7-80-1753-CN	D	LA7-80-1753-CR	D	LA7-80-1753-SR	B																
100	7.5	15	30	50	50	LA7-100-1753-WN	B	LA7-100-1753-CN	D	LA7-100-1753-CR	D	LA7-100-1753-SR	B																
4 Pole - ON/OFF ④																													
16	1	2	3	7.5	10	LA7-16-1754-WN	A	LA7-16-1754-CN	C	LA7-16-1754-CR	C	LA7-16-1754-SR	A																
25	1	2	5	10	10	LA7-25-1754-WN	A	LA7-25-1754-CN	C	LA7-25-1754-CR	C	LA7-25-1754-SR	A																
32	1	3	7.5	15	15	LA7-32-1754-WN	A	LA7-32-1754-CN	C	LA7-32-1754-CR	C	LA7-32-1754-SR	A																
40	2	3	10	20	20	LA7-40-1754-WN	A	LA7-40-1754-CN	C	LA7-40-1754-CR	C	LA7-40-1754-SR	A																
63	3	5	15	25	25	LA7-63-1754-WN	A	LA7-63-1754-CN	C	LA7-63-1754-CR	C	LA7-63-1754-SR	A																
80	5	10	25	40	50	LA7-80-1754-WN	B	LA7-80-1754-CN	D	LA7-80-1754-CR	D	LA7-80-1754-SR	B																
100	7.5	15	30	50	50	LA7-100-1754-WN	B	LA7-100-1754-CN	D	LA7-100-1754-CR	D	LA7-100-1754-SR	B																
6 Pole - ON/OFF																													
16	1	2	3	7.5	10	LA7-16-1756-WN	B	LA7-16-1756-CN	D	LA7-16-1756-CR	D	LA7-16-1756-SR	B																
25	1	2	5	10	10	LA7-25-1756-WN	B	LA7-25-1756-CN	D	LA7-25-1756-CR	D	LA7-25-1756-SR	B																
32	1	3	7.5	15	15	LA7-32-1756-WN	B	LA7-32-1756-CN	D	LA7-32-1756-CR	D	LA7-32-1756-SR	B																
40	2	3	10	20	20	LA7-40-1756-WN	B	LA7-40-1756-CN	D	LA7-40-1756-CR	D	LA7-40-1756-SR	B																
63	3	5	15	25	25	LA7-63-1756-WN	B	LA7-63-1756-CN	D	LA7-63-1756-CR	D	LA7-63-1756-SR	B																

Modifications (Factory Assembled) ②

Description	Catalog Number Suffix
Ground Terminal	
For LA7-16	-PE
For LA7-25 & 32	-PE
For LA7-40 & 63	-PE
For LA7-80 & 100	-PE
Neutral Terminal	
For LA7-16	-TN ③
For LA7-25 & 32	-TN ③
For LA7-40 & 63	-TN ③
For LA7-80 & 100	-TN ③

NOTE: All -WN and -CN 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 (LFS2-A), change "N" to "A". For example, change LA7-25-1753-WN to LA7-25-1753-WA.



All -CR and -SR Enclosed Disconnects come standard with a round yellow and red handle set to defeatable door interlocking mode (Type R) and ON/OFF marking. For a black handle change "R" to "B". For example, change LA7-25-1753-**CR** to LA7-25-1753-**CB**. *Note: L11-S/* Handles can be field converted to non-defeatable mode by inserting a plastic tab which ships in a packet with the enclosed assemblies. See pages L1:8...L1:9 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.
- 6 LA7-...-CR and -SR Enclosures with dim codes A and C include LA7-S_ Handles, and dim codes B and D include L11-P_ handles. Transition to LA7-S* handles will be a gradual change.
- 7 To substitute L11 4X handle add -PY for yellow/red or -PB for black handle; For example: LA7-25-1753-WN changes to LA7-25-1753-WN-PY. Price adder applies.

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

Amp/Horsepower Rating						Painted Steel - UL Type 1/3/12/4 LFS2 Operator - Type 12/IP66 ⑤			Nonmetallic - UL Type 1/3/12/4 LFS2 Operator - Type 12/IP66 ⑤			Nonmetallic - UL Type 4/4X Operator - UL Type 4/4X			Stainless Steel - UL Type 4/4X Operator - UL Type 4/4X		
																	
