Series L11 Fusible up to 800A & Non–fusible Disconnect Switches up to 1200 Amps

Suitable as a UL98 *Service Entrance Disconnecting Means*

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 L11 series of fused and nonfused disconnect switches complies with UL98 service entrance requirements and is NFPA 79 compliant. This family of rod operated switches is suitable for applications that require small panel space and superior short circuit protection.

Big performance in a small package

L11 disconnects are rated up to 1200A and can be operated at up to 600V. They protect motors up to 500HP (@480V). The L11 may be installed on circuits capable of delivering up to 200,000A of short circuit fault current levels typically found in modern industrial facilities.

The new expanded offering of the L11 disconnect series ranges from 100A through 1200A. The L11 Fusible switches are available from 100A up to 800A, and are designed to be used with Class J & L fuses. The L11 Non-Fusible switches are available from 100A up to 1200A. Optional auxiliary contacts can also be mounted on the switch for control circuit use. The L11 family performance comes in a compact design, leaving room for additional branch circuit components within the panel.

Maximum protection for downstream equipment

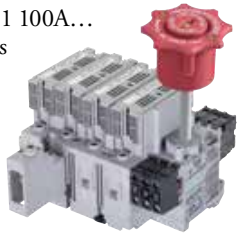
L11 switches are UL98 approved as a branch circuit protection device and are engineered to provide excellent short-circuit protection for downstream equipment up to 200kA. The L11 fusible switches accept the latest small dimension Class CC, J, L and HRCII fuses.

This Type 2 protection limits let-through currents to levels specified for IEC equipment, and ensures that when the short circuit is cleared, the device will be operable.

Meets the toughest safety standards

The L11 offers a modular universal internal handle which provides an interlocked handle for test mode use (30A/60A) and UL508A and NFPA 79 compliance in North America. The L11 30A & 60A are equipped with removable fuse carriers which provide dead-front switch protection during fuse change-out. Fuse carriers with neon blown fuse indicators are also available as an option on 30A &60A models. Test mode D7 auxiliary contacts may be installed to provide test capability of control circuit without energizing the main contacts for the L11-30A/60A swicthes. The L11 switches meet IP20 for finger-safe wiring terminals and IP30 for touch-safe fuse carriers.

NFPA 79 Compliant



All L11 30/60A & L11 100A… 800A Fusible switches are NFPA79 compliant, which meets the following guidelines under the NFPA 79 standards 5.3.3.1 and 6.2.3.1.2.

The supply Circuit Disconnecting Device shall:

- Be provided with a permanent means permitting it to be locked in the open position only independent of the door position.
- Be operable, by qualified persons, independent of the door position without the use of accessory tools or devices.

The interlocking means shall:

- Be reactivated automatically when the door is closed.
- Prevent closing of the disconnecting means while the enclosure door is open, unless an interlock is operated by deliberate action.

International standards and approvals

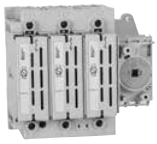
All Sprecher + Schuh L11 disconnect switches are UL Listed under File Number E47426, CSA, CE Marked and are designed to meet IEC 947-3, and applicable NEMA requirements.

UL/CSA Fused Disconnect Switches ❺

Switch	Amp Rating (A)	Maximum Horsepower ❶ 1 Ø (60Hz) 120V	1 Ø (60Hz) 240V	Three Phase (60Hz) 240V	Three Phase (60Hz) 480V	Three Phase (60Hz) 600V	DC 125V	DC 250V	Catalog Number	Price	Dimension Code
30A & 60A Typical	**UL Class CC and CSA HRCI-Misc Fuses ❷**										
	30	2	3	7.5	15	20	3	5	**L11-C30-1753**	**331.68**	A1
	UL Class J and CSA HRCI-J Fuses ❷										
	30	2	3	7.5	15	20	3	5	**L11-J30-1753**	**352.41**	A1
	60	3	10	15	30	50	5	10	**L11-J60-1753**	**450.88**	B1
	100	7.5	15	30	60	75	7.5	20	**L11-J100-1753**	**683.06**	F5
	200	~	25	60	125	150	15	40	**L11-J200-1753**	**1,523.67**	F6
	400	~	50	125	250	350	20	50	**L11-J400-1753**	**2,881.50**	F7
	600	~	~	200	400	500	~	~	**L11-J600-1753**	**4,913.07**	F8
	UL Class L and CSA HRCII-L Fuses										
	800	~	~	200	500	500	~	~	**L11-L800-1753**	**6,395.28**	F9
	CSA HRCII-C Fuses										
L11-J100A...L800A Typical	30	2	3	7.5	15	20	3	5	L11-H30-1753	**348.27**	B1
	60	3	10	15	30	50	5	10	L11-H60-1753	**442.59**	B1

Items in Gray available by Special Order only.

UL/CSA Non-Fused Disconnect Switches ❸

Switch	❹ Amp Rating (A)	Maximum Horsepower 1 Ø (60Hz) 120V	1 Ø (60Hz) 240V	Three Phase (60Hz) 240V	Three Phase (60Hz) 480V	Three Phase (60Hz) 600V	DC 125V	DC 250V	No. of Poles	Catalog Number	Price	Dimension Code
 30A & 60A Typical	30	2	3	7.5	15	20	3	5	3	**L11-N30-1753**	**305.77**	A2
	60	3	10	15	30	40	5	10	3	**L11-N60-1753**	**403.21**	B2
	100	7.5	15	30	75	100	10	15	3	**L11-NU100-1753**	**683.06**	F1
	200	~	50	75	150	200	15	15	3	**L11-NU200-1753**	**1,523.67**	F1
	400	~	~	125	250	350	20	50	3	**L11-NU400-1753**	**2,881.50**	F2
	600	~	~	200	400	350	20	50	3	**L11-NU600-1753**	**4,042.40**	F3
	800	~	~	200	500	500	~	~	3	**L11-NU800-1753**	**5,659.36**	F4
NU100A...1200A Typical	1200	~	~	200	500	500	~	~	3	**L11-NU1200-1753**	**12,334.50**	F4

❺ For Fuse Status Option Add the following to List Price	
L11-C30/J30	**14.51**
L11-J60/H30/H60	**18.66**

Ordering Instructions

- Specify Disconnect Switch catalog number (this page)
- Specify desired switch handle catalog number (page L30)
- Specify desired operating shaft catalog number (page L31)
- Specify desired accessories (starting on page L32)

❶ Time delay fuses may be required to utilize the disconnect switch at its maximum horsepower rating.
❷ Only UL listed Class CC, J and CSA Certified HRCI-J fuses are suitable for use with these disconnect switches.
❸ Non-fused disconnect switches must use separately installed fuses for upstream short circuit protection.
❹ 30A UL-rated device has Ithe of 40 A per IEC. 60A UL-rated device has Ithe of 80A per IEC.
❺ To order a fusible switch with fuse status indicator on 30A and 60A switches, add an "S" to the end of the catalog number. For example, L11-J30-1753 changes to L11-J30-1753S. Not available on J100…J600, or L800 devices. See table above.

4th-Pole Modules (for 30A & 60A only) ❹

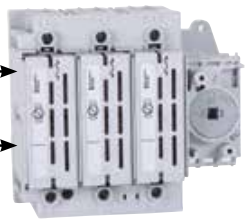
Switch *(typical)*	Amp Rating (A)	Maximum Horsepower ❶ 1 Ø (60Hz) 120V	1 Ø (60Hz) 240V	Three Phase (60Hz) 240V	Three Phase (60Hz) 480V	Three Phase (60Hz) 600V	DC 125V	DC 250V	Fuses	Catalog Number	Price	Dimension Code
	UL Class CC and CSA HRCI-MISC Fuses											
L11-30-NJ	30	2	3	7.5	15	20	3	5	30A CC, HRCI-Misc	**L11-30-NC**	**79.71**	A1
	UL Class J and CSA HRCI-J Fuses											
	30	2	3	7.5	15	20	3	5	30A J, HRCI-J	**L11-30-NJ**	**79.71**	A1
	60	3	10	15	30	50	5	10	60A J, HRCI-J	**L11-60-NJ**	**99.82**	B1
	CSA HRCII-C Fuses											
	30	2	3	7.5	15	20	~	~	30A HRCII-C	L11-30-NH	**79.71**	B1
	60	3	10	15	30	50	~	~	60A HRCII-C	L11-60-NH	**94.12**	B1
	Non-Fused											
L11-30-NN	30 ❷	2	3	7.5	15	20	3	5	~	**L11-30-NN**	**63.96**	A2
	60 ❸	3	10	15	30	40	5	10	~	**L11-60-NN**	**83.24**	B2

Items in Gray available by Special Order only.

❹ For Fuse Status Option Add the following to List Price	
L11-C30/J30	**14.51**
L11-J60/H30/H60	**18.66**

4th-Pole Modules must be ordered separately and field installed to existing L11 Disconnect Switch.

L11-30-NN


L11-N30-1753

Replacement Mounting Hardware

Accessory	Description	Switch Dimension Code	Pkg Qty	Catalog Number	Price
	(1) set screw, (1) shaft clip, and (2) #8 M4 screws	A1, A2	2	**L11-30-HDWR**	**3.34**
	(1) set screw, (1) shaft clip, and (4) #8 M4 screws	B1, B2	4	**L11-60-HDWR**	**4.87**
	(8) HM10 25mm bolts, (8) HM10 nuts, (16) M10 washers	F1	1	**L11-HF-200-4U**	**241.51**
	(8) HM12 30mm bolts, (8) HM12 nuts, (16) M12 washers	F2	1	**L11-HF-400-4U**	**382.48**
	(8) HM10 16mm bolts, (8) HM10 washers	F6	1	**L11-HF-250-3BDU**	**93.39**
	(8) HM8 16mm bolts, (8) HM8 washers, (6) HM10 35mm bolts, (6) M10 nuts, (12) M10 washers	F7	1	**L11-HF-400-3BU**	**382.48**
	(8) HM12 30mm bolts, (8) HM12 washers	F8, F9	1	**L11-HF-800-3U**	**258.09**

❶ Time delay fuses may be required to utilize the disconnect switch at its maximum horsepower rating.
❷ 30A UL-rated device has Ithe of 40 A per IEC.
❸ 60A UL-rated device has Ithe of 80A per IEC.
❹ To order a 4th pole module for 30A or 60A switches with fuse status indicator, add an "S" to the end of the catalog number. For example, L11-30-NC changes to L11-30-NCS. Not available on J100…J600, or L800 devices. See table above.

Switch Handle Assemblies (accepts 3 Padlocks)

Switch Handle Assembly ❶❷	Description	For use with	Color	Degree of Protection	Catalog Number	Price
L11-PY	**Padlockable Handle - Standard** • 80 x 114 mm • Configurable for defeatable or non-defeatable ❸	L11-30…60A	Black	Type 3R, 3, 12, 4, 4X, IP66	**L11-PB**	**49.86**
			Red/Yellow	Type 3R, 3, 12, 4, 4X, IP66	**L11-PY**	**49.86**
L11-PBT	**Padlockable Handle - Test Mode** • 80 x 114 mm • Configurable for defeatable or non-defeatable ❸	L11-30…60A	Black	Type 3R, 3, 12, 4, 4X, IP66	**L11-PBT**	**52.76**
			Red/Yellow	Type 3R, 3, 12, 4, 4X, IP66	**L11-PYT**	**52.76**
L10-HM4	**Padlockable Operating Handle** • Standard orientation with defeater	L11-100…400A	Black	Type 1, 3R, 12, 4, 4X – IP66	**L10-HM4**	**99.72**
			Red/Yellow	Type 1, 3R, 12, 4, 4X, IP66	**L10-HM4E**	**99.72**
L10-HM4E-N2	**Padlockable Operating handle** • Standard orientation without defeater	L11-100…400A	Black with light grey	Type 1, 3R, 12, 4, 4X – IP66	**L10-HM4-N2**	**99.72**
			Red/Yellow	Type 1, 3R, 12, 4, 4X – IP66	**L10-HM4E-N2**	**99.72**
L11-HM4-L	**Padlockable Operating Handle** • Standard orientation with defeater	L11-600…1200A	Black with light grey	Type 1, 3R, 12, 4, 4X, IP65	**L11-HM4-L**	**133.71**
			Red/Yellow	Type 1, 3R, 12, 4, 4X, IP65	**L11-HM4E-L**	**133.71**
L11-HM4-N2-L	**Padlockable Operating Handle** • Standard orientation without defeater	L11-600…1200A	Black with light grey	Type 1, 3R, 12, 4, 4X, IP65	**L11-HM4-N2-L**	**133.71**
			Red/Yellow	Type 1, 3R, 12, 4, 4X, IP65	**L11-HM4E-N2-L**	**133.71**

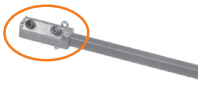
OSHA Lock Out/Tag Out Compliance (LOTO)
OSHA CFR36 Section 1910 mandates that disconnects be able to be locked out while in the OFF position during servicing. All L11 handles comply with this important safety requitement. *Please see NFPA Article 430 for disconnect requirements of motor applications.*

❶ Mounting screws included with Switch Handle Assembly.
❷ Lockable in OFF position (and ON position with special modification).
❸ Switch handle can be field modified to be defeatable or non-defeatable.

