

Series L2 Rotary Cam Switches

Attractive design,
reliable operation
and high quality for
any application up
to 25 Amps



Sprecher + Schuh's comprehensive line of L2 rotary cam switches are available for all control and load applications up to 25 amps. The line is modular and has many convenience and safety features. A well thought out ordering system provides many standard and nonstandard configurations, that are many times available off the shelf.

Any switch configuration...

Two frame sizes provide control and load switching up to 25 amps, with as few as two, and as many as 16 contacts (recommended maximum). Both frame sizes are available in panel mount and base mount for total flexibility. A wide range of switching configurations are offered from stock and in many cases custom switches can be fabricated to order.

...For any application

L2 control and load switches are UL listed, CSA approved and comply with the most important international standards for use as:

- **Control switches** - for process control, making and breaking circuits and as instrument selector switches.
- **Motor switches** - as ON/OFF and reversing switches.
- **Multi-position load switches** - for the step control of loads such as heaters and furnaces.
- **Motor load disconnect switches** - for safely isolating circuits during repair and maintenance.
- **Emergency OFF switches** - for isolating circuits in case of danger or emergency situations. Can be equipped for locking in the OFF position.



Safety and quality

The L2's sturdy design incorporates a positive switching action with a clearly designed switching point. Switch bodies are touch-safe (IP20) and manufactured from self-extinguishing materials corresponding to Class UL 94 V0. All control knobs and shafts are spray proof and dust proof to IP65.

Modular and flexible

The same switch handle assemblies and shaft extension systems are used for both our L2 control switches and L3 disconnect switches. This reduces inventory, simplifies stocking and allows you to put together the ideal switch for your application quickly and easily.

Simple assembly and fast installation

Shaft extensions and door interlocks snap-on quickly without tools, saving time during assembly. Captive terminals are shipped open and are totally accessible regardless of whether the switch is base mounted or panel mounted. Screwdriver guides and clear terminal markings reduce wiring mistakes and speed installation.

In addition, most switch handle assemblies are available with either screw fixing or the new central nut mounting system for total flexibility.

TIP!



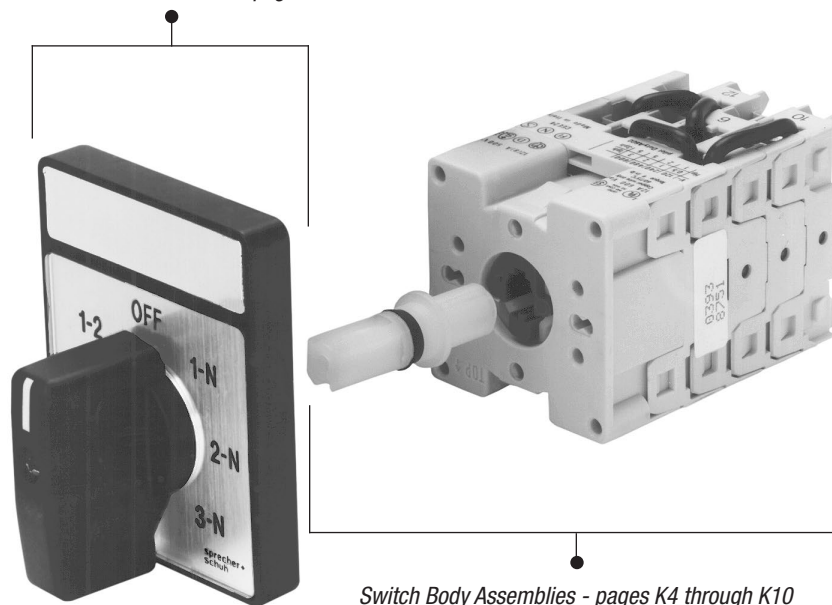
To learn the basic differences between control, load and fusible disconnect switches and how to apply them, ask your Sprecher + Schuh representative for publication no. **Tech-LMSD**.

How to order L2 control and load switches

A complete L2 switch is ordered with just two catalog numbers. The first number specifies the switch body and the second specifies the switch handle assembly. All L2 switch bodies come standard with a shaft and mounting screws for the switch handle assembly. Accessories such as shaft extensions and enclosures are ordered separately.

First determine the switch body you need from pages K4 through K10. Then turn to page K11 to choose a switch handle assembly. If necessary, turn to page K15 and K16 to determine the type and length of shaft extension you require.

Switch Handle Assemblies - page K11



Switch Body Assemblies - pages K4 through K10

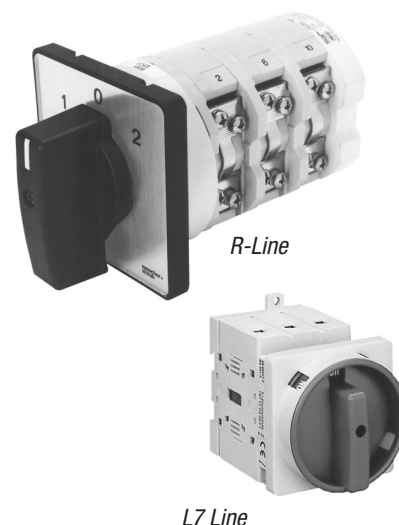
A comprehensive family of switches

The L2 line is part of an entire family of control and load switches available from Sprecher + Schuh.

For specialized switching requirements or large ampere applications up to 40A (@600V), our R-Line Rotary Cam Switches offer a broad selection and rugged quality. See the next chapter in this section entitled “R-Line Rotary Cam Switches” (K34) for ordering information.

Our modular L7 disconnect switches are rated to 100 amps for motor, load and disconnect switching. They share many of the same components with the L2 line. A complete description and ordering information can be found in Section L of this catalog.

Rounding out our selection of “man-machine interfaces,” Sprecher + Schuh also offers a broad selection of 22mm pilot devices. See “Section H” in this catalog for ordering information.


K
L2 Rotary Cam Switches

Switch Body Description			Circuit Diagram Number (▲)	Switch Body Catalog Number & Price								Switch Handle Code
Function	Switch Angle	Poles/ Switch Wafers		Panel Mount				Base Mount				
				12 Amp	16 Amp	20 Amp	25 Amp	12 Amp	16 Amp	20 Amp	25 Amp	
				LE2-12-▲	LE2-16-▲	LE2-20-▲	LE2-25-▲	LA2-12-▲	LA2-16-▲	LA2-20-▲	LA2-25-▲	
ON - OFF												
	60°	1 / 1 2 / 1 3 / 2 4 / 2 5 / 3 6 / 3	1501 1502 1503 1504 1505 1506	28.00 34.00 45.00 51.50 62.00 68.50	33.25 41.00 55.00 62.50 76.50 84.00	47.00 56.50 74.50 84.00 102.00 111.00	56.50 69.00 89.00 100.00 120.00 131.00					150
	90°	1 / 1 2 / 1 3 / 2 4 / 2 5 / 3 6 / 3	1751 1752 1753 1754 1755 1756	28.00 34.00 45.00 51.50 62.00 68.50	31.00 41.00 55.00 62.50 76.50 84.00	47.00 56.50 74.50 84.00 102.00 111.00	56.50 69.00 89.00 100.00 120.00 131.00	34.50 41.00 48.50 58.00 69.00 75.00	39.75 47.50 61.50 69.00 83.00 90.50	54.50 64.00 82.00 92.00 109.00 119.00	65.50 76.50 97.00 107.00 128.00 138.00	175 175I
 1 Early Make Pole	90°	4 / 2	1764	51.50	62.50	84.00	100.00	58.00	69.00	92.00	107.00	175 175I
 3 Early Make Poles	90°	5 / 3	1765	62.00	76.50	102.00	120.00	69.00	83.00	109.00	128.00	175 175I
 3 Early Make Poles	90°	4 / 2	1774	51.50	62.50	84.00	99.00	58.00	69.00	92.00	107.00	175 175I
	90°	1 / 1 2 / 1 3 / 2 4 / 2	1781 1782 1783 1784	28.00 34.00 45.00 51.50	31.00 41.00 55.00 62.50	47.00 56.50 74.50 84.00	56.50 69.00 89.00 100.00	34.50 41.00 51.50 57.00	39.75 47.50 61.50 69.00	54.50 64.00 82.00 92.00	65.50 72.00 97.00 107.00	178 178I

Ordering Instructions

- Specify Switch Body catalog# from top of column.
- Replace (▲) with Circuit Diagram Number (refer to pages K18-K25 for diagrams).
- Select Switch Handle Assembly from pages K11- K14 using Switch Handle Code above (switch handles sold separately).
- Example: **LE2-16-1753** (Switch Body)
LFS2-A-4-175 (Switch Handle Assembly)

Switch Body Description			Circuit Diagram Number (▲)	Switch Body Catalog Number & Price								Switch Handle Code
Function	Switch Angle	Poles/ Switch Wafers		Panel Mount				Base Mount				
				12 Amp	16 Amp	20 Amp	25 Amp	12 Amp	16 Amp	20 Amp	25 Amp	
				LE2-12-▲	LE2-16-▲	LE2-20-▲	LE2-25-▲	LA2-12-▲	LA2-16-▲	LA2-20-▲	LA2-25-▲	
Double Throw												
	45°	1 / 1 2 / 2 3 / 3 4 / 4 5 / 5	2251 2252 2253 2254 2255	34.00 51.50 68.50 86.00 113.00	41.00 62.50 84.00 106.00 22.55	56.50 84.00 111.00 136.00 178.00	69.00 100.00 131.00 162.00 204.00	41.00 58.00	47.50 69.00	64.00 92.00	72.00 107.00	225
	60°	1 / 1 2 / 2 3 / 3 4 / 4 5 / 5	2501 2502 2503 2504 2505	34.00 51.50 68.50 86.00 113.00	41.00 62.50 84.00 106.00 137.00	56.50 84.00 111.00 139.00 178.00	69.00 100.00 131.00 162.00 204.00					250
	45°	1 / 1 2 / 2 3 / 3 4 / 4	3251 3252 3253 3254	34.00 51.00 68.50 86.00	41.00 62.50 84.00 106.00	56.50 84.00 111.00 139.00	69.00 100.00 131.00 162.00	41.00 58.00 75.00 92.00	47.50 69.00 90.50 112.00	64.00 92.00 119.00 147.00		325 325R
	60°	1 / 1 2 / 2 3 / 3 4 / 4	3501 3502 3503 3504	34.00 51.00 68.50 86.00	41.00 62.50 84.00 106.00	56.50 84.00 111.00 139.00	69.00 100.00 131.00 162.00					350
	90°	1 / 1 2 / 2 3 / 3 4 / 4	3751 3752 3753 3754	34.00 51.00 68.50 86.00	41.00 62.50 84.00 106.00	56.50 84.00 111.00 139.00	69.00 100.00 131.00 162.00					375
	30°	1 / 1 2 / 2 3 / 3	3001 3002 3003	34.00 51.00 68.50	41.00 62.50 84.00	56.50 84.00 111.00	69.00 100.00 131.00					300
	45°	1 / 1 2 / 2 3 / 3	3261 3262 3263	34.00 51.00 68.50	41.00 62.50 84.00	56.50 84.00 111.00	69.00 100.00 131.00					325

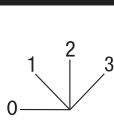
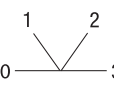
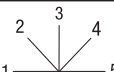
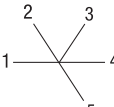
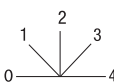
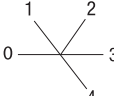
K
L2 Rotary Cam Switches
Ordering Instructions

- Specify Switch Body catalog# from top of column.
- Replace (▲) with Circuit Diagram Number (refer to pages K18-K25 for diagrams).
- Select Switch Handle Assembly from pages K11- K14 using Switch Handle Code above (switch handles sold separately).
- Example: **LE2-16-1753** (Switch Body)
LFS2-A-4-175 (Switch Handle Assembly)

