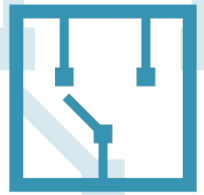


Manual Transfer Switch MMC Molded Case Dual Operator



Model: 150A-400A

| | |
|--|----|
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TRANSFER

Lake Shore Electric's MMC Manual Transfer Switch utilizes industry-proven molded case switches to perform safe transfers under load. The MMC Transfer Switch is UL 1008 listed and offered in ampacities ranging from 150A to 1200A, up to 600VAC, and interrupting ratings starting at 35kAIC @480VAC. Service entrance rated configurations are also available.

Standard Features: _____

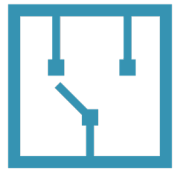
- Molded Case Switches
- 100% Rated Copper Bus
- Front Accessible
- Mechanically Interlocked Sources (Open Transition)
- Neutral Position
- NEMA 1 Enclosure with Gray Powder Coat Finish

Optional Features: _____

- Service Entrance Rated
- Breaker Trip Ratings
- Switch Position & Source Available Aux Contacts
- Electrical Assist
- Space Heater
- Surge Protection Device
- Mechanical Lug Sizes

Technical Data

Standard & Optional Features



Molded Case Units

The MMC utilizes two UL 489-listed molded case switches and/or breakers. Switches are constructed using circuit breaker components and are of the high instantaneous automatic type, tripping at 10X the frame rating. Breakers can be configured with either thermal magnetic or electronic trip units.

Mechanically Interlocked Sources

A walking beam-style mechanical interlock is used to prevent the unintentional paralleling of the Normal Source (Source 1) and Alternate Source (Source 2). Strategically located on the rear side of the back pan, the restricted access to the walking beam ensures a touch-free and tamper-resistant interlock.

Neutral Position

The MMC Transfer Switch allows for both sources to be placed in the “off” or neutral position.

NEMA 1 Enclosure with Gray Powder Coat Finish

All MMC Transfer Switch enclosures come standard with an environmental rating of NEMA Type 1, with a textured gray powder coat finish. See page 7 for additional NEMA ratings and materials that are available.

Standard & Optional Lug Sizes

Mechanical lugs are provided for all incoming and outgoing connections. See table on page 12 for available lug sizes. Compression lugs are not available on the MMC Transfer Switch.

Service Entrance Rated (Optional)

The service entrance rated option provides overcurrent protection on the Normal Source (Source 1), allowing it to be designated as a means of service disconnect. A neutral ground bond is also provided (where applicable). Service entrance rated MMCs that are 1000A and greater come standard with arc flash reduction features and ground fault protection when service disconnects installed on solidly grounded wye electrical systems over 150 volts to ground.

Breaker Trip Ratings (Optional)

The MMC can be configured to include overcurrent protection on both the Normal Source (Source 1) and the Alternate Source (Source 2). The available trip sizes are based on the frame amperage of the breaker. See page 9 for a complete list of available trip sizes.

Auxiliary Contacts & Lights (Optional)

Switch Position and Source Available Auxiliary Contacts & Lights are an optional accessory that can be added to the MMC.

Switch Position includes green indicating lights that are mounted on the exterior and illuminate when their corresponding switch is in the closed position. A Form C contact is provided on each source for remote monitoring.

Source Available includes white indicating lights that are mounted on the exterior and illuminate when their corresponding source is within the acceptable voltage range as determined by the phase monitoring relay. The pickup and drop-out ranges are adjustable. A Form C contact is provided on each source for remote monitoring.

Table 1 : Aux Contacts & Lights

| Maximum Voltage | Frequency | Maximum Current (A) | Dielectric Withstand Voltage |
|-----------------|-----------|---------------------|------------------------------|
| 600 | 50/60 Hz | 6 | 2500 |
| 125 | DC | 0.5 | 2500 |
| 250 | DC | 0.25 | 2500 |

Electrical Assist (Optional)

The Electrical Assist option includes motors to operate both the Normal Source (Source 1) and the Alternate Source (Source 2). This option also comes with the Switch Position and Source Available Auxiliary Contacts and Lights, as mentioned above. Please note that the “Source Available” indicator is for indication purposes only and does not serve as a permissive circuit. A selector switch is provided for each source to control its operation. The switch configuration also includes a neutral position.

Space Heater (Optional)

A 50W heater is provided on a constant circuit to aid in the regulation of the interior temperature and mitigate the formation of condensation in the enclosure and on the internal components.

Surge Protection Device (Optional)

A surge protection device (SPD) is included on the Normal Source to protect the control circuit from transient voltage surges.