UL/ CSA Amps	Horsepower					Catalog Number	Dimension ⑥		Catalog Number	Dimension ⑥		Catalog Number	Dimension ⑥		Catalog Number	Dimension ⑥	
	1Ø	2Ø	3Ø	4Ø	600V												
	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	A		LA7-16-1753-CN-PL11	C		LA7-16-1753-CR-PL11	C		LA7-16-1753-SR-PL11	A	
25	1	2	5	10	10	LA7-25-1753-WN-PL11	A		LA7-25-1753-CN-PL11	C		LA7-25-1753-CR-PL11	C		LA7-25-1753-SR-PL11	A	
32	1	3	7.5	15	15	LA7-32-1753-WN-PL11	A		LA7-32-1753-CN-PL11	C		LA7-32-1753-CR-PL11	C		LA7-32-1753-SR-PL11	A	
40	2	3	10	20	20	LA7-40-1753-WN-PL11	A		LA7-40-1753-CN-PL11	C		LA7-40-1753-CR-PL11	C		LA7-40-1753-SR-PL11	A	
63	3	5	15	25	25	LA7-63-1753-WN-PL11	A		LA7-63-1753-CN-PL11	C		LA7-63-1753-CR-PL11	C		LA7-63-1753-SR-PL11	A	
80	5	10	25	40	50	LA7-80-1753-WN-PL11	B		LA7-80-1753-CN-PL11	D		LA7-80-1753-CR-PL11	D		LA7-80-1753-SR-PL11	B	
100	7.5	15	30	50	50	LA7-100-1753-WN-PL11	B		LA7-100-1753-CN-PL11	D		LA7-100-1753-CR-PL11	D		LA7-100-1753-SR-PL11	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	A		LA7-16-1754-CN-PL11	C		LA7-16-1754-CR-PL11	C		LA7-16-1754-SR-PL11	A	
25	1	2	5	10	10	LA7-25-1754-WN-PL11	A		LA7-25-1754-CN-PL11	C		LA7-25-1754-CR-PL11	C		LA7-25-1754-SR-PL11	A	
32	1	3	7.5	15	15	LA7-32-1754-WN-PL11	A		LA7-32-1754-CN-PL11	C		LA7-32-1754-CR-PL11	C		LA7-32-1754-SR-PL11	A	
40	2	3	10	20	20	LA7-40-1754-WN-PL11	A		LA7-40-1754-CN-PL11	C		LA7-40-1754-CR-PL11	C		LA7-40-1754-SR-PL11	A	
63	3	5	15	25	25	LA7-63-1754-WN-PL11	A		LA7-63-1754-CN-PL11	C		LA7-63-1754-CR-PL11	C		LA7-63-1754-SR-PL11	A	
80	5	10	25	40	50	LA7-80-1754-WN-PL11	B		LA7-80-1754-CN-PL11	D		LA7-80-1754-CR-PL11	D		LA7-80-1754-SR-PL11	B	
100	7.5	15	30	50	50	LA7-100-1754-WN-PL11	B		LA7-100-1754-CN-PL11	D		LA7-100-1754-CR-PL11	D		LA7-100-1754-SR-PL11	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	B		LA7-16-1756-CN-PL11	D		LA7-16-1756-CR-PL11	D		LA7-16-1756-SR-PL11	B	
25	1	2	5	10	10	LA7-25-1756-WN-PL11	B		LA7-25-1756-CN-PL11	D		LA7-25-1756-CR-PL11	D		LA7-25-1756-SR-PL11	B	
32	1	3	7.5	15	15	LA7-32-1756-WN-PL11	B		LA7-32-1756-CN-PL11	D		LA7-32-1756-CR-PL11	D		LA7-32-1756-SR-PL11	B	
40	2	3	10	20	20	LA7-40-1756-WN-PL11	B		LA7-40-1756-CN-PL11	D		LA7-40-1756-CR-PL11	D		LA7-40-1756-SR-PL11	B	
63	3	5	15	25	25	LA7-63-1756-WN-PL11	B		LA7-63-1756-CN-PL11	D		LA7-63-1756-CR-PL11	D		LA7-63-1756-SR-PL11	B	

Modifications (Factory Assembled) ②

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



NOTE: All -WN and -CN 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 -CR and -SR Enclosed Disconnects come standard with a round yellow and red handle set to defeatable door interlocking mode (Type R) and ON/OFF marking. For a black handle change "R" to "B". For example, change LA7-25-1754-CR-PL11 to LA7-25-1754-CB-PL11. Note: L11-S*/P* Handles can be field converted to non-defeatable mode by inserting a plastic tab which ships in a packet with the enclosed assemblies. See pages L1.8...L1.9 for descriptions of all Switch Handle Assemblies.

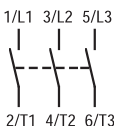
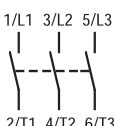
- ① UL/CSA Approved enclosures do not provide for knockouts. Wire opening must be drilled by user.
- ② One modification available per Enclosed Disconnect (no modifications available on 4 pole).
- ③ Factory modifications not available.
- ④ Nonmetallic enclosures are fiberglass reinforced polyester type.

- ⑤ LA7-...-CR and -SR Enclosures with dim codes A & C include LA7-S_ Handles, and dim codes B & D include L11-P_ handles. Transition to LA7-S* handles will be a gradual change.
- ⑥ To substitute L11 4X handle add -PY for yellow/red or -PB for black handle. For example: LA7-25-1753-WN-PL11 changes to LA7-25-1753-WN-PY-PL11. Price adder applies.