Metal Operating Shafts ❶

Shaft *(typical)*	For use with handle type…	Operating Shaft Length mm (in)	Catalog Number	Price
L11-S1…S2	L11-P/L11-P_T for L11-30…60A	305 (12)	**L11-S1**	**20.93**
		533 (21)	**L11-S2**	**27.68**
L11-R7…R8 L11-R9…R12	L10-HM for L11 100…400A	320 (12.6)	**L11-R7**	**47.58**
		560 (22)	**L11-R8**	**88.20**
	L11-HM for fused L11 600…800A	320 (12.6)	**L11-R11**	**51.21**
		560 (22)	**L11-R12**	**70.79**
	L11-HM for Non-fused L11 600…1200A	320 (12.6)	**L11-R9**	**61.05**
		560 (22)	**L11-R10**	**79.29**
NFPA 79 Handle Kit - Internal handle that permits operation of the disconnect when the panel door is open, in compliance with NFPA79. • Includes NFPA 79 internal operating handle with shaft		L11-P/L11-P_T	305 (12)	**L11-N1**	**87.27**
			533 (21)	**L11-N2**	**93.70**
	❷	L10-HM4 (L11 fused 100…400A)	320 (12.6)	**L11-HM4-NFPA1**	**236.33**
			560 (22)	**L11-HM4-NFPA3**	**236.33**
		L11-HM4_-L (L11 fused 600…800A)	320 (12.6)	**L11-HM4-NFPA2**	**236.33**
			560 (22)	**L11-HM4-NFPA4**	**236.33**

Operating Shaft Accessories

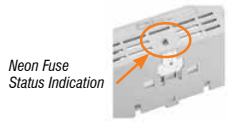
Accessory	Description	Switch Dimension Code	Pkg Qty	Catalog Number	Price
	**Operating Shaft Coupler -** Used with L11-S1 and L11-S2 shafts to extend shaft length an additional 120 mm (4.75 in).	A1, A2, B1, B2	1	**L10-SC1**	**37.21**

❶ See page L50 for Shaft dimensions.
❷ The L11-NU100…NU1200 Non-Fused switches do not have a means to be locked in the OFF position, therefore are not in compliance with NFPA79 and should not be used with L11-HM4-NFPA* handle kits.

Disconnect Switch Padlock Accessory (for 30A & 60A only) ❶❺

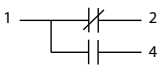
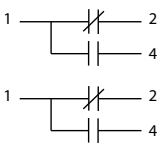
Accessory	Description	Switch Dimension Code	Pkg Qty	Catalog Number	Price
	Disconnect Switch Padlock Accessory	A1, A2, B1, B2	1	**L11-PLA1**	**12.96**

Replacement Fuse Carriers (for 30A & 60A only)

Accessory	Description	Pkg Qty	Without Fuse Status Indication		With Fuse Status Indication	
			Catalog Number	Price	Catalog Number	Price
L11-J30-FC	**30A CC Fuse Carrier**	1	**L11-C30-FC**	**25.18**	**L11-C30-FCS**	**33.28**
	30A J Fuse Carrier	1	**L11-J30-FC**	**25.18**	**L11-J30-FCS**	**33.28**
	60A J Fuse Carrier	1	**L11-J60-FC**	**33.28**	**L11-J60-FCS**	**44.46**
	30A CSA HRCII-C Fuse Carrier	1	**L11-H30-FC**	**24.15**	**L11-H30-FCS**	**32.34**
	60A CSA HRCII-C Fuse Carrier	1	**L11-H60-FC**	**32.34**	**L11-H60-FCS**	**43.12**
	30A Non-Fuse Carrier	1	**L11-N30-FC**	**22.28**		
 *Neon Fuse Status Indication* L11-J30-FCS	**60A Non-Fuse Carrier**	1	**L11-N60-FC**	**27.68**		

Items in Gray are Special Order.

Auxiliary Contact Blocks

Accessory	Description	For use with ...	Contact Material	Pkg Qty	Catalog Number	Price
	Contact Block ❷❸ **Note:** Sold only in multiples of 10. Order (quantity of) 10 to receive one package of 10 pieces.	All L11-30…60A All Fusible switches L11-100…800A	N.O.	10	**D7-X10**	**See Section H**
			N.C.		**D7-X01**	
			N.O.E.M.		**D7-X10E**	
			N.C.L.B.		**D7-X01L**	
			N.O. w/ spring-clamp		**D7-Q10**	
			N.CO. w/ spring-clamp		**D7-Q01**	
	Auxiliary Contact Block ❹ N.O.E.B./N.C.	All L11 Non-Fused 100...1200A		1	**L11-1STNONC**	**14.61**
				1	**L11-2NDNONC**	**18.14**

❶ For Padlock with ø3…6mm.
❷ Also used for test mode function on 30A…60A switches.
❸ Maximum auxiliary contact blocks allowed to be mounted on switches:
- Max 6 for 30A…60A switches
- Max 4 for L11-J100…200A switches
- Max 8 for L11-J400…J600, & L800 switches

❹ Only one auxiliary type can be mounted on switch. Auxiliaries cannot be combined.
❺ Fusible L11-100…800A has built in lockable feature on switch.

Terminal Protective Covers ❶❷❸

Accessory	Description	No. of poles Protected per pkg.	Mounting Position	Switch Dim. Code	Qty per Pkg	Pkg qty req. for Line & Load protection	Catalog Number	Price Each
order 2 for 1 pkg of 2 shrouds	**30A Terminal Shroud**	6	line or load side	A1, A2	2	1	**L11-30-C3**	**10.35**
	60A Terminal Shroud	6	line or load side	B1, B2	2	1	**L11-60-C3**	**14.30**
order 2 for 1 pkg of 2 shrouds	**30A Terminal Shroud**	2	line or load side	A1, A2	2	1	**L11-30-C1**	**4.25**
	60A Terminal Shroud	2	line or load side	B1, B2	2	1	**L11-60-C1**	**5.71**
								Pkg Price
order 1 for 1 package of 3 shrouds	**UL Terminal Shroud** for L11- UL Fused 600A…800A	3	line or load side	F17	3	2 ❸	**L11-LNC29**	**105.72**
	UL Terminal Shroud for L11- UL Fused 200A	3	line or load side	F6	3	2	**L11-LNC31**	**163.77**
	UL Terminal Shroud for L11 - UL Fused 400A	3	line or load side	F7	3	2	**L11-LNC32**	**108.83**
1 shield covers all 3 poles	**UL Terminal Shield** for L11-							
	UL Non-fused 100A…200A	3	line side	F1	1	1	**L11-LNC17**	**31.83**
		3	load side	F1	1	1	**L11-LNC18**	**31.83**
	UL Non-fused 400A	3	line side	F2	1	1	**L11-LNC20**	**77.94**
		3	load side	F2	1	1	**L11-LNC21**	**77.94**
	UL Non-fused 600A	3	line or load	F3	1	1 ❸	**L11-LNC23**	**112.98**
	UL Non-fused 800A… 1200A	3	line or load	F4	1	1 ❸	**L11-LNC25**	**151.33**

Multi-Tap Terminal Lugs ❶

Accessory	Description	Switch Dimension Code	Pkg Qty	Catalog Number	Pkg Price
	For 30A L11 Switches • Wire: (3) 8-14 AWG/1.5-10 mm² • Torque: 14 lb-in/1.6 Nm	A1, A2	1	**L11-30-MTL3**	**26.95**
	For 60A L11 Switches • Wire: (3) 4-14 AWG/2-25 mm² • Torque: 24 lb-in/2.8 Nm	B1, B2	1	**L11-60-MTL3**	**32.34**

❸ L11 Switches include various protection covers as standard. See table to order optional shrouds/shields separately.

Switch Type	Terminal Shrouds	Terminal Shields	Terminal Lugs	Notes
L11-J30/60 A	N/A ❷	N/A	Built-in	IP20 Touch-Safe by design
L11-J100 A	N/A	N/A	Built-in	IP20 Touch-Safe by design
L11-J200/400 A	Optional	N/A	Optional	Purchase optional items separately
L11-J600/L800 A	Includes 1 pkg L11-LNC29 for line side	N/A	Optional	Purchase optional items separately
L11-N30/60 A	N/A	N/A	Built-In	IP20 Touch-Safe by design
L11-NU100/400 A	N/A	Optional	Optional	Purchase optional items separately
L11-NU600 A	N/A	Includes 1 pkg L11-LNC23 for line side	Optional	Purchase optional items separately
L11-NU800/1200 A	N/A	Includes 1 pkg L11-LNC25 for line side	Optional	Purchase optional items separately

❶ Includes integral plastic cover (not shown), for IP10 ingress rating only.

❷ L11-XX-CX shrouds are typically used to re-label power terminals when rotating the switch 180°.

Terminal Lug Kits ❶

Accessory	For use with…	Wire Size	Pkg Qty	Catalog Number	Pkg Price
order 1 for 1 package of 3 lugs	L11-J200 Fused L11-NU100, L11-NU200 Non-Fused	(1) #6 - 300 MCM	3	**L11-TL1**	**44.36**
order 1 for 1 package of 3 lugs	L11-J400 Fused L11-NU400 Non-Fused	(1) #4 - 600 MCM	3	**L11-TL3**	**151.33**
order 1 for 1 package of 3 lugs	L11-J400 Fused L11-NU400 Non-Fused	(2) #6 - 350 MCM	3	**L11-TL5**	**205.23**
	L11-J600…L800 Fused L11-NU600 Non-Fused	(2) #2 - 600 MCM	3	**L11-TL7**	**257.06**
order 1 for 1 package of 6 lugs	L11-NU800…NU1200 Non-Fused	(2) #2 - 600 MCM	6	**L11-TL9**	**706.90**

❶ L11-30/60 Fused and Non-fused, and L11-J100 Fused disconnect switches are equipped with built-in terminal lugs.

L11 Enclosed Motor Disconnects (UL and CSA Approved Enclosures)

Amp/Horsepower Rating						Type 3/4/12 Watertight, Dusttight Sheetmetal Enclosure			Type 4/4X Watertight, Corrosion-Resistant Stainless Steel Enclosure			Type 4/4X Watertight, Corrosion-Resistant Non-metallic Enclosure		
UL/ CSA Amps	Horsepower					Catalog Number	Price	Dimension Code	Catalog Number	Price	Dimension Code	Catalog Number	Price	Dimension Code
	1Ø (60 Hz)		3Ø (60 Hz)											
	120V	240V	240V	480V	600V									
Class CC Fused														
30	2	3	7.5	15	20	**L11-FC030P3**	**802.26**	A1	**L11-CC030P3**	**951.52**	A1	**L11-KC030P3**	**805.37**	A1
Class J Fused														
30	2	3	7.5	15	20	**L11-FJ030P3**	**744.22**	A1	**L11-CJ030P3**	**951.52**	A1	**L11-KJ030P3**	**825.06**	A1
60	3	10	15	30	50	**L11-FJ060P3**	**882.07**	B1	**L11-CJ060P3**	**1,036.51**	B1	**L11-KJ060P3**	**1,022.00**	B1
100	7.5	15	30	60	75	**L11-FJ100P3**	**1,391.00**	C1	**L11-CJ100P3**	**2,617.19**	C1	**L11-KJ100P3**	**1,391.00**	C1
200	~	25	60	125	150	**L11-FJ200P3**	**2,319.72**	D1	**L11-CJ200P3**	**3,586.33**	D1	**L11-KJ200P3**	**2,318.67**	D1
400	~	50	125	250	350	**L11-FJ400P3**	**4,273.54**	F1	**L11-CJ400P3**	**6,856.53**	F1	**L11-KJ400P3**	**4,272.50**	F1
Non-Fused														
30	2	3	7.5	15	20	**L11-FN030P3**	**544.17**	A2	**L11-CN030P3**	**1,025.11**	A2	**L11-KN030P3**	**544.17**	A2
60	3	10	15	30	50	**L11-FN060P3**	**963.96**	B2	**L11-CN060P3**	**1,297.71**	B2	**L11-KN060P3**	**963.96**	B2
100	7.5	15	30	75	100	**L11-FN100P3**	**1,391.00**	C1	**L11-CN100P3**	**2,551.89**	C1	**L11-KN100P3**	**1,391.00**	C1
200	~	50	75	150	200	**L11-FN200P3**	**2,319.72**	D1	**L11-CN200P3**	**3,586.33**	D1	**L11-KN200P3**	**2,318.67**	D1
400	~	~	125	250	350	**L11-FN400P3**	**4,273.54**	F1	**L11-CN400P3**	**6,856.53**	F1	**L11-KN400P3**	**4,272.50**	F1

Larger sizes available. Contact your Sprecher + Schuh representative.

