

North American Watertight Mechanical Interlock Devices

- Listed to UL 231 and UL 1686, CE Approved
- Certified to CSA Standard C22.2 number 182.1
- Switches are listed to UL 508 and CSA C22.2-14
- IEC Classified to Standards 309-1 and 309-2 for both North American and International rated voltages and services



Materials

20 and 30 AMP Devices

PART	MATERIAL
Housing Cover	Valox 357
Housing Base	Valox 357
Cover with Arm	Valox 357
Locking Ring	Valox 357
Cover Arm Eyelet	Nickel-Plated Brass
Housing Gasket	Solid Neoprene
Sealing Gasket	Solid Neoprene
Handle	Valox 357
Actuator Shaft	Valox 357
Locking Mechanism	Zinc-Coated Steel
Contact Carrier	Nylon
Phase and Ground Sleeves	Brass
Ground Contact	Brass
Conduit Grounding Plate	Zinc-Coated Steel
Conduit Hub★	Die-Cast Zinc
Switch Terminal Block	Phenolic-Malamine
Switch Terminal Contacts	Brass
Internal Screws	Zinc-Coated Steel
Housing Screws	Stainless Steel

Additional Components for 60 AMP Devices

PART	MATERIAL
Ground Bus	Brass
Neutral Bus	Brass
Actuator Shaft	Zinc-Coated Steel
Contact Carrier	Reinforced Nylon
Conduit Hub (1½")	Die-Cast Zinc

Additional Components for 100 AMP Devices

PART	MATERIAL
Ground Terminal	Plated Brass/Steel
Ground Terminal Block	Nylon
Neutral Terminal	Plated Brass/Steel
Neutral Terminal Block	Nylon
Terminal Shaft Key	Die-Cast Aluminum
Actuator Shaft	Zinc-Coated Steel
Contact Carrier	Reinforced Nylon
Conduit Hub (2")	Die-Cast Zinc

20 Amp ¾"; 30 Amp 1"★

Performance Specifications

Electrical

	Device	Current Applied	Duration
Ground Path Integrity	20 A	40 A	2 min
	30 A	60 A	2 min
	60 A	120 A	4 min
	100 A	200 A	6 min
Current Interrupting	Certified for current interrupting at full-rated current and voltage		
Endurance	6000 operations at rated current and voltage (Power factor 0.75 – 0.80)		
Dielectric	1000 V plus twice rated voltage for 1 minute		

Mechanical

Mold Stress Relief	70°C for 7 hours
Knockout Test	Remains in place with 20 lb push
Crush	100 lb
Impact	1.2 lb steel ball dropped from 5 ft
Cold Impact	Same as above, after conditioning to -35°C
Strength of Insulating Base and Support	110% of specified tightening torque on terminal screws
Pullout	18 lb pull on internal wires

Environmental

Flammability	V2 or better per UL 94 or CSA 22.2 No 0.6; VO for watertight enclosure
Rain (3R)	Water spray @ 5 psi from all sides for 1 hr
Hosedown (4X)	Water spray @ 65 gal/min for 5 minutes
Gasket Aging	70°C for 168 hours
UV Resistance	Exposed plastic materials are UV stabilized
Operating Temperature	-40°C to +60°C (-40°F to +140°F)
Icing	Switch operational and enclosure undamaged with ¾" ice accumulation

Dimensions for Valox Mechanical Interlock Receptacles

20 AMP Valox

	A	B	C	D	E	*ØF	G	H	J	K	ØL
inch	6.61	4.92	3.70	4.96	6.32	0.26	6.94	5.72	7.77	6.55	0.33
mm	168	125	94	126	161	6.5	176	145	197	166	8.4

30 AMP Valox

	A	B	C	D	E	*ØF	G	H	J	K	ØL
inch	6.61	4.92	3.70	5.35	6.46	0.26	6.94	5.72	7.77	6.55	0.33
mm	168	125	94	136	164	6.5	176	145	197	166	8.4

60 AMP Valox

	A	B	C	D	E	*ØF	G	H	J	K	ØL
inch	8.11	5.98	5.20	7.17	7.77	0.26	8.00	7.22	8.83	8.05	0.33
mm	206	152	132	182	197	6.5	203	183	224	204	8.4