LY7 Enclosed Load Disconnect Switches (IP Rated Enclosures) ❶

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)
								
UL/ CSA Amps	Horsepower					Catalog Number	Catalog Number	Catalog Number
	1Ø		3Ø					
	120V	240V	240V	480V	600V			
3 Pole - ON/OFF								
16	1	2	3	7.5	10	LY7-16M-1753-N4	LY7-16M-1753-G4	LY7-16M-1753-A4
25	1	2	5	10	10	LY7-25-1753-N6	LY7-25-1753-G6	LY7-25-1753-A6
32	1	3	7.5	15	15	LY7-32-1753-N6	LY7-32-1753-G6	LY7-32-1753-A6
40	2	3	10	20	20	LY7-40-1753-N6	LY7-40-1753-G6	LY7-40-1753-A6
63	3	5	15	25	25	LY7-63-1753-N6	LY7-63-1753-G6	LY7-63-1753-A6
80	5	10	25	40	50	LY7-80-1753-N6	LY7-80-1753-G6	LY7-80-1753-A6
100	7.5	15	30	50	50	LY7-100-1753-N6	LY7-100-1753-G6	LY7-100-1753-A6
6 Pole - ON/OFF								
16	1	2	3	7.5	10	LY7-16M-1756-N6	LY7-16M-1756-G6	LY7-16M-1756-A6
25	1	2	5	10	10	LY7-25-1756-N6	LY7-25-1756-G6	LY7-25-1756-A6
32	1	3	7.5	15	15	LY7-32-1756-N6	LY7-32-1756-G6	LY7-32-1756-A6
40	2	3	10	20	20	LY7-40-1756-N6	LY7-40-1756-G6	LY7-40-1756-A6
63	3	5	15	25	25	LY7-63-1756-N6	LY7-63-1756-G6	LY7-63-1756-A6

Assembled L7 Disconnect Switches

Switch	Description	Function	Color	Circuit	Poles	UL/CSA Amps	Catalog Number
	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.	 ON-OFF 90° Switching	Gray face/ Black Handle	 1/L1 3/L2 5/L3 2/T1 4/T2 6/T3	3	25	LA7-25-1753-Q
						32	LA7-32-1753-Q
	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.	 ON-OFF 90° Switching	Yellow face/ Red handle	 1/L1 3/L2 5/L3 2/T1 4/T2 6/T3	3	25	LA7-25-1753-R
						32	LA7-32-1753-R

❶ 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
	ABS Enclosure – For High Impact Applications IP66, UL94 Flame Resistance - HB Includes 1 Grounding/Neutral terminal.	95 (W) x 150 (H) x 86 (D)	LA7-25...32	3 / 4	LA2-G3194	LA2-G3572
		95 (W) x 150 (H) x 111 (D)				LA2-G3573
	With pre-drilled holes for 64 x 64 operator or larger	125 (W) x 180 (H) x 105 (D)	LA7-25...32	6	With switch Supplied with enclosure	L7-G3663
			LA7-40...63	3 / 4		
		175 (W) x 230 (H) x 120 (D)	LA7-40...63	6	With switch Supplied with enclosure	L7-G3665
			LA7-80...100	3 / 4		
	Without holes	95 (W) x 150 (H) x 86 (D) 95 (W) x 150 (H) x 111 (D)				LA2-G3574 LA2-G3575
	Noryl Enclosure – For Corrosion Prone Applications IP66, UL94 Flame Resistance - VO Includes 1 Grounding/Neutral terminal.	95 (W) x 150 (H) x 86 (D)	LA7-25...32	3 / 4	LA2-G3194	LA2-G3576
		95 (W) x 150 (H) x 111 (D)				LA2-G3577
	With pre-drilled holes for 64 x 64 operator or larger	125 (W) x 180 (H) x 105 (D)	LA7-25...32	6	With switch Supplied with enclosure	L7-G3664
			LA7-40...63	3 / 4		
		175 (W) x 230 (H) x 120 (D)	LA7-40...63	6	With switch Supplied with enclosure	L7-G3666
			LA7-80...100	3 / 4		
	Without holes	95 (W) x 150 (H) x 86 (D) 95 (W) x 150 (H) x 111 (D)				LA2-G3578 LA2-G3579

Enclosure Accessories

Accessory	Description	For use with...	Pkg Qty	Catalog Number
 L7-G3653  L7-G3673	Additional Ground & Neutral Terminals - - Provision for two - One included with enclosures above - Sold only in quantities of 5. Order 5 pieces to receive one package of 5.	LA2-G357... L7-G366...	5	L7-G3653 L7-G3673

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 ❶	[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	
Lost power, per pole			[W]	0.58	1.0	1.5	1.6	2.4	3.6	5.5	0.4	
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} ❶			[A]	25	40	50	63	75	100	120	12	
Conventional enclosed thermal current I_{th} ❶			[A]	20	32	40	50	63	80	100	10	
Rated Current I_e ❶												
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	22	–	
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		1 pole	24/48V	[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	–
DC-21A	For resistive loads, T< 1 ms U_e max = 660V	2 poles	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	–
		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	–
		3 poles	600V	[A]	1.3	1.5	1.5	2	2	3	3	–
			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	–
Rated power P_e												
DC-23A, DC-3, DC-5	3 poles For inductive loads, T< 15 ms	in series	90V	[kW]	1	1.3	1.5	2.9	4.1	5.1	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.

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	16	16	24	34	56	80	–	
		[HP]	1	1	1	2	3	5	7.5	–	
	240V	[FLA]	12	12	17	17	28	50	68	–	
		[HP]	2	2	3	3	5	10	15	–	
	480V	[FLA]	8.5	8.5	14	21	26	34	68	–	
		[HP]	3	3	5	7.5	10	15	30	–	
	600V	[FLA]	11.2	11.2	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	30.4	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	–

Short Circuit Ratings

Maximum short circuit prospective fault current, RMS symmetrical, 600 VAC max.