Table 2 : SPD Size

| Amperage | SCCR | Line to Neutral |
|--------------|-------|-----------------|
| 150A - 400A | 200kA | 20kA |
| 600A - 1200A | 200kA | 20kA |

Technical Data

150A & 225A Frame

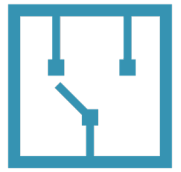


Table 3 : 150 Amp Frame Molded Case Details

| kAIC @ 480V | Rated Current (A) | Breaker Model Code | | | Switch Model Code | | |
|-------------|-------------------|--------------------|---------|---------|-------------------|----------|----------|
| | | 2 Pole | 3 Pole | 4 Pole | 2 Pole | 3 Pole | 4 Pole |
| 35 | 50 | FD2050 | FD3050 | FD4050 | | | |
| | 70 | FD2070 | FD3070 | FD4070 | | | |
| | 100 | FD2100 | FD3100 | FD4100 | | | |
| | 110 | FD2110 | FD3110 | FD4110 | | | |
| | 125 | FD2125 | FD3125 | FD4125 | | | |
| | 150 | FD2150 | FD3150 | FD4150 | FD2150K | FD3150K | FD4150K |
| 65 | 50 | HFD2050 | HFD3050 | HFD4050 | | | |
| | 70 | HFD2070 | HFD3070 | HFD4070 | | | |
| | 100 | HFD2100 | HFD3100 | HFD4100 | | | |
| | 110 | HFD2110 | HFD3110 | HFD4110 | | | |
| | 125 | HFD2125 | HFD3125 | HFD4125 | | | |
| | 150 | HFD2150 | HFD3150 | HFD4150 | HFD2150K | HFD3150K | HFD4150K |

Table 4 : 225 Amp Frame Molded Case Details

| kAIC @ 480V | Rated Current (A) | Breaker Model Code | | | Switch Model Code | | |
|-------------|-------------------|--------------------|---------|---------|-------------------|----------|----------|
| | | 2 Pole | 3 Pole | 4 Pole | 2 Pole | 3 Pole | 4 Pole |
| 35 | 100 | KD2100 | KD3100 | KD4100 | | | |
| | 125 | KD2125 | KD3125 | KD4125 | | | |
| | 150 | KD2150 | KD3150 | KD4150 | | | |
| | 175 | KD2175 | KD3175 | KD4175 | | | |
| | 200 | KD2200 | KD3200 | KD4200 | | | |
| | 225 | KD2250 | KD3250 | KD4250 | KD2400K | KD3400K | KD4400K |
| 65 | 100 | HKD2100 | HKD3100 | HKD4100 | | | |
| | 125 | HKD2125 | HKD3125 | HKD4125 | | | |
| | 150 | HKD2150 | HKD3150 | HKD4150 | | | |
| | 175 | HKD2175 | HKD3175 | HKD4175 | | | |
| | 200 | HKD2200 | HKD3200 | HKD4200 | | | |
| | 225 | HKD2250 | HKD3250 | HKD4250 | HKD2400K | HKD3400K | HKD4400K |

- Models stated above are Eaton C Series Molded Case Switches
- 3-pole variant with the center phase open may be used in place of a 2-pole at LSE discretion
- A higher withstand rating and/or frame rating may be used in place of a lesser rating at LSE discretion
- Contact factory for technical information on switching devices or withstand ratings not listed in Table
- Data subject to change without notice

Technical Data

400A & 600A Frame

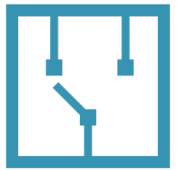


Table 5 : 400 Amp Frame Molded Case Details

| kAIC @ 480V | Rated Current (A) | Breaker Model Code | | | Switch Model Code | | |
|-------------|-------------------|--------------------|---------|---------|-------------------|----------|----------|
| | | 2 Pole | 3 Pole | 4 Pole | 2 Pole | 3 Pole | 4 Pole |
| 35 | 200 | KD2200 | KD3200 | KD4200 | | | |
| | 250 | KD2250 | KD3250 | KD4250 | | | |
| | 300 | KD2300 | KD3300 | KD4300 | | | |
| | 350 | KD2350 | KD3350 | KD4350 | | | |
| | 400 | KD2400 | KD3400 | KD4400 | KD2400K | KD3400K | KD4400K |
| 65 | 200 | HKD2200 | HKD3200 | HKD4200 | | | |
| | 250 | HKD2250 | HKD3250 | HKD4250 | | | |
| | 300 | HKD2300 | HKD3300 | HKD4300 | | | |
| | 350 | HKD2350 | HKD3350 | HKD4350 | | | |
| | 400 | HKD2400 | HKD3400 | HKD4400 | HKD2400K | HKD3400K | HKD4400K |

