

powerswitch™

## MS4X Non-Fused Manual Motor Starters in Type 4X Enclosure

Suitable as Motor Disconnect  
Watertight and Dust-tight for Industrial Applications



### New Compact, Heavy Duty, Type 4X Enclosed Motor Disconnect Switch

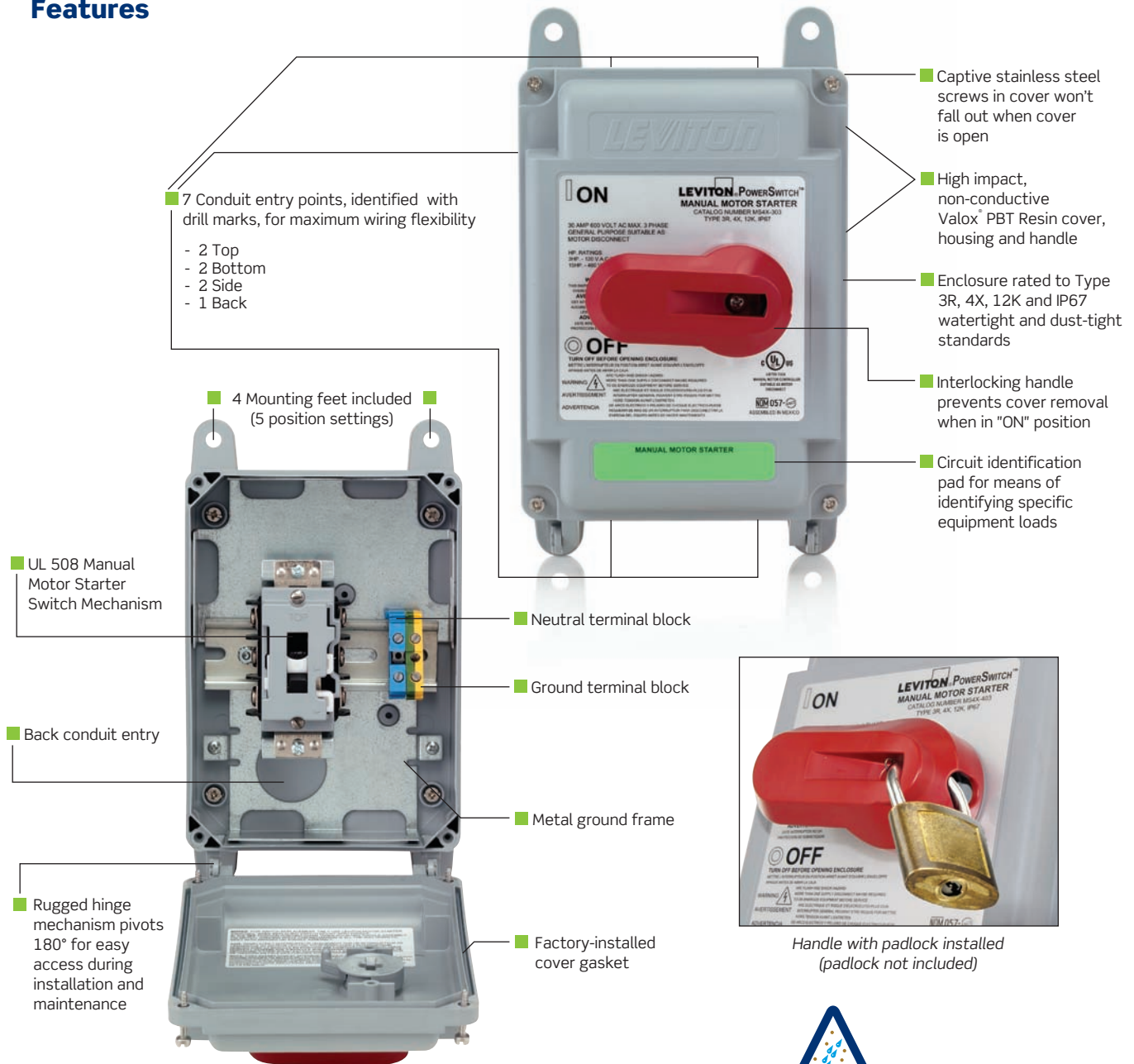
The new Powerswitch MS4X Series of enclosed motor starter disconnect rated switches are the ideal choice for process environments with non-ignitable particulate laden air, in areas requiring frequent water washdowns or in outdoor exposure.

