

# Residential Generator Products

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# Manual Transfer Switches / Generator Panels

## Product Description

A Transfer Switch Panel is a device that is mounted next to or incorporated within the loadcentre (distribution panel) in the home or small business. The Transfer Switch Panel is used in conjunction with an emergency generator (usually supplied by others) and serves the purpose of turning selected circuits on and off during a power outage. The Transfer Switch Panel allows the owner to start up a generator and then restore power to critical circuits when utility power is not available.

The owner designates which circuits are critical such as their refrigerator, furnace, and certain lighting loads. Sometimes called Emergency Power Panels, Emergency Generator Panels, Gen. Panels, Transfer Switches or Emergency Panels; Transfer Switch Panels provide the homeowner or small business owner with a safe and easy way to continue using essential electrical loads when utility power is not available.

## Product Application

Transfer Switch Panels are most often used in residential, agricultural and light commercial applications. Comfort and safety are key concerns of many homeowners who are dependent on an uninterrupted supply of electricity.

The increase in our dependence on power is due in part to the popularity of home business and in-home care. In addition, various rural and urban regions in

North America experience periodic power outages due to extreme weather conditions such as ice and snowstorms, heat waves, tornadoes or hurricanes. Regions such as Pacific, Atlantic, and Central are the strongest markets for portable generators and Transfer Switch Panels. Features, Functions, and Benefits  
Eaton offers two unique manual transfer switch emergency power solutions.

- Manual Transfer Switches or a Generator sub-panel.
- Combination Service Entrance Loadcentre with Generator Sub-panel.



CPL112G3



CPM126GEN

## Manual Transfer Switches / Generator Panels

- Main utility and emergency (generator) breaker factory installed.
- Available in 30 and 60 ampere design.
- Utility breaker and generator breakers are mechanically interlocked to protect equipment and personnel by preventing dangerous dual-source feeding.
- Critical loads permanently connected to allow for quick and convenient switching from utility power to stand-by generator power.
- Designed for switched neutral applications. Can be reconfigured in field for non-switched neutral applications.
- Sturdy and reliable 125A rated aluminum bus design.
- Type BR/DNPL branch breakers sold separately.
- Ideal for new and retrofit installations.
- EEMAC 1 indoor enclosure design.

## Standards and

### Certifications

- CSA approved.

## Product Specifications

- 10,000 AIC Rating.
- Switching devices must be circuit breakers.
- Transfer switch panel must be supplied with neutral and ground.

## Combination Service Entrance Loadcentre Generator Panels

- Single enclosure (EEMAC 1) to house both loadcentre and generator breakers
- Factory installed main breakers.
- Available in 100 and 200 ampere designs.
- Utility and emergency transfer switch breaker factory installed.
- Utility breaker and generator breakers are mechanically interlocked to protect equipment and personnel by preventing dangerous dual-source feeding.
- Critical loads permanently connected to allow for quick and convenient switching from utility power to stand-by generator power.
- Designed for switched neutral applications. Can be reconfigured in field for non-switched neutral applications.
- Type BR/DNPL branch breakers sold separately.
- Ideal for new and retrofit installations.
- EEMAC 1 indoor enclosure design.

## Standards and

### Certifications

- CSA approved.

## Product Specifications

- 10,000 AIC rating for CPM126GEN
- 25,000 AIC rating for CPM236GEN
- Switching devices must be circuit breakers.
- Transfer switch panel must be supplied with neutral and ground

# Manual Transfer Switches / Generator Panels

## Product Selection

Table 1. Manual Transfer Switches/ Generator Panels

Catalogue Number	Bus Rating (A)	Generator Breaker (A)	Switched Neutral	Enclosure Rating	Max. Generator Branch Circuits	Inlet Receptacle Type	Height Branch Circuits (Inches / mm)	Width (Inches / mm)	Depth (Inches / mm)
CPL112G3	125	30	Yes	EEMAC 1	6 / 12	-	16.750 / 425.45	14.375 / 365.13	3.875 / 98.43
CPL112G6	125	60	Yes	EEMAC 1	6 / 12	-	16.750 / 425.45	14.375 / 365.13	3.875 / 98.43
CPL120G6	125	60	Yes	EEMAC 1	14 / 28	-	21.000 / 533.40	14.375 / 365.13	3.875 / 98.43
CPL130G6	125	60	Yes	EEMAC 1	24 / 48	-	29.125 / 739.78	14.375 / 365.13	3.875 / 98.43

Table 2. Combination Service Entrance Loadcentre Generator Panel

Catalogue Number	Bus Rating (A)	Loadcentre Main Breaker (A)	Max. Total Branch Circuits	Generator Breaker (A)	Switched Neutral	Max. Generator Branch Circuits	Height (Inches / mm)	Width (Inches / mm)	Depth (Inches / mm)
CPM126GEN	125	100	26/52	30	Yes	6/12	39.000 / 990.60	14.375 / 365.13	3.875 / 98.43
CPM236GEN	200	200	36/72	60	Yes	6/12	45.000 / 1143	14.375 / 365.13	3.875 / 98.43