100 AMP Valox

	A	B	C	D	E	*ØF	G	H	J	K	ØL
inch	9.06	8.03	17.32	9.45	21.00	0.26	10.05	19.34	10.88	20.17	0.33
mm	230	204	440	240	533	6.5	255	491	276	512	8.4

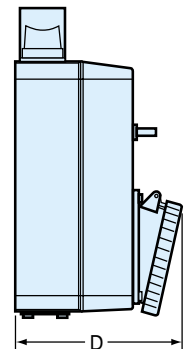
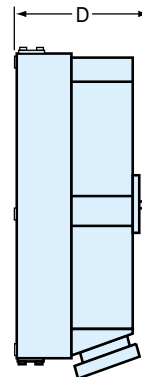
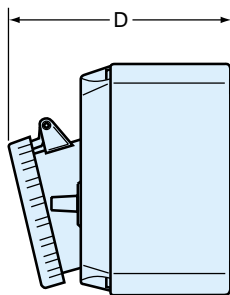
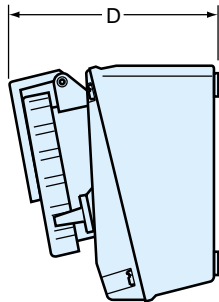
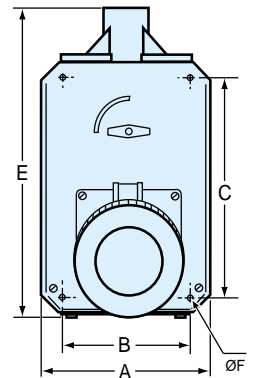
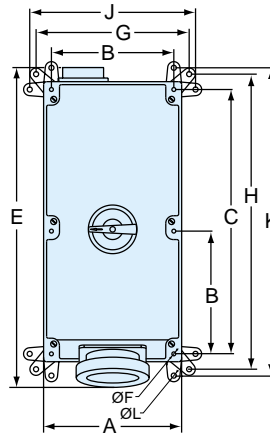
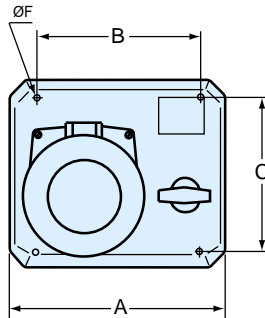
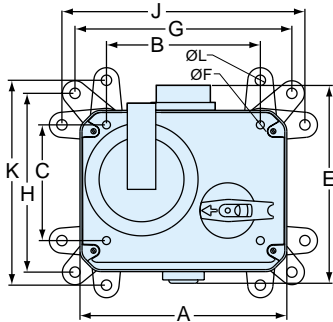
Dimensions for Cast Aluminum Mechanical Interlock Receptacles

60 AMP Cast Aluminum

	A	B	C	D	E	*ØF	G	H	J	K	ØL
inch	6.50	5.79	6.89	7.20	11.73	0.22	—	—	—	—	—
mm	165	147	175	183	298	5.5	—	—	—	—	—

*ØF shows the diameter of the mounting hole on bottom of the enclosure.

Note: 20A watertight 3/4" NPT threaded hub provided
 30A watertight 1" NPT threaded hub provided
 60A watertight 1 1/2" NPT threaded hub provided
 100A watertight 2" NPT threaded hub provided
 60A splashproof 1 1/4" NPT threaded hub provided



20A, 30A VALOX MI RECEPTACLE

60A VALOX MI RECEPTACLE

100A VALOX MI RECEPTACLE

60A CAST ALUMINUM MI RECEPTACLE



360MI7W



330MI6W

Mechanical Interlock Receptacles

IP 67 Watertight Devices (Valox)