Enclosed Disconnect Assemblies Include:

- Disconnect Switch
- Black handle/shaft with ON/OFF marking. For a yellow and red handle, add suffix "E" to the end of the catalog number. Example: change L11-FN030P3 to L11-FN030P3**E**.
- Line & Load Terminal Lugs for Fused 200/400A & Non-Fused 100A…400A (Lugs are built-in on Fused 30/60/100A & Non-fused 30/60A switches).
- Two Ground Lugs mounted on back-panel

NOTE: Fusible accessory Shrouds, Non-Fusible accessory Shields must be purchased separately and installed by user. To add any accessory items into these standard assemblies, please contact your Sprecher+Schuh representative for a custom enclosed L11 request.

L11-KJ060P3

Applications Within the United States and Canada

General

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

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

Single Motor Applications

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

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

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

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

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

Combination Load Applications

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

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

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

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

Consider the following 460V application:

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

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

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

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

❶ Note again that Motor 2 cannot operate simultaneously with the other loads.
❷ The largest equivalent locked-rotor current occurs when motors 3 and 4 start together while the other loads marked "simultaneous" are already operating. Since Motor 1 is not starting with Motors 3 and 4, its full-load current will be added to the total instead of its locked-rotor current.

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

Therefore, the disconnect selected for this application must have a current rating of at least 72A and a HP rating of at least 40 HP. In this case, an L11 disconnect switch rated for 100A and 60 HP at 460V would be an appropriate choice. What can be seen from this analysis is that, depending upon the number of motors that can start simultaneously, the actual size of the required disconnect is sometimes determined by the equivalent full load current (72A) and other times by the equivalent horsepower determined from the locked-rotor analysis (40 HP).

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

Electrical Ratings			L11-C30-1753		L11-J30-1753		L11-J60-1753	
UL Fuse Type / CSA Fuse Type			Class CC/HRCI-MISC ❶		Class J/HRCI-J		Class J/HRCI-J	
Maximum Fuse Cartridge Size		(A)	30		30		60	
Maximum Voltage	AC DC	(V) (V)	600 250		600 250		600 250	
Ampere Rating		(A)	30		30		60	
Maximum Short Circuit Prospective Fault Current		(kA)	200		200		200	
Fuse Operating Characteristics			Time Delay	Non-Time Delay	Time Delay	Non-Time Delay	Time Delay	Non-Time Delay
Maximum Hp, 3Ø AC	200V 60 Hz	(Hp)	5	3	7.5	3	15	7.5
	240V 60 Hz	(Hp)	5	3	7.5	3	15	7.5
	480V 60 Hz	(Hp)	10	5	15	5	30	15
	600V 60 Hz	(Hp)	10	7.5	20	7.5	50	15
Maximum Hp, 1Ø AC	120V, 60 Hz	(Hp)	0.75	0.5	2	0.5	3	1.5
	240V, 60 Hz	(Hp)	2	1.5	3	1.5	10	3
Maximum Hp, DC	125V, DC	(Hp)	2	3	3	2	5	5
	250V, DC	(Hp)	3	5	5	5	10	10

Mechanical Data			L11-C30-1753	L11-J30-1753	L11-J60-1753
Degree of Protection (per IEC 60947-3)					
Switch Only			IP20	IP20	IP20
Switch with Terminal Shield & Fuse Carriers			IP20	IP20	IP20
Mechanical Endurance ❷		Operations	10,000	10,000	10,000
Handle Mechanism Operating Torque		N•m lb•in	3.5 35	3.5 35	3.5 35
Terminal Capacity					
Power Terminals		mm^2 AWG	2.5…10 #14…#8	2.5…10 #14…#8	2.5…25 #14…#4
Auxiliary Contact Terminals		mm^2 AWG	2.5…4 #14…#12	2.5…4 #14…#12	2.5…4 #14…#12
Maximum Number of Auxiliary Contacts			6	6	6
Approximate Weight		kg lbs	0.92 2.03	0.92 2.03	1.32 2.9
Minimum Enclosure Size		Height	248 (9-3/4)	248 (9-3/4)	248 (9-3/4)
Approximate dimensions in millimeters (inches)		Width Depth	171 (6-3/4) 148 (5-13/16)	171 (6-3/4) 148 (5-13/16)	197 (7-3/4) 148 (5-13/16)
Switch Dimensions Reference (See dimension drawings)			A1	A1	B1

❶ CSA HRCI-MISC fuses must also be UL Listed as Class CC fuses.
❷ Based on Sprecher + Schuh tests in accordance with the requirements as defined in CSA C22.2 No. 4, IEC 60947-3, and UL 98.

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

Electrical Ratings			L11-J100-1753	L11-J200-1753	L11-J400-1753	L11-J600-1753	L11-L800-1753
UL Fuse Type / CSA Fuse Type			Class J/HRCI-J				Class L
Maximum Fuse Cartridge Size		(A)	100	200	400	600	800
Maximum Voltage	AC DC	(V) (V)	600 250 ❷	600 250 ❷	600 250 ❷	600 250 ❷	600 250 ❷
Ampere Rating		(A)	100	200	400	600	800
Maximum Short Circuit Prospective Fault Current		(kA)	200	200	200	200	200
Fuse Operating Characteristics							
Maximum Hp, 3Ø AC	200V 60 Hz	(Hp)	~	~	~	~	~
	240V 60 Hz	(Hp)	30	60	125	200	200
	480V 60 Hz	(Hp)	60	125	250	400	500
	600V 60 Hz	(Hp)	75	150	350	500	500
Maximum Hp, 1Ø AC	120V, 60 Hz	(Hp)	7.5	~	~	~	~
	240V, 60 Hz	(Hp)	15	25	50	~	~
Maximum Hp, DC	125V, DC	(Hp)	7.5	15	20	~	~
	250V, DC	(Hp)	20	40	50	~	~

Mechanical Data			L11-J100-1753	L11-J200-1753	L11-J400-1753	L11-J600-1753	L11-L800-1753
Degree of Protection (per IEC 60947-3)							
Switch Only			IP20	IP20	IP20	IP20	IP20
Switch with Terminal Shield & Fuse Carriers			IP20	IP20	IP20	IP20	IP20
Mechanical Endurance ❶		Operations	10,000	8,000	6,000	5,000	5,000
Handle Mechanism Operating Torque		N•m lb•in	10 88.5	15 132.8	20 177	70 620	70 620
Terminal Capacity							
Power Terminals		mm^2 AWG	 #1	300 MCM #6	600 MCM; 2 x 300 MCM #2 or 2 x #6	2 x 600 MCM 2 x #2	2 x 600 MCM 2 x #2
Auxiliary Contact Terminals		mm^2 AWG	2.5…4 #14…#12	2.5…4 #14…#12	2.5…4 #14…#12	2.5…4 #14…#12	2.5…4 #14…#12
Maximum Number of Auxiliary Contacts			4	8	8	8	8
Approximate Weight		kg lbs	2.4 5.3	3.6 7.9	4.85 10.7	20 44	20 44
Minimum Enclosure Size Approximate dimensions in millimeters (inches)		Height Width Depth	~	~	~	~	~
Switch Dimensions Reference (See dimension drawings)			F5	F6	F7	F8	F9

❶ Based on Sprecher + Schuh tests in accordance with the requirements as defined in CSA C22.2 No. 4, IEC 60947-3.
❷ 3-Poles in series.

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

Electrical Ratings			L11-N30-1753		L11-N60-1753		L11-NU100-1753	L11-NU200-1753
Maximum Voltage	AC DC	(V) (V)	600 250		600 250		600 250	600 250
Fuse Type			~		~		J	J
Ampere Rating		(A)	30 ❷		60 ❷		100	200
Maximum Short Circuit Prospective Fault Current		(kA)	200		200		200	200
Fuse Operating Characteristics ❸			Time Delay	Non-Time Delay	Time Delay	Non-Time Delay	~	~
Maximum Hp, 3Ø AC	200V 60 Hz	(Hp)	7.5	3	15	7.5	~	~
	240V 60 Hz	(Hp)	7.5	3	15	7.5	30	75
	480V 60 Hz	(Hp)	15	5	30	15	75	150
	600V 60 Hz	(Hp)	20	7.5	50	15	100	200
Maximum Hp, 1Ø AC	120V, 60 Hz	(Hp)	2	0.5	3	1.5	7.5	~
	240V, 60 Hz	(Hp)	3	1.5	10	3	15	50
Maximum Hp, DC	125V, DC	(Hp)	3	2	5	5	10	15
	250V, DC	(Hp)	5	5	10	10	15	15
Power Lost		(W)	2		6		~	~

Mechanical Data			L11-N30-1753	L11-N60-1753	L11-NU100-1753	L11-NU200-1753
Degree of Protection (per IEC 60947-3)						
Switch Only			IP20	IP20	IP20	IP20
Switch with Terminal Shield & Fuse Carriers			IP20	IP20	IP20	IP20
Mechanical Endurance ❸		Operations	10,000	10,000	10,000	10,000
Handle Mechanism Operating Torque		N•m lb•in	3.5 35	3.5 35	10 88.5	10 88.5
Terminal Capacity						
Power Terminals		mm^2 AWG	2.5…10 #14…#8	2.5…25 #14…#4	300 MCM #6	300 MCM #6
Auxiliary Contact Terminals		mm^2 AWG	2.5…10 #14…#8	2.5…25 #14…#4	~	~
Maximum Number of Auxiliary Contacts			6	6	2	2
Approximate Weight		kg lbs	0.81 1.78	1.14 2.52	1.67/2.1 3.7/4.3	1.67/2.1 3.7/4.3
Minimum Enclosure Size Approximate dimensions in millimeters (inches)		Height Width Depth	248 (9-3/4) 171 (6-3/4) 111 (4-3/8)	248 (9-3/4) 197 (7-3/4) 111 (4-3/8)	~	~
Switch Dimensions Reference (See dimension drawings)			A2	B2	F1	F1

❶ Non-fused disconnect switches must be used with separately installed fuses.
❷ When using CSA HRCI-J, HRCI-MISC (also UL Listed as Class CC) or HRCI-T fuses, and UL Class J, CC or T fuses.
❸ Based on Sprecher + Schuh tests in accordance with the requirements as defined in CSA C22.2 No. 4, IEC 60947-3, UL 1087 and UL 98.