When protected by Class K5 fuses, maximum amperes of rated fuse	[KA]	5	5	5	5	5	5	5	–
	[A]	25	35	35	80	80	125	125	–
When protected by J Class fuses, maximum amperes of rated fuse	[KA]	~	65	65	65	65	65	65	–
	[A]	~	30	30	60	60	100	100	–

Mechanical Data

			16A	25A...32A	40A...63A	80A...100A	Aux. Cont.
Protection class according to IEC 529							
Motor rating 60 Hz							
Actuators			Type 12 / IP66				
Switch bodies			IP20				
Mechanical life	[millions of operations]		0.2				
Maximum wire gauges							
Terminal size per IEC 947-1			A4	A6	A7	A9	2xA2
Fine strands	1/2	[AWG]	(1)16...10/(2)16...12	(1)14...8/(2)14...10	(1)12...4/(2)12...8	(1)10...1/(2)10...4	18...14
	conductor	[mm²]	(1)1...10/(2)1...4	(1)1.5...16/(2)1.5...6	(1)2.5...25/(2)2.5...16	(1)4...50/(2)4...25	0.75...2.5
Rigid wire	1/2	[AWG]	(1)16...8/(2)16...12	(1)14...8/(2)14...10	(1)12...4/(2)12...8	(1)10...1/(2)10...6	18...14
	conductor	[mm²]	(1)1.5...6/(2)1.5...4	(1)1.5...10/(2)1...6	(1)2.5...16/(2)2.5...10	(1)4...35/(2)4...16	0.5...2.5
Tightening Torque	max.	[lb-in]	12	12	25	50	8
		[Nm]	1.4	1.4	2.8	5.6	1.0
Ambient Temperature	Operation	[°C]	-25...+60 °C (-13...+140 °F)				
	Storage	[°C]	-40...+80 °C (-40...+176 °F)				

Conformity to Standards: ①

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)

CCC Certified

Meets IEC, VDE and BS standard requirements

IEC/CE Marked (Per EN60947-3)

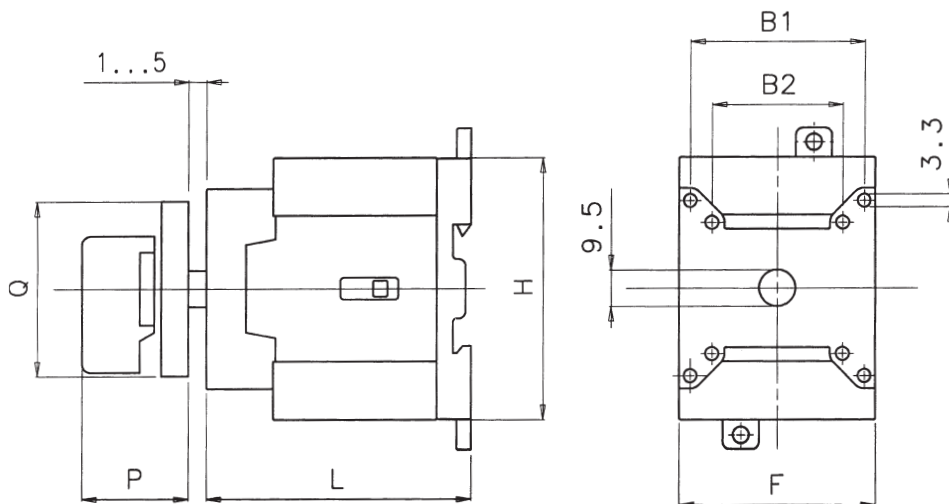
① LA(E)-16 switches are cUL approved.

LE7 Front Mount (3 Pole) with Screw Fixing Handle

Dimensions are in millimeters (inches). 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

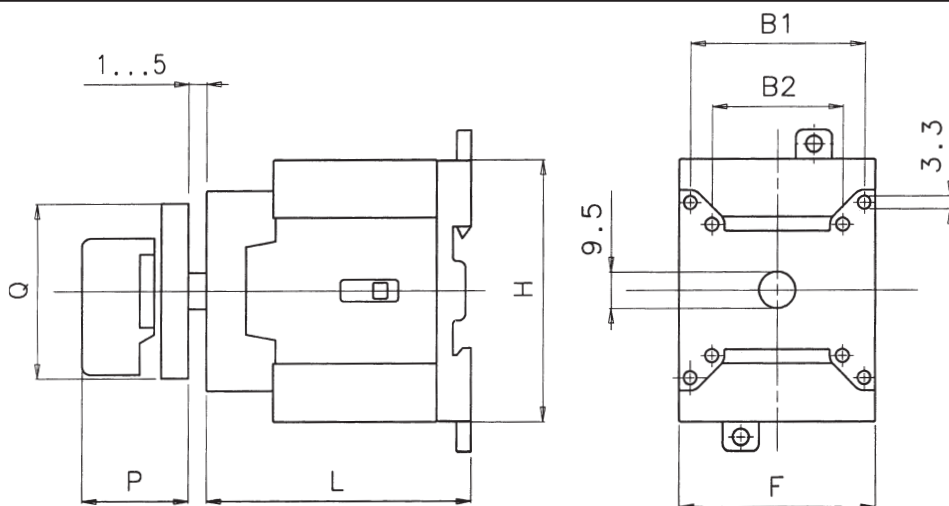
Switch Body					
Type	B1	B2	F	H	L
LE7-16	–	28	36	63	51
LE7-25/32	–	36	45	63	60
LE7-40/63	48	36	54	72	74
LE7-80/100	48	36	72	90	90