Table 3. Portable Generator Power Inlet Box

Catalogue Number	Ampere Rating (A)	Inlet Receptacle Type	Enclosure Rating	Height (Inches / mm)	Width (Inches / mm)	Depth (Inches / mm)
EGSPIB30	30	L14-30	NEMA 3R	6 / 152.4	6 / 152.4	5 / 127

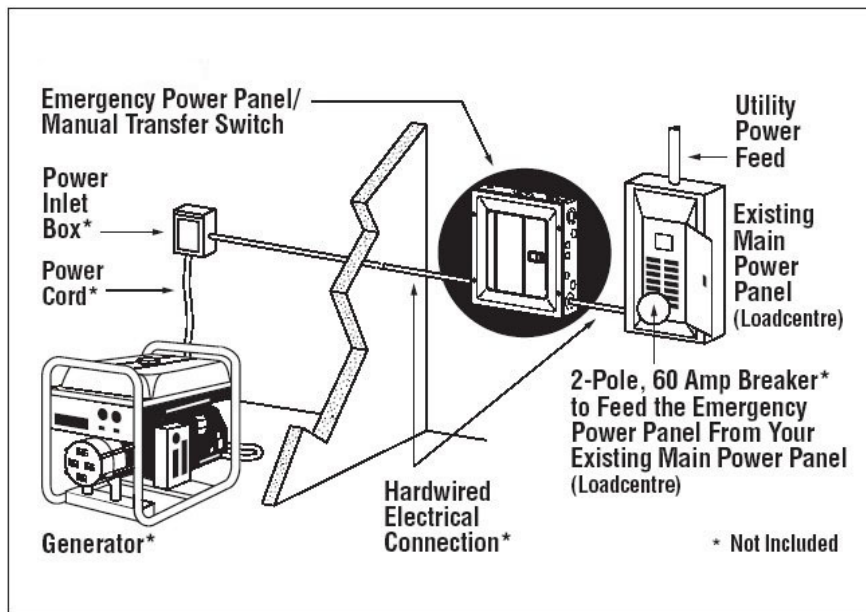


Figure 1. Typical Installation Diagram

### Notes:

- Combination Service Entrance Loadcentre Generator Panels come complete with an integrated emergency generator panel.
- Combination Service Entrance Loadcentre Generator Panels come complete with factory installed utility feeder breaker for emergency generator panel section.

# Home Standby Generators

## Product Description

Home standby generators are designed to provide substitute electrical power to a residence in the event of a utility power outage or other emergency.

The standby generators are available with natural gas or liquified propane powered OHVI engines. All models are field convertible from one fuel type to the other.

Standby generators are most often used in residential, agricultural and light commercial applications. Comfort and safety are key concerns of many homeowners who are dependent on an uninterrupted supply of electricity.

The Eaton brand generators are available in 8,000W; 11,000W; 16,000W; 20,000W; and 22,000W models.



EGENA16



EGENX22A

Table 4. Typical Load Wattages

Device	Running Watts
Air Conditioner (12,00 BTU)	1700
Air Conditioner (24,00 BTU)	3800
Air Conditioner (40,00 BTU)	6000
Battery Charger (20A)	500
Circular Saw (6.5")	800-1000
Clothes Dryer (Electric)	5750
Clothes Dryer (Gas)	700
Clothes Washer	1150
Coffee Maker	1750
Compressor (1/2 Hp)	1400
Compressor (3/4 1Hp)	1800
Compressor (1 Hp)	2000
Curling Iron	700
Dehumidifier	650
Electric Blanket	400
Electric Range (per element)	1500
Electric Skillet	1250
Freezer	700
Furnace (3/4 Hp)	875
Garage Door Opener	500-750
Hair Dryer	1200-1500

Device	Running Watts
Hand Drill	250-1100
Iron	1200
Jet Pump	800
Light Bulb	100
Microwave Oven	700-1000
Milk Cooler	1100
Oil Burner on Furnace	300
Oil Fired Space Heater (30,000 BTU)	150
Oil Fired Space Heater (85,000 BTU)	225
Oil Fired Space Heater (140,000 BTU)	400
Radio	50-200
Refrigerator	700
Slow Cooker	200
Submersible Pump (1/2 Hp)	1500
Submersible Pump (1 Hp)	2000
Submersible Pump (1.5 Hp)	2800
Sump Pump	800-1050
Table Saw (10")	1750-200
Television	200-500
Toaster	1000-1650

## Notes:

- The rated wattage of lights can be taken from light bulbs. The rated wattage of tools, appliances and motors can usually be found on a data plate or decal affixed to the device.
- If the appliance, tool or motor does not give wattage, multiply 120 volts times the ampere rating to determine watts (volts x amps = watts).
- Some electric motors (induction types) require about three times more watts of power for starting than for running. This surge lasts for only a few seconds. Be sure you allow for this high starting wattage when selecting electrical devices that will be energized by the backup power system:
  - Figure the watts required to start the largest motor.
  - Add that to the total running watts of all other connected loads.

# Home Standby Generators

## Features, Benefits and

### Functions

Eaton generator systems offer a wide range of features.