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

Electrical Ratings			L11-NU400-1753	L11-NU600-1753	L11-NU800-1753	L11-NU1200-1753
Maximum Voltage	AC DC	(V) (V)	600 250	600 250	600 250	600 250
Fuse Type			J	J	L	L
Ampere Rating		(A)	400	600	800	1200
Maximum Short Circuit Prospective Fault Current		(kA)	200	200	100	100
Fuse Operating Characteristics ❸			~	~	~	~
Maximum Hp, 3Ø AC	200V 60 Hz	(Hp)	~	~	~	~
	240V 60 Hz	(Hp)	125	200	200	200
	480V 60 Hz	(Hp)	250	400	500	500
	600V 60 Hz	(Hp)	350	350	500	500
Maximum Hp, 1Ø AC	120V, 60 Hz	(Hp)	~	~	~	~
	240V, 60 Hz	(Hp)	~	~	~	~
Maximum Hp, DC	125V, DC	(Hp)	20	20	~	~
	250V, DC	(Hp)	50	50	~	~
Power Lost		(W)	~	~	~	~

Mechanical Data			L11-NU400-1753	L11-NU600-1753	L11-NU800-1753	L11-NU1200-1753
Degree of Protection (per IEC 60947-3)						
Switch Only			IP20	IP20	IP20	IP20
Switch with Terminal Shield & Fuse Carriers			IP20	IP20	IP20	IP20
Mechanical Endurance ❸		Operations	6,000	6,000	3,500	3,500
Handle Mechanism Operating Torque		N•m lb•in	14.5 128.3	37 327.5	50 442	50 442
Terminal Capacity						
Power Terminals		mm2 AWG	600 MCM #2	2 x 600 MCM 2 x #2	4 x 600 MCM 4 x #2	4 x 600 MCM 4 x #2
Auxiliary Contact Terminals		mm2 AWG	~	~	~	~
Maximum Number of Auxiliary Contacts			2	2	2	2
Approximate Weight		kg lbs	3/3.8 6.6/8.4	8.2/10.3 18.1/22.7	11.6/14.5 25.6/32	11.6/14.5 25.6/32
Minimum Enclosure Size Approximate dimensions in millimeters (inches)		Height Width Depth	~	~	~	~
Switch Dimensions Reference (See dimension drawings)			F2	F3	F4	F4

❶ Non-fused disconnect switches must be used with separately installed fuses.
❷ When using CSA HRCI-J, HRCI-MISC (also UL Listed as Class CC) or HRCI-T fuses, and UL Class J, CC or T fuses.
❸ Based on Sprecher + Schuh tests in accordance with the requirements as defined in CSA C22.2 No. 4, IEC 60947-3, UL 1087 and UL 98.

Fused Disconnect Switches for CSA HRCII-C Fuses

Electrical Ratings			L11-H30-1753	L11-H60-1753
CSA Fuse Type/UL Fuse Type			HRCII-C	HRCII-C
Maximum Fuse Cartridge Size		(A)	30	60
Maximum Voltage	AC	(V)	600	600
Ampere Rating		(A)	30	60
Maximum Short Circuit Prospective Fault Current		(kA)	200	200
Fuse Operating Characteristics				
Maximum Hp, 3Ø AC	200V 60 Hz	(Hp)	7.5	15
	240V 60 Hz	(Hp)	7.5	15
	480V 60 Hz	(Hp)	15	30
	600V 60 Hz	(Hp)	20	50
Maximum Hp, 1Ø AC	120V, 60 Hz	(Hp)	2	3
	240V, 60 Hz	(Hp)	3	10

Mechanical Data			L11-H30-1753	L11-H60-1753
Degree of Protection (per IEC 60947-3)				
Switch Only			IP20	IP20
Switch with Terminal Shield & Fuse Carriers			IP20	IP20
Mechanical Endurance ❶		Operations	10,000	10,000
Handle Mechanism Operating Torque		N•m lb•in	3.5 35	3.5 35
Terminal Capacity				
Power Terminals		mm2 AWG	2.5…10 #14…#8	2.5…25 #14…#4
Auxiliary Contact Terminals		mm2 AWG	2.5…4 #14…#12	2.5…4 #14…#12
Maximum Number of Auxiliary Contacts			6	6
Approximate Weight		kg lbs	1.18 2.60	1.18 2.60
Minimum Enclosure Size		Height	248 (9-3/4)	248 (9-3/4)
Approximate dimensions in		Width	171 (6-3/4)	197 (7-3/4)
millimeters (inches)		Depth	148 (5-13/16)	148 (5-13/16)
Switch Dimensions Reference (See dimension drawings)			B1	B1

❶ Based on Sprecher + Schuh tests in accordance with the requirements as defined in CSA C22.2 No. 4, IEC 60947-3, UL 1087 and UL 98.

Environmental Data For All L11 Fused and Non-Fused Disconnect Switches

Environmental Ratings		L11-_30A…60A	L11-_100A…1200A ❶
Ambient Temperature			
Open	[°C (F)]	–20…+55 (–4…+131)	–20…+70 (–4…+158)
Enclosed	[°C (F)]	–20…+40 (–4…+104)	–20…+70 (–4…+158)
Storage	[°C (F)]	–40…+65 (–40…+149)	–25…+70 (–13…+158)
Altitude (per IEC 60947-1)	[m]	2,000	2,000
Relative Humidity (per IEC 60947-1)		90% at +20°C (+68°F) 50% at +40°C (+104°F)	90% at +20°C (+68°F) 50% at +40°C (+104°F)

Auxiliary Contact Ratings:	
D7 Contact Ratings	See Section H
L11-1STNONC and L11-2NDNONC	
AC Rating (100mA min. load)	10.1A at 250V AC 1/2 HP at 250V AC 1/4 HP at 125V AC
DC Rating (100mA min. load) DC-13 General use (no HP ratings)	0.5A at 125V DC 0.25A at 250V DC

Standards Compliance

IEC 60947-4-1/EN60947-3
BS EN60947-3
VDE 0660
CSA 22.2 No. 4
NEMA KS-1
UL 98

with L11-SDK2 Handle Kit
UL 98
CSA 22.2 No. 4

Certifications

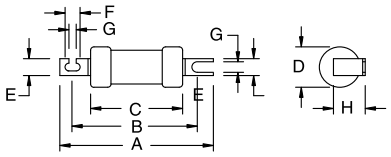
UL Listed (File No. E 47426, Guide WHTY)
CSA Certified (File No. LR1234)
CE
ASTA Certified
LOVAG Certified

with L11-SDK2 Handle Kit
UL Listed (File No. E47426, Guide WHTY)
CSA Certified (File No. LR1234)

CSA HRCII Fuses (sold by others)

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

- CSA fuse type: HRCII-C
- Voltage rating: 600V AC
- Interrupting rating: 200 000 A
- Standard cartridge sizes: 30, & 60 A
- Typical ampere ratings: 1…60 A
- Construction: Blade type for bolted connection
- Can be installed on Bulletin 194R disconnect switch
- Cat. Nos: L11-H30-1753, L11-H60-1753
- Where used: Canada



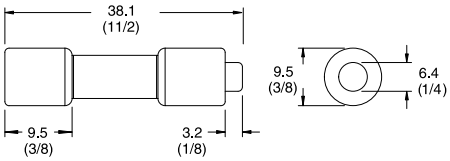
Current Range [A]	A	B	C	D	E	F	G	H	J
0…30	84.14 (3-5/16)	71.04 (2-51/64)	50.8 (2)	20.64 (13/16)	8.73 (11/32)	7.54 (19/64)	5.56 (7/32)	23.81 (15/16)	1.59 (1/16)
31…60	88.9 (3-1/2)	71.04 (2-51/64)	50.8 (2)	20.64 (13/16)	12.7 (1/2)	7.54 (19/64)	5.56 (7/32)	26.99 (1-1/16)	1.59 (1/16)

❶ Derate switch 1% for every 1ºC over 40ºC

CSA HRCI Class CC Fuses (sold by others)

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

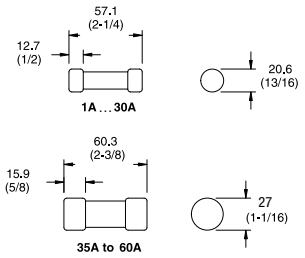
- UL fuse type: Class CC
- CSA fuse type: HRCI-MISC
- Voltage rating: 600V AC
- Interrupting rating: 200 000 A
- Standard cartridge sizes: 30 A
- Typical ampere ratings: 1…30 A
- Construction: Ferrule type
- Can be installed on L11-C30-1753 disconnect switch
- Where used: North America

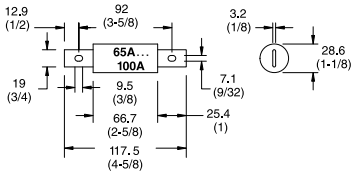


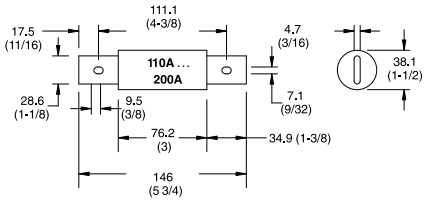
CSA HRCI Class J Fuses (sold by others)

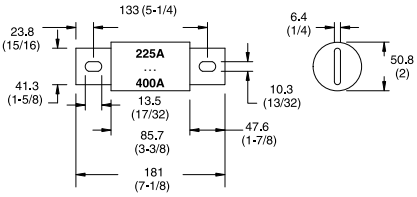
Dimensions in millimeters (inches). Dimensions are not intended to be used for manufacturing purposes.

- CSA fuse type: HRCI-J
- UL fuse type: Class J
- Voltage rating: 600V AC
- Interrupting rating: 200 000 A
- Standard cartridge sizes: 30, 60, 100, 200, and 400 A
- Typical ampere ratings: 1…600 A; Blade type for bolted connection
- Can be installed on L11 disconnect switch
  Cat. Nos: L11-J30…J400-1753
- Where used: North America

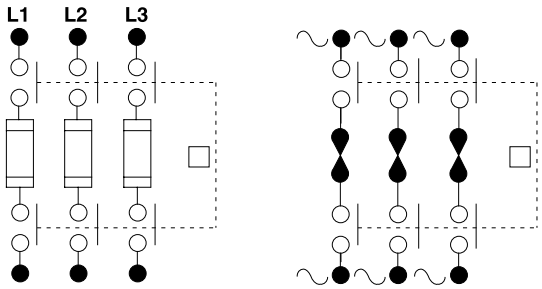
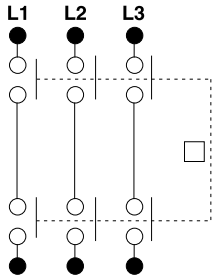
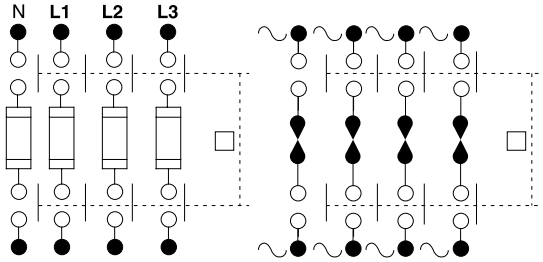






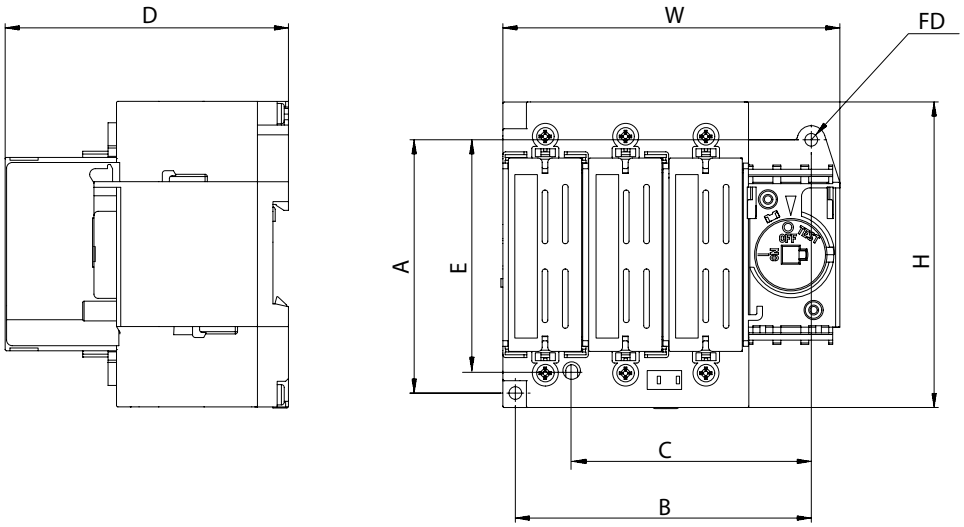


Wiring Diagrams

UL Listed, CSA Certified	Dimension Reference	Circuit
L11-C30-1753 L11-J30-1753 L11-J60-1753 L11-H30-1753 L11-H60-1753	A1 A1 B1 B1 B1	
L11-N30-1753 L11-N60-1753	A2 B2	
L11-✱-1753 + L11-✱-NC/NJ/NH	3-Pole Switch + 4-Pole Module	

L11 Fused and Non-Fused Disconnect Switches (30 & 60A)