LE7 Front Mount (6 Pole) with Screw Fixing Handle

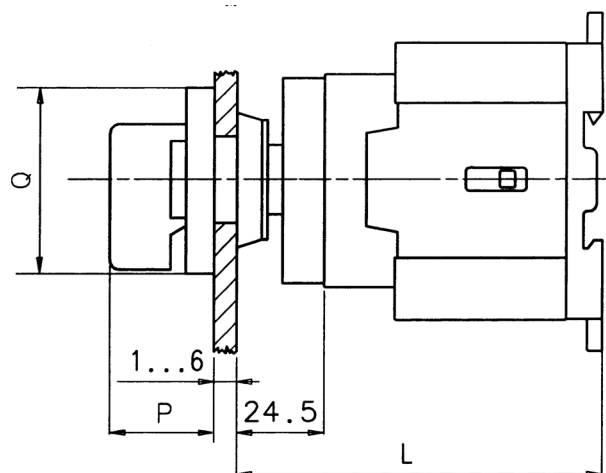
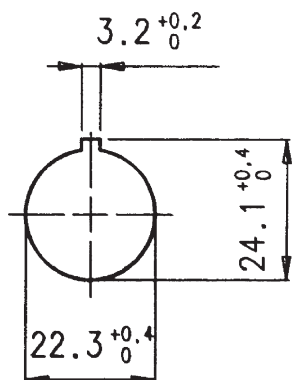
Switch Handle		
Type	P	Q
LFS2-A-4	28	48 x 48
LFS2-E-4	28	48 x 48
LFS2-I-4	28	48 x 48
LFS2-L-4	28	48 x 48
LFS2-S-4	28	48 x 62
LFS2-A-6	28	64 x 64
LFS2-E-6	28	64 x 64
LFS2-I-6	28	64 x 64
LFS2-L-6	28	64 x 64
LFS2-S-6	28	64 x 78
LFS7-G-4	34	54 x 54
LFS7-N-4	34	54 x 54
LFS2-G-6	34	67 x 67
LFS2-N-6	34	67 x 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	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 (3 Pole) with Central Nut Fixing Handle

Dimensions are in millimeters (inches). 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

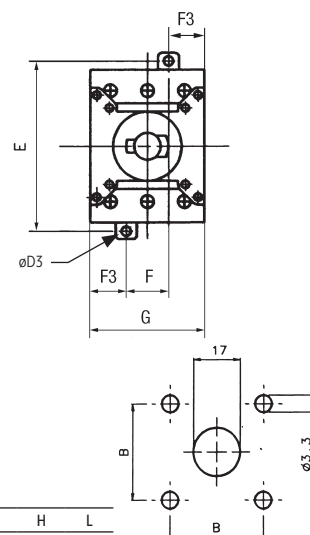
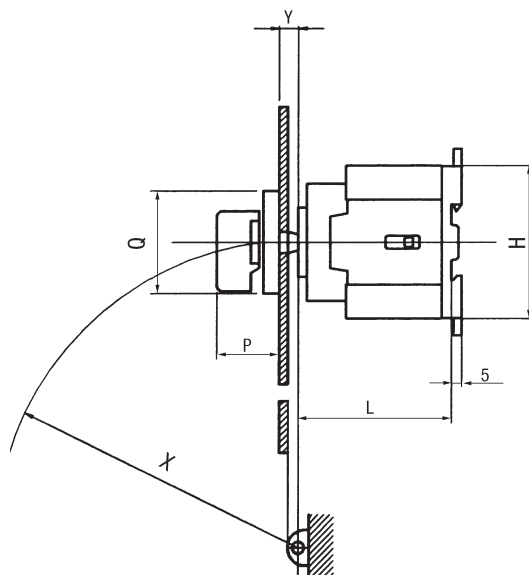
Switch Body