All systems feature:

- User friendly digital controller.
- Electronic governor for consistent run speed.
- Composite mounting pad.
- Field conversion to natural gas or LP fuel.

- Superior electrical harmonics for flawless operation of sensitive electronics.
- Aluminum housing Standard.
- Durable electrostatically applied texturized paint.

Quiet test exercise (low speed) on 16 and 22kW.

### Accessories

- Engine Oil (included)
- Battery Warmer (purchased separately)
- Trim out fascia purchased separately (standard on 22kW Aluminum)

If Programmable exerciser, can be set to: Weekly/Bi-Weekly/Monthly

## Standards and Certifications

- All transfer switches are CSA and UL listed as Transfer Switches.
- All generators are cULus and UL 2200 listed.

Table 5. Home Standby Generators Product Selection

Description	Catalogue Number			
	EGENA9	EGENA11	EGENA16	EGENA22
Rated Maximum Continuous Power Capacity (Watts) <sup>a</sup>				
- Liquid Propane (LP)	9,000	11,000	16,000	22,000
- Natural Gas (NG)	8,000	10,000	16,000	19,500
Voltage (Vac) Frequency	120 / 240, Single Phase 60Hz			
Rated Maximum Load Current Amps (A) 240V (NG/LP)	33.3/37.5	41.7 /45.8	66.6 /66.6	81.3 /91.6
Operation	Fully Automatic	Fully Automatic	Fully Automatic	Fully Automatic
Run Time	Continuous-based on Fuel Supply			
Engine	426cc	530cc	999cc	999cc
Engine Type	OHVI	OHVI V-Twin	OHVI V-Twin	OHVI V-Twin
Fuel Natural Gas (ft <sup>3</sup> / hour):				
- 1/2 Load	109	123	193	184
- Full Load	133	199	312	281
Fuel LP Vapour (litres / hour):				
- 1/2 Load	3.79	4.49	7.2	8.16
- Full Load	5.66	7.62	12.07	13.94
RPM	3600	3600	3600	3600
Sound Rating (@ 7m)	66dB(A)	63dB(A)	66dB(A)	67dB(A)
Sound rating Low Speed Exercise	NA	NA	58dB(A)	58dB(A)
System Exerciser	Programmeable	Programmable	Programmable	Programmable
Generator Circuit Breaker Amperage (A)	40	50	70	100
Diagnostic Alerts	6 Functions	6 Functions	6 Functions	6 Functions
Dimensions (L x W x H) (Inches / mm)	48 x 25 x 29 1219 x 635 x 737	48 x 25 x 29 1219 x 635 x 737	48 x 25 x 29 1219 x 635 x 737	48 x 25 x 29 1219 x 635 x 737
Housing Construction	Aluminum	Aluminum	Aluminum	Aluminum
Weight (lbs) / (kg)	340 / 154	348 / 158	409 / 186	466 / 211
Battery Requirement (not included)	Group 26R, 12V, 350 CCA Minimum	Group 26R, 12V, 525 CCA Minimum		
Temperature Operating Range	-20°F (-28.8°C) to 77°F (25°C)			
Warranty	5 Years Limited	5 Years Limited	5 Years Limited	5 Years Limited

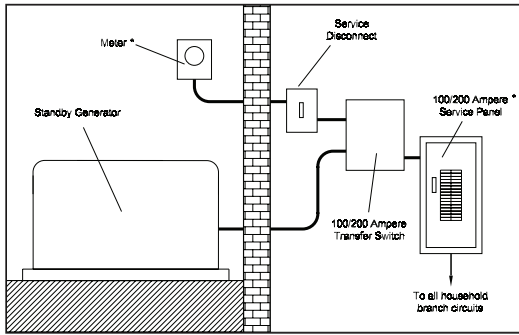
Maximum wattage and current are subject to and limited by such factors as fuel BTU content, ambient temperature, altitude, engine power and condition, etc. Maximum power decreases about 3.5% for each 1,000 feet above sea level; and also will decrease about 1% for each 6°C (10°F) above 16°C (60°F) ambient temperature.

<sup>b</sup> Load current values shown for 120V are maximum TOTAL values for two separate circuits. The maximum current in each circuit must not exceed the value stated for the 240V.

# Residential Automatic Transfer Switches

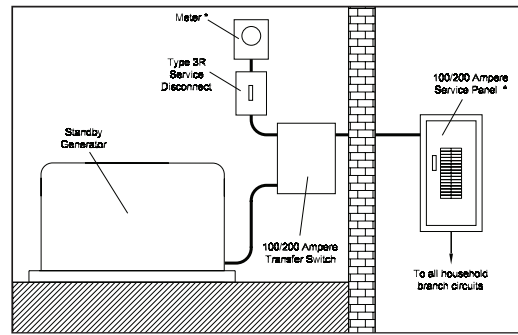
50, 100, and 200 Ampere Automatic Transfer Switches