Table 6 : 600 Amp Frame Molded Case Details

| kAIC @ 480V | Rated Current (A) | Breaker Model Code | | | Switch Model Code | | |
|-------------|-------------------|--------------------|---------|---------|-------------------|-----------|-----------|
| | | 2 Pole | 3 Pole | 4 Pole | 2 Pole | 3 Pole | 4 Pole |
| 35 | 300 | LD2300 | LD3300 | LD4300 | | | |
| | 350 | LD2350 | LD3350 | LD4350 | | | |
| | 400 | LD2400 | LD3400 | LD4400 | | | |
| | 450 | LD2450 | LD3450 | LD4450 | | | |
| | 500 | LD2500 | LD3500 | LD4500 | | | |
| | 600 | LD2600 | LD3600 | LD4600 | LD2600WK | LD3600WK | LD3600WK |
| 65 | 300 | HLD2300 | HLD3300 | HLD4300 | | | |
| | 350 | HLD2350 | HLD3350 | HLD4350 | | | |
| | 400 | HLD2400 | HLD3400 | HLD4400 | | | |
| | 450 | HLD2450 | HLD3450 | HLD4450 | | | |
| | 500 | HLD2500 | HLD3500 | HLD4500 | | | |
| | 600 | HLD2600 | HLD3600 | HLD4600 | HLD2600WK | HLD3600WK | HLD3600WK |

- Models stated above are Eaton C Series Molded Case Switches
- 3-pole variant with the center phase open may be used in place of a 2-pole at LSE discretion
- A higher withstand rating and/or frame rating may be used in place of a lesser rating at LSE discretion
- Contact factory for technical information on switching devices or withstand ratings not listed in Table
- Data subject to change without notice

Technical Data

800A & 1200A Frame

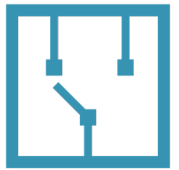


Table 7 : 800 Amp Frame Molded Case Details

| kAIC @ 480V | Rated Current (A) | Breaker Model Code | | | Switch Model Code | | |
|-------------|-------------------|--------------------|------------|------------|-------------------|------------|------------|
| | | 2 Pole | 3 Pole | 4 Pole | 2 Pole | 3 Pole | 4 Pole |
| 50 | 800 LSI | NGS208032E | NGS308032E | NGS408032E | | NGK3080KSE | NGK4080KSE |
| 65 | 800 LSI | NGH208032E | NGH308032E | NGH408032E | | NGK3080KSE | NGK4080KSE |

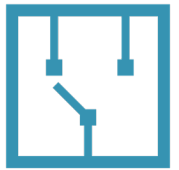
Table 8 : 1200 Amp Frame Molded Case Details

| kAIC @ 480V | Rated Current (A) | Breaker Model Code | | | Switch Model Code | | |
|-------------|-------------------|--------------------|------------|------------|-------------------|------------|------------|
| | | 2 Pole | 3 Pole | 4 Pole | 2 Pole | 3 Pole | 4 Pole |
| 50 | 1200 LSI | NGS212032E | NGS312032E | NGS412032E | | | |
| | 1200 LSIG | NGS212036E | NGS312036E | NGS412036E | | NGK3120KSE | NGK4120KSE |
| 65 | 1200 LSI | NGH212032E | NGH312032E | NGH412032E | | | |
| | 1200 LSIG | NGH212036E | NGH312036E | NGH412036E | | NGK3120KSE | NGK4120KSE |

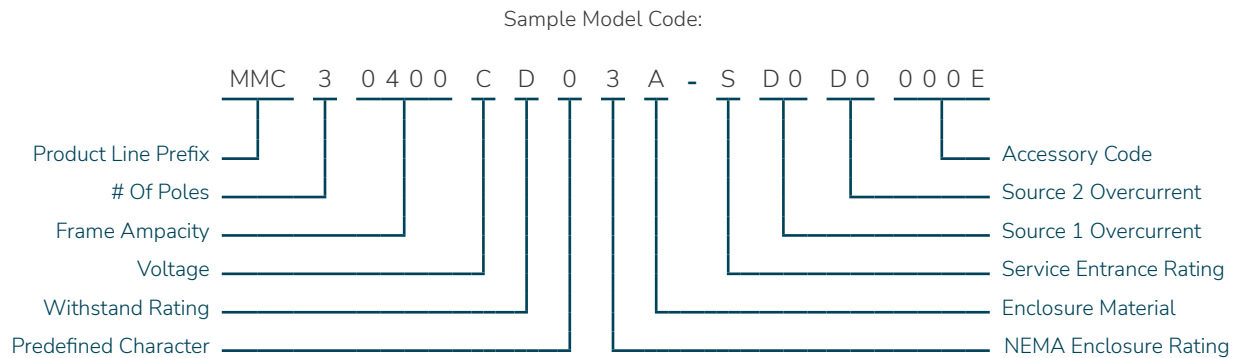
- Models stated above are Eaton C Series Molded Case Switches
- 3-pole variant with the center phase open may be used in place of a 2-pole at LSE discretion
- A higher withstand rating and/or frame rating may be used in place of a lesser rating at LSE discretion
- Contact factory for technical information on switching devices or withstand ratings not listed in Table
- Data subject to change without notice