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

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	23.5	72	90	89

LA7 Base Mount (6 Pole) with Screw Fixing Handle

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

Switch Handle

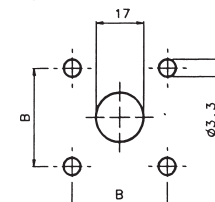
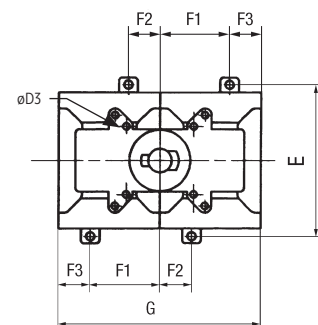
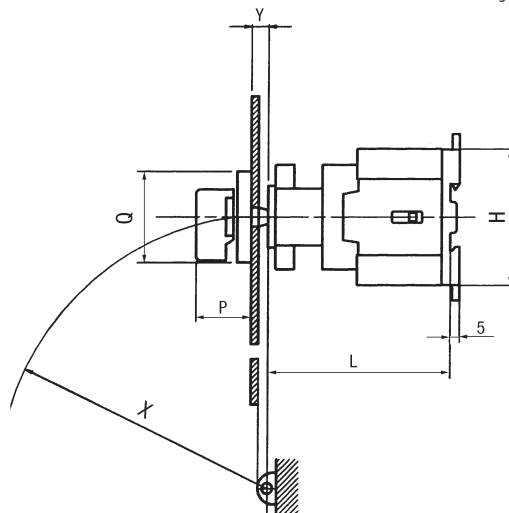
Type	P	Q	B
LFS2-A-4	28	48 x 48	36
LFS2-E-4	28	48 x 48	36
LFS2-I-4	28	48 x 48	36
LFS2-L-4	28	48 x 48	36
LFS2-S-4	28	48 x 62	36
LFS2-A-6	28	64 x 64	48 (36)
LFS2-E-6	28	64 x 64	48 (36)
LFS2-I-6	28	64 x 64	48 (36)
LFS2-L-6	28	64 x 64	48 (36)
LFS2-S-6	28	64 x 78	48 (36)
LFS7-G-4	34	54 x 54	36
LFS7-N-4	34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

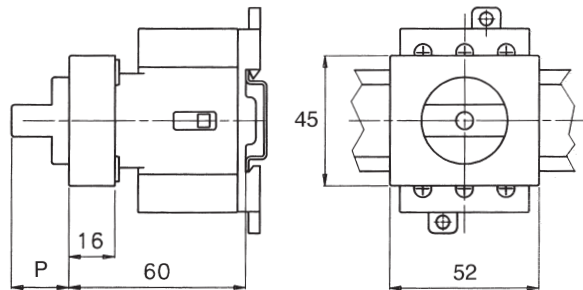
Type	Y min.	X ≥	Y max.	X ≥
LE7-16	2.5	150	9.5	90
LE7-25/32	2.5	150	9.5	90
LE7-40/63	2.5	150	9.5	90
LE7-80/100	2.5	150	9.5	90