Figure 2. Whole House Wiring Configuration



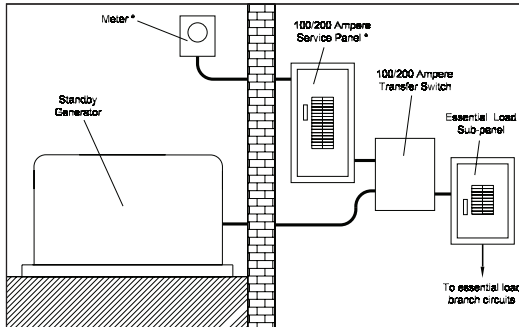
Indoor Installation

Figure 3. Whole House Wiring Configuration



Outdoor Installation

Figure 4. Essential Load Wiring Configuration



Indoor Installation

Notes: \* Not Included

## Dimensions

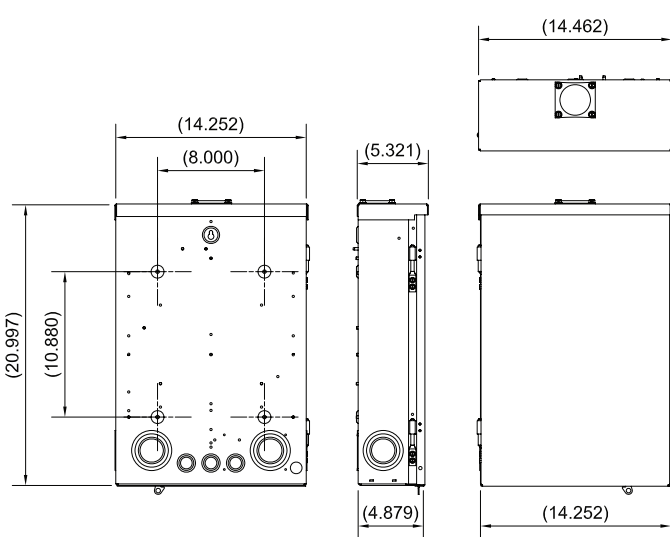


Figure 5. EGSX50L12R 50A Residential Automatic Transfer Switch

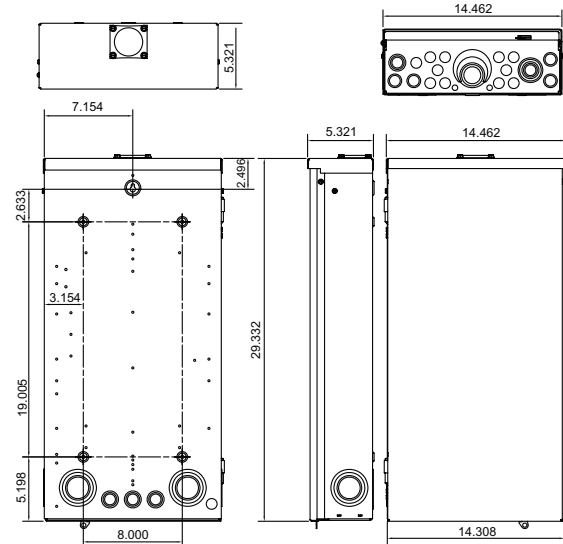


Figure 6. EGSX100L24RA, EGSC100ASE, EGSC200ASE, EGSCA100ASE and EGSCA200ASE 100A and 200A Residential Automatic Transfer Switches

# Home Standby Generator Accessories

## Enclosed Service Entrance Rated Circuit Breakers



ECCSEGEN20R

### Product Description

In applications where a whole house transfer is being performed a separate service entrance rated disconnect means is required. Figures 2 and 3 on page 7 of this guide show a typical whole house transfer configuration. The difference between these two configurations is the mounting location of the service entrance disconnect and residential automatic transfer switch. Eaton offers both an indoor NEMA® 1 and outdoor NEMA 3R rated enclosed circuit breaker in either a 100 ampere or 200 ampere rating.

## Air Cooled Generator Accessories

### Product Description

Eaton offers a number of accessories for its line of air cooled standby generators. Some of those include cold weather kits with battery and crank case heaters, preventative maintenance kits for engine servicing, and wireless remote keypads for monitoring generator status.

## Product Selection

Table 8. Enclosed Service Entrance Rated Breakers

Description	Catalogue Number			
	ECSEGEN100	ECCSEGEN200	ECSEGEN10R	ECCSEGEN20R
Voltage (V)	120 / 240	120 / 240	120 / 240	120 / 240
Amperes (A)	100	200	100	200
Poles	2	2	2	2
CSA Approved	Yes	Yes	Yes	Yes
Withstand Rating (kAIC)	10	25	10	25
Circuit Breaker Type	BR	CSR	BR	CSR
Wire Size	#14 - 1/0	#2 - 300kcmil	#14 - 1/0	#2 - 300kcmil
Enclosure Rating	NEMA 1	NEMA 1	NEMA 3R	NEMA 3R
Depth (Inches / mm)	3- <sup>1</sup> / <sub>4</sub> / 82.55	4- <sup>1</sup> / <sub>2</sub> / 114.30	4 / 101.60	5- <sup>7</sup> / <sub>16</sub> / 138.11
Width (Inches / mm)	6- <sup>3</sup> / <sub>4</sub> / 171.45	8- <sup>7</sup> / <sub>8</sub> / 225.42	6- <sup>1</sup> / <sub>2</sub> / 165.10	9- <sup>5</sup> / <sub>16</sub> / 236.54
Height (Inches / mm)	11- <sup>1</sup> / <sub>2</sub> / 292.10	23- <sup>1</sup> / <sub>4</sub> / 590.55	11- <sup>1</sup> / <sub>2</sub> / 292.10	23- <sup>11</sup> / <sub>16</sub> / 601.66
Weight (lbs / kg)	3.2 / 1.45	15 / 6.8	3.3 / 1.5	15 / 6.8