- Available in pre-assembled 30A & 40A Versions
- UL Type 4X Non-Metallic Enclosure
- IP67 "Watertight" Rated
- UL 508 Listed Manual Motor Controller
- Field Replaceable Switches
- Meets OSHA Lockout/Tagout Requirements
- Compact design saves space and provides for easier installation

Leviton's Powerswitch MS4X devices comply with NEC® Article 430's requirement for providing individual disconnecting means for a controller and motor within the line of sight of motor and controller location. The Type 4X enclosure makes the MS4X ideal for use in harsh environments, indoor or outdoor.

NEC and National Electric Code are registered trademarks of the National Fire Protection Agency

## Features

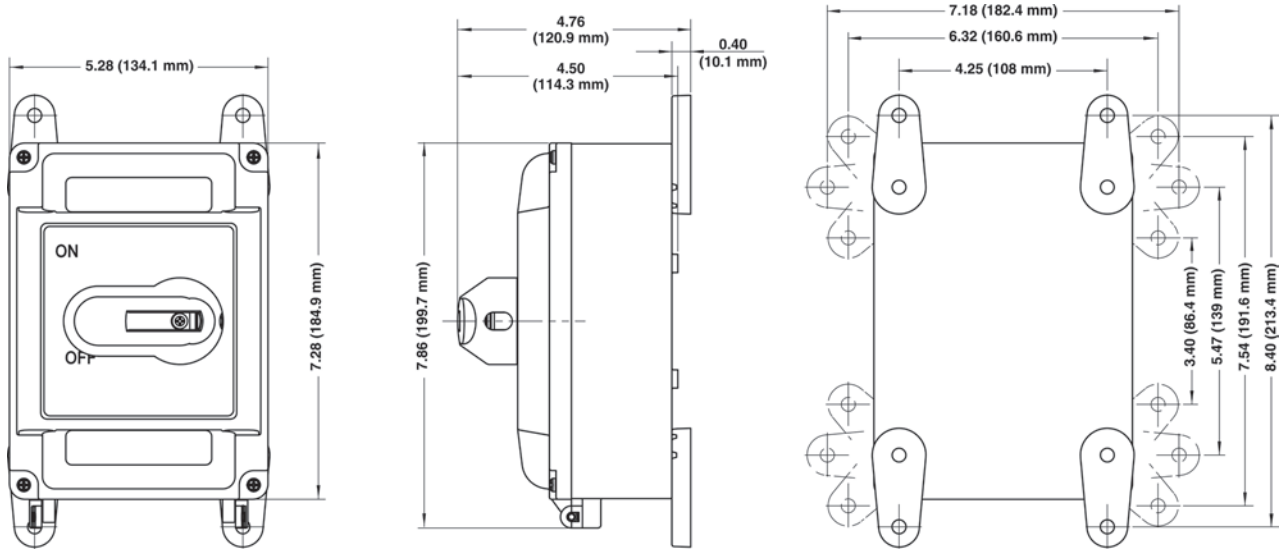


## Ordering Information

Cat. No.	Description	Amp.	Poles	Volt.	HP
MS4X-302	30 Amp, 600VAC, 2-Pole Motor Starter in Type 4X Thermoplastic Enclosure	30A	2	120V	2
MS4X-402	40 Amp, 600VAC, 2-Pole Motor Starter in Type 4X Thermoplastic Enclosure	40A		240V	5
				480V	10
MS4X-303	30 Amp, 600VAC, 3-Pole Motor Starter in Type 4X Thermoplastic Enclosure	30A	3	120V	3
MS4X-403	40 Amp, 600VAC, 3-Pole Motor Starter in Type 4X Thermoplastic Enclosure	40A		240V	7.5
				480V	15
				600V	20