Selection Guide

Characters & Designations

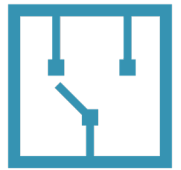


All Lake Shore Electric Transfer products are designed using a structured, smart-style model code ordering system. The complete MMC model code comprises 22 customer-selected characters, each identifying a feature or function of the design. The first thirteen characters of the model code define the basic configuration. The nine characters that follow identify the service rating and any additional accessories.



Selection Guide

Model Code Configuration



Number of Poles

Following the MMC prefix of the model code is the number of poles. Available in configurations of 2–pole, 3–pole, and 4–pole, this character distinguishes between a solid or switched neutral.

Table 9 : Number of Poles

| Poles | Alpha Numeric |
|-------|---------------|
| 2 | 2 |
| 3 | 3 |
| 4 | 4 |

Frame Ampacity

The MMC product line is designed using industry-standard molded case frame sizes and is available in amperages ranging from 150A - 1200A. A breaker trip rating can be selected for both the Normal and Alternate Sources based on the frame size chosen below. See page 9 for a complete list of available trips,

Table 10 : Amperage Codes

| Amp Frame | Alpha Numeric |
|-----------|---------------|
| 150 | 0150 |
| 225 | 0225 |
| 400 | 0400 |
| 600 | 0600 |
| 800 | 0800 |
| 1200 | 1200 |

Voltage

Identification of the system voltage determines the number of phases, as well as the presence of a neutral wire.

Table 11 : Voltage Codes

| Voltage | Phase/Wire | Alpha Numeric |
|-------------|------------|---------------|
| 120/240VAC | 1 Ph 3W | A |
| 208Y/120VAC | 3 Ph 4W | B |
| 480Y/277VAC | 3 Ph 4W | C |
| 120/240VAC | 3 Ph 4W | G |
| 480VAC | 3 Ph 3W | K |

Withstand Rating

The withstand rating is based on UL 489 & 1066 Switching Device Ratings at 480VAC; Lower voltages offer higher kAIC ratings within the same alphanumeric code. Contact the factory for these ratings.

Table 12 : Withstand Rating Codes

| kAIC | Alpha Numeric |
|----------------|---------------|
| 35kAIC @ 480V | D |
| 50kAIC @ 480V | F |
| 65kAIC @ 480V | G |
| 100kAIC @ 480V | I |

Predefined Character

This space contains a fixed character. No selection required.

Table 13 : Unselectable

| Description | Alpha Numeric |
|-----------------|---------------|
| Fixed Character | 0 |

NEMA Enclosure Rating

MMC Transfer Switches are available in NEMA Type 1 or NEMA Type 3R enclosures.

Table 14 : NEMA Code

| Enclosure Rating | Alpha Numeric |
|------------------|---------------|
| NEMA 1 | 1 |
| NEMA 3R | 3 |

Enclosure Material

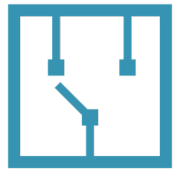
The standard enclosure material of the MMC Transfer Switch is hot rolled steel with a textured ANSI-61 gray powder coat finish. Additional material options are listed below.

Table 15 : Enclosure Code

| Material | Alpha Numeric |
|---|---------------|
| Hot Rolled Steel (Powder Coat Finish) | A |
| Stainless Steel – 304 (#4 Brushed Finish) | C |
| Stainless Steel – 316 (#4 Brushed Finish) | D |

Selection Guide

Accessory Code Configuration



Service Entrance Rating Code

Following the source configuration character is the option for service entrance rated or non-service entrance rated. See page 2 for more information.

Table 16 : SER Code

| Rating | Alpha Numeric |
|----------------------------|---------------|
| Non-Service Entrance Rated | N |
| Service Entrance Rated | S |

Source 1 Overcurrent

The MMC can be configured to include overcurrent protection on the Normal Source (Source 1), which is based on the frame ampacity as selected on page 7. The table below lists the default two-character trip rating offered on the Normal Source (S1) as well as the option for no overcurrent protection. Additional trip rating codes and selection instructions are available on page 9.