100A Units use the DS\*\*\*H1 conduit hubs. 200A units use the DS\*\*\*H2 conduit hubs

NEMA is a registered trademark and service mark of the National Electrical Manufacturers' Association

## Product Selection

Table 9. Air Cooled Standby Generator Accessories

Description	Catalogue Number
Battery Warmer 8kW to 22kW Air Cooled Generators	7101CH
Oil Filter Warmer 8kW to 22kW Air Cooled Generators	7102CH
Breather Warmer 8kW to 22kW Air Cooled Generators	7103CH
For generators with Nexus Controllers (EGEN models, pre June 2013)	
8kW Preventative Maintenance Kit	5662CH
10kW Preventative Maintenance Kit	5663CH
14 & 17kW Preventative Maintenance Kit	5664CH
20kW Preventative Maintenance Kit	5665CH
For generators with Evolution Controllers (EGENX models, post June 2013 and current EGENA models)	
8kW and 9 kW Preventative Maintenance Kit	6482CH
11kW Preventative Maintenance Kit	6483CH
EGENX16 Preventative Maintenance Kit	6484CH
EGENA16, EGENA22 and EGENX22A Preventative Maint. Kit	6485CH
Replacement Bottom skirting, fits 8kW to 22kW	EGENFASCIA
Remote Wireless Monitor: Wireless transmission of generator status (Green/Yellow/Red) to indoor location, within 500ft line of sight	EGENMONITOR
Transportation Cart	5685CH

### Note:

For availability of additional spare parts please contact your local Eaton sales representative or call our Customer Service Centre at 1-800-268-3578

# Residential Automatic Transfer Switches

50, 100, and 200 Ampere Automatic Transfer Switches

## Product Description

All of the below switches are “utility sense” type of switches and automatically transfer to the appropriate source of power when signalled from the generator. 100 and 200 ampere (A) switches are capable of ‘whole house’ power transfer in residential/small business applications. 100 and 200A switches can also be used in conjunction with a sub-panel where switching of critical loads is desired.

The 50 and 100A combination critical load panel and transfer switch models provide a clean and convenient single enclosure solution for critical load applications. The 12 or 24 circuit loadcentre incorporated into these models utilize the 3/4” width Type CH circuit breakers.



EGSX50L12R



EGSX100A and EGX200A



EGSX100L24RA

## Product Selection

Table 6. Residential Automatic Transfer Switches

Description	Catalogue Number			
	EGSX50L12R	EGSX100L24RA	EGSX100A	EGSX200A
Voltage (V)	120/240	120/240	120/240	120/240
Circuits	12 <sup>d</sup>	24 <sup>d</sup>	Whole House or Essential Loads	Whole House or Essential Loads
Amperes (A)	50	100	100	200
Poles	2	2	2	2
Frequency (Hz)	50/60	50/60	50/60	50/60
CSA Listed	Yes	Yes	Yes	Yes
Withstand Rating (AIC)	5,000	25,000 <sup>b</sup>	22,000 <sup>b</sup>	25,000 <sup>c</sup>
Switch Type	Electrically Held Contactor	Mechanically Held Contactor	Mechanically Held Contactor	Mechanically Held Contactor
Enclosure <sup>a</sup>	Type 3R (outdoor)	Type 3R (outdoor)	Type 3R (outdoor)	Type 3R (outdoor)
Depth (Inches / mm)	5 / 127	5.32 / 135.13	5.32 / 135.13	5.32/ 133.35
Width (Inches / mm)	14.25 / 361.95	14.46 / 367.28	14.46 / 367.28	14.46 / 367.28
Height (Inches / mm)	21 / 533.40	29.33 / 744.98	16.87 / 428.50	25.08 / 637.03
Weight (lbs / kg)	30.7 / 13.92	38 / 17.24	35 / 15.88	40 / 18.14
Breaker Packs Available	CHGENPAK12R -	Contains Qty 4 CHF115, Qty 1 CHF220 and qty 1 CHF240		
	CHGENPAK24R -	Contains Qty 8 CHF115, Qty 1 CHF220 and qty 1 CHF240		

<sup>a</sup> Can be used for Indoor applications.

<sup>b</sup> When protected by one of the following circuit breakers rated not more than 150 amperes. (Eaton/Cutler-Hammer BR, CH, FDC, CSR, CSH, BW, BWH; Siemens CED6, ED6, ED4, HED6, HED4.) Else rated 10,000 A rms at 240VAC maximum.