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	23.5	23.5	144	90	114

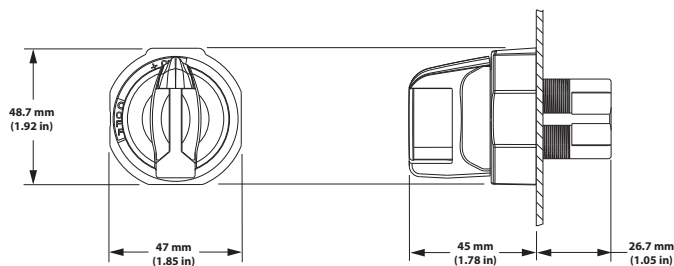


Type Q and Emergency Off Switch

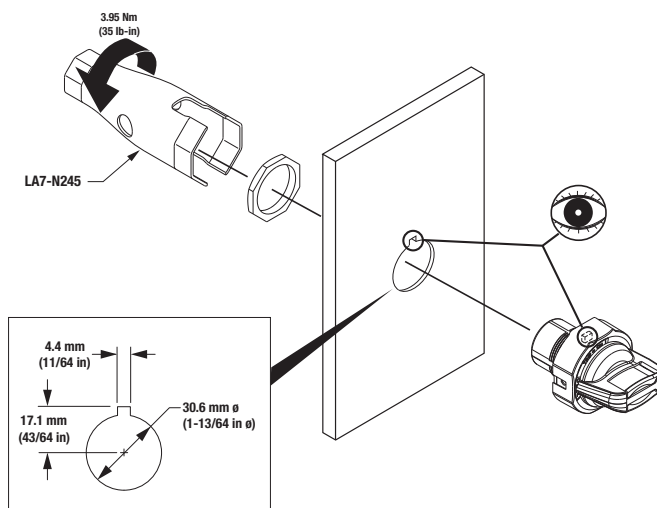


Type	P
LA7-25(32)-1753-Q	20
LA7-25(32)-1753-R	23

LA7-SY/SB (Type R) Switch Handle

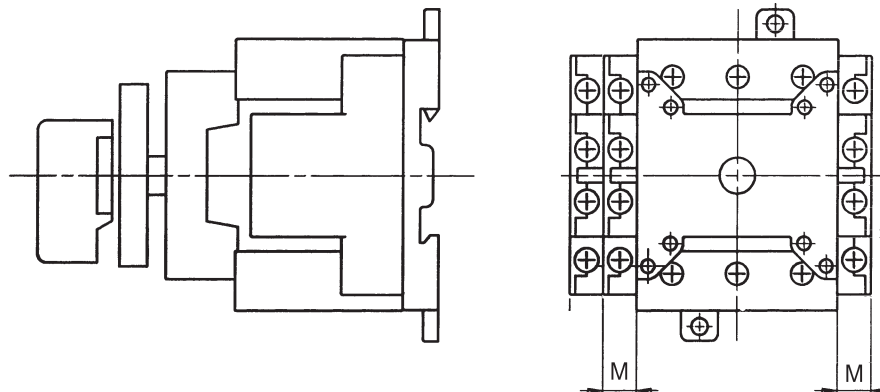


LA7-SY/SB Assembly



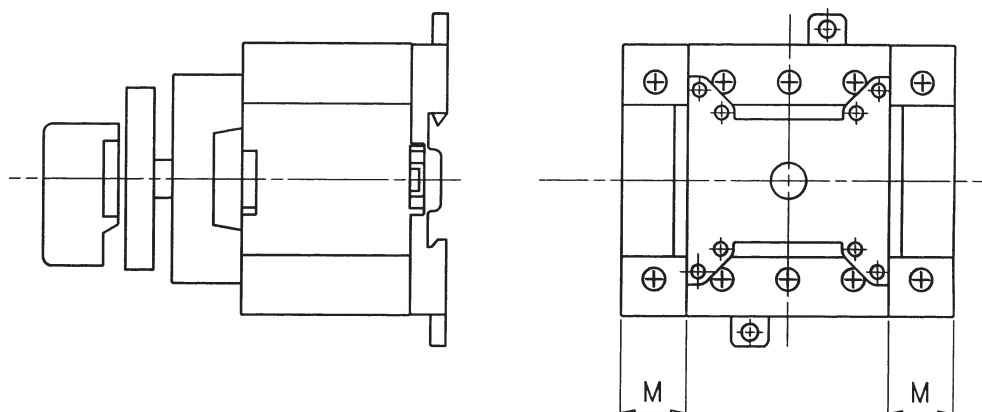
L7 with Auxiliary Contact Blocks

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



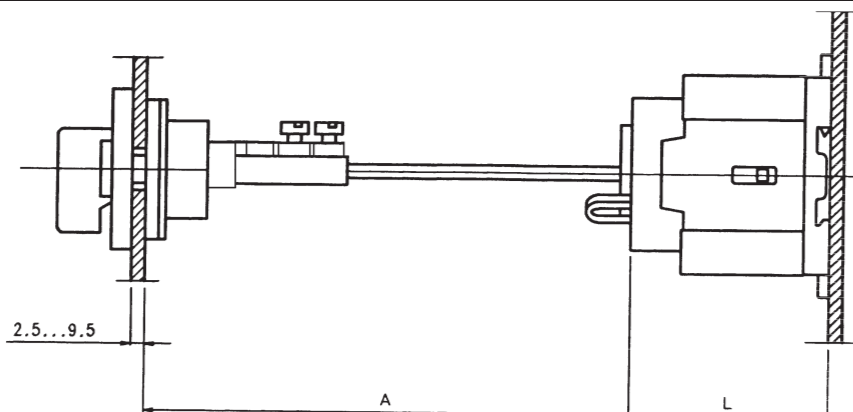
Contacts	M
1 N.O. + 1 N.C.	9
2 N.O. + 2 N.C.	18

L7 with Ground, Neutral and Fourth Pole



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])

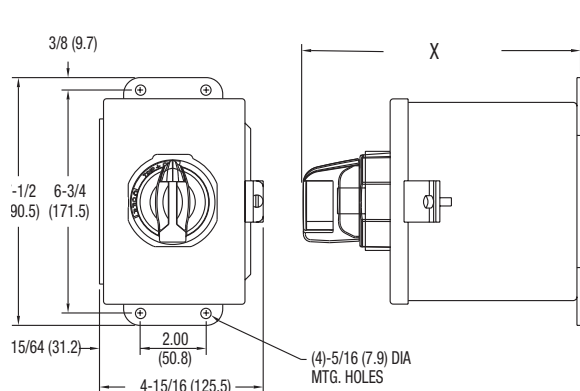


Switch Body	
Type	L
LA7-16	55
LA7-20/32	59
LA7-40/63	73
LA7-80/100	89

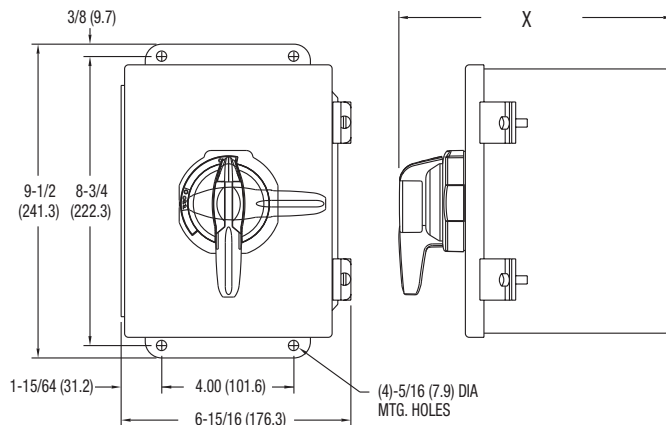
Shaft	
Type	A
LA2-G3393	110...235
LA2-G3394	230...350

L7 Enclosed Motor Disconnect

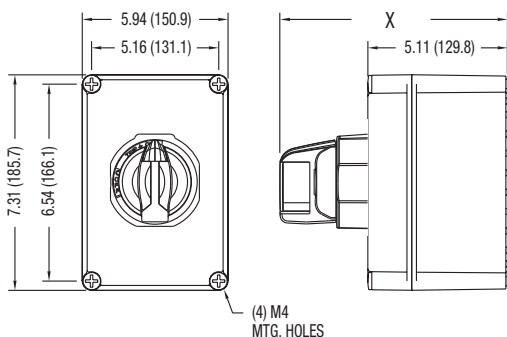
Dimensions are in inches (millimeters). Dimensions not intended for manufacturing purposes.