Switch Body Description			Circuit Diagram Number (▲)	Switch Body Catalog Number & Price								Switch Handle Code
Function	Switch Angle	Poles/ Switch Wafers		Panel Mount				Base Mount				
				12 Amp	16 Amp	20 Amp	25 Amp	12 Amp	16 Amp	20 Amp	25 Amp	
				LE2-12-▲	LE2-16-▲	LE2-20-▲	LE2-25-▲	LA2-12-▲	LA2-16-▲	LA2-20-▲	LA2-25-▲	
3 Position												
	45°	1 / 2 2 / 3 3 / 5	4251 4252 4253	45.00 68.50 106.00	55.00 84.00 129.00	74.50 111.00 168.00	89.00 131.00 193.00	51.50	61.50	82.00	97.00	425
	45°	1 / 2	4291	45.00	55.00	74.50	89.00					429
	60°	1 / 2 2 / 3 3 / 5	4501 4502 4503	45.00 68.50 106.00	55.00 84.00 129.00	74.50 111.00 168.00	89.00 131.00 193.00					450
3 Position (with OFF)												
	45°	1 / 1 2 / 2 3 / 3	5251 5252 5253	34.00 51.00 68.50	41.00 62.50 84.00	56.50 84.00 111.00	69.00 100.00 131.00					525
	60°	1 / 1 2 / 1 3 / 2	5501 5502 5503	34.00 51.00 68.50	41.00 62.50 84.00	56.50 84.00 111.00	69.00 100.00 131.00					550
4 Position												
	45°	1 / 2 2 / 4 3 / 6	4261 4262 4263	51.00 86.00 130.00	61.50 106.00 159.00	84.00 139.00 205.00	100.00 162.00 235.00	58.00	69.00	92.00	107.00	426
	45°	1 / 2 2 / 4 3 / 6	4301 4302 4303	51.00 86.00 130.00	61.50 106.00 159.00	84.00 139.00 205.00	100.00 162.00 235.00					430
	60°	1 / 2 2 / 4 3 / 6	4511 4512 4513	51.00 86.00 130.00	61.50 106.00 159.00	84.00 139.00 205.00	100.00 162.00 235.00					451

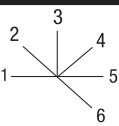
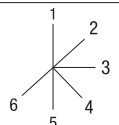
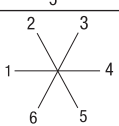
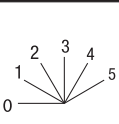
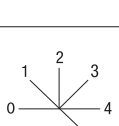
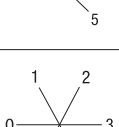
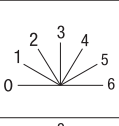
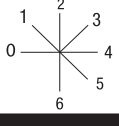
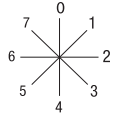
Ordering Instructions

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- Select Switch Handle Assembly from pages K11- K14 using Switch Handle Code above (switch handles sold separately).
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LFS2-A-4-175 (Switch Handle Assembly)

Switch Body Description			Circuit Diagram Number (▲)	Switch Body Catalog Number & Price								Switch Handle Code
Function	Switch Angle	Poles/ Switch Wafers		Panel Mount				Base Mount				
				12 Amp	16 Amp	20 Amp	25 Amp	12 Amp	16 Amp	20 Amp	25 Amp	
				LE2-12-▲	LE2-16-▲	LE2-20-▲	LE2-25-▲	LA2-12-▲	LA2-16-▲	LA2-20-▲	LA2-25-▲	
4 Position (with OFF)												
	45°	1 / 2 2 / 3 3 / 5	5261 5262 5263	45.00 68.50 106.00	55.00 84.00 129.00	74.50 111.00 168.00	89.00 131.00 193.00	52.00	61.50	82.00	97.00	526
	60°	1 / 2 2 / 3 3 / 5	5511 5512 5513	45.00 68.50 106.00	55.00 84.00 129.00	74.50 111.00 168.00	89.00 131.00 193.00					551
5 Position												
	45°	1 / 3	4271	62.00	76.50	102.00	120.00	69.00	83.00	109.00	128.00	427
	60°	1 / 3	4521	62.00	76.50	102.00	120.00					452
5 Position (with OFF)												
	30°	1 / 2 2 / 4 3 / 6	5001 5002 5003	51.00 86.00 130.00	62.50 106.00 159.00	84.00 139.00 205.00	100.00 162.00 235.00					500
	45°	1 / 2 2 / 4 3 / 6	5271 5272 5273	51.00 86.00 130.00	62.50 106.00 159.00	84.00 139.00 205.00	100.00 162.00 235.00	58.00	69.00	92.00	107.00	527
	60°	1 / 2 2 / 4 3 / 6	5521 5522 5523	51.00 86.00 130.00	62.50 106.00 159.00	84.00 139.00 205.00	100.00 162.00 235.00					552

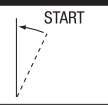
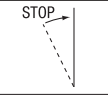
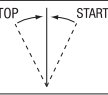
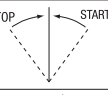
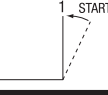
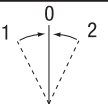
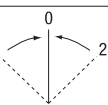
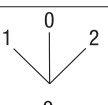
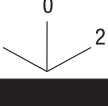
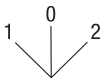
Ordering Instructions

- Specify Switch Body catalog# from top of column.
- Replace (▲) with Circuit Diagram Number (refer to pages K18-K25 for diagrams).
- Select Switch Handle Assembly from pages K11- K14 using Switch Handle Code above (switch handles sold separately).
- Example: **LE2-16-1753** (Switch Body)
LFS2-A-4-175 (Switch Handle Assembly)

Switch Body Description			Circuit Diagram Number (▲)	Switch Body Catalog Number & Price								Switch Handle Code
Function	Switch Angle	Poles/ Switch Wafers		Panel Mount				Base Mount				
				12 Amp	16 Amp	20 Amp	25 Amp	12 Amp	16 Amp	20 Amp	25 Amp	
				LE2-12-▲	LE2-16-▲	LE2-20-▲	LE2-25-▲	LA2-12-▲	LA2-16-▲	LA2-20-▲	LA2-25-▲	
6 Position												
	45°	1 / 3	4281	68.50	84.00	111.00	131.00	75.00	90.50	119.00	138.00	428
	45°	1 / 3	4311	68.50	84.00	111.00	131.00					431
	60°	1 / 3	4531	68.50	84.00	111.00	131.00					453
6 Position (with OFF)												
	30°	1 / 3 2 / 5 3 / 8	5011 5012 5013	62.00 113.00 158.00	76.50 137.00 194.00	102.00 178.00 251.00	120.00 204.00 286.00					501
	45°	1 / 3 2 / 5 3 / 8	5281 5282 5283	62.00 113.00 158.00	76.50 137.00 194.00	102.00 178.00 251.00	120.00 204.00 286.00	69.00	83.00	109.00	128.00	528
	60°	1 / 3 2 / 5 3 / 8	5531 5532 5533	62.00 113.00 158.00	76.50 137.00 194.00	102.00 178.00 251.00	120.00 204.00 286.00					553
7 Position (with OFF)												
	30°	1 / 3 2 / 6	5021 5022	68.50 130.00	84.00 159.00	111.00 205.00	131.00 235.00					502
	45°	1 / 3 2 / 6	5291 5292	68.50 130.00	84.00 159.00	111.00 205.00	131.00 235.00	75.00	90.50	119.00	138.00	529
8 Position (with Off)												
	45°	1 / 4	5341	79.00	98.00	129.00	151.00					534

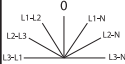
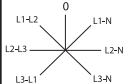
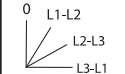
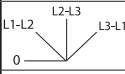
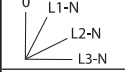
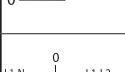
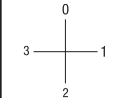
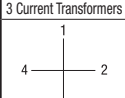
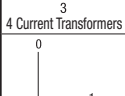
Ordering Instructions

- Specify Switch Body catalog# from top of column.
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LFS2-A-4-175 (Switch Handle Assembly)

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Function	Switch Angle	Poles/ Switch Wafers		Panel Mount				Base Mount				
				12 Amp	16 Amp	20 Amp	25 Amp	12 Amp	16 Amp	20 Amp	25 Amp	
				LE2-12-▲	LE2-16-▲	LE2-20-▲	LE2-25-▲	LA2-12-▲	LA2-16-▲	LA2-20-▲	LA2-25-▲	
				START - STOP								
	30°	1 / 1	9001	28.00	33.25	47.00	58.00	34.50	39.75	54.50	65.50	900
	30°	1 / 1	9011	28.00	33.25	47.00	58.00	34.50	39.75	54.50	65.50	901
	30°	1 / 1	9021	34.00	41.00	56.50	69.00	41.00	47.50	64.00	76.50	902
	45°	1 / 1	9251	34.00	41.00	56.50	69.00	41.00	47.50	64.00	76.50	925
	90°/ 30°	1 / 1	9751	34.00	41.00	56.50	69.00	41.00	47.50	64.00	76.50	975
REVERSING												
	30°	3 / 3	7003	62.00	76.50	102.00	120.00					300
	45	3 / 3	7313	62.00	76.50	102.00	120.00	69.00	83.00	109.00	128.00	325
	45 °	3 / 3	7303	62.00	76.50	102.00	120.00	69.00	83.00	109.00	128.00	325
	60°	3 / 3	7543	62.00	76.50	102.00	120.00					350
Two Speed Single Winding (Dahlander)												
	45°	3 / 4	7293	86.00	106.00	139.00	162.00					325

Ordering Instructions

- Specify Switch Body catalog# from top of column.
- Replace (▲) with Circuit Diagram Number (refer to pages K18-K25 for diagrams).
- Select Switch Handle Assembly from pages K11- K14 using Switch Handle Code above (switch handles sold separately).
- Example: **LE2-16-1753** (Switch Body)
LFS2-A-4-175 (Switch Handle Assembly)

Switch Body Description			Circuit Diagram Number (▲)	Switch Body Catalog Number & Price								Switch Handle Code
Function	Switch Angle	Poles/ Switch Wafers		Panel Mount				Base Mount				
				12 Amp	16 Amp	20 Amp	25 Amp	12 Amp	16 Amp	20 Amp	25 Amp	
				LE2-12-▲	LE2-16-▲	LE2-20-▲	LE2-25-▲	LA2-12-▲	LA2-16-▲	LA2-20-▲	LA2-25-▲	
Voltmeter												
	30°	NA / 3	8001	68.50	84.00	111.00	131.00					800 800A
	45	NA / 3	8251	68.50	84.00	111.00	131.00	75.00	90.50	119.00	138.00	825 825A
	30°	NA / 2	8021	51.00	62.50	84.00	100.00	58.00	69.00			802 802A
	45°	NA / 2	8271	51.00	62.50	84.00	100.00	58.00				827 827A
	30°	NA / 2	8031	51.00	62.50	84.00	100.00	58.00	69.00			803
	45°	NA / 2	8291	51.00				58.00				829 829A
	45°	NA / 3	8332	62.00	76.50	102.00						833 833A
Ammeter												
 3 Current Transformers	90°	1 / 3 2 / 5	8751 8752	68.50 106.00	84.00 129.00	111.00 130.00	131.00 193.00	75.00	90.50	119.00	138.00	875
 4 Current Transformers	90°	1 / 4	8761	86.00	106.00	139.00	162.00	92.00	112.00	147.00	170.00	876
 1 Current Transformer	90°	1 / 1	8771	34.00	41.00	56.50	69.00	41.00	47.50	64.00	76.50	178

Ordering Instructions

- Specify Switch Body catalog# from top of column.
- Replace (▲) with Circuit Diagram Number (refer to pages K18-K25 for diagrams).
- Select Switch Handle Assembly from pages K11- K14 using Switch Handle Code above (switch handles sold separately).
- Example: **LE2-16-1753** (Switch Body)
LFS2-A-4-175 (Switch Handle Assembly)

Switch Handle Assemblies

Switch Handle Assembly	Mounting Method	Frame Size	Catalog Number	Price	Switch Handle Assembly	Mounting Method	Frame Size	Catalog Number	Price
 Type A - (IP66) Silver Legend Plate - Black Knob	Screw 1 3	48 x 48	LFS2-A-4-*	8.50	 Type G - (IP66) Grey Frame - Black Handle	Screw 1	67 x 67	LFS2-G-6-175	21
		64 x 64	LFS2-A-6-*	10.75		Central Nut 2	67 x 67	LFC2-G-6-175	32
	Central Nut 2 3	48 x 48	LFC2-A-4-*	11.75					
 Type E - (IP66) Silver Legend Plate - Black Knob	Screw 1 3	48 x 48	LFS2-E-4-*	12.50	 Type N - (IP66) Yellow Frame - Red Handle	Screw 1	67 x 67	LFS2-N-6-175	21
		64 x 64	LFS2-E-6-*	15.00		Central Nut 2	67 x 67	LFC2-N-6-175	32
	Central Nut 2 3	48 x 48	LFC2-E-4-*	18.00					
 Type I - (IP66) Yellow Legend Plate - Red Knob	Screw 1 3	48 x 48	LFS2-I-4-*	8.50	 Type B - (IP66) Grey Ring - Black Knob	Central Nut 2	NA	LFC2-B-001	8.50
		64 x 64	LFS2-I-6-*	10.75					
	Central Nut 2 3	48 x 48	LFC2-I-4-*	11.75					
 Type L - (IP66) Yellow Legend Plate - Red Knob	Screw 1 3	48 x 48	LFS2-L-4-*	12.50	 Type C - (IP66) Silver Legend Plate	Central Nut 2	48x48	LFC2-C-4-*	55
		64 x 64	LFS2-L-6-*	15.00					
	Central Nut 2 3	48 x 48	LFC2-L-4-*	18.00					
 Type S - (IP66) Silver Legend Plate - Black Knob	Screw 1 3	48 x 62	LFS2-S-4-*	11.50	 Type D - (IP66) Grey Ring	Central Nut 2	NA	LFC2-D-4-001	49
		64 x 78	LFS2-S-6-*	14.00					

Ordering Instructions

- Specify Switch Body catalog# from top of column.
- Replace (*) with Switch Handle Code Number (refer to pages K12-K14) for Legend Plate desired.
- Where applicable replace (◆) with Key Withdraw Code.
- Example: LFC2-C-◆-4-* = LFC2-CK-4-529

C =  D =  G =  H =  K = 

- ① Mounting screws included with Switch Body Assy.
- ② Central Nut mounting method cannot be used on LA style Switch Body Assemblies.
- ③ To order Switch Handle Assembly without legend plate, replace (*) with "001" and deduct \$2.70.
- ④ LFS(C)2-G(N)-6-175 handles are marked "I-ON" and "O-OFF".

