WARNINGS:
TO AVOID FIRE, SHOCK, OR DEATH, TURN OFF POWER AT CIRCUIT BREAKER OR FUSE AND TEST THAT POWER IS OFF BEFORE WR NG OR SERVICING DEVICE.
TO AVOID FIRE, SHOCK, OR DEATH, DISCONNECT ALL POWER SUPPLIES TO ENCLOSURE BEFORE信 parate over-current protection mus
as appropriate.
a shacklosure includes a lockout provision (in the OFF position) for a suitable padlock. USE ONLY a padlock with解 Lockout/Tagout Regulation 29 CFR Part 1910.147

CAUTIONS:
For installation ONLY by an electrician, in acordance with the National Electrical Code ${ }^{\oplus}$ (NEC), the Canadian Electrical Code (CEC), and local code
Use this device with copper or copper-clad wire only
Suitable as Motor Disconnect on a circuit capable of del the intended installation.
MDS3-AC, MDS3-AX - 10 kA rms symmetrical amperes
MDS3-ST, MDS3-AST - 10kA rms symmetrical amperes, 600 V max., when protected by 60 A , Class J fuses. MDS6-AC, MDS6-AX - 100 kA rms symmetrical amperes, 600 V max., when protected by 60 A , Class J fuses. - MDS6-ST, MDS6-AST - 100kA rms symmetrical amperes, 600 V max., when protected by 100 A , Class J or T fuses. - MDS6-ST, MDS6-AST - 100 kA rms symmetrical amperes, 600 V max., when protected by 100 A , Class J or T fuses.
-MDS8-AC, MDS8-AX - 100 kA rms symmetrical amperes, 600 V max., when protected by 100 A , Class J T T fuses. - MDS1-AC, MDS1-AX - 65 kA rms symmetrical amperes, 600 V max., when protected by 100 A , Class J fuses.

FEATURES
Provides ON/OFF switched control of a directly connected loa
Meets the requirements of Outdoor/Indoor (IP66, IP67, IP68, IP6
Corrosion-Resistant) and Indoor (Type 12 Dust-Tight) installations.
The cover cannot be opened or removed when the handle is in the "ON" position

- Normally open and normally closed auxiliary contact (if used) is rated 10A-600VAC


## INSTALLATION

## STEPS

Mount Safety Disconnect Switch
Remove enclosure cover by loosening two cover screws and lifting cover off hinges
OVE SWITCH section). This is recommended to prevent steel debris from entering
4. Drill or punch conduit hole in desired location(s). See Table 1 for fitting size,

NOTE: If you have a slope top version (MDS3-ST, MDS3-AST, MDS6-ST, MDS6-AST), top feeding wiring is NOT
an option.
5. Install conduit fitting. Ensure "O" ring is properly seated and that the inside locking ring is seated tightly against the inside surface of enclosure, to ensure proper grounding
6. Re-install switch (see REPLACE SWITCH section).
7. Connect wires (see WIRING section).

Replace cover and hand thread screws to engagement.
NOTE: Handle must be in the "OFF" position to
NOTE: Handle must be in the "OFF" position to close cover. Tighten screws to $15-18$ in. -lbs . (1.7-2.0 $\mathrm{N}-\mathrm{m}$ ) torque

## CLEANING PROCEDURES

WARNING: RISK OF ELECTRIC SHOCK. TURN OFF POWER AT CIRCUIT BREAKER OR FUSE. DO NOT clean this product while undergoing electrical maintenance or service.
CAUTION: Use only chemicals and cleaning solutions that are safe for use with plastics and rubber gaskets.
. Follow general cleaning procedures established by your facility
2. This product is certified by NSF ${ }^{\top}$ International to NSF/ANSI/3-A 14159-1.