Table 17 : S1 Default Trip Rating

| Rating | Alpha Numeric |
|--------------------------------|---------------|
| No Source 1 Trip (Switch Only) | 00 |
| 150A Thermal Magnetic | A0 |
| 225A Thermal Magnetic | C0 |
| 400A Thermal Magnetic | D0 |
| 600A Thermal Magnetic | E0 |
| 800A LSI | F0 |
| 1200A LSIG | G0 |

Source 2 Overcurrent

The option to include overcurrent protection on the Alternate Source (Source 2) is also available and is based on the frame ampacity as selected on page 7. The table below lists the default two-character trip rating offered on the Alternate Source (S2), as well as the option for no overcurrent protection. Additional trip rating codes and selection instructions are available on page.

Table 18 : S2 Default Trip Rating

| Rating | Alpha Numeric |
|--------------------------------|---------------|
| No Source 2 Trip (Switch Only) | 00 |
| 150A Thermal Magnetic | A0 |
| 225A Thermal Magnetic | C0 |
| 400A Thermal Magnetic | D0 |
| 600A Thermal Magnetic | E0 |
| 800A LSI | F0 |
| 1200A LSIG | G0 |

Accessory Code Position 1

The first position of the four-digit accessory code allows for the addition of Switch Position & Source Available Aux Contacts with Lights, as well as Electrical Assist.

Table 19 : Accessory Code 1

| Description | Alpha Numeric |
|---|---------------|
| No Option | 0 |
| Switch Position & Source Available Aux Contacts with Lights | 1 |
| Electrical Assist | 2 |

Accessory Code Position 2

The second position of the four-digit accessory code provides the option to include a space heater.

- Space Heaters operate on 120VAC and may include a control power transformer when necessary. Overcurrent protection is also provided.

Table 20 : Accessory Code 2

| Description | Alpha Numeric |
|--------------|---------------|
| No Option | 0 |
| Space Heater | 1 |

Accessory Code Position 3

The third position of the four-digit accessory code is used to specify the need for an Alternate lug size and/or Surge Protection Device (SPD).

- Optional Lug sizes can be found on page 12
- Surge Protection Device's are sized per the frame amperage of the MTS. See page 2 for more information.

Table 21 : Accessory Code 3

| Description | Alpha Numeric |
|---|---------------|
| No Option (Standard Lug Size) | 0 |
| Optional Lug Size | 1 |
| Surge Protection Device | 2 |
| Optional Lug Size & Surge Protection Device | 3 |

Accessory Code Position 4

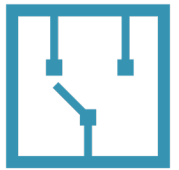
The fourth position of the four-digit accessory code is a fixed character with no selection required.

Table 22 : Accessory Code 4

| Description | Alpha Numeric |
|-------------------|---------------|
| Manufacturer Code | E |

Selection Guide

Overcurrent Trip Rating



The tables below provide a list of available trip ratings based on the MMC frame ampacity as selected on page 7. Different trip ratings within the same breaker frame size can be selected for each source (example below). The default two-character trip rating of each frame size has been highlighted. Refer to tables 20 & 21 on page 8 if overcurrent protection is not needed.

Fixed Thermal Magnetic Trip

Table 23 : 150A Frame

| Trip | Alpha Numeric |
|------|---------------|
| 150A | A0 |
| 125A | A5 |
| 110A | A4 |
| 100A | A3 |
| 70A | A2 |
| 50A | A1 |

Table 25 : 400A Frame

| Trip | Alpha Numeric |
|------|---------------|
| 400A | D0 |
| 350A | D4 |
| 300A | D3 |
| 250A | D2 |
| 200A | D1 |

Table 24 : 225A Frame

| Trip | Alpha Numeric |
|------|---------------|
| 225A | C0 |
| 200A | C5 |
| 175A | C4 |
| 150A | C3 |
| 125A | C2 |
| 100A | C1 |

Table 26 : 600A Frame

| Trip | Alpha Numeric |
|------|---------------|
| 600A | E0 |
| 500A | E5 |
| 450A | E4 |
| 400A | E3 |
| 350A | E2 |
| 300A | E1 |

Adjustable Electronic Trip

Table 27 : 800A Frame

| Trip | Alpha Numeric |
|------|---------------|
| 800A | F0 |

Table 28 : 1200A Frame

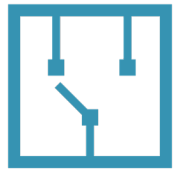
| Trip | Alpha Numeric |
|------------|---------------|
| 1200A LSIG | G0 |
| 1200A LSI | G1 |