<sup>c</sup> When protected by one of the following circuit breakers rated not more than 400 amperes. (Eaton/Cutler-Hammer DK, KD, KDB, HKD, JDC, KDC, LCL, LA, JDB, JD, HJD, CSR, BW, BWH, FD, FDC; Siemens FD6-A, FXD6-A, HFD6, CFD6; Square D KI, LE, LX, LXI; General Electric SF, SFL, SFP.) Else rated 10,000 A rms at 240VAC maximum.

<sup>d</sup> Utilize the 3/4” width Type CH Circuit breakers found in the Residential Distribution Products Guide.



# Residential Automatic Transfer Switches

## 100, and 200 Ampere Service Entrance Automatic Transfer Switches

### Product Description

Our Service Entrance (SE) Rated switches combine the SE Disconnect and ATS in one convenient enclosure. They are available in two styles; Basic (EGSC line) and Advanced (EGSCA line). The basic line relies on the generator to monitor utility and generator voltages and will automatically transfer to the appropriate source of power when signalled from the generator. The Advanced line of switches are compatible with utility sense and engine start type generators, and do not require a transfer signal from the generator. They also feature LED position indicators and source availability indicators.

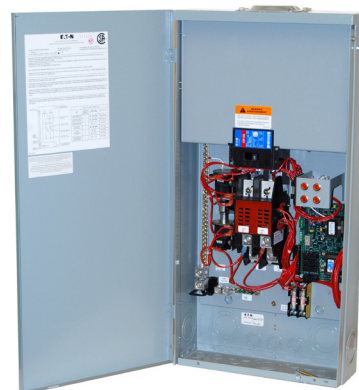
The Advanced units have the load management capabilities of the RTC-100 control board. (separate Current Transformer's (CT's) needs to be purchased for this functionality, quantity 1 PN CS200) Two sets of contacts are available to control large connected loads based on available generator capacity.

#### Standards and Certifications

- CSA approved.

#### Product Specifications

- 10,000 Symmetrical Amperes withstand rating
- 120/240 VAC 60Hz 2-pole
- -20°C to +40°C (-4°F to +104°F) Operating temperature



EGSCA200ASE  
(cover plate removed)

### Product Selection

Table 7. SE Residential Automatic Transfer Switches

Description	Catalogue Number			
	EGSC100ASE	EGSC200ASE	EGSCA100ASE	EGSCA200ASE
Type	Basic - Relay	Basic - Relay	Advanced - RTC-100	Advanced - RTC-100
Voltage (V)	120/240	120/240	120/240	120/240
Circuits	Whole House or Essential Loads	Whole House or Essential Loads	Whole House or Essential Loads	Whole House or Essential Loads
Amperes (A)	100	200	100	200
Poles	2	2	2	2
Frequency (Hz)	50/60	50/60	50/60	50/60
CSA Listed	Yes	Yes	Yes	Yes
Withstand Rating (AIC)	10,000	10,000	10,000	10000
Switch Type	Mechanically Held Contactor	Mechanically Held Contactor	Mechanically Held Contactor	Mechanically Held Contactor
Enclosure <sup>a</sup>	Type 3R (outdoor)	Type 3R (outdoor)	Type 3R (outdoor)	Type 3R (outdoor)
Depth (Inches / mm)	5.32 / 135.13	5.32 / 135.13	5.32 / 135.13	5.32 / 135.13
Width (Inches / mm)	14.46 / 367.28	14.46 / 367.28	14.46 / 367.28	14.46 / 367.28
Height (Inches / mm)	29.33 / 744.98	29.33 / 744.98	29.33 / 744.98	29.33 / 744.98

Can be used for Indoor applications.  
These products use the DS\*\*\*H2 Style Hubs

# Residential Automatic Transfer Switches

## 400 Ampere Service Entrance Automatic Transfer Switches

### Product Description

Our Service Entrance (SE) Rated switches combine the SE Disconnect and ATS in one convenient enclosure. They are available in two styles; Basic (EGSC line) and Advanced (EGSCA line). The basic line relies on the generator to monitor utility and generator voltages and will automatically transfer to the appropriate source of power when signalled from the generator. The Advanced line of switches are compatible with utility sense and engine start type generators, and do not require a transfer signal from the generator. Both types feature LED position indicators and source availability indicators.

The Advanced units have the load management capabilities of the RTC-100 control board. (separate Current Transformer's (CT's) needs to be purchased for this functionality, quantity 1 PN CS400) Two sets of contacts are available to control large connected loads based on available generator capacity.

### Standards and Certifications

- CSA approved.

### Product Specifications

- 35,000 Symmetrical Amperes withstand rating
  - 120/240 VAC 60Hz 2-pole
  - -20°C to +40°C (-40°F to +104°F)
- Operating temperature when used with optional heater kit HEATKIT400
- -40°C to +40°C (-40°F to +104°F)



EGSCA400ASE

Description	Catalogue Number	
	EGSC400ASE	EGSCA400ASE
Voltage (V)	120/240	120/240
Amperes (A)	400	400
Poles	2	2
Frequency (Hz)	50/60	50/60
CSA Listed	Yes	Yes
Withstand Rating (AIC)	35,000	35,000 <sup>b</sup>
Switch Type	Electrically Held Contactor	Mechanically Held Contactor
Enclosure <sup>a</sup>	Type 3R (outdoor)	Type 3R (outdoor)
Depth (Inches / mm)	11.14 / 283	11.14 / 283
Width (Inches / mm)	26.5 / 673	26.5 / 673
Height (Inches / mm)	45.11 / 1146	45.11 / 1146
Weight (lbs / kg)	156 / 71	156 / 71
Options Available	HEATKIT400	HEATKIT400
	Heater and thermostat kit	Heater and thermostat kit
		CS400 Current Sensors to use Load management

Can be used for Indoor applications.