Recommended cleaning procedures are
a. Use hose-directed water or a cleaning solution to remove any collected contaminants from behind the enclosure. Ensu
c. CAUTION: DO NOT direct or concentrate high-pressure water or cleaning solution on the enclosure gasket seams, switch handle area, or exterior labels.
d. After cleaning the exterior surfaces of the enclosure, open the enclosure door and use a clean, damp cloth to manually remove any soil or contaminants from the gasket seam area and flanged lip on enclosure body

If needed, the door can be lifted off the enclosure body to clean hinge cavities
Use a dry clean cloth to wipe away any excess wate.


WIRING
NOTE: Use conductors with insulation rated $167^{\circ} \mathrm{F}\left(75^{\circ} \mathrm{C}\right)$ or higher, having sufficient ampacity in accordance with the $140^{\circ} \mathrm{F}\left(60^{\circ} \mathrm{C}\right)$ column of Table $310.15(\mathrm{~B})(16)$ of the 2014 NEC . or Table 2 of the Canadian Electrical Code.
NOTE: Ensure that there are no stray conductor strands. DO NOT tin conductors.

1. WARNING: TO AVOID FIRE, SHOCK, OR DEATH, TURN OFF POWER AT CIRCUIT BREAKER OR FUSE AND TEST THAT POWER IS OFF BEFORE WIRING OR SERVICING DEVICE
. Strip all conductors approximately $1 / 2$ in. ( 13.0 mm .).
. Connect conductors per appropriate WIRING DIAGRAM (see reverse side).
2. Tighten all terminal screws per specific torque values below:

## WIRING DIAGRAMS

Break All Lines


| MDS3-AX, MDS3-AC, MDS3-ST, MDS3-AST |  |  |  |
| :---: | :---: | :---: | :---: |
| Torque: |  |  |  |
| Switch terminals: $\quad 7$ in.-lbs. ( $0.8 \mathrm{~N}-\mathrm{m}$ ) |  |  |  |
| Neutral terminals: $\quad 15 \mathrm{in}$.-lbs. ( $1.7 \mathrm{~N}-\mathrm{m}$ ) |  |  |  |
| Ground terminals: $\quad 15 \mathrm{in} . \mathrm{Ibs} .(1.7 \mathrm{~N}-\mathrm{m})$ |  |  |  |
| Auxiliary contact*:$*$ (if used) |  |  |  |
| Conductor sizes accepted: |  |  |  |
| Switch terminals: \#14-\#8 AWG |  |  |  |
| Neutral terminals: \#14-\#8 AWG |  |  |  |
| Ground terminals: \#14-\#8 AWG |  |  |  |
| Auxiliary contact*: \#18-\#14 AWG |  |  |  |
| MDS3-AX - SSCR Rating: <br> Suitable for use on a circuit capable of delivering not more than 10 kA rms symmetrical amperes, 600 V max., when protected by 60A, Class J fuses. |  |  |  |
| Short circuit ratings at 600VAC |  |  |  |
| kA |  | Fuse / A | Class of fuse |
| 10 |  | 60 | $J$ |
| HP Rating: 30/32A-600VAC Max. |  |  |  |
| Rating | Poles | HP Rating |  |
| 30/32A | 2 | 120 VAC 10 | 2 HP |
| 30/32A | 2 | 208-240 VAC 10 | 5 HP |
| 30/32A | 2 | 480 VAC 10 | 5 HP |
| 30/32A | 2 | 600 VAC 10 | 5 HP |
| 30/32A | 3 | 120/208 VAC 30 | 010 HP |
| 30/32A | 3 | 208-240 VAC 30 | 010 HP |
| 30/32A | 3 | 480 VAC $3 \varnothing$ | 20 HP |
| 30/32A | 3 | 600 VAC 30 | 25 HP |
| Auxiliary Contact Rating |  |  |  |
| 10A | 1 | 600 VAC |  |