AMPS	WIRING	VOLTAGE AC	RECEPTACLE CONFIG.	PLUG CONFIG.	MECHANICAL INTERLOCK	HORSEPOWER RATING	USE PLUG CAT. NO.
20	2p3w	240			320MI6W	5	320P6W
	2p3w	480			320MI7W	10	320P7W
	3p4w	125/250			420MI12W	5	420P12W
	3p4w	3Ø240			420MI9W	10	420P9W
	3p4w	3Ø480			420MI7W	20	420P7W
	3p4w	3Ø600			420MI5W	30	420P5W
	4p5w	3ØY120/208			520MI9W	10	520P9W
	4p5w	3ØY277/480			520MI7W	20	520P7W
	4p5w	3ØY347/600			520MI5W	30	520P5W
30	2p3w	240			330MI6W	5	330P6W
	2p3w	480			330MI7W	10	330P7W
	3p4w	125/250			430MI12W	5	430P12W
	3p4w	3Ø240			430MI9W	10	430P9W
	3p4w	3Ø480			430MI7W	20	430P7W
	3p4w	3Ø600			430MI5W	30	430P5W
	4p5w	3ØY120/208			530MI9W	10	530P9W
	4p5w	3ØY277/480			530MI7W	20	530P7W
	4p5w	3ØY347/600			530MI5W	30	530P5W
60	2p3w	240			360MI6W	7.5	360P6W
	2p3w	480			360MI7W	20	360P7W
	3p4w	125/250			460MI12W	15	460P12W
	3p4w	3Ø240			460MI9W	15	460P9W
	3p4w	3Ø480			460MI7W	30	460P7W
	3p4w	3Ø600			460MI5W	40	460P5W
	4p5w	3ØY120/208			560MI9W	15	560P9W
	4p5w	3ØY277/480			560MI7W	30	560P7W
	4p5w	3ØY347/600			560MI5W	40	560P5W

Features and Benefits

IP 67 Watertight Mechanical Interlock Receptacles

- Made of rugged Valox 357; carry NEMA 4X and 12K enclosure rating
- 20 & 30 Amp receptacles have nylon contact carrier; 60 & 100 Amp receptacles have reinforced contact carrier
- Versatile lockout/tagout switch handles meet OSHA regulations
- Color-coded spring-loaded lift covers for easy voltage rating identification
- Equipped with grounding terminal plate
- Interlock mechanism prevents live make-break
- Horsepower rated disconnect switch handles large motor loads
- All devices have factory-installed auxiliary contacts

IP 44 Splashproof Mechanical Interlock Receptacles

- Made of sturdy cast aluminum; carry NEMA 3R enclosure rating
- Horsepower rated disconnect switch is designed for heavy duty performance
- Interlock mechanism prevents live make-break
- Versatile devices have a lockout/tagout switch handle
- Equipped with grounding terminal plate
- Color-coded locking cover for easy identification of voltage
- Collar has 1 1/4" NPT threaded hub



5100MI5W

Mechanical Interlock Receptacles

IP 67 Watertight Devices (Valox)

AMPS	WIRING	VOLTAGE AC	RECEPTACLE CONFIG.	PLUG CONFIG.	MECHANICAL INTERLOCK	HORSEPOWER RATING	USE PLUG CAT. NO.
100	2p3w	240			3100MI6W	15	3100P6W
	2p3w	480			3100MI7W	30	3100P7W
	3p4w	125/250			4100MI12W	*	4100P12W
	3p4w	3Ø240			4100MI9W	25	4100P9W
	3p4w	3Ø480			4100MI7W	50	4100P7W
	3p4w	3Ø600			4100MI5W	60	4100P5W
	4p5w	3ØY120/208			5100MI9W	20	5100P9W
	4p5w	3ØY277/480			5100MI7W	50	5100P7W
	4p5w	3ØY347/600			5100MI5W	60	5100P5W

*Consult our sales office for your specific application.

IP 44 Splashproof Devices (Cast Aluminum)

AMPS	WIRING	VOLTAGE AC	RECEPTACLE CONFIG.	PLUG CONFIG.	MECHANICAL INTERLOCK	HORSEPOWER RATING	USE PLUG CAT. NO.
60	3p4w	125/250			460MI2S	15	460P12W
	3p4w	3Ø240			460MI9S	15	460P9W
	3p4w	3Ø480			460MI7S	30	460P7W
	3p4w	3Ø600			460MI5S	40	460P5W
	4p5w	3ØY120/208			560MI9S	15	560P9W
	4p5w	3ØY277/480			560MI7S	30	560P7W
	4p5w	3ØY347/600			560MI5S	40	560P5W