Switch Handle Codes

Switch Handle Code	Standard Legend Markings ❶	Frame Size ❷	Switch Handle Assembly Type													
			Screw Mount							Central Nut						
			A	E	I	L	S	G	N	A	E	I	L	C	G	N
000		Standard	•	•	•	•	•			•	•	•	•	•		
		Larger	•	•	•	•	•						•			
150		Standard	•				•			•				•		
		Larger	•				•									
175		Standard	•	•	•	•	•	•	•	•	•	•	•	•	•	•
		Larger	•	•	•	•	•						•			
175I		Standard	•	•	•	•	•	•	•	•	•	•	•	•	•	•
		Larger	•	•	•	•	•						•			
178		Standard	•	•	•	•	•			•	•	•	•	•		
		Larger	•	•	•	•	•						•			
178I		Standard	•	•	•	•	•			•	•	•	•	•	•	•
		Larger	•	•	•	•	•						•			
225		Standard	•				•			•				•		
		Larger	•				•									
250		Standard	•				•			•				•		
		Larger	•				•									
300		Standard	•				•			•				•		
		Larger	•				•									
325		Standard	•				•			•				•		
		Larger	•				•									
325R		Standard	•				•			•				•		
		Larger	•				•									

Switch Handle Code	Standard Legend Markings ❶	Frame Size ❷	Switch Handle Assembly Type													
			Screw Mount							Central Nut						
			A	E	I	L	S	G	N	A	E	I	L	C	G	N
350 ❸		Standard	•				•			•				•		
		Larger	•				•									
375		Standard	•				•			•				•		
		Larger	•				•									
425		Standard	•				•			•				•		
		Larger	•				•									
426		Standard	•				•			•				•		
		Larger	•				•									
427		Standard	•				•			•				•		
		Larger	•				•									
428		Standard	•				•			•				•		
		Larger	•				•									
429		Standard	•				•			•				•		
		Larger	•				•									
430		Standard	•				•			•				•		
		Larger	•				•									
431		Standard	•				•			•				•		
		Larger	•				•									
450		Standard	•				•			•				•		
		Larger	•				•									
451		Standard	•				•			•				•		
		Larger	•				•									

❶ For custom legend markings not included here, add the following to the Switch Handle Assembly list prices noted on page K11:

Quantity: 1-4 5-19 20-99 100-199 200-499 500+
 Price Adder: \$21.50 \$11.90 \$7.80 \$3.80 \$2.50 \$0.00

NOTE: Types "N" and "G" are not available with custom markings.

❷ Frame Size descriptions:

Type: A,E,I & L C S N & G
 Standard: 48x48 48x48 48X62 67X67
 Larger: 64x64 64X78

❸ Available with "MAN-O-AUTO" or "HAND-O-AUTO" legend marking.

❹ LFS(C)2-G(N)-6-175 handles are marked "I-ON" and "O-OFF".

Switch Handle Codes

Switch Handle Code	Standard Legend Markings ❶	Frame Size ❷	Switch Handle Assembly Type													
			Screw Mount							Central Nut						
			A	E	I	L	S	G	N	A	E	I	L	C	G	N
452		Standard	•				•		•				•			
		Larger	•				•									
453		Standard	•				•		•				•			
		Larger	•				•									
500		Standard	•				•		•				•			
		Larger	•				•									
501		Standard	•				•		•				•			
		Larger	•				•									
502		Standard	•				•		•				•			
		Larger	•				•									
525		Standard	•				•		•				•			
		Larger	•				•									
526		Standard	•				•		•				•			
		Larger	•				•									
527		Standard	•				•		•				•			
		Larger	•				•									
528		Standard	•				•		•				•			
		Larger	•				•									
529		Standard	•				•		•				•			
		Larger	•				•									
534		Standard	•				•		•				•			
		Larger	•				•									

Switch Handle Code	Standard Legend Markings ❶	Frame Size ❷	Switch Handle Assembly Type													
			Screw Mount							Central Nut						
			A	E	I	L	S	G	N	A	E	I	L	C	G	N
550		Standard	•				•		•				•			
		Larger	•				•									
551		Standard	•				•		•				•			
		Larger	•				•									
552		Standard	•				•		•				•			
		Larger	•				•									
553		Standard	•				•		•				•			
		Larger	•				•									
800		Standard	•				•		•				•			
		Larger	•				•									
800A		Standard	•				•		•				•			
		Larger	•				•									
802		Standard	•				•		•				•			
		Larger	•				•									
802A		Standard	•				•		•				•			
		Larger	•				•									
803		Standard	•				•		•				•			
		Larger	•				•									
803A		Standard	•				•		•				•			
		Larger	•				•									
825		Standard	•				•		•				•			
		Larger	•				•									

❶ For custom legend markings not included here, add the following to the Switch Handle Assembly list prices noted on page K11:

Quantity:	1-4	5-19	20-99	100-199	200-499	500+
Price Adder:	\$21.50	\$11.90	\$7.80	\$3.80	\$2.50	\$0.00

NOTE: Types "N" and "G" are not available with custom markings.

❷ Frame Size descriptions:

Type:	A, E, I & L	C	S	N & G
Standard:	48x48	48x48	48X62	67X67
Larger:	64x64		64X78	

Switch Handle Codes

Switch Handle Code	Standard Legend Markings ❶	Frame Size ❷	Switch Handle Assembly Type													
			Screw Mount							Central Nut						
			A	E	I	L	S	G	N	A	E	I	L	C	G	N
825A		Standard	•				•		•							
		Larger	•				•									
827		Standard	•				•		•							
		Larger	•				•									
827A		Standard	•				•		•							
		Larger	•				•									
829		Standard	•				•		•							
		Larger	•				•									
829A		Standard	•				•		•							
		Larger	•				•									
833		Standard	•				•		•							
		Larger	•				•									
833A		Standard	•				•		•							
		Larger	•				•									
875		Standard	•				•		•	•						
		Larger	•				•									
876		Standard	•				•		•	•						
		Larger	•				•									
900		Standard	•				•		•							
		Larger	•				•									
901		Standard	•				•		•							
		Larger	•				•									

Switch Handle Code	Standard Legend Markings ❶	Frame Size ❷	Switch Handle Assembly Type													
			Screw Mount							Central Nut						
			A	E	I	L	S	G	N	A	E	I	L	C	G	N
902		Standard	•				•		•							
		Larger	•				•									
925		Standard	•				•		•							
		Larger	•				•									
975		Standard	•	•			•		•	•			•			
		Larger	•	•			•									

❶ For custom legend markings not included here, add the following to the Switch Handle Assembly list prices noted on page K11:

Quantity: 1-4 5-19 20-99 100-199 200-499 500+
 Price Adder: \$21.50 \$11.90 \$7.80 \$3.80 \$2.50 \$0.00

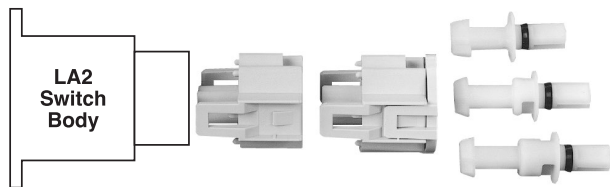
NOTE: Types "N" and "G" are not available with custom markings.

❷ Frame Size descriptions:

Type:	A, E, I & L	C	S	N & G
Standard:	48x48	48x48	48X62	67X67
Larger:	64x64		64X78	

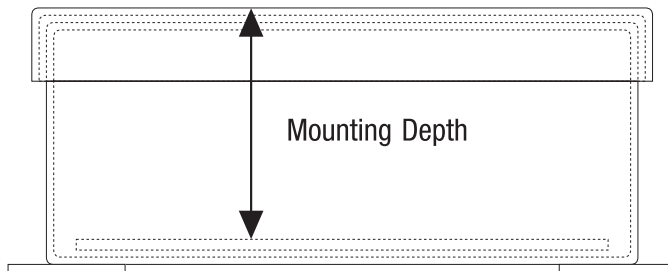
Modular shaft extension system

Shaft Extension Modules are ideal for lengthening the shaft of an LA2 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 LA2 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.



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 ❶.



- If necessary convert Mounting Depth inches to millimeters (inches x 25.4 = millimeters).
- In the Modular Shaft Extension Table to the right, find the Mounting Depth in the column under the appropriate LA2 Switch Body.

NOTE: Table is based on an LA2 switch body with two wafers (3 or 4 pole). For a switch body with more or less wafers, add or subtract the following from overall Mounting Depth before referring to table:

LA2-12/16 Switch Body- ±10mm per wafer
LA2-20/25 Switch Body- ±12.5mm per wafer

- Order the End Shaft and number of Extension Modules required for that Mounting Depth.

Modular Shaft Extension Components (LA2 Base Mount)

Component	Catalog Number	Price
44mm End Shaft (supplied with LA2 Switch Body Assembly)	LA2-G2830	3.25
		
52mm End Shaft		
	LA2-G3194	4.00
57mm End Shaft	LA2-G3195	4.00
		
Extension Module (two per pkg - priced per pkg)		
	LA2-G2853	9.00

Modular Shaft Extension Table

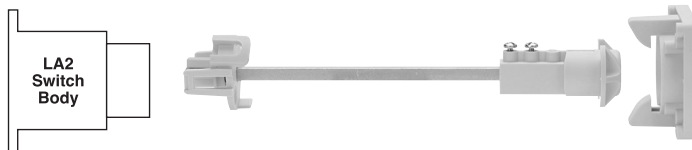
Number of Extension Modules	Required End Shaft	Mounting Depth (mm) ❶	
		Switch body LA2-12/16	Switch Body LA2-20/25
0	44mm ❷	71.5 - 77.5	75 - 80.5
0	52mm	77 - 87	80 - 90
0	57mm	82 - 92	85 - 95
1	44mm ❷	99.5 - 101.5	99 - 105
1	52mm	97.5 - 111	101 - 114.5
1	57mm	102.5 - 116	106 - 119.5
2	44mm ❷	119.5 - 125.5	123 - 129
2	52mm	121.5 - 135	125 - 138.5
2	57mm	126.5 - 140	130 - 143.5
3	44mm ❷	143.5 - 149.5	147 - 153
3	52mm	145.5 - 159	149 - 162.5
3	57mm	150.5 - 164	154 - 167.5
4	44mm ❷	167.5 - 173.5	171 - 177
4	52mm	169.5 - 183	173 - 186.5
4	57mm	169.5 - 183	178 - 191.5
5	44mm ❷	191.5 - 197.5	195 - 201
5	52mm	193.5 - 207	197 - 210.5
5	57mm	198.5 - 212	202 - 215.5
6	44mm ❷	215.5 - 221.5	219 - 225
6	52mm	217.5 - 231	221 - 234.5
6	57mm	222.5 - 236	226 - 239.5

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 One 44mm End Shaft is supplied with all Switch Body Assemblies.

Metal shaft extension system

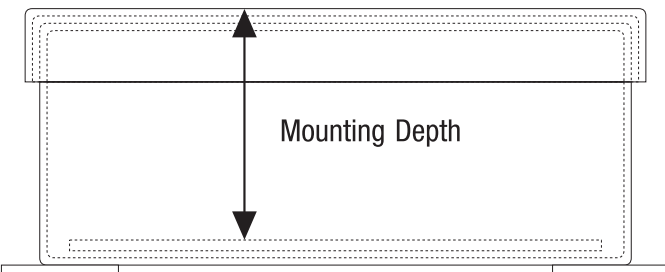
Adjustable metal shaft extensions snap on securely to LA2 switches via the same quick-connect design as shaft extension modules. Metal shafts are equipped with a door interlock and a padlock hasp for locking out the switch after the enclosure is opened (for outside lockout, select a Switch Handle Assembly 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. 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).
- In the Metal Shaft Extension Table to the right, find the Mounting Depth in the column under the appropriate LA2 Switch Body.

NOTE: Table is based on an LA2 switch body with two wafers (3 or 4 pole). For a switch body with more or less wafers, add or subtract the following from overall Mounting Depth before referring to table:

LA2-12/16 Switch Body- ±10mm per wafer
LA2-20/25 Switch Body- ±12.5mm per wafer

- Order the Metal Shaft Extension required for that Mounting Depth.