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

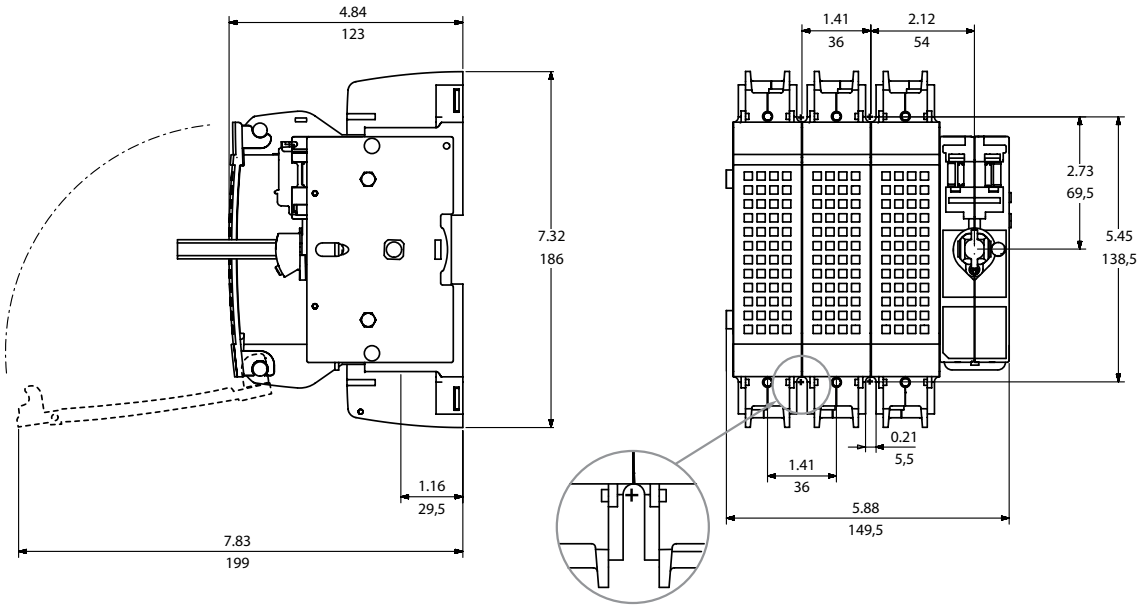


Dimension Reference	Approximate Dimensions in mm (in)							
	H	W	D	A	B	C ❶	E ❶	FD
A1	108 (4-1/4)	120 (4-3/4)	101 (4)	90 (3-9/16)	105 (4-1/8)	85 (3-11/32)	82 (3-15/64)	2-M4, 2-#8
A2	108 (4-1/4)	120 (4-3/4)	80 (3-1/8)	90 (3-9/16)	105 (4-1/8)	85 (3-11/32)	82 (3-15/64)	2-M4, 2-#8
B1	113 (4-29/64)	142 (5-19/32)	114 (4-31/64)	100 (3-15/16)	120 (4-23/32)	N/A	N/A	4-M4, 4-#8
B2	113 (4-29/64)	142 (5-19/32)	93 (3-43/64)	100 (3-15/16)	120 (4-23/32)	N/A	N/A	4-M4,4-#8

❶ Mounting holes are backward compatible with L10 Disconnect Switches

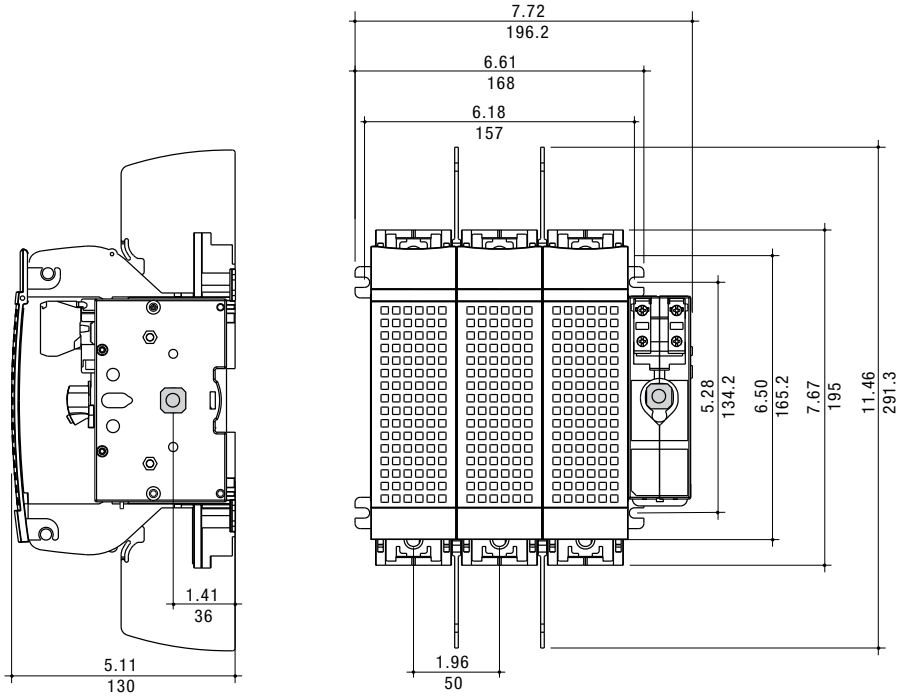
L11 Fused Disconnect Switches (100A)

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



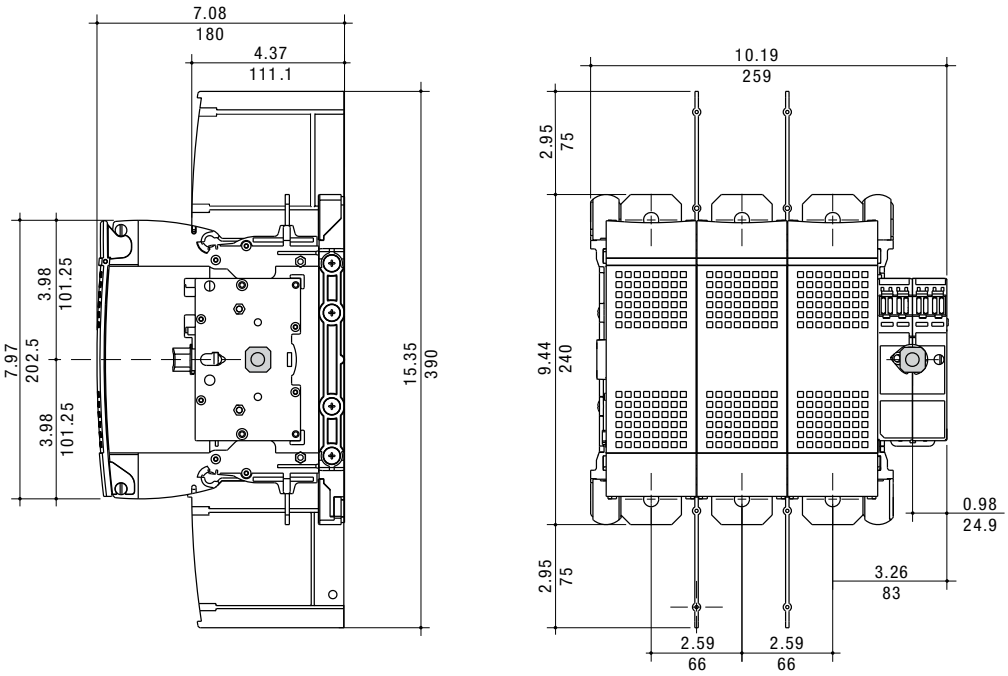
(4) 5.5mm (0.218") mounting slots
hardware supplied by others

L11 Fused Disconnect Switches (200A)

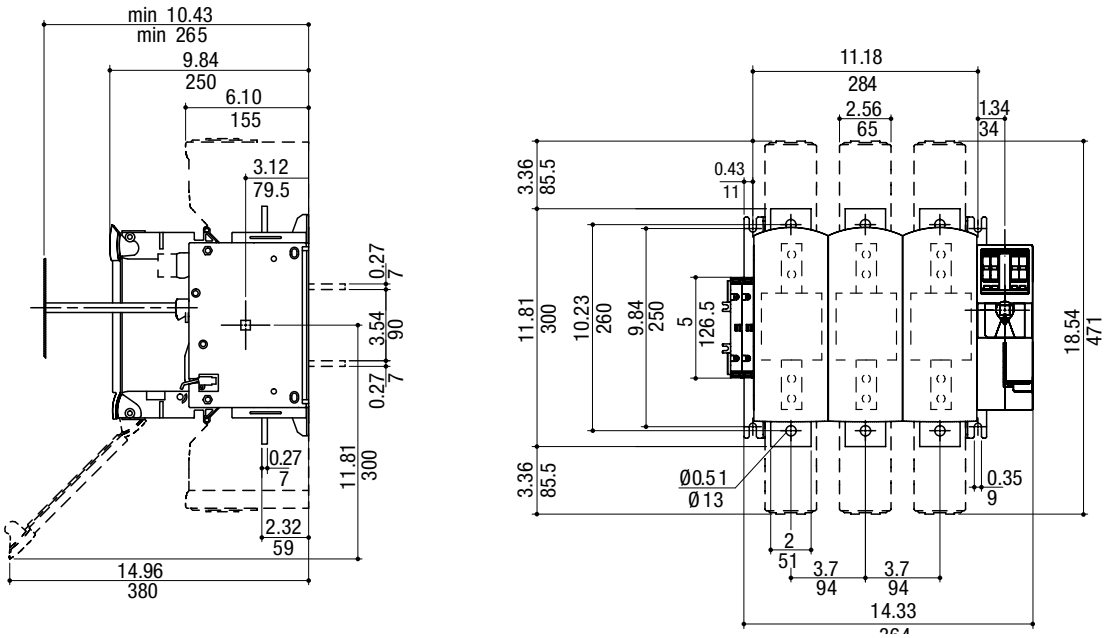


L11 Fused Disconnect Switches (400A)

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

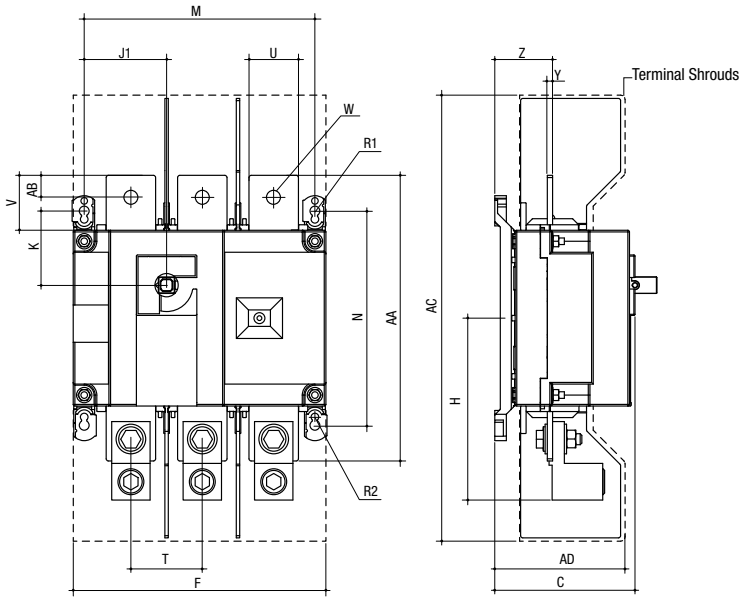


L11 Fused Disconnect Switches (600…800A)



L11 Non-Fused Disconnect Switches (100…400A)

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

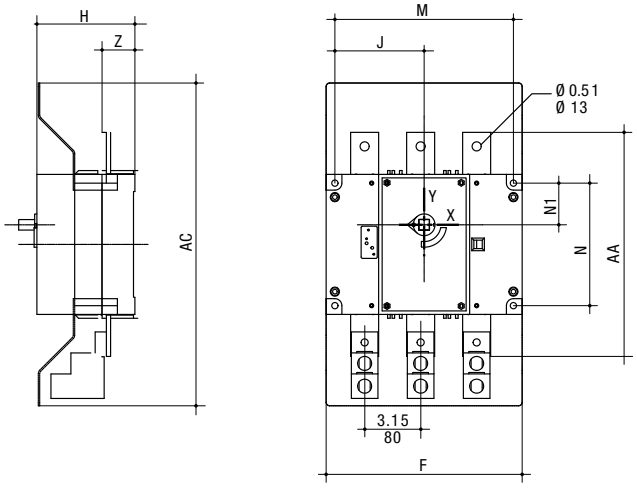


L11-N…	Dim. Ref.	Approximate Dimensions in mm (in)													
		Overall	Terminal Shrouds		Switch Body						Switch Mounting				
		C	AC	AD	F (3-pole)	F (4-pole)	H	J1 (3-pole)	J1 (4-pole)	K	M (3-pole)	M (4-pole)	N	R1	R2
100	F1	94.6 (3.72)	256 (10.1)	77.5 (3.05)	180 (7.09)	230 (9.06)	107 (4.22)	55 (2.17)	105 (4.13)	45.6 (1.8)	160 (6.3)	210 (8.7)	135 (5.31)	9 (0.35)	7 (0.27)
200		94.6 (3.72)	256 (10.1)	77.5 (3.05)	180 (7.09)	230 (9.06)	107 (4.22)	55 (2.17)	105 (4.13)	45.6 (1.8)	160 (6.3)	210 (8.7)	135 (5.31)	9 (0.35)	7 (0.27)
400	F2	128 (4.92)	406 (16)	115 (4.15)	230 (9.05)	290 (11.4)	166 (6.53)	75 (2.95)	135 (5.31)	67.5 (2.65)	210 (8.26)	270 (10.6)	195 (7.67)	9 (0.35)	7 (0.27)