## Dimensions



## Specifications

Electrical Specifications	
Dielectric Voltage-Withstand	2200V AC for 1 minute
Overload	50 cycles at 6 times full rated current
Temperature Rise	50°C maximum at full rated current
Endurance	6000 cycles of inductive motor type load. Dual rated General Purpose and Manual Motor Control
Short Circuit Rating (Motor Disconnect)	10,000 RMS symmetrical amps at 600V AC max. When protected by a 30 A time delay fuse
Material Specifications	
Enclosure	PBT Polyester
Handle	PBT Polyester
External Hardware	Stainless Steel
Environmental Specifications	
Flammability	UL94 V-0
Operating Temperature	-40°C to 60°C
Rain (3R) per UL 50	Water spray @ 5 psi from all sides for 1 hr
Hosedown (4X) per UL 50	Water spray @ 65 gal/min for 5 min.
Dust (12K) per UL 50	Cement Dust Circulated @1000 ft/minute for 5 minutes
Gasket Aging	70°C for 168 hours
UV Resistance	Exposed plastic materials are UV stabilized

Mechanical Specifications	
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
Terminal Identification	T1, T2, T3, L1, L2 & L3 marked on back of device
Terminal Accommodation	#10 AWG, #8 AWG (with ring terminal)
Torque	20 inch-pounds
Standards Specifications	
NEMA	WD1 & WD6
ANSI	C-73
UL 508	File #E63969
cUL per CSA C22.2 No. 111	File #E63969
NOM	057

Valox is a registered trademark of Sabic Innovative Plastics

## Additional 30A & 40A Manual Motor Controllers Suitable as Motor Disconnect



### Ordering Information

Cat. No.	Description	AC Horsepower Rating (HP)			
		120V	240V	480V	600V
MS302-DS	30 AMP, 600V AC, 2-Pole, 1Ø, Standard Toggle	2	5	10	15
MS302-DSS	30 AMP, 600V AC, 2-Pole, 1Ø, Short Toggle	2	5	10	15
MS303-DS	30 AMP, 600V AC, 3-Pole, 3Ø, Standard Toggle	3	7 ½	15	20
MS303-DSS	30 AMP, 600V AC, 3-Pole, 3Ø, Short Toggle	3	7 ½	15	20
MS402-DS	40 AMP, 600V AC, 2-Pole, 1Ø, Standard Toggle	2	5	10	15
MS403-DS	40 AMP, 600V AC, 3-Pole, 3Ø, Standard Toggle	3	7 ½	15	20
N1302-DS	Type 1 Metal Enclosure with MS302-DS Switch	2	5	10	15
N1303-DS	Type 1 Metal Enclosure with MS303-DS Switch	3	7 ½	15	20
N1303-TDS	Type 1 Enclosure with Thermoplastic Cover and MS303-DS Switch	3	7 ½	15	20
N3302-DS	Type 3R Metal Enclosure with MS302-DS Switch	2	5	10	15
N3303-DS	Type 3R Metal Enclosure with MS303-DS Switch	3	7 ½	15	20
N13NC-DS	Type 1 Metal Enclosure Only (Use only with 30A Motor Starter Switches listed above)	See switch ratings above			
N13NC-TDS	Type 1 Thermoplastic Enclosure Only (Use only with 30A Motor Starter Switches listed above)	See switch ratings above			
N33NC-DS	Type 3R Metal Enclosure Only (Use only with 30A or 40A Motor Starter Switches listed above)	See switch ratings above			

For a complete selection of Leviton Industrial Grade Switches, visit [www.leviton.com/industrial](http://www.leviton.com/industrial).

#### Leviton Manufacturing Co., Inc.

201 N Service Rd, Melville, NY 11747  
Telephone: 1-800-323-8920 • FAX: 1-800-832-9538  
Tech Line (7:00AM-7:30PM ET Monday-Friday): 1-800-824-3005

#### Leviton Manufacturing of Canada, Ltd.

165 Hymus Blvd, Pointe-Claire, QC H9R 1E9  
Telephone: 1-800-469-7890 • FAX: 1-800-563-1853

#### Leviton S. de R.L. de C.V.

Lago Tana 43, Col. Huichapan, Miguel Hidalgo, CP 11290 México DF  
Tel. (+52) 55-5082-1040 • Fax: (+52) 55-5386-1797 • [www.leviton.com.mx](http://www.leviton.com.mx)

#### Leviton Middle East, Ltd.

J/Ali Free Zone, View 19 7th Floor, Office 701 • PO Box 262742 Dubai, UAE  
Tel: +971 4 886 4722 • Fax: +971 4 886 4723

Visit our Website at: [www.leviton.com/industrial](http://www.leviton.com/industrial) email: [industrial@leviton.com](mailto:industrial@leviton.com)

© 2009 Leviton Manufacturing Co., Inc. All rights reserved.