Metal Shaft Extension Components (LA2 Base Mount)

Component	Catalog Number	Price
Short Metal Shaft  Length: 10 ... 235mm (4-21/64...9-1/4 in.)	LA2-G3393	37
Long Metal Shaft  Length: 230 ... 350mm (9-3/64...13-51/64 in.)	LA2-G3394	47
 Insert - For modifying metal shaft to switch position	LA2-G3398	4
 Insert - For modifying metal shaft to switch any position (not lockable)	LA2-G3399	4

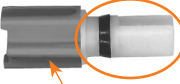
Metal Shaft Extension Table

Metal Shaft Extension	Mounting Depth (mm) ❶	
	Switch body LA2-12/16	Switch Body LA2-20/25
LA2-G3393	178 ❷ - 309	181.5 ❷ - 312.5
LA2-G3394	298 - 424	301.5 - 427.5

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 by another 55mm by cutting the plastic sleeve and further cutting the metal shaft.

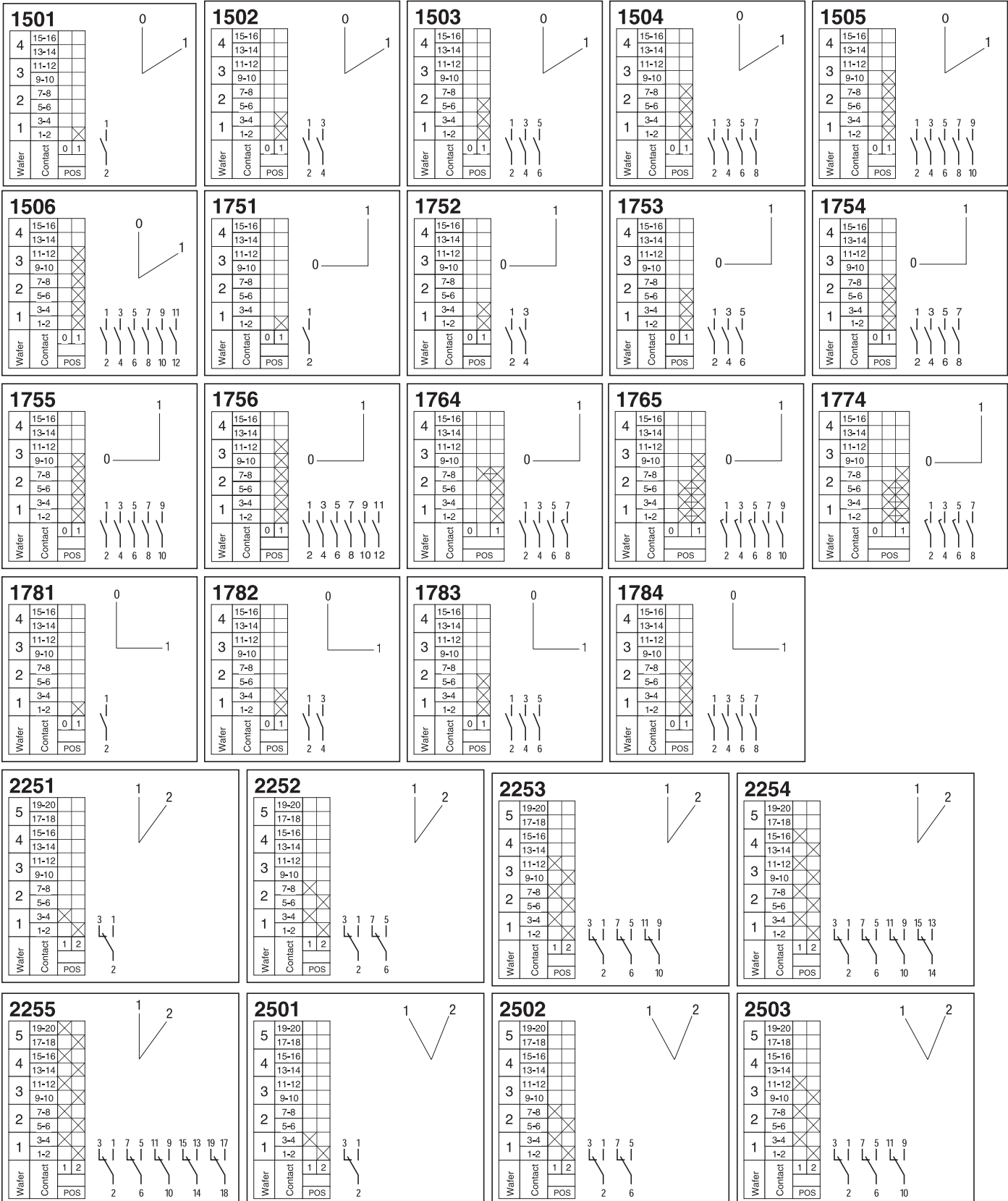
L2 Switch Accessories

Accessory	Description	Catalog No.	Price
 (Reducer not included)	Shaft for LE switch (One supplied with each LE switch)	L2-G3380	5.00
	Terminal cover 3 or 4 pole LE2-12/16 LE2-20/25 LA2-12/16 LA2-20/25	LE2-12-C4 LE2-20-C4 LA2-12-C4 LA2-20-C4	6.00 6.00 6.00 7.00
	Standard knob Black 37.5mm Black 48mm Red 37.5mm Red 48mm	L2-G3154N L2-G3155N L2-G3154R L2-G3155R	3.50 3.50 3.50 3.50
	Padlockable knob Black Red	L2-G2864N L2-G2864R	7.15 7.15
	Type "P" knob Black Red	L2-G2888N L2-G2888R	5.00 5.00
	Self contained knob - allows mounting LE2 switches without Switch Handle Assembly IP40 protection IP65 protection	L2-G2851N L2-G2854N	6.50 9.00
	Legend Plate - Blank for engraving Silver For 48 x 48 (or 62) For 64 x 64 (or 78) Yellow For 48 x 48 (or 62) For 64 x 64 (or 78)	LL2-A-4-000 LL2-A-6-000 LL2-I-4-000 LL2-I-6-000	2.55 2.95 2.55 2.95

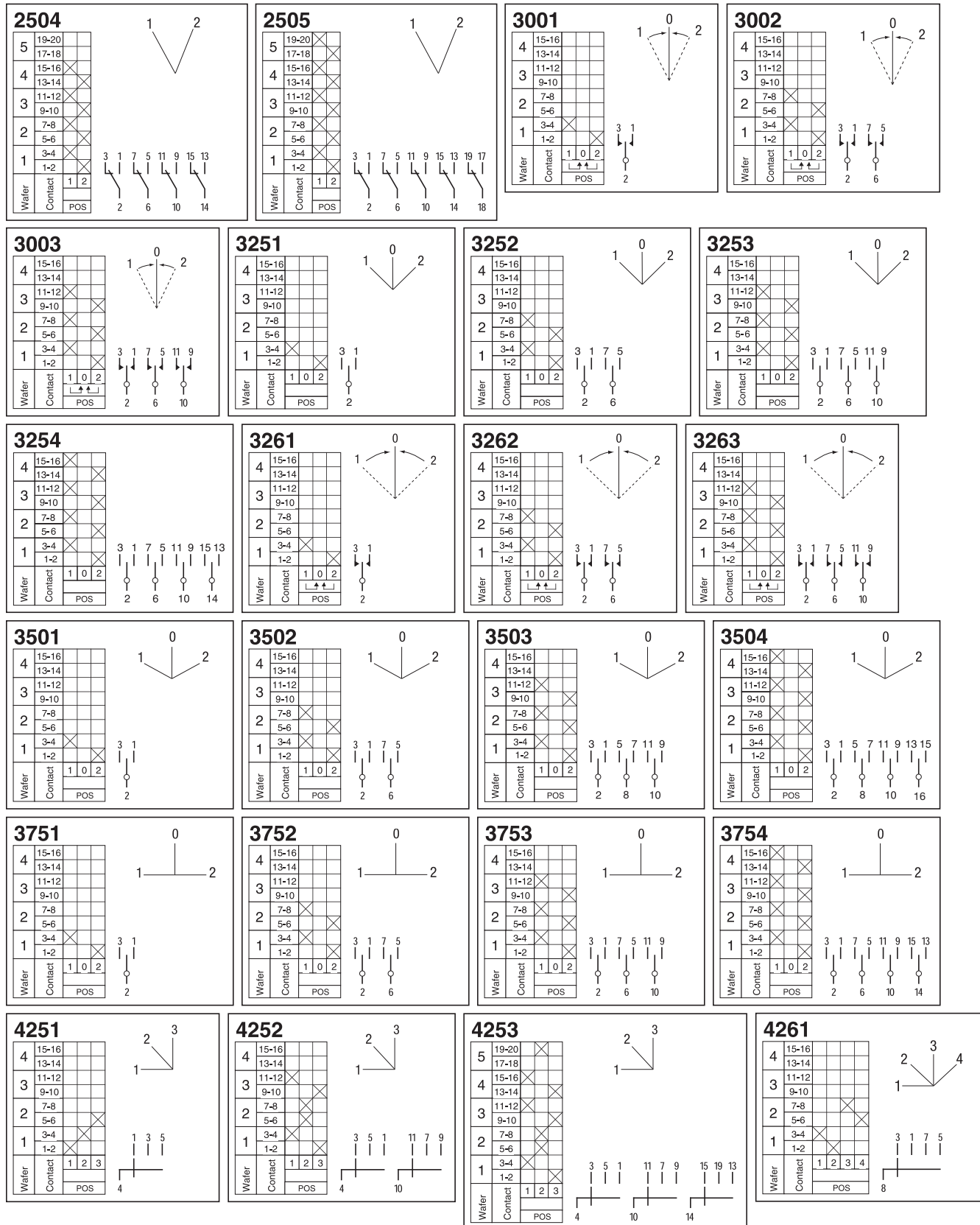
Accessory	Description	Catalog No.	Price
	Switch handle assembly for 45mm standard cutout 0-I OFF-ON Blank	LFS2-P-4-175 LFS2-P-4-175I LFS2-P-4-000	11.50 11.50 11.50
	ABS Enclosure – For High Impact Applications (IP66, UL 94 Flame Resistance - HB) With pre-drilled holes for 64 x 64 operator or larger 95x150x86mm 95x150x111mm Without holes 95x150x86mm 95x150x111mm	LA2-G3572 LA2-G3573 LA2-G3574 LA2-G3575	50.50 50.50 44.00 48.50
	Noryl Enclosure – For Corrosion Prone Applications (IP66, UL 94 Flame Resistance - V0) With pre-drilled holes for 64 x 64 operator or larger 95x150x86mm 95x150x111mm Without holes 95x150x86mm 95x150x111mm	LA2-G3576 LA2-G3577 LA2-G3578 LA2-G3579	69.00 83.00 67.75 76.25
Enclosure Selection Guide			
<i>Determine switch & number of poles; order enclosure and shaft required</i>			
Base Mount Switch	Poles	Use Enclosure...	Shaft Required ❶
LA2-12 & 16	1	LA2-G357(2,4,6,8)	LA2-G3195 Standard
	2		LA2-G3194 Standard
LA2-20 & 25	1	LA2-G357(3,5,7,9)	LA2-G3195 Standard
	2		LA2-G3194 Standard
LA2-12 & 16	3	LA2-G357(3,5,7,9)	LA2-G3195 Standard
	4		LA2-G3194 Standard
LA2-20 & 25	3	LA2-G357(3,5,7,9)	LA2-G3195 Standard
	4		LA2-G3194 Standard

❶ Order shafts from page K16.