L11-N…	Dim. Ref.	Approximate Dimensions in mm (in)							
		Connection							
		T	U	V	W	Y	Z	AA	AB
100	F1	50 (1.97)	25 (0.98)	30 (1.18)	11 (0.43)	3.5 (0.14)	34.4 (0.14)	160 (6.3)	15 (0.6)
200		50 (1.97)	25 (0.98)	30 (1.18)	11 (0.43)	3.5 (0.14)	34.4 (0.14)	160 (6.3)	15 (0.6)
400	F2	65 (2.56)	45 (1.77)	50 (1.97)	13 (0.51)	5 (0.2)	53 (2.08)	260 (10.2)	20 (0.8)

L11 Non-Fused Disconnect Switches (600A)

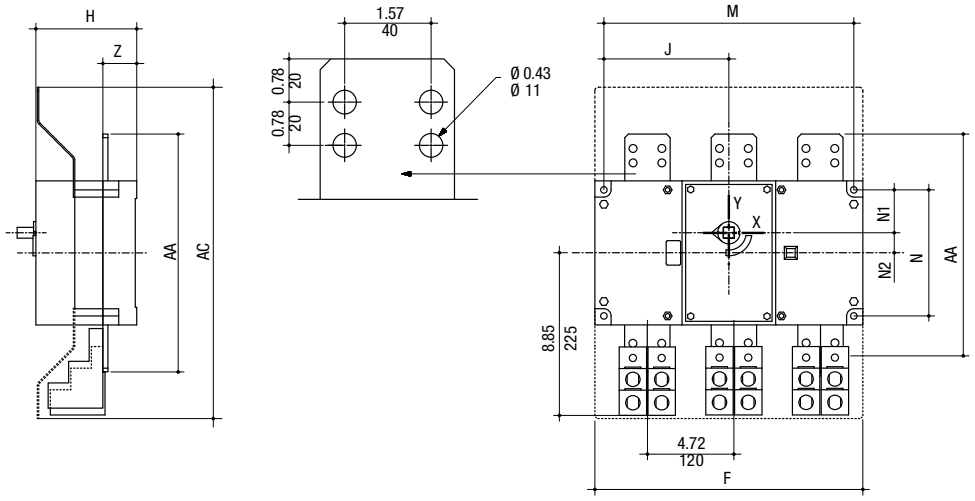
Dimensions are in millimeters (inches). Dimensions not intended for manufacturing purposes.



		Approximate Dimensions in mm (in)											
		Terminal Shrouds	Switch Body					Switch Mounting				Connection	
L11-N…	Dim. Ref.	AC	F (3-pole)	F (4-pole)	H	J (3-pole)	J (4-pole)	M (3-pole)	M (4-pole)	N	N1	AA	Z
600	F3	460 (18.12)	280 (11)	360 (14.17)	140 (5.5)	127.5 (5)	167.5 (6.59)	255 (10.03)	335 (13.19)	175 (6.88)	59.5 (2.34)	320 (12.6)	47 (1.85)

L11 Non-Fused Disconnect Switches (800…1200A)

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



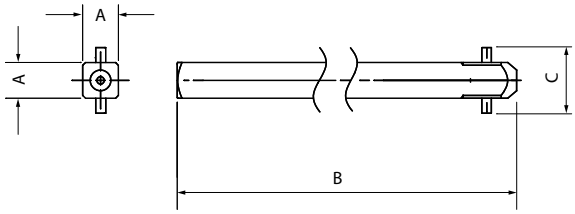
		Approximate Dimensions in mm (in)											
		Terminal Shrouds	Switch Body					Switch Mounting				Connection	
L11-N…	Dim. Ref.	AC	F (3-pole)	F (4-pole)	H	J (3-pole)	J (4-pole)	M (3-pole)	M (4-pole)	N	N1	AA	Z
800	F4	460 (18.12)	372 (14.64)	492 (19.37)	140 (5.5)	173.5 (6.83)	233.5 (9.19)	347 (13.66)	467 (18.38)	175 (6.88)	59.5 (2.34)	330 (13)	47 (1.85)
1200		460 (18.12)	372 (14.64)	492 (19.37)	140 (5.5)	173.5 (6.83)	233.5 (9.19)	347 (13.66)	467 (18.38)	175 (6.88)	59.5 (2.34)	330 (13)	47 (1.85)

L11 Metal Operating Shaft Dimensions

L11-S1..S2

L11-R7..R8

L11-R9..R12

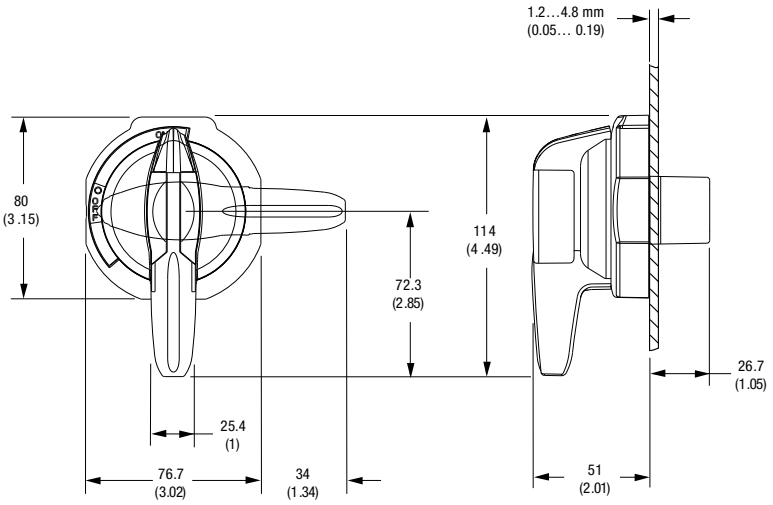


Typical View

Catalog Number	A [2] mm (in)	B mm (in)	C mm (in)
L11-S1	6.35 (0.238)	305 (12)	
L11-S2	6.35 (0.238)	533 (21)	
L11-R7	10 (0.39)	320 (12.6)	~
L11-R8	10 (0.39)	580 (22.8)	~
L11-R9	12 (0.47)	320 (12.6)	22 (0.87)
L11-R10	12 (0.47)	560 (22)	22 (0.87)
L11-R11	12 (0.47)	320 (12.6)	22 (0.87)
L11-R12	12 (0.47)	560 (22)	22 (0.87)