# Residential Automatic Transfer Switches

50, 100, and 200 Ampere Automatic Transfer Switches

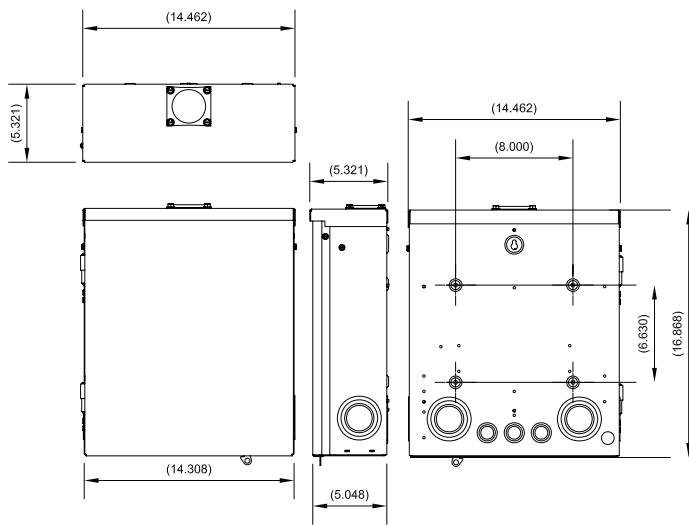


Figure 7. EGSX100A 100A Residential Automatic Transfer Switch

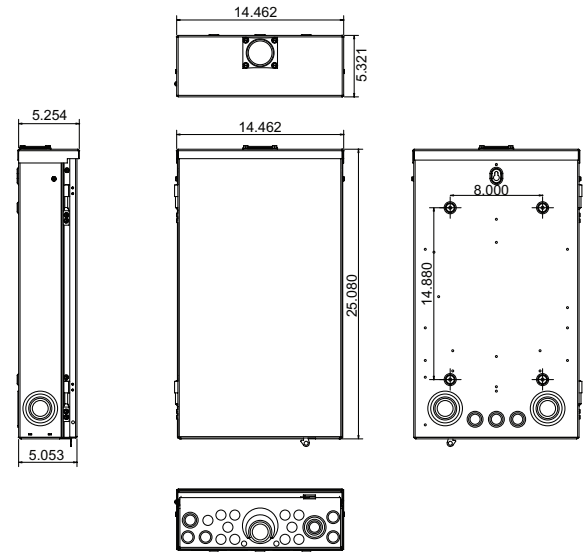


Figure 8. EGSX200A Residential Automatic Transfer Switch

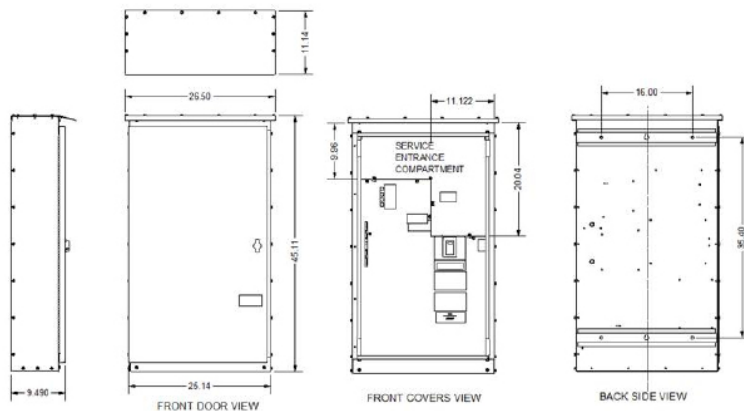


Figure 9. EGSC400ASE Residential Automatic Transfer Switch

Table 7. Transfer Switch Conduit Hub Selection

Catalogue Number	Description	Transfer Switch Application
DS075H1	3/4" Conduit Hub	EGSX50L12R, EGSX100L24RA, and EGSX100A
DS100H1	1" Conduit Hub	EGSX50L12R, EGSX100L24RA, and EGSX100A
DS125H1	1-1/4" Conduit Hub	EGSX50L12R, EGSX100L24RA, and EGSX100A
DS150H1	1-1/2" Conduit Hub	EGSX50L12R, EGSX100L24RA, and EGSX100A
DS200H1	2" Conduit Hub	EGSX50L12R, EGSX100L24RA, and EGSX100A
DS100H2	1" Conduit Hub	EGSX200A, EGSC Line and EGSCA Line
DS125H2	1-1/4" Conduit Hub	EGSX200A, EGSC Line and EGSCA Line
DS150H2	1-1/2" Conduit Hub	EGSX200A, EGSC Line and EGSCA Line
DS200H2	2" Conduit Hub	EGSX200A, EGSC Line and EGSCA Line
DS250H2	2-1/2" Conduit Hub	EGSX200A, EGSC Line and EGSCA Line
DS300H2	3" Conduit Hub	EGSX200A, EGSC Line and EGSCA Line

# Specialty Metering Products

## Metered Manual Transfer Switches

### Product Description

A metered manual transfer switch is service entrance equipment that consists of a single meter socket and a manual transfer switch. The manual transfer switch is comprised of a service entrance rated utility breaker and an emergency generator breaker that are mechanically interlocked to prevent dangerous dual source feeding.