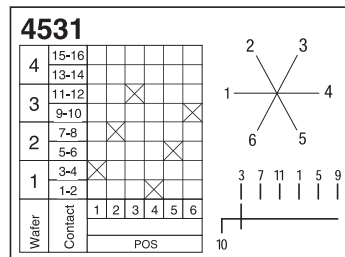
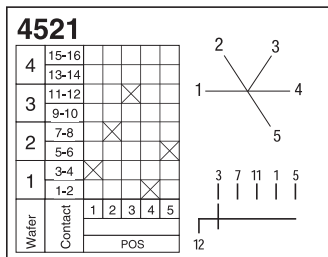
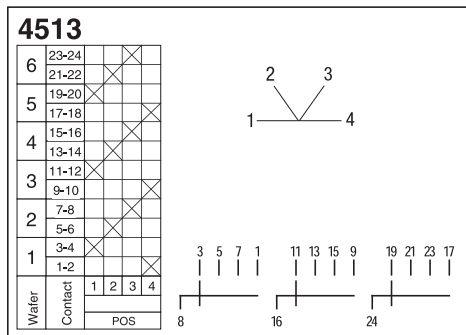
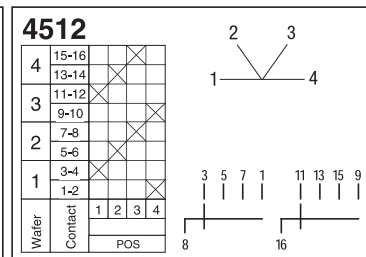
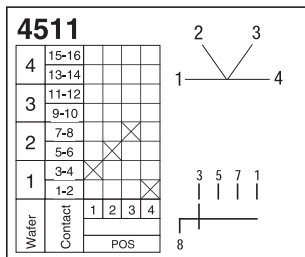
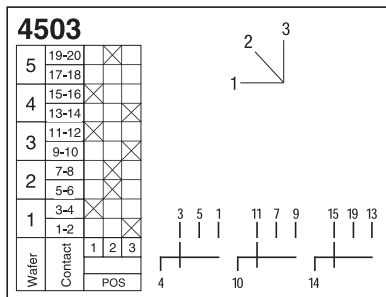
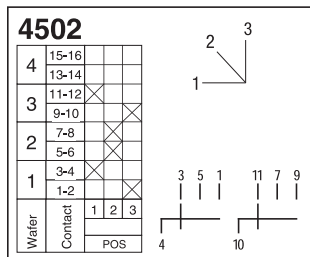
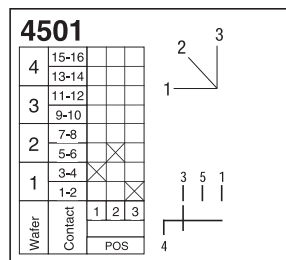
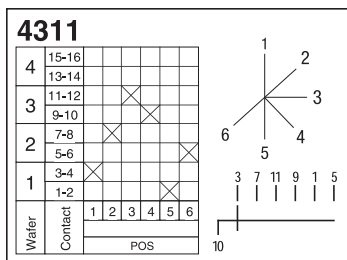
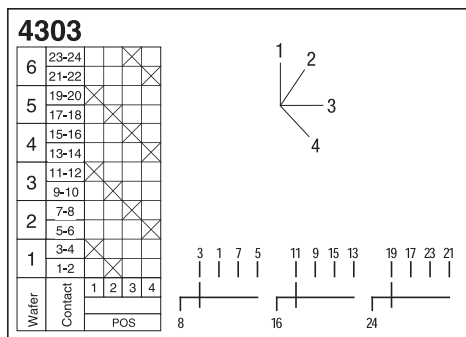
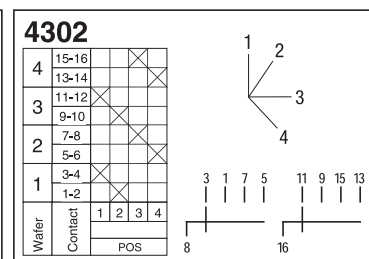
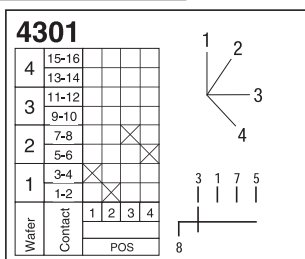
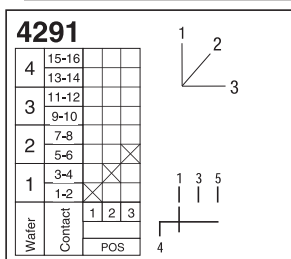
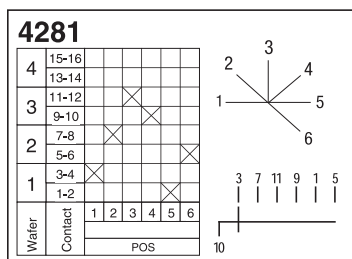
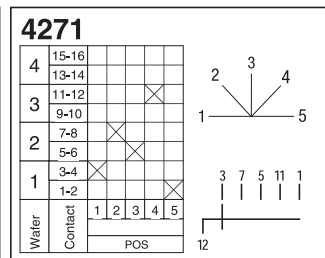
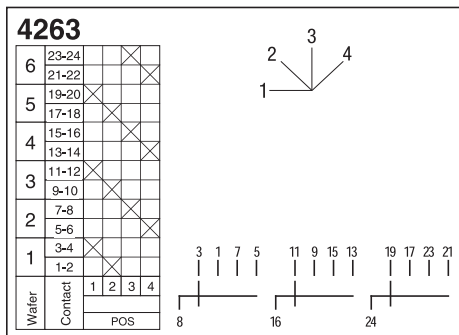
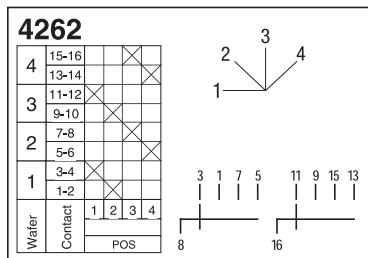
Circuit Diagrams



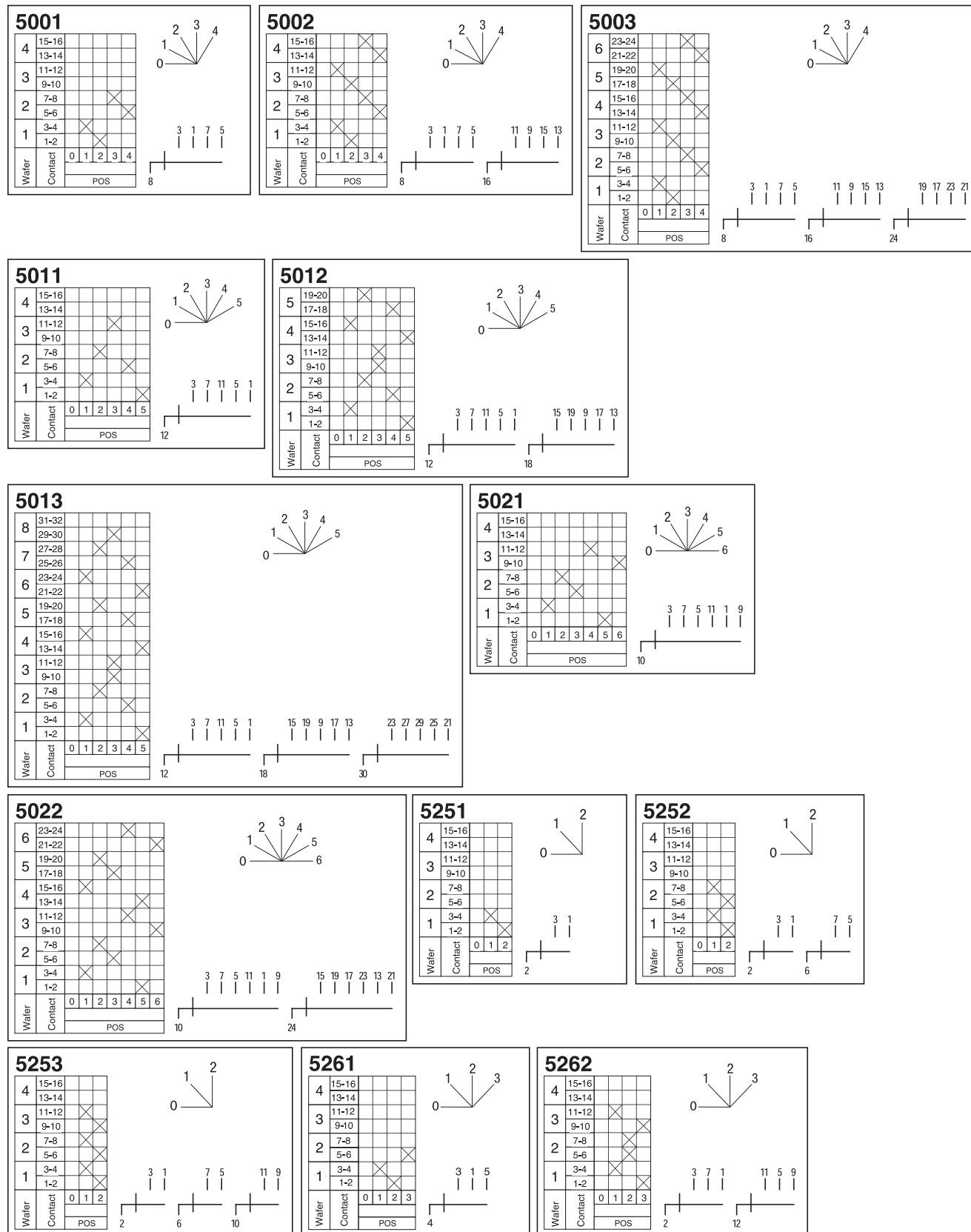
Circuit Diagrams



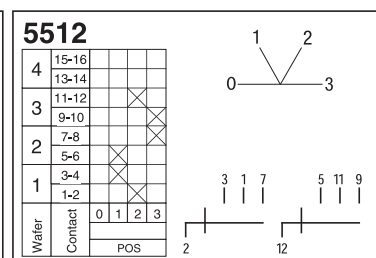
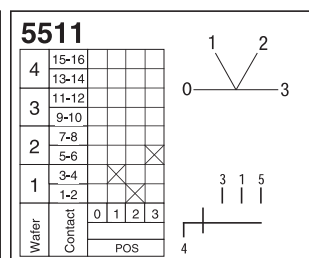
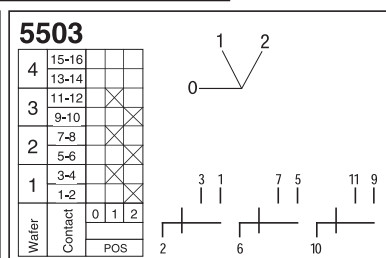
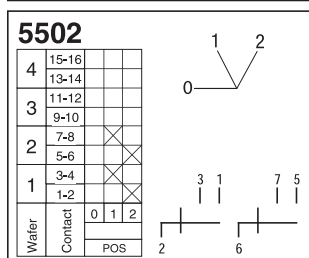
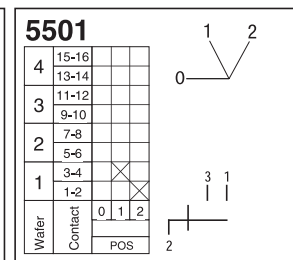
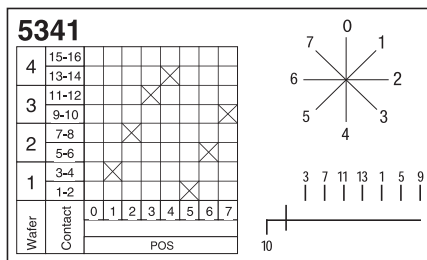
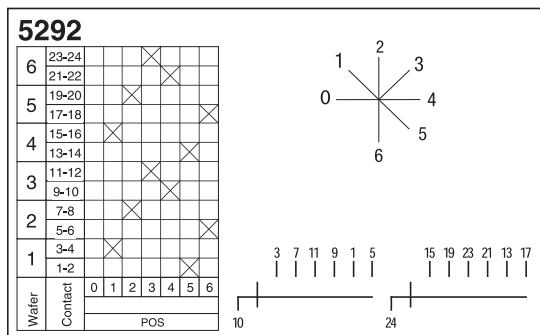
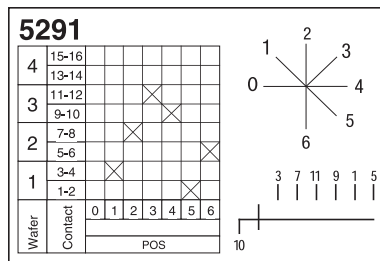
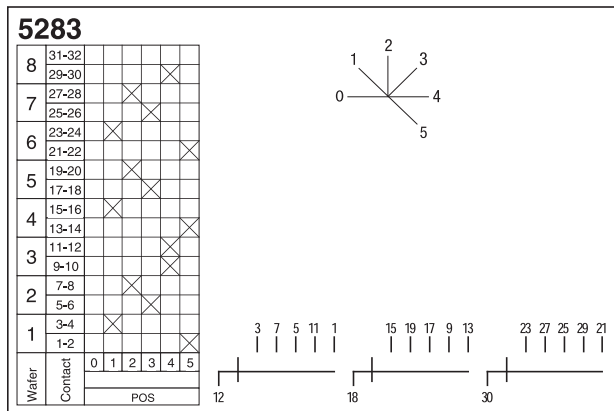
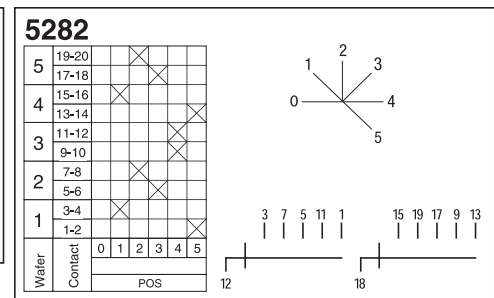
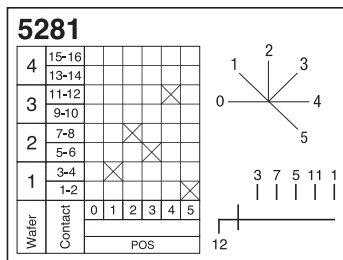
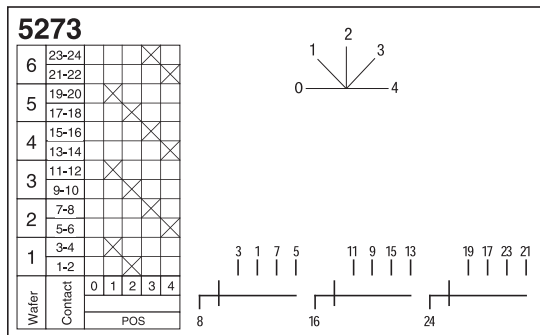
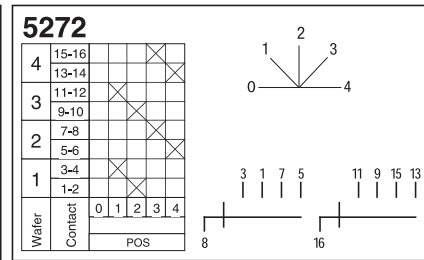
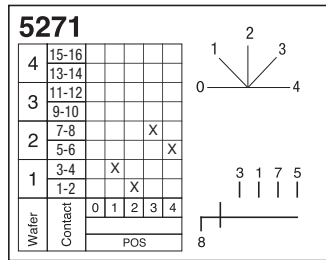
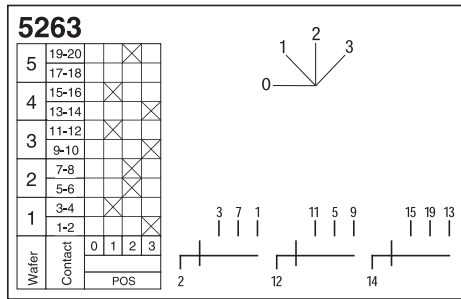
Circuit Diagrams