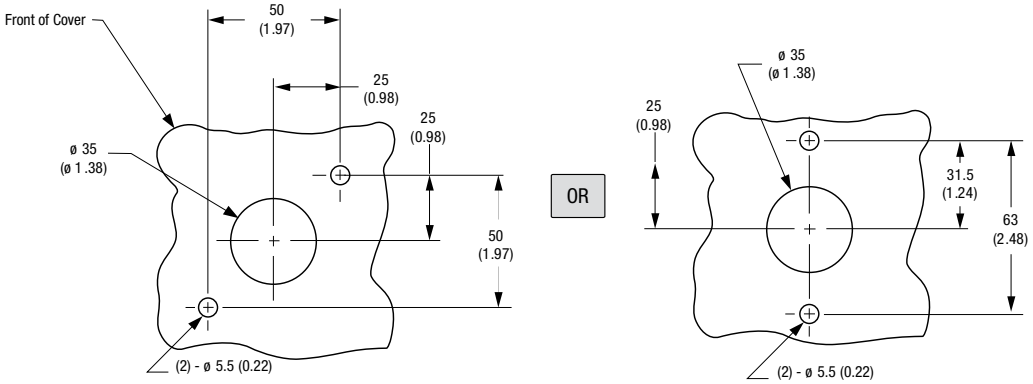
L11-P*/L11-P*T Operating Handles

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

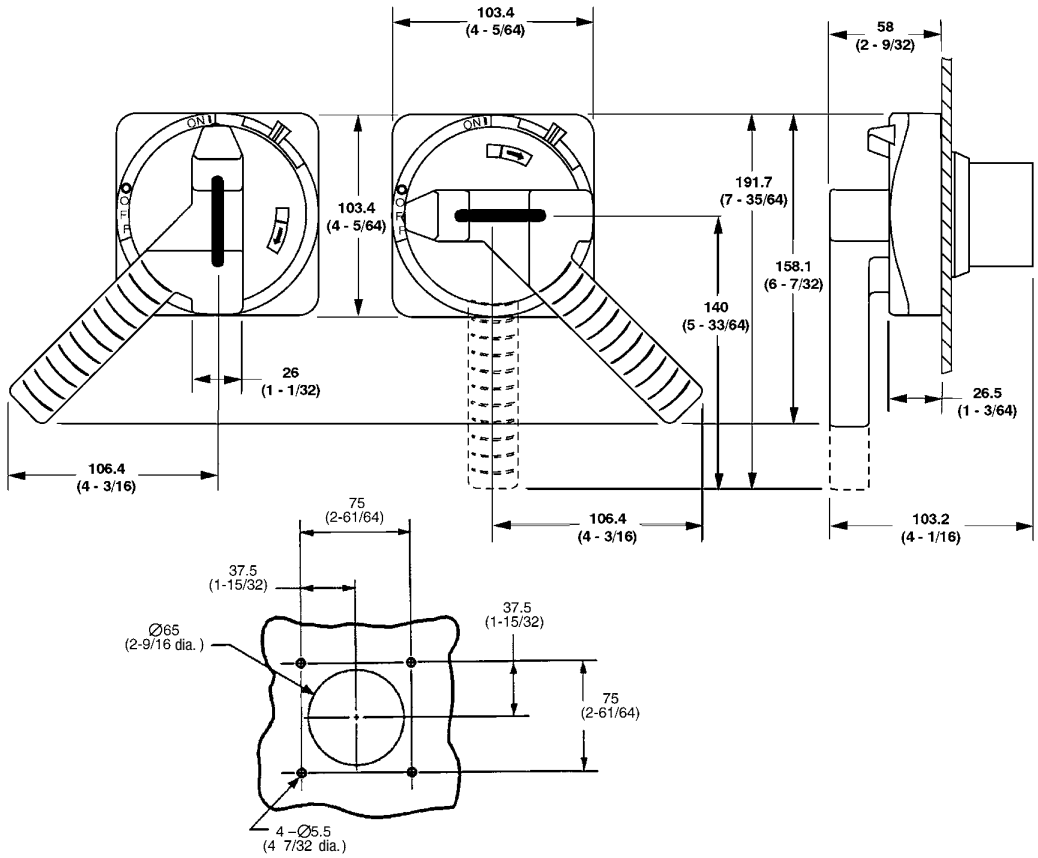


Front

Right Side

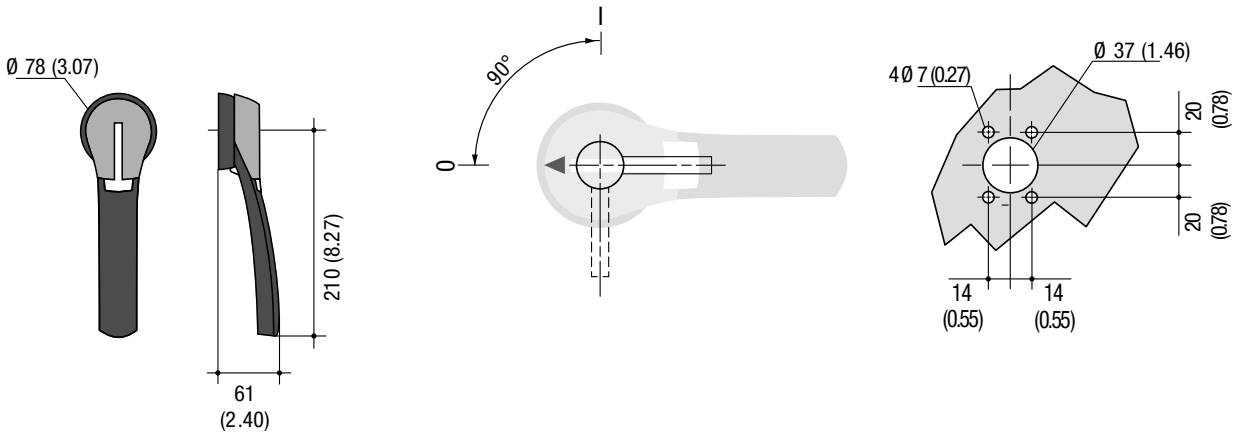


L10-HM4/HM4E Operating Handles



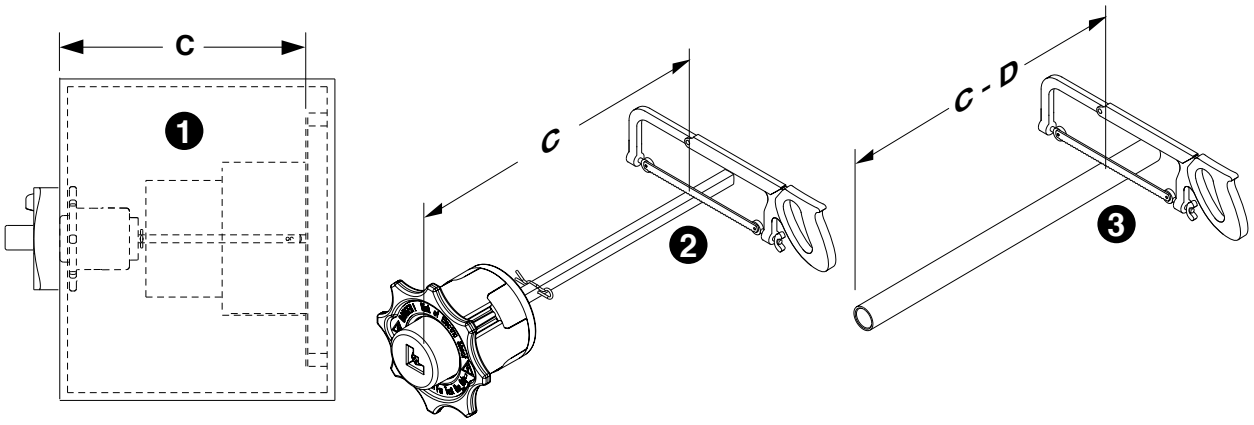
Operating Handles — Cat. No. L10-HM4, -HM4E

L11-HM4*-L/-N2-L Operating Handles



L11-N1 & L11-N2 Operating Handle (30 & 60A)

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

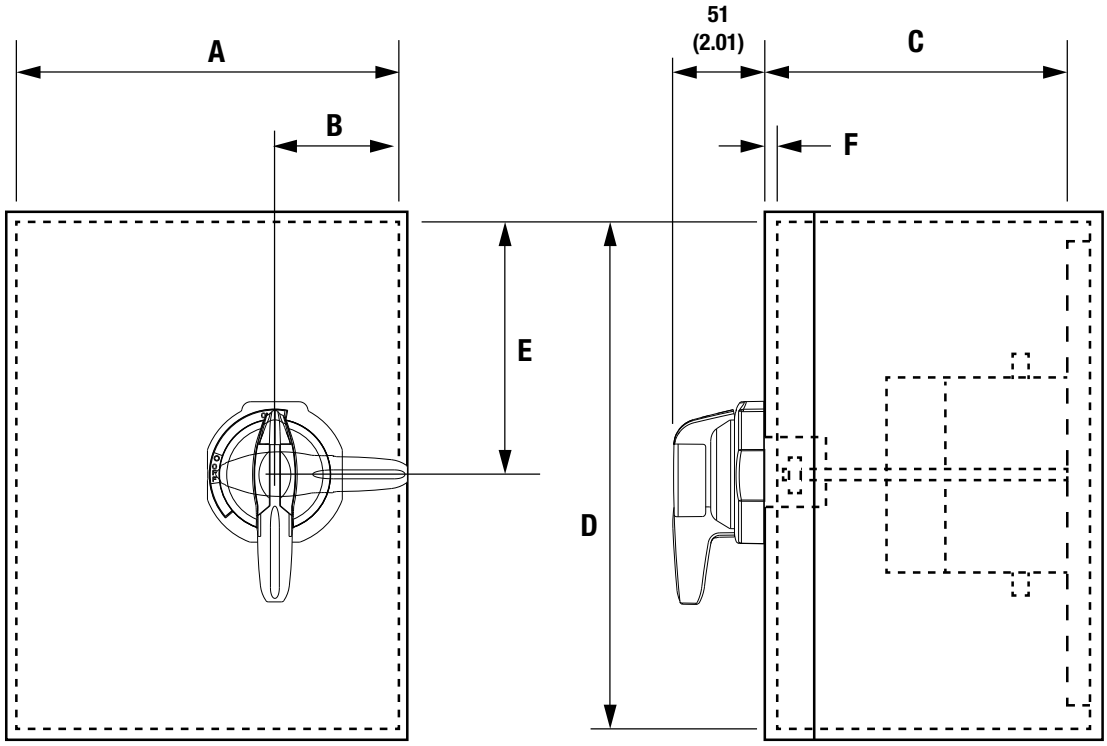


Next Generation L11		
Disconnect	**C**	**D**
L11-N30-_ _	≥ 165 mm 6.5 in	155 mm 6.0 in
L11-B20-_ _ L11-B32-_ _ L11-C30-_ _ L11-F25-_ _ L11-F32-_ _ L11-J30-_ _	≥ 190 mm 7.5 in	
L11-N60-_ _	≥ 180 mm 7.0 in	170 mm 6.75 in
L11-B63-_ _ L11-D32-_ _ L11-D63-_ _ L11-F63-_ _ L11-H30-_ _ L11-H60-_ _ L11-J60-_ _	≥ 205 mm 8.0 in	

Legacy L10		
Disconnect	**C**	**D**
L10-NN030_ _	≥ 170 mm 6.75 in	140 mm 5.5 in
L10-NC030_ _ L10-NJ030_ _ L10-NA100_ _ L10-NA200_ _	≥ 210 mm 8.25 in	
L10-NN060_ _	≥ 170 mm 6.75 in	115 mm 4.5 in
L10-NJ060_ _ L10-NA300_ _	≥ 210 mm 8.25 in	

L11 Enclosure and Operating Handle Dimensions

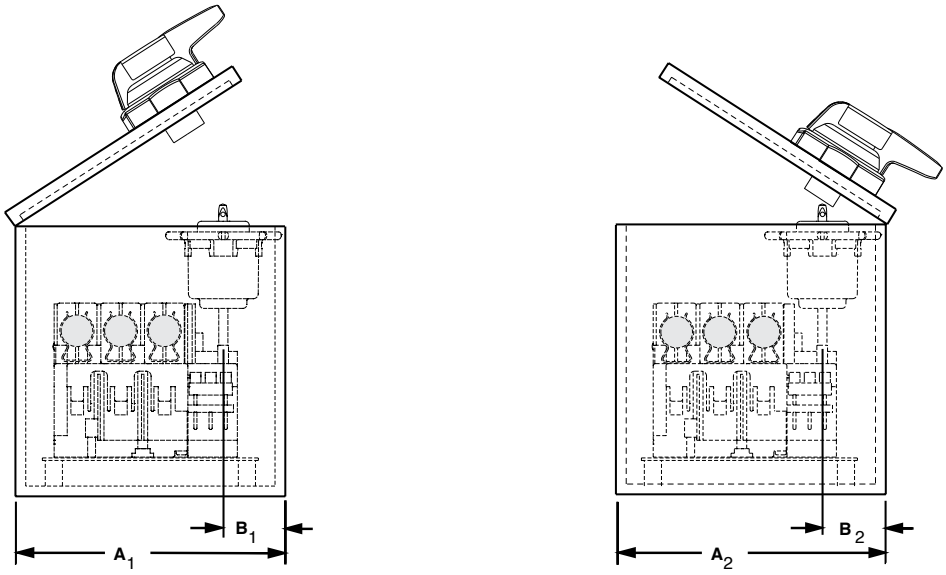
Dimensions are in millimeters (inches). Dimensions not intended for manufacturing purposes.

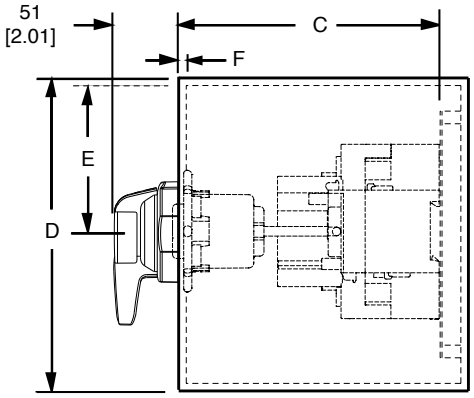


Catalog Number	Dimension Reference	A	B	C		D	E	F	
		Maximum	Minimum	Minimum	Maximum	Minimum	Minimum	Minimum	Maximum
L11-C30-1753 **L11-J30-1753**	A1	171 (6-3/4)	45 (1-49/64)	147.6 (5-13/16)	454 (17-7/8)	248 (9-3/4)	89 (3-1/2)	1.4 (1/16)	4/78 (3/16)
L11-N30-1753	A2	171 (6-3/4)	45 (1-49/64)	111 (4-3/8)	454 (17-7/8)	248 (9-3/4)	89 (3-1/2)	1.4 (1/16)	4/78 (3/16)
L11-J60-1753 **L11-H30-1753** **L11-H60-1753**	B1	197 (7-3/4)	45 (1-49/64)	147.6 (5-13/16)	454 (17-7/8)	248 (9-3/4)	105 (4-9/64)	1.4 (1/16)	4/78 (3/16)
L11-N60-1753	B2	197 (7-3/4)	45 (1-49/64)	111 (4-3/8)	454 (17-7/8)	248 (9-3/4)	105 (4-9/64)	1.4 (1/16)	4/78 (3/16)

L11 Enclosure Installation Dimensions

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

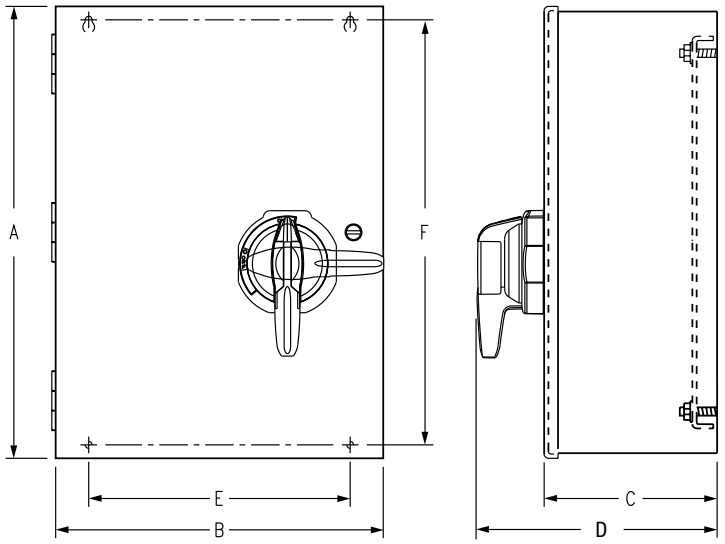




Catalog Number	Dimension Reference	A1 Min.	A2 Min.	B Min.	B Min.	C Min.	C Max.	D Min.	E Min.	F Min.	F Max.
L11-C30-1753 **L11-J30-1753**	A1	171 (6/3-4)	203 (7-63/64)	45 (1-49/64)	76 (3)	178 (7)	454 (17-7/8)	248 (9-3/4)	89 (3-1/2)	1.4 (1/16)	4.78 (3/16)
L11-N30-1753	A2	171 (6-3/4)	203 (7-63/64)	45 (1-49/64)	76 (3)	178 (7)	454 (17-7/8)	248 (9-3/4)	89 (3-1/2)	1.4 (1/16)	4/78 (3/16)
L11-J60-1753 **L11-H30-1753** **L11-H60-1753**	B1	197 (7-3/4)	228 (8-63/64)	45 (1-49/64)	76 (3)	178 (7)	454 (17-7/8)	248 (9-3/4)	105 (4-9/64)	1.4 (1/16)	4.78 (3/16)
L11-N60-1753	B2	197 (7-3/4)	228 (8-63/64)	45 (1-49/64)	76 (3)	178 (7)	454 (17-7/8)	248 (9-3/4)	105 (4-9/64)	1.4 (1/16)	4.78 (3/16)