| MDS6-AX, MDS6-AC, MDS6-ST, MDS6-AST |  |  |  |
| :---: | :---: | :---: | :---: |
| Torque: |  |  |  |
| Switch terminals: 18 in.-lbs. (2 N-m) |  |  |  |
| Neutral terminals: $\quad 31 \mathrm{in} .-\mathrm{lbs} .(3.5 \mathrm{~N}-\mathrm{m})$ |  |  |  |
| Ground terminals: $\quad 31$ in.-lbs. ( $3.5 \mathrm{~N}-\mathrm{m}$ ) |  |  |  |
| Auxiliary contact: $\quad 7$ in.-lbs. ( 0.8 N*(if used) |  |  |  |
| Conductor sizes accepted: |  |  |  |
| Switch terminals: \#14-\#4 AWG |  |  |  |
| Neutral terminals: \#14-\#1/0 AW |  |  |  |
| Ground terminals: \#14-\#2 AWG |  |  |  |
| Auxiliary contact*: \#18-\#14 AWG(if used) |  |  |  |
| MDS6-AX - SSCR Rating: <br> Suitable for use on a circuit capable of delivering not more than 100 kA rms symmetrical amperes, 600 V max., when protected by 100A, Class J or T fuses. |  |  |  |
|  |  |  |  |
| Short circuit ratings at 600VAC |  |  |  |
| kA |  | Fuse / A | Class of fuse |
| 100 |  | 100 | $J$ or T |
| HP Rating: 60A-600VAC Max. |  |  |  |
| Rating | Poles | HP Rating |  |
| 60A | 2 | 120 VAC $1 \varnothing$ | 2 HP |
| 60A | 2 | 208-240 VAC 10 | 010 HP |
| 60A | 2 | 480 VAC 10 | 20 HP |
| 60A | 2 | 600 VAC 10 | 20 HP |
| 60A | 3 | 208-240 VAC 30 | 020 HP |
| 60A | 3 | 480 VAC 30 | 40 HP |
| 60A | 3 | 600 VAC 30 | 40 HP |
| Auxiliary Contact Rating |  |  |  |
| 10A | 1 | 600 VAC |  |


| MDS8-AX, MDS8-AC |  |  |  |
| :---: | :---: | :---: | :---: |
| Torque: |  |  |  |
| Switch terminals: $\quad 18$ in.-lbs. ( $2 \mathrm{~N}-\mathrm{m}$ ) |  |  |  |
| Neutral terminals: $\quad 31$ in.-lbs. ( $3.5 \mathrm{~N}-\mathrm{m}$ ) |  |  |  |
| Ground terminals: $\quad 31 \mathrm{in} . \mathrm{lbs} .(3.5 \mathrm{~N}-\mathrm{m})$ |  |  |  |
| Auxiliary contact*: $\quad 7$ in.-lbs. ( $0.8 \mathrm{~N}-\mathrm{m}$ )${ }^{\text {(if }}$ used) |  |  |  |
|  |  |  |  |
| Switch terminals: \#14-\#4 AWG |  |  |  |
| Neutral terminals: \#14-\#1/0 AWG |  |  |  |
| Ground terminals: \#14-\#2 AWG |  |  |  |
| $\underset{*}{\text { Auxiliary contact*: }}$ \#18-\#14 AWG |  |  |  |
|  |  |  |  |
| MDS8-AX - SSCR Rating: <br> Suitable for use on a circuit capable of delivering not more than 100 kA rms symmetrical amperes, 600 V max., when protected by 100A, Class J or T fuses. |  |  |  |
|  |  |  |  |
| Short circuit ratings at 600VAC |  |  |  |
| kA |  | Fuse / A | Class of fuse |
| 100 |  | 100 | $J$ or T |
| HP Rating: 80A-600VAC Max. |  |  |  |
| Rating | Poles | HP Rating |  |
| 80A | 2 | 120 VAC 10 | 2 HP |
| 80A | 2 | 208-240 VAC 10 | 010 HP |
| 80A | 2 | 480 VAC $1 \varnothing$ | 20 HP |
| 80A | 2 | 600 VAC 10 | 20 HP |
| 80A | 3 | 208-240 VAC 30 | 020 HP |
| 80A | 3 | 480 VAC 30 | 40 HP |
| 80A | 3 | 600 VAC 30 | 40 HP |
| Auxiliary Contact Rating |  |  |  |
| 10A | 1 | 600 VAC |  |