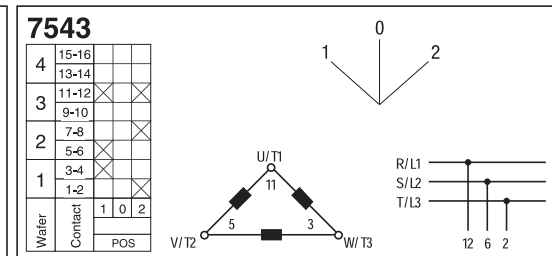
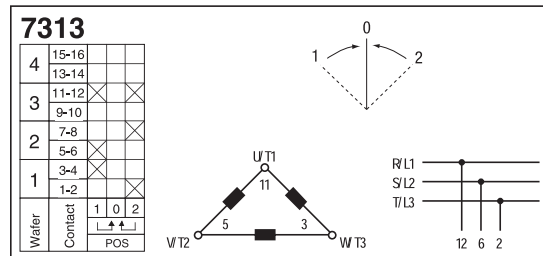
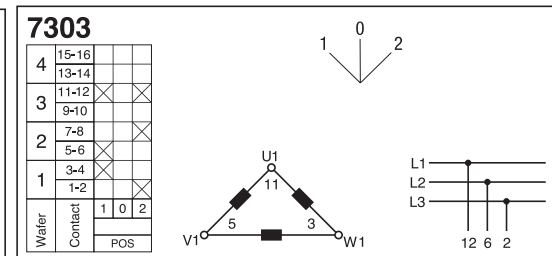
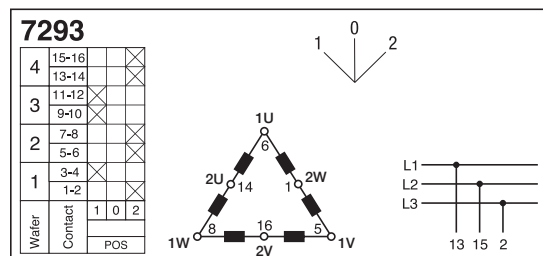
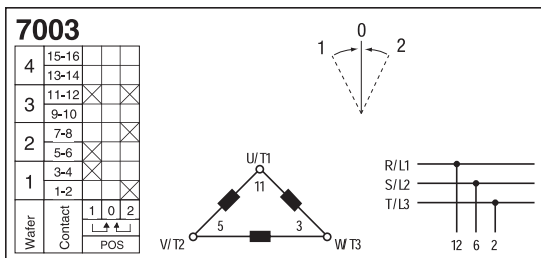
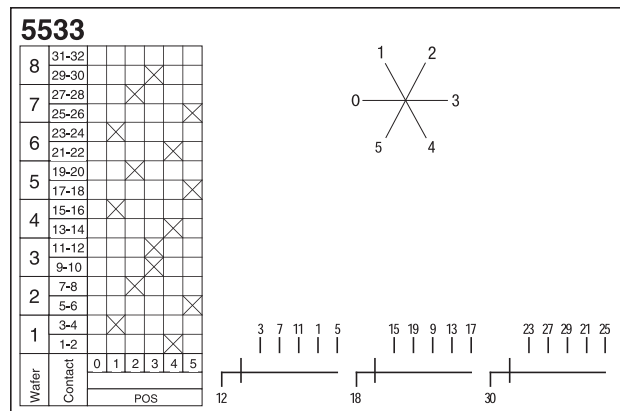
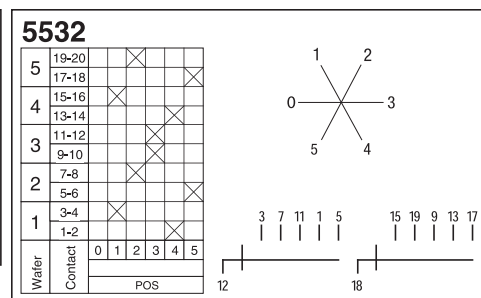
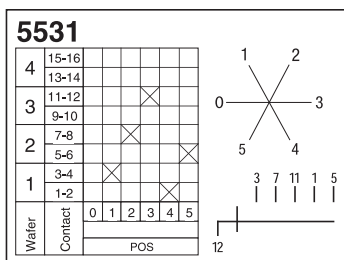
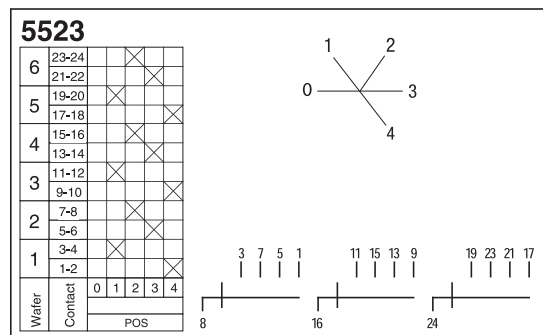
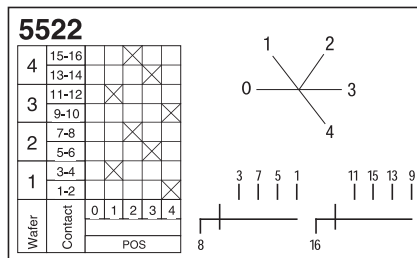
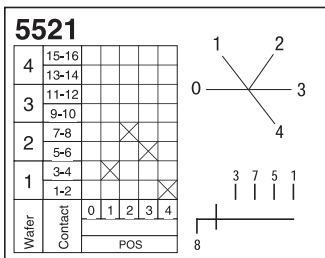
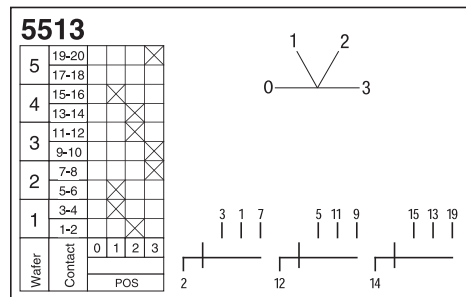
Circuit Diagrams



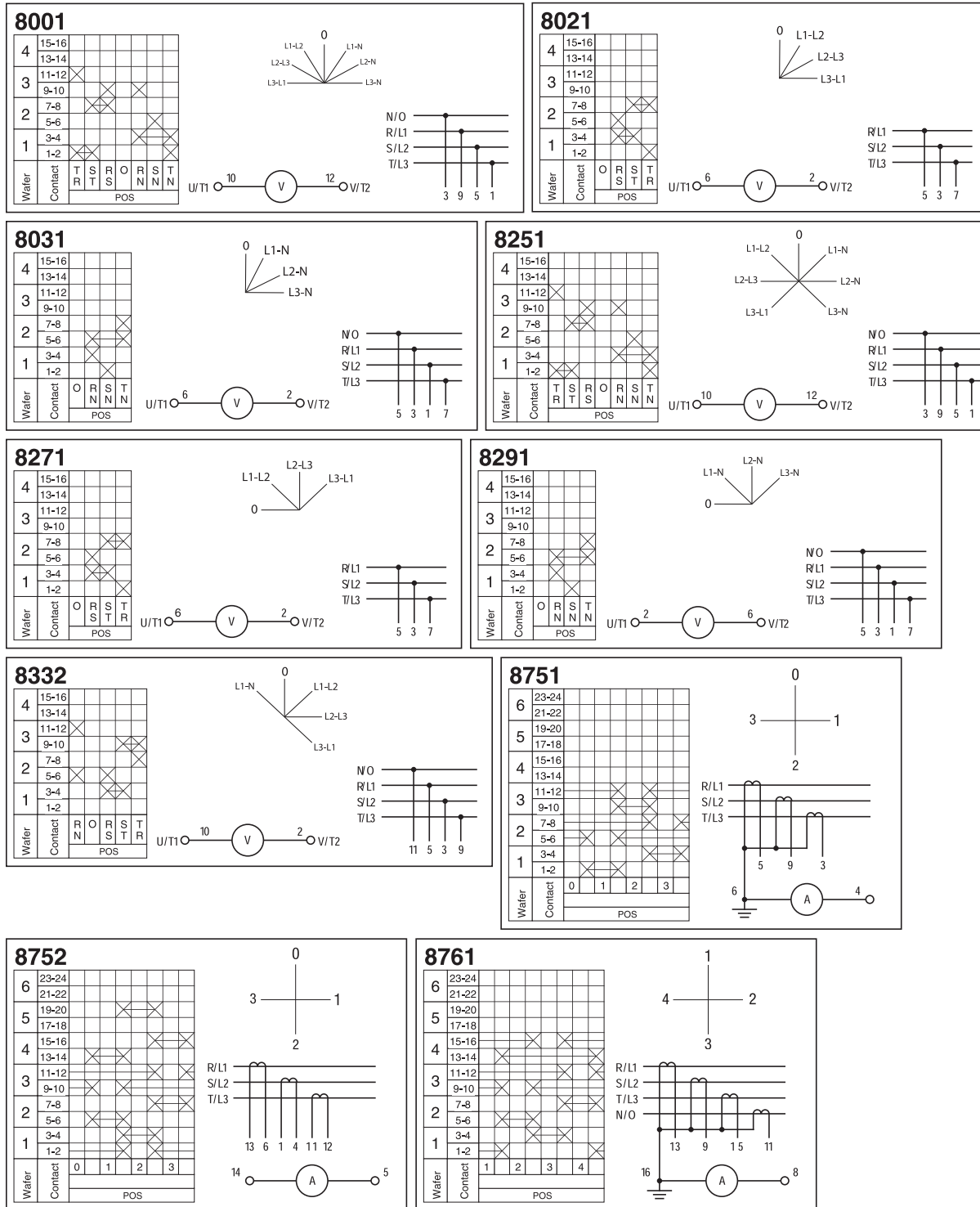
Circuit Diagrams



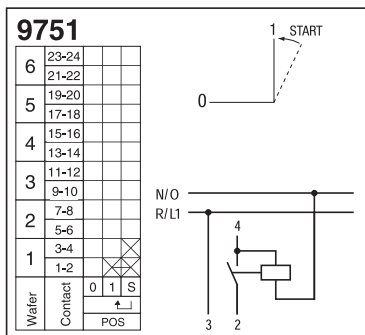
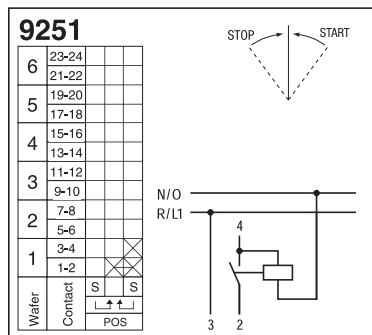
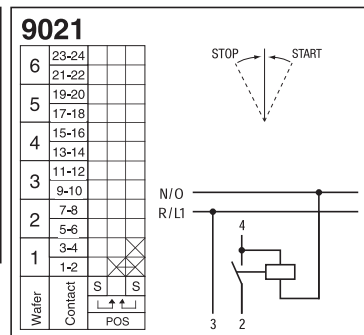
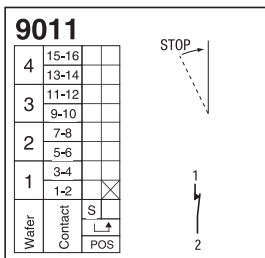
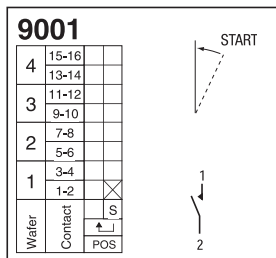
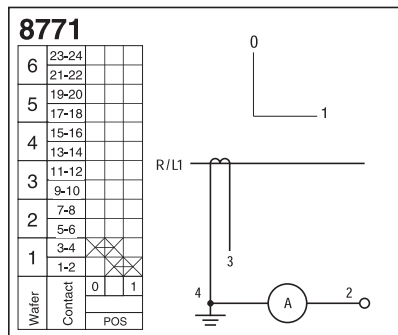
Circuit Diagrams