Trip Rating Selection Example

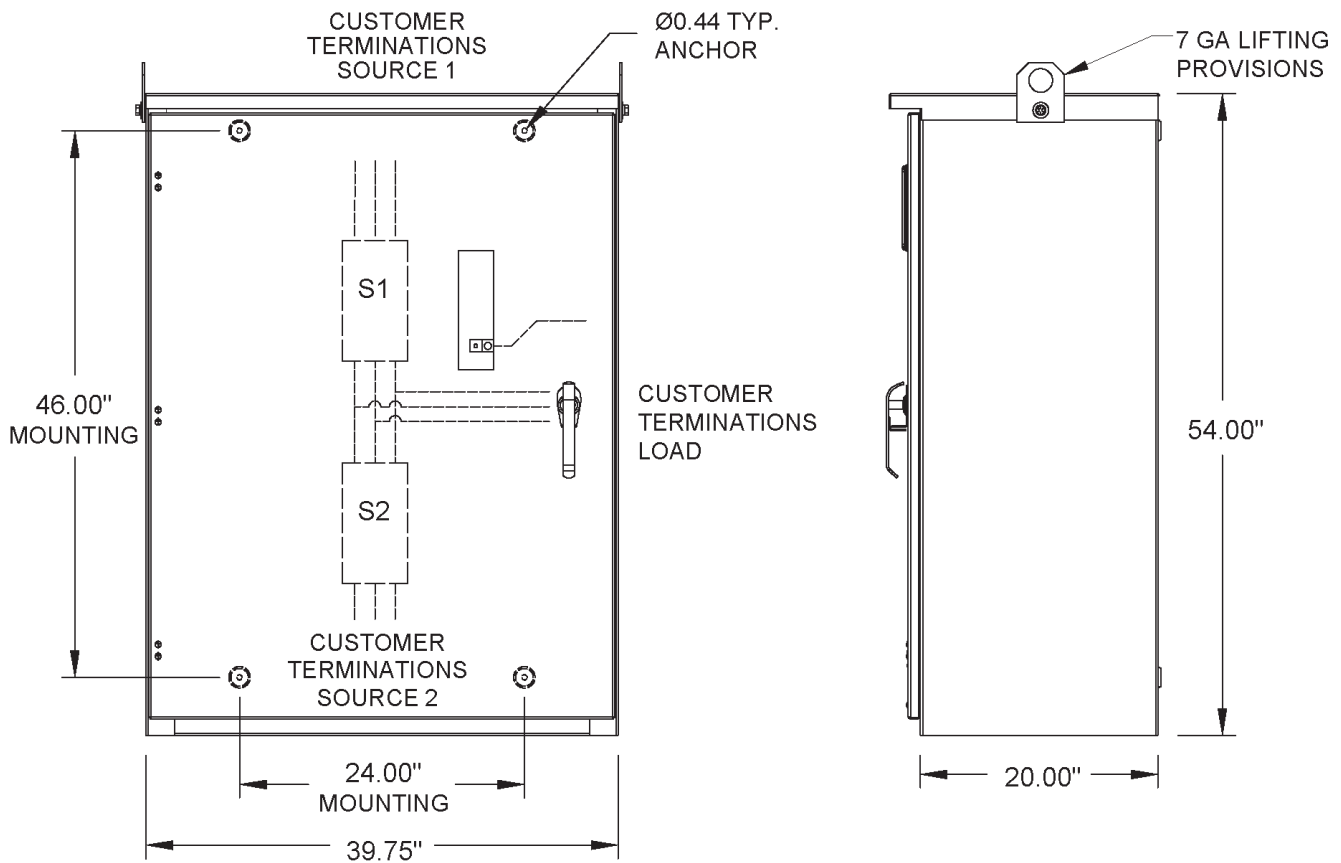


Weights & Dimensions

MMC Transfer Switch (150A - 400A)



Exterior Layout & Dimensions



Recommended Cable Entry

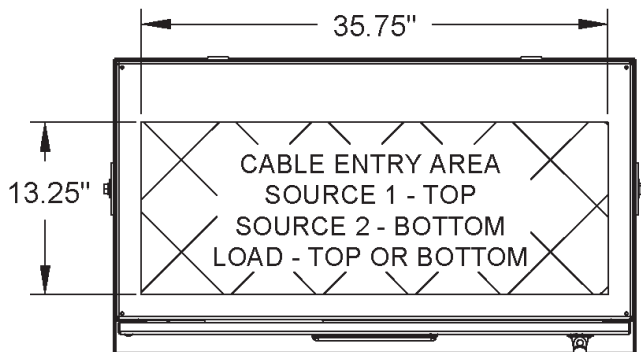
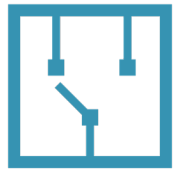