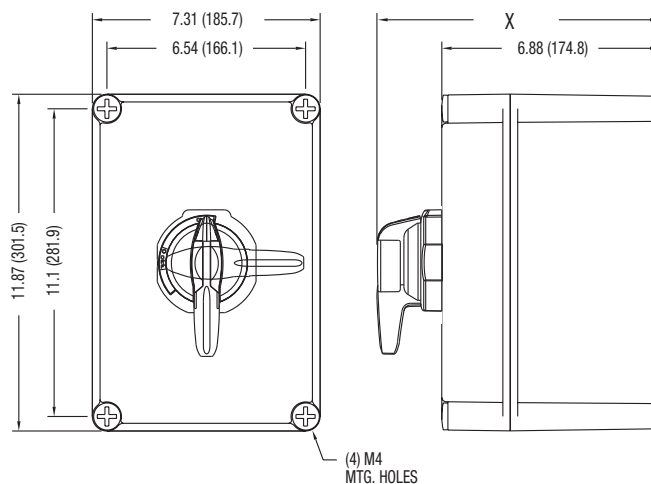
DIMENSION CODE A



DIMENSION CODE B



DIMENSION CODE C



DIMENSION CODE D

Dimension Code	Handle	Dim X	
		inches	mm
A	LA7-SY/SB	6-9/16	166.8
	LFS2-_-6*	6-1/8	155.8
B	L11-PB/PY	7-1/16	180.1
	LFS2-_-6*	6-11/16	169.1
C	LA7-SY/SB	6-1/4	158.7
	LFS2-_-6*	5-13/16	147.7
D	L11-PB/PY	8	203.7
	LFS2-_-6*	7-9/16	192.7

LY7 Enclosed Load Disconnect Switch (and Thermoplastic Enclosures)

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

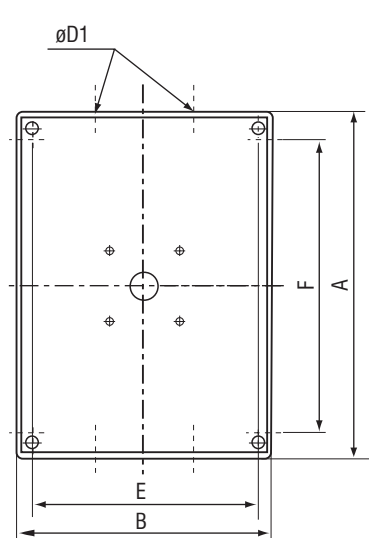


Figure 1

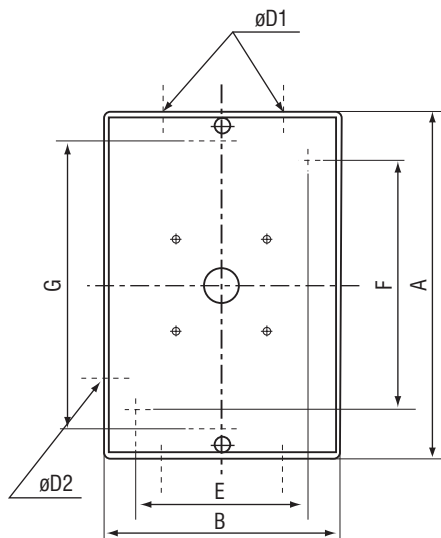
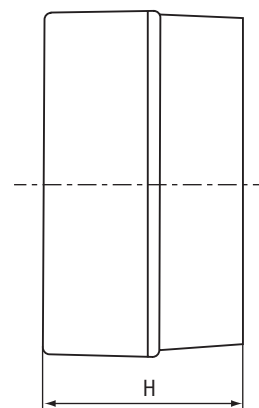


Figure 2



Enclosure Side View

Type	Figure	Poles	Enclosure		Height A	Width B	Knock Outs		Mounting Holes			Depth H
			ABS	Noryl			$\phi D1$ ❷	$\phi D2$	E	F	G	
LY7-16M	2	3	❶	❶	118	70	16/20	~	50	105	~	70
	2	6	L7-G3663	L7-G3664	180	125	25/30	~	~	~	145	105
LY7-25/32	2	3/4	LA2-G3572	LA2-G3576	150	95	22.5/28.5	22.5	60	115	~	86
	2	6	L7-G3663	L7-G3664	180	125	28.5/37.5	~	~	~	145	105
LY7-40/63	2	3/4	L7-G3663	L7-G3664	180	125	28.5/37.5	~	~	~	145	105
	1	6	L7-G3665	L7-G3666	230	175	37.5/47.5	~	155	195	~	120
LY7-80/100	1	3/4	L7-G3665	L7-G3666	230	175	37.5/47.5	~	155	195	~	120

❶ Empty enclosures not available for purchase

❷ LA7-16 units have one knock-out on each end. All others have two knock-outs on each end.