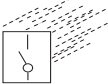
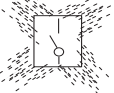
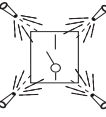
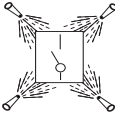
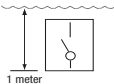
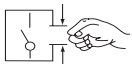
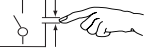
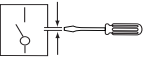
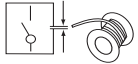
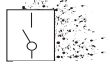
Circuit Diagrams



Circuit Diagrams



IP Ratings Definitions

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.									
	IP...0	IP...1	IP...2	IP...3	IP...4	IP...5	IP...6	IP...7	IP...8
IP0...  No protection	IP00								
IP1...  Protected against solid objects up to 50mm (accidental touch by hands)	IP10	IP11	IP12						
IP2...  Protected against solid objects up to 12mm (fingers, knuckles)	IP20	IP21	IP22	IP23					
IP3...  Protected against solid objects up to 2.5mm (tools, wires)	IP30	IP31	IP32	IP33	IP34				
IP4...  Protected against solid objects up to 1mm (wires)	IP40	IP41	IP42	IP43	IP44				
IP5...  Protected against dust (limited ingress permitted)	IP50			IP53	IP54	IP55	IP56		
IP6...  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								•	•

Technical Information

UL/CSA				L2-12	L2-16	L2-20	L2-25	
General use								
1-phase/2-phase, 3-phase/3 poles			Rated current	600 V	12	16	20	25
Heavy Pilot Duty			code designation	AC	A600	A600	~	~
Standard Duty			code designation	DC	~	~	~	~
Alternating Current (IEC / EN 60947-3)								
Rated Voltage U _e			IEC-EN / UL-CSA	(V)	690/600	690/600	690/600	690/600
Rated Isolation Voltage U _i			IEC / UL-CSA	(V)	690/600	690/600	690/600	690/600
Rated impulse voltage U _{imp}			IEC	(kV)	6	6	6	6
Test voltage U _i 1 min.				(kV)	2.5	2.5	2.5	2.5
Rated frequency				(Hz)	50/60	50/60	50/60	50/60
Thermal rated current I _{th} open				(A)	16	20	25	30
Thermal rated current I _{the} enclosed				(A)	12	16	20	25
Wasted power by 1 pole at thermal rated current I _{the}				(W)	0.3	0.5	0.6	0.9
Rated Operating Current I _e								
AC-1/ AC21A	Switching resistive loads with slight overload	IEC947	690V	(A)	12	16	20	25
AC-1	Non-inductive or slightly inductive loads inductive loads	SEV	690V	(A)	12	16	20	25
AC-22A	Switching mixed resistive and inductive loads at slight overload	IEC947						
			220-500V	(A)	12	16	20	25
			600V	(A)	12	16	20	25
AC-15	Switching magnetic drives, motors, valves and solenoids	IEC	220-240V	(A)	5	6	7	8
			380-415V	(A)	3	4	5	6
			500V	(A)	2	2.5	3	4
Pilot Duty								
Rated current	Non-inductive or slightly inductive loads	UL/CSA – Heavy VAC UL/CSA ❶		(A)	A600 12	A600 16	— 20	— 25
Short Circuit Current								
	Max. fuse rating of circuit	(gL characteristic)		(A)	35	35	60	80
	Rated conditional			(kA)	5	5	5	5
Rated Operating Powers		IEC/VDE/BS						
AC-2	Slip ring motors, starting induction motors, reversing and plugging, wye-delta starting		240V	(kW)	3	4	5.5	5.5
			380V	(kW)	5.5	7.5	9	13
		3Ø	415V	(kW)	5.5	7.5	9	13
		3 pole	440V	(kW)	5.5	7.5	9	13
			500V	(kW)	7.5	10	11	15
			660V	(kW)	7.5	10	11	15
AC-3	Starting squirrel-cage motors, interruption while running	3Ø	220-240V	(kW)	2.2	3	4.5	5.5
		3 pole	380-440V	(kW)	4	5.5	7.5	11
			500V	(kW)	5.5	7.5	10	13
			660V	(kW)	5.5	7.5	8	11
		1Ø	110V	(kW)	0.75	1.1	1.2	1.6
		2 pole	220-240V	(kW)	1.3	2.2	2.5	3.2
380-440V	(kW)		2.2	3.7	4.5	5.5		

① Suitable for switching off load (AC-20) above 660V, but only up to 660V for switches with screws at the rear (LE switches).

Technical Information

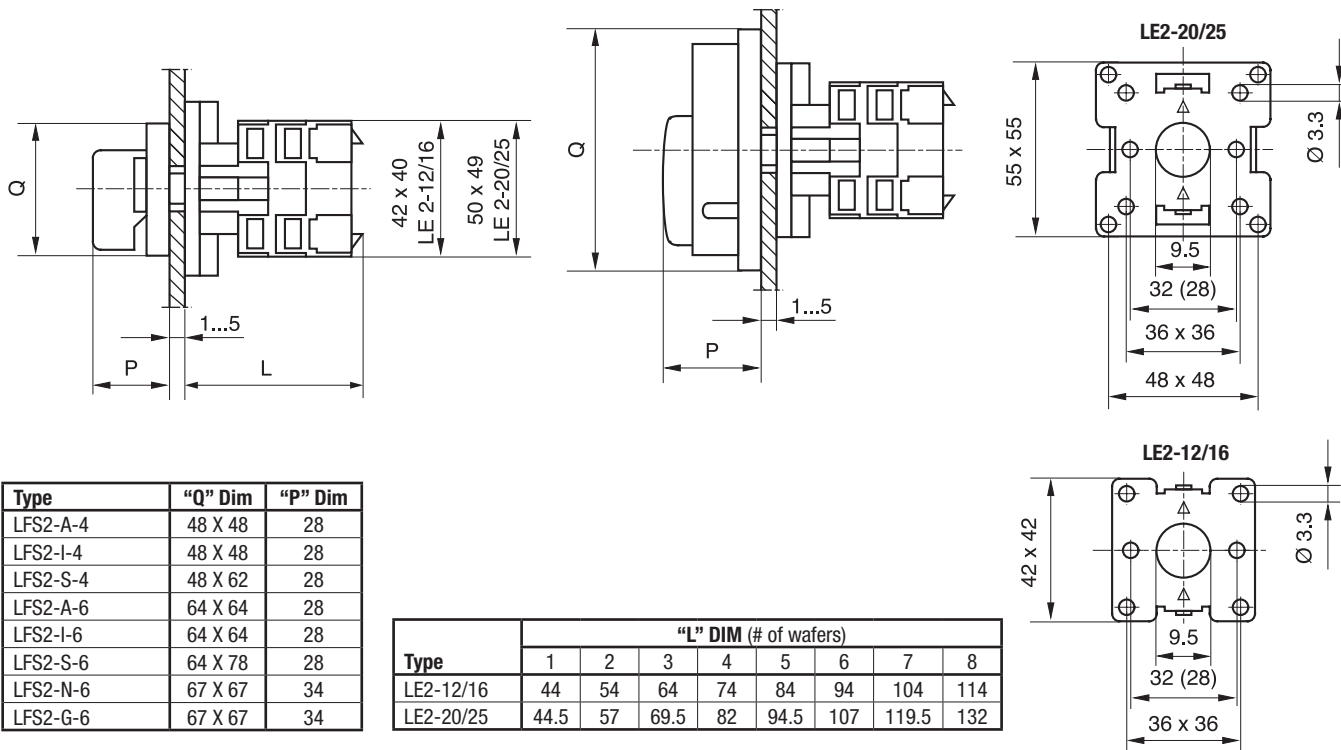
										L2-12	L2-16	L2-20	L2-25	
Rated Operating Loads (cont.)		IEC/VDE/BS												
AC-4	Starting squirrel-cage motors, reversing, braking, plugging	3Ø	220-240V	(kW)						0.75	1.5	3	4	
		3 pole	380-415V	(kW)						1.5	2.2	3.7	5.5	
			440-550V	(kW)						1.5	2.2	3.7	5.5	
			660V	(kW)						—	—	—	—	
AC-23A	Periodic switching of motors or other highly inductive loads.	3Ø	220-240V	(kW)						2.2	3	4.5	5.5	
		3 pole	380-440V	(kW)						4	5.5	7.5	11	
			500V	(kW)						5.5	7.5	10	13	
			660V	(kW)						5.5	7.5	8	11	
		1Ø	110V	(kW)						0.75	1.1	1.2	1.6	
		2 pole	220-240V	(kW)						1.3	2.2	2.5	3.2	
			380-440V	(kW)						2.2	3.7	4.5	5.5	
Rated Power		UL/CSA								(FLA)	(FLA)	(FLA)	(FLA)	
Normal motor load full voltage rating (similar to AC-3)		120V	(HP)							1 (7.2)	1.5 (12.0)	2 (13.6)	3 (19.2)	
	3Ø	240V	(HP)							2 (6.8)	3 (9.6)	4 (12.4)	6 (18.0)	
	3 pole	480V	(HP)							5 (7.6)	7.5 (11.0)	8 (11.6)	12 (17.0)	
		600V	(HP)							5 (6.1)	7.5 (9.0)	10 (11.0)	15 (17.0)	
	1Ø	120V	(HP)							0.5 (9.8)	0.75 (13.8)	1 (16)	1.5 (20.0)	
	2 pole	240V	(HP)							1 (8.0)	1.5 (10.0)	2 (12)	3 (17.0)	
DC Switch Ratings			Contacts in Series											
			1	2	3	4	5	6	8					
Rated Current I_e														
Rated Voltage [V]			24	48	72	96	120	144	192	[A]	12	16	20	22
DC-21A			48	96	144	192	240	288	384	[A]	10	12	16	18
For resistive loads T ≤ 1ms			60	120	180	240	300	360	450	[A]	8	10	12	14
$U_{e\max} = 600V$			110	220	330	440	550	660	—	[A]	2	2.5	4	5
			220	440	660	—	—	—	—	[A]	0.5	0.6	0.7	0.8
			440	—	—	—	—	—	—	[A]	0.4	0.4	0.5	0.5
Rated Making/Breaking Capacity (=1.5 x I_e)														
1.05 x rated voltage [V]			25.2	50.4	75.6	100.8	126	151.2	201.6	[A]	18	24	30	33
			50.4	100.8	151.2	201.6	252	302.4	403.2	[A]	15	21	24	27
For resistive loads T ≤ 1ms			63	126	189	252	315	378	504	[A]	12	18	18	21
$U_{e\max} = 600V$			115.5	231	346.5	462	577.5	—	—	[A]	3	4.5	6	7.5
			231	462	—	—	—	—	—	[A]	0.75	1.12	1.05	1.2
			462	—	—	—	—	—	—	[A]	0.52	0.78	0.47	0.75
Rated Current I_e														
Rated voltage [V]			24	48	72	96	120	144	192	[A]	8	10	12	14
			30	60	90	120	150	180	240	[A]	4.5	5.5	7	8
For inductive loads T = 50ms			48	96	144	192	240	288	384	[A]	1.5	2	2.5	3
$U_{e\max} = 600V$			60	120	180	240	300	360	450	[A]	1	1.2	1.5	1.8
			110	220	330	440	550	660	—	[A]	0.4	0.5	0.6	0.7
Rated Making/Breaking Capacity (=1.1 x I_e)														
1.1 x rated voltage [V]			26.4	52.8	79.2	105.6	132	158.4	184.8	[A]	8.8	11	13.2	1.54
			33	66	99	132	165	198	231	[A]	4.95	6.05	7.7	8.8
For inductive loads T = 50ms			52.8	105.6	158.4	211.2	264	316.8	369.6	[A]	1.65	2.2	2.75	3.3
$U_{e\max} = 600V$			66	132	198	264	330	396	462	[A]	1.1	1.32	1.65	1.98
			121	242	363	484	605	—	—	[A]	4.95	6.05	7.7	8.8
Rated Power P_e														
Rated voltage		[V]	Contacts in Series											
		24	1							[kW]	0.12	0.15	0.20	0.25
DC-23A, DC-3, DC-5		24	2							[kW]	0.20	0.25	0.30	0.37
For inductive loads T ≤ 1ms		48	2							[kW]	0.25	0.30	0.37	0.50
		48	3							[kW]	0.30	0.37	0.50	0.75
		60	2							[kW]	0.25	0.30	0.37	0.50
		60	4							[kW]	0.37	0.50	0.75	1.00
		110	4							[kW]	0.50	0.75	1.00	1.20
		110	6							[kW]	1.00	1.20	1.40	1.60
		220	4							[kW]	0.37	0.50	0.75	1.00
		220	6							[kW]	1.00	1.20	1.40	1.50