Table 29 : Enclosure Dimensions

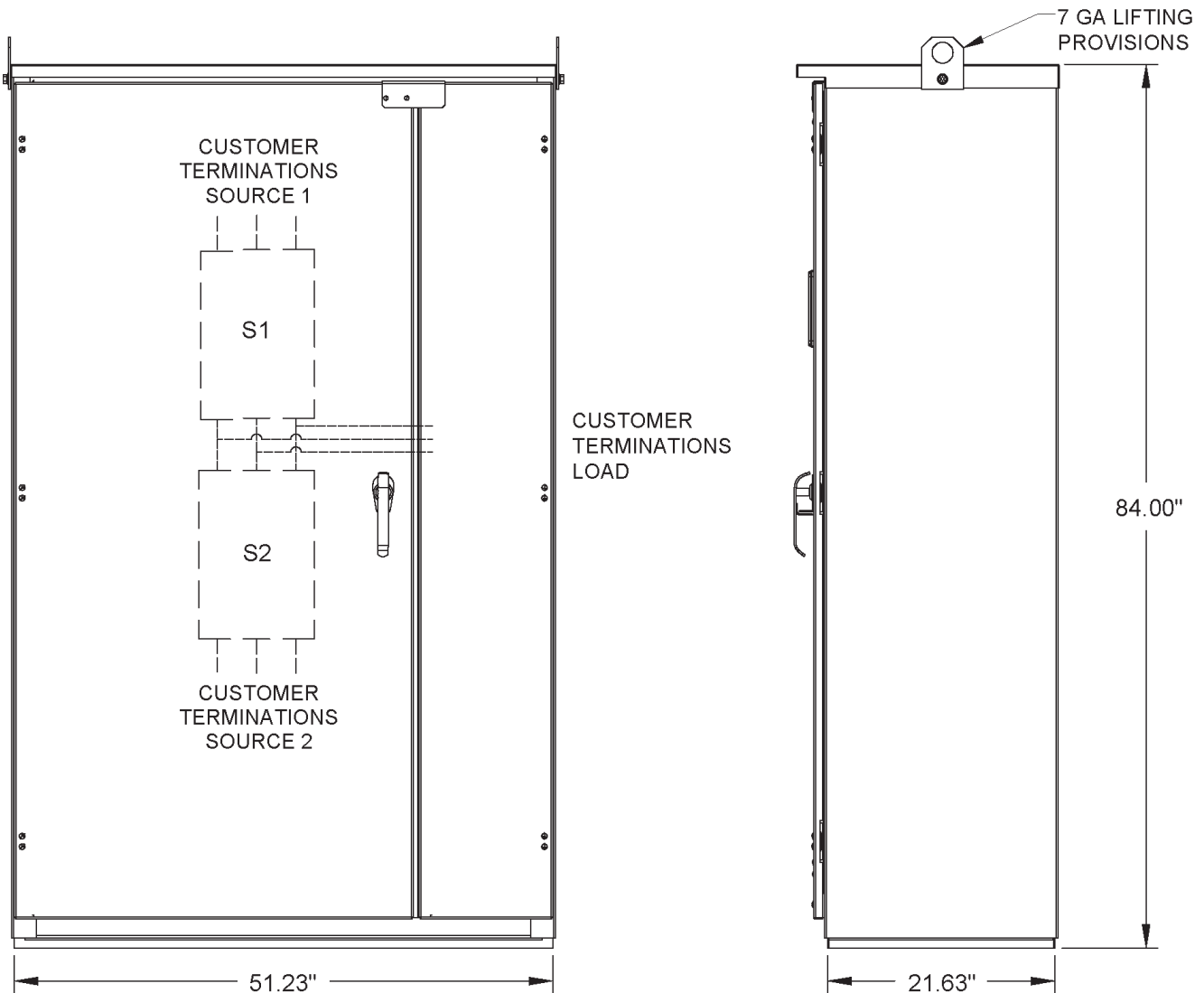
| | |
|------------------------|-------------------|
| Height | 54" |
| Width | 39.75" |
| Depth | 20" |
| Approximate Weight | 550 lbs |
| Cable Entry Dimensions | 35.75"W x 13.25"D |

Weights & Dimensions

MMC Transfer Switch (600A - 1200A)



Exterior Layout & Dimensions



Recommended Cable Entry

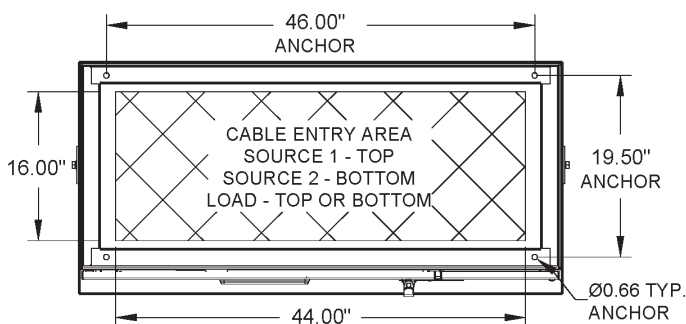


Table 30 : Enclosure Dimensions

| | |
|------------------------|-------------|
| Height | 84" |
| Width | 51.23" |
| Depth | 21.63 |
| Approximate Weight | 750 lbs. |
| Cable Entry Dimensions | 44"W x 16"D |