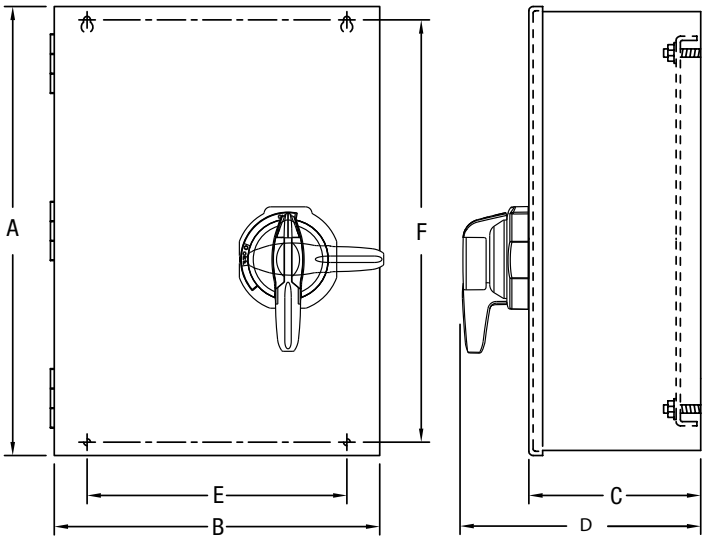
Type 3/4/12 - Watertight, Dusttight Sheet Metal Enclosure (30 & 60A)

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



Amps	Type	Dim. Ref.	A	B	C	D	E	F
30	Fused & Non-fused	A1, A2	305 (12.00)	305 (12.00)	173 (6.80)	224 (8.81)	267 (10.5)	267 (10.5)
60	Fused & Non-fused	B1, B2	305 (12.00)	305 (12.00)	173 (6.80)	224 (8.81)	267 (10.5)	267 (10.5)

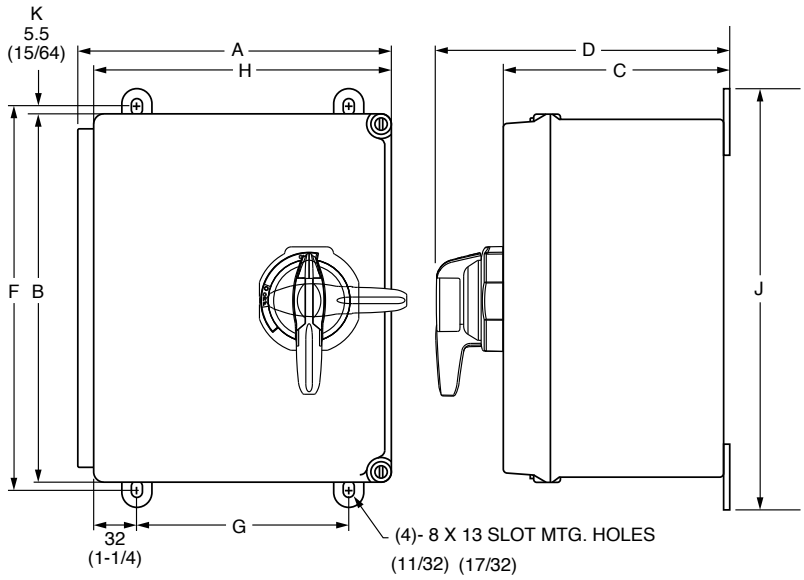
Type 4/4X Watertight, Corrosion-Resistant Stainless Steel Enclosure (30 & 60A)



Amps	Type	Dim. Ref.	A	B	C	D	E	F
30	Fused & Non-fused	A1, A2	305 (12.00)	305 (12.00)	173 (6.80)	224 (8.81)	267 (10.5)	267 (10.5)
60	Fused & Non-fused	B1, B2	305 (12.00)	305 (12.00)	173 (6.80)	224 (8.81)	267 (10.5)	267 (10.5)

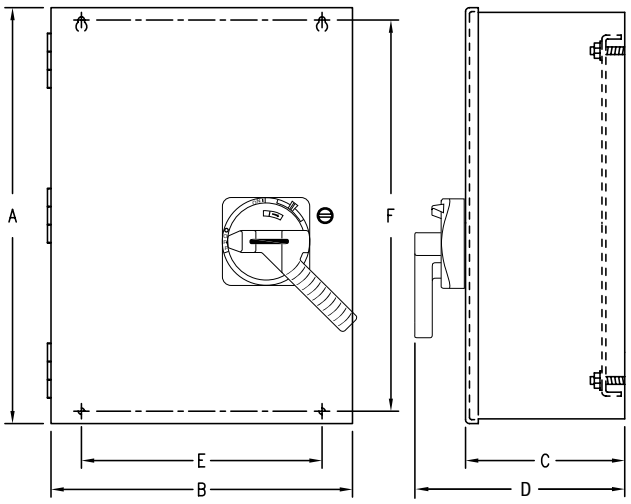
Type 4/4X - Corrosion Resistant Non-Metallic Enclosure (30 & 60A)

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



Amps	Type	Dim. Ref.	A	B	C	D	F	G	H	J	K
30 & 60	Fused & Non-Fused	A1 & A2 B1 & B2	226 (8.92)	267 (10.52)	163 (6.42)	214 (8.43)	278 (10.95)	152 (8.0)	216 (8.50)	305 (12.0)	6 (0.23)

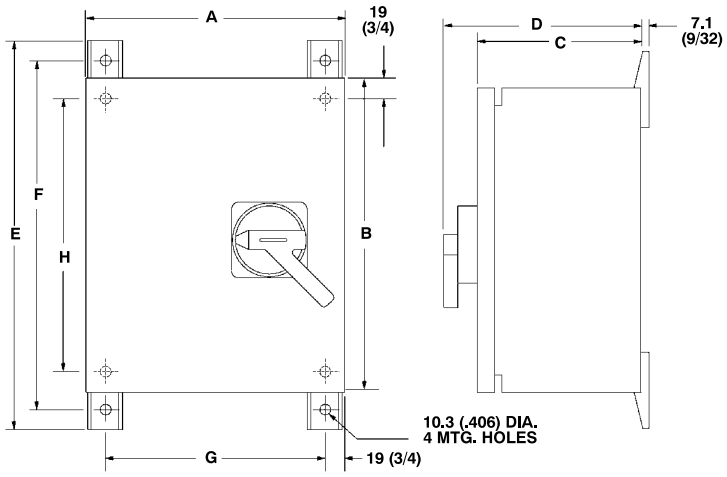
Type 4/12 Metallic and Type 4/4X Stainless Steel Enclosure (100A)



Amps	Type	Dim. Ref.	A	B	C	D	E	F
100	Fused & Non-fused	C1	406 (16.00)	406 (16.00)	224 (8.80)	282 (11.10)	368 (14.5)	368 (14.5)

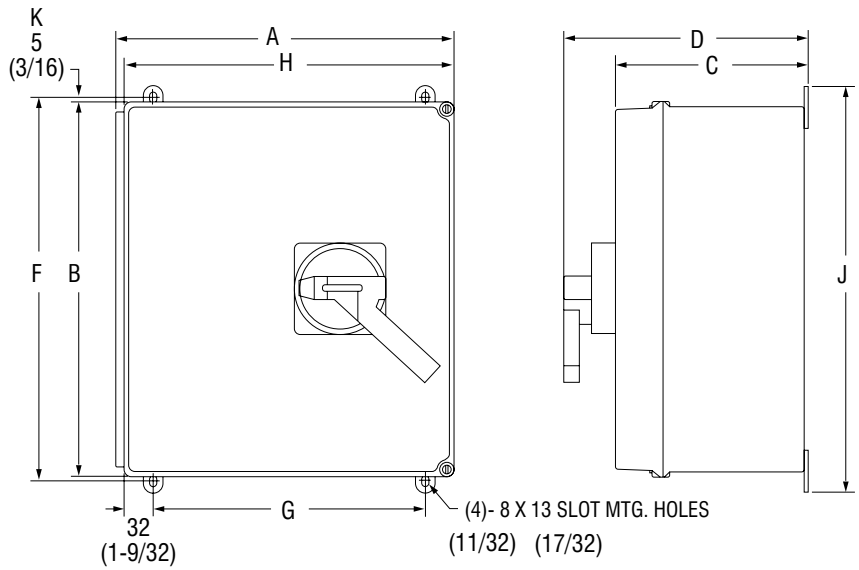
Type 4/12 Metallic and Type 4/4X Stainless Steel Enclosure (200 & 400A)

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



Amps	Type	Dim. Ref.	A	B	C	D	E	F	G	H
200	Fused & Non-Fused	D1	406 (16)	610 (24)	224 (8-51/64)	282 (11-5/64)	688 (27-5/64)	650 (25-19/32)	368 (14-1/2)	572 (22-1/2)
400	Fused & Non-Fused	F1	610 (24)	762 (30)	326 (12-51/64)	384 (15-5/64)	840 (33-5/64)	802 (31-15/32)	572 (22-1/2)	724 (28-1/2)

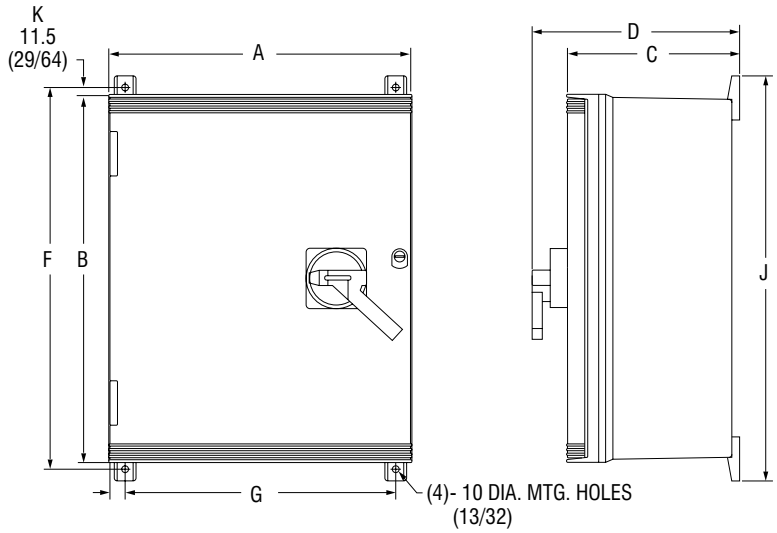
Type 4/4X Corrosion Resistant Non-Metallic Enclosure (100A)



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

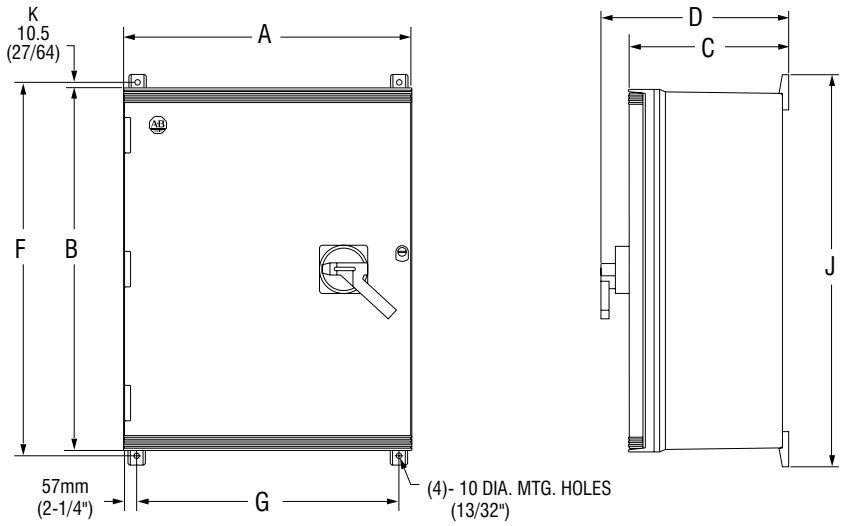
Type 4/4X Corrosion Resistant Non-Metallic Enclosure (200A)

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



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

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



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