Technical Information

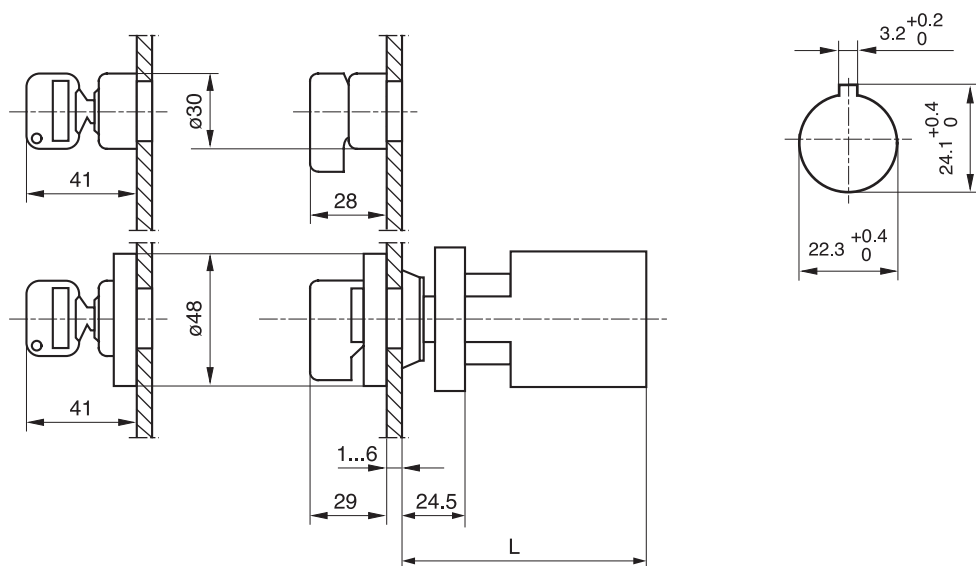
				L2-12	L2-16	L2-20	L2-25
Rated Making/Breaking Capacity (=4 x I _p)							
1.05 x rated voltage [V]		Contacts in Series					
DC-23A, DC-3, DC-5 For inductive loads T ≤ 7.5ms	25.2	1	[kW]	20.0	25.0	33.3	41.6
	25.2	2	[kW]	33.3	41.6	50.0	61.6
	50.4	2	[kW]	21.0	25.0	30.8	41.6
	50.4	3	[kW]	25.0	30.8	42.0	62.4
	63	2	[kW]	16.6	20.0	24.6	33.2
	63	4	[kW]	24.6	33.3	50.0	66.4
	115.5	4	[kW]	18.1	27.2	36.4	44.0
	115.5	6	[kW]	36.4	43.6	51.0	58.2
	231	4	[kW]	6.7	9.1	13.6	18.2
231	6	[kW]	18.1	21.8	25.2	27.2	
Maximum Wire Gauges							
Rigid Wire			AWG	(2)18...12	(2)18...12	(2)16...10	(2)16...10
			[mm²]	(2)1...2.5	(2)1...2.5	(2)1.5...6	(2)1.5...6
Fine Strands			AWG	(2)18...12	(2)18...12	(2)16...10	(2)16...10
			[mm²]	(2)1...2.5	(2)1...2.5	(2)1.5...4	(2)1.5...4
Max. Torque Ratings			[lb-in]	9	9	10.6	10.6
			[Nm]	1	1	1.2	1.2
Protection Class							
Switch Handle Assembly							
LFS2-UL				3 / 3R / 12	3 / 3R / 12	3 / 3R / 12	3 / 3R / 12
G(N)-6...							
All others	IEC 529			IP66	IP66	IP66	IP66
Switch Body	IEC 529			IP20	IP20	IP20	IP20
Mechanical Life		Millions of operations		1	1	1	1
Rated Breaking Capacity		220V	(A)	72	96	128	176
	Power factor			0.65	0.65	0.65	0.35
	380V		(A)	72	96	128	176
	Power factor			0.65	0.65	0.65	0.35
	660V		(A)	53	72	86	112
	Power factor			0.65	0.65	0.65	0.65
Ambient Temperature				(F°)	(F°)	(F°)	(F°)
Operation	Min...Max		(C°)	-25...+60 (-13...+140)	-25...+60 (-13...+140)	-25...+60 (-13...+140)	-25...+60 (-13...+140)
Storage only	Min...Max		(C°)	-40...+80 (-40...+176)	-40...+80 (-40...+176)	-40...+80 (-40...+176)	-40...+80 (-40...+176)
Maximum Altitude (without derating)			(m)	≤2000	≤2000	≤2000	≤2000
			(ft.)	≤6561	≤6561	≤6561	≤6561
Maximum Mechanical Operations (without derating)				(cycle/hr.)	1200	1200	1200
Maximum Electrical Operation (without derating)				(cycle/hr.)	120	120	120

LE2 Panel Mount - Screw Fixing

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

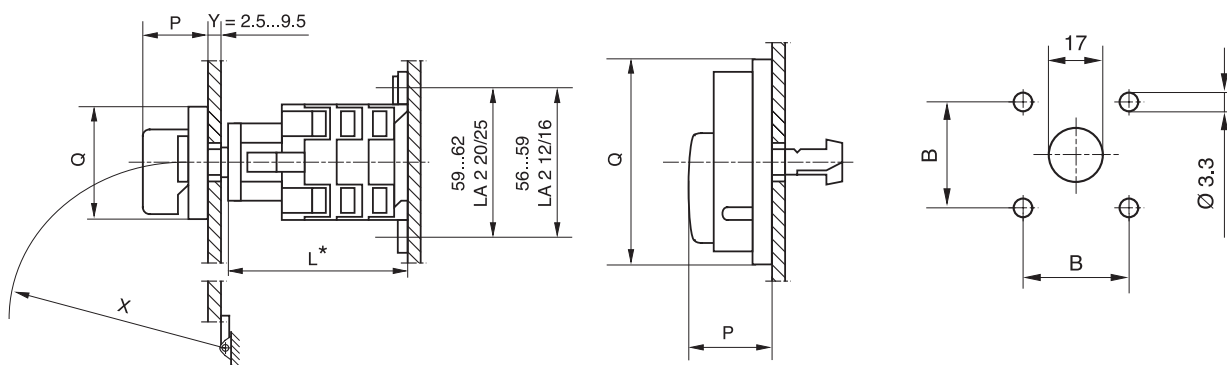


LE2 Panel Mount - Central Nut Fixing



LA2 Base Mount

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

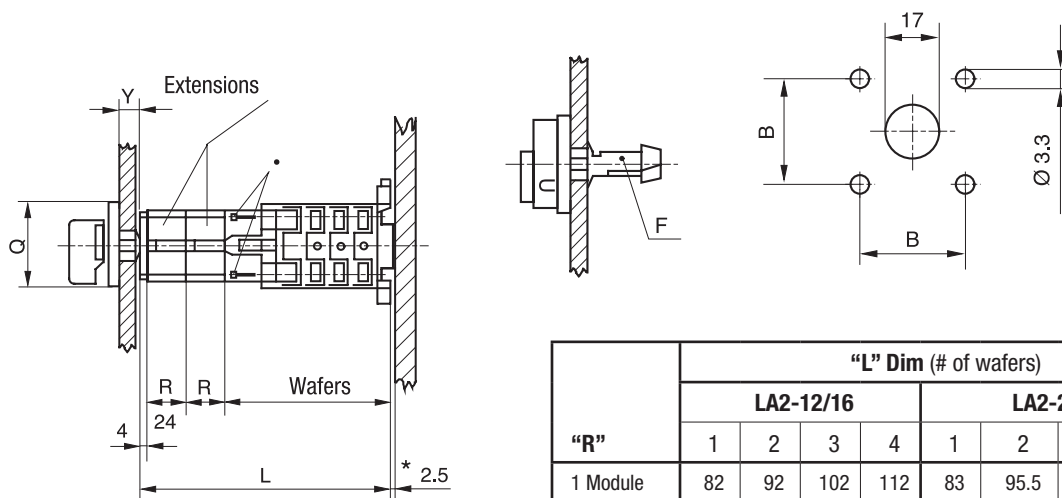


Type	"Q" Dim	"P" Dim	"B" Dim
LFS2-A-4	48 X 48	28	36
LFS2-I-4	48 X 48	28	36
LFS2-S-4	48 X 62	28	36
LFS2-A-6	64 X 64	28	48
LFS2-I-6	64 X 64	28	48
LFS2-S-6	64 X 78	28	48
LFS2-N-6	67 X 67	34	48
LFS2-G-6	67 X 67	34	48

Type	"L" DIM (# of wafers)			
	1	2	3	4
LA2-12/16	58	68	78	88
LA2-20/25	59	71.5	84	96.5

* Add 2.5mm for DIN rail 46277.

LA2 Base Mount with Modular Shaft Extensions



Type	"Q" Dim	"B" Dim
LFS2-A-4	48 X 48	36
LFS2-I-4	48 X 48	36
LFS2-S-4	48 X 62	36
LFS2-A-6	64 X 64	48
LFS2-I-6	64 X 64	48
LFS2-S-6	64 X 78	48
LFS2-N-6	67 X 67	48
LFS2-G-6	67 X 67	48

Shaft "F"	"Y" Dim
LA2-G2830	2.5-9.5
LA2-G3194	9 - 18
LA2-G3195	14 - 23

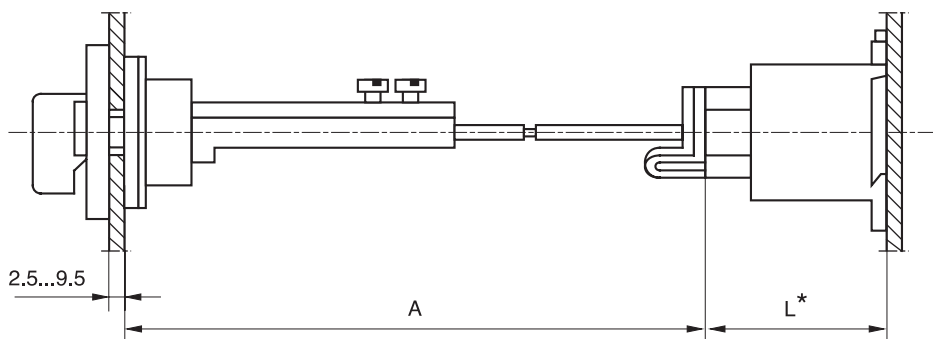
	"L" Dim (# of wafers)							
	LA2-12/16				LA2-20/25			
	1	2	3	4	1	2	3	4
1 Module	82	92	102	112	83	95.5	108	120.5
2 Modules	106	116	126	136	107	119.5	132	144.5
3 Modules	130	140	150	160	131	143.5	156	168.5
4 Modules	154	164	174	184	155	167.5	180	192.5
5 Modules	178	188	198	208	179	191.5	204	216.5
6 Modules	202	212	222	232	203	215.5	228	240.5

* Add 2.5mm for DIN rail 46277.

• With more than 4 modules attach the first one to the switch with the screws supplied with the LA2-G2853.

LA2 Base Mount with Metal Shaft Extension

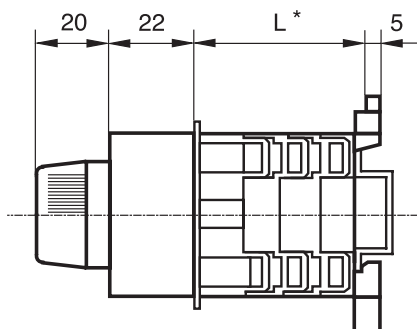
Dimensions are in millimeters (inches). Dimensions not intended for manufacturing purposes.



Type	"L" DIM (# of wafers)			
	1	2	3	4
LA2-12/16	54	64	74	84
LA2-20/25	55	67.5	80	92.5

Type	"A" Dim
LA2-G3393	110 - 235
LA2-G3394	230 - 350

* Add 2.5mm for DIN rail 46277.

LA2 Base Mount with LFS2-P-4


Type	"L" DIM (# of wafers)			
	1	2	3	4
LA2-12/16	35	45	55	65
LA2-20/25	35.5	48	60.5	73

* Add 2.5mm for DIN rail 46277.