TRANSFER

Connection Information

Mechanical Lug Size & Quantity

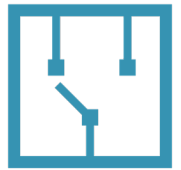
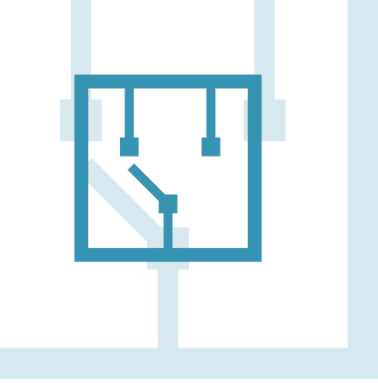


Table 31 : Lug Size & Quantity

| Ampacity | Location | | Standard Lug | Optional Lug | Ground |
|----------|------------------|-----------|----------------------------------|----------------|---------------|
| 150A | Normal Source | Per Phase | (1) #14-1/0 | N/A | (1) #14-1/0 |
| | | Neutral | (1) #14-1/0 | | |
| | Alternate Source | Per Phase | (1) #14-1/0 | | |
| | | Neutral | (1) #14-1/0 | | |
| | Load | Per Phase | (1) #14-1/0 | | |
| | | Neutral | (1) #14-1/0 | | |
| 225A | Normal Source | Per Phase | (1) 2/0-500MCM or (2) 2/0-250MCM | (1) 500-750MCM | (1) #14-1/0 |
| | | Neutral | (1) 2/0-500MCM or (2) 2/0-250MCM | (1) 500-750MCM | |
| | Alternate Source | Per Phase | (1) 2/0-500MCM or (2) 2/0-250MCM | (1) 500-750MCM | |
| | | Neutral | (1) 2/0-500MCM or (2) 2/0-250MCM | (1) 500-750MCM | |
| | Load | Per Phase | (1) 2/0-500MCM or (2) 2/0-250MCM | (1) 500-750MCM | |
| | | Neutral | (1) 2/0-500MCM or (2) 2/0-250MCM | (1) 500-750MCM | |
| 400A | Normal Source | Per Phase | (1) 2/0-500MCM | (1) 500-750MCM | (1) #14-1/0 |
| | | Neutral | (1) 2/0-500MCM | (1) 500-750MCM | |
| | Alternate Source | Per Phase | (1) 2/0-500MCM | (1) 500-750MCM | |
| | | Neutral | (1) 2/0-500MCM | (1) 500-750MCM | |
| | Load | Per Phase | (1) 2/0-500MCM | (1) 500-750MCM | |
| | | Neutral | (1) 2/0-500MCM | (1) 500-750MCM | |
| 600A | Normal Source | Per Phase | (2) 400-500 MCM | N/A | (1) #14-1/0 |
| | | Neutral | (2) 400-500 MCM | | |
| | Alternate Source | Per Phase | (2) 400-500 MCM | | |
| | | Neutral | (2) 400-500 MCM | | |
| | Load | Per Phase | (2) 250 - 500 MCM | | |
| | | Neutral | 2) 250 - 500 MCM | | |
| 800A | Normal Source | Per Phase | (3) 500-750 MCM | (4) 4/0-500MCM | (1) #6-350MCM |
| | | Neutral | (3) 500-750 MCM | (4) 4/0-500MCM | |
| | Alternate Source | Per Phase | (3) 500-750 MCM | (4) 4/0-500MCM | |
| | | Neutral | (3) 500-750 MCM | (4) 4/0-500MCM | |
| | Load | Per Phase | (3) 500-750 MCM | (4) 4/0-500MCM | |
| | | Neutral | (3) 500-750 MCM | (4) 4/0-500MCM | |
| 1200A | Normal Source | Per Phase | (3) 500-750 MCM | (4) 4/0-500MCM | (1) #6-350MCM |
| | | Neutral | (3) 500-750 MCM | (4) 4/0-500MCM | |
| | Alternate Source | Per Phase | (3) 500-750 MCM | (4) 4/0-500MCM | |
| | | Neutral | (3) 500-750 MCM | (4) 4/0-500MCM | |
| | Load | Per Phase | (3) 500-750 MCM | (4) 4/0-500MCM | |
| | | Neutral | (3) 500-750 MCM | (4) 4/0-500MCM | |



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