| MDS1-AX, MDS1-AC |  |  |  |
| :---: | :---: | :---: | :---: |
| Torque: |  |  |  |
| Switch terminals: |  | 27 in.-Ibs. (3 N-m) |  |
| Neutral terminals: $\quad 53$ in.-lbs. ( $6.0 \mathrm{~N}-\mathrm{m}$ ) |  |  |  |
| Ground terminals: $\quad 31 \mathrm{in} . \mathrm{-lbs}$ ( ( $3.5 \mathrm{~N}-\mathrm{m}$ ) |  |  |  |
| $\underset{*}{\text { Auxiliary contact*: }}$ (if used) ${ }^{\text {a }}$ ( $\quad 7 \mathrm{in}$.-lbs. ( $0.8 \mathrm{~N}-\mathrm{m}$ ) |  |  |  |
| Conductor sizes accepted: |  |  |  |
| Switch terminals: \#8-\#1/0 AWG |  |  |  |
| Neutral terminals: \#6-\#1/0 AWG |  |  |  |
| Ground terminals: \#14-\#2 AWG |  |  |  |
| Auxiliary contact*: \#18-\#12 AWG |  |  |  |
| MDS1-AX - SSCR Rating: <br> Suitable for use on a circuit capable of delivering not more than 65 kA rms symmetrical amperes, 600 V max., when protected by 100A, Class J fuses. |  |  |  |
|  |  |  |  |
| Short circuit ratings at 600VAC |  |  |  |
| kA |  | Fuse / A $\quad$ Class | Class of fuse |
| 65 |  | 100 | $J$ |
| HP Rating: 100A-600VAC Max. |  |  |  |
| Rating | Poles | HP Rating |  |
| 100A | 2 | 110-120 VAC 10 | 7.5 HP |
| 100A | 2 | 220-240 VAC 10 | 20 HP |
| 100A | 2 | 277 VAC 10 | 25 HP |
| 100A | 2 | $440-480$ VAC $1 \varnothing$ | 30 HP |
| 100A | 3 | 550-600 VAC 30 | 30 HP |
| 100A | 3 | 110-120 VAC 30 | 15 HP |
| 100A | 3 | $220-240$ VAC $3 \varnothing$ | 40 HP |
| 100A | 3 | $440-480$ VAC 30 | 60 HP |
| 100A | 3 | 550-600 VAC 30 | 50 HP |
| Auxiliary Contact Rating |  |  |  |
| 10A | 1 | 600 VAC |  |

## REMOVE SWITCH

NOTE: DO NOT REMOVE DIN RAIL.
. Remove both mounting screws securing the switc
. Insert a flathead screwdriver into switch tab (A). Gently pull tab outward, while pulling switch up, beginning with the tab side and then the opposite side.
信


## REPLACE SWITCH

NOTE: If replacing the switch component, re-install switch rod, ensuring it is fully seated in bottom of pocket. Tighten set screw to 8 -10 in.-lbs. (0.9-1.1 N-m).
NOTE: If replacing the switch component, attach auxiliary contact (if applicable) to switch, by fitting the tabs on top and pressing in the auxiliary contact in a downward motion.

1. Mount switch onto DIN rail by hooking back side hinge onto DIN rail, and then gently pull switch tab outward and push switch down, until it snaps into place.
2. Slide switch into position and align the two screw holes with threaded holes in base plate. Tighten 2 mounting screws to $6-8$ in. lbs . ( $0.67-0.9 \mathrm{~N}-\mathrm{m}$ ).
3. Verify switch cover properly mates with switch mechanism with cover closed, and that ON/OFF handle moves freely.

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## FOR CANADA ONLY

 Quebec), Canada H9R 1E9 or by telephone at 1800 405-5320.