Metered manual transfer switches are increasing in popularity as the socket and manual transfer switch are located in one easy to install location, thus providing the contractor with a labour and material savings when being installed.

### Application Description

Metered manual transfer switches are typically installed in rural residential and agricultural service entrance applications where utility power outages are more frequent.

### Features, Functions, and Benefits

- Includes 200A rated meter socket.
- Main utility and emergency (generator) breaker factory installed.
- Available in 100 and 200A design.
- Utility breaker and generator breakers are mechanically interlocked to protect equipment and personnel by preventing dangerous dual-source feeding.
- Switched neutral design.

- 50, 100, and 200A Generator circuit breaker models.
  - Type 3R outdoor design.
- ### Standards and Certifications
- CSA approved.

### Product Specifications

- 25,000 AIC rating switched neutral models.
- Switching devices must be circuit breakers.



RCJ1SN1GEN

### Product Selection

Table 10. Metered Manual Transfer Switches

Description	Catalogue Number				
	RCJ1SN05GEN	RCJ1SN1GEN	RCJ2SN05GEN	RCJ2SN1GEN	RCJ2SN2GEN
Voltage (V)	120/240	120/240	120/240	120/240	120/240
Amperes (A)	100	100	200	200	200
Poles	2	2	2	2	2
Frequency (Hz)	60	60	60	60	60
Main Breaker (A)	100	100	200	200	200
Generator Breaker	50	100	50	100	200
Switched Neutral	Yes	Yes	Yes	Yes	Yes
CSA Listed	Yes	Yes	Yes	Yes	Yes
Withstand Rating	22,000	22,000	22,000	22,000	22,000
Switch Type	ED Type Moulded Case Circuit Breaker				
Enclosure	Type 3R (outdoor)	Type 3R (outdoor)	Type 3R (outdoor)	Type 3R (outdoor)	Type 3R (outdoor)
Height (Inches / mm)	32.375 / 822.3	32.375 / 822.3	32.375 / 822.3	32.375 / 822.3	32.375 / 822.3
Width (Inches / mm)	14.4375 / 366.7	14.4375 / 366.7	14.4375 / 366.7	14.4375 / 366.7	14.4375 / 366.7
Depth (Inches / mm)	5.375 / 136.5	5.375 / 136.5	5.375 / 136.5	5.375 / 136.5	5.375 / 136.5

# Specialty Metering Products

## Metered Manual Transfer Switches

Figure 10 Switched Neutral Metered Manual Transfer Switch Knockout Locations

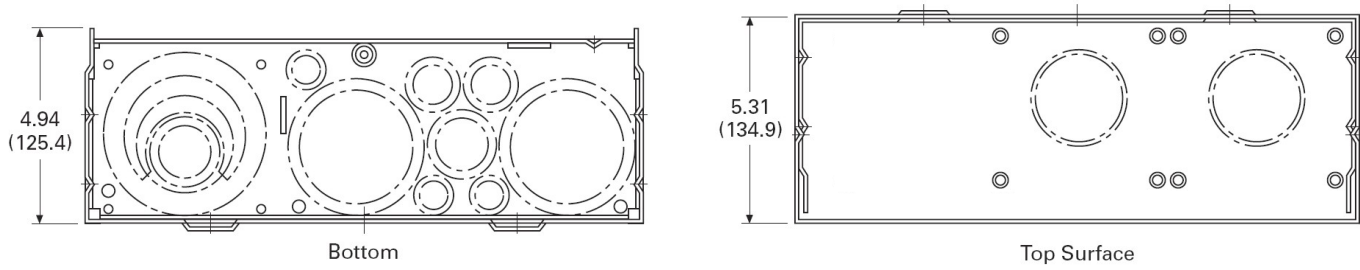


Table 11. Switched Neutral Metered Manual Transfer Switch Knockout Locations and Sizes

Location	Knockout Size (Inches (mm))	Quantity
Bottom	.31 (7.9)	3
Bottom	.50 (12.7)	3
Bottom	.50 . .75 (12.7, 19.1)	2
Bottom	.75, 1.00 (12.7, 25.4)	1
Bottom	1.25, 1.50, 2.00, 2.50 (31.8, 38.1, 50.8, 63.5)	2
Bottom	1.50, 2.00, 2.50, 3.00 (38.1, 50.8, 63.5, 76.2)	1
Top Endwall	Provision for Hub (e.g. DS200H2, DS250H2, DS300H2)	2
Backplane	1.00, 1.25, 1.50, 2.00, 2.50 (25.4, 31.8, 38.1, 50.8, 63.5)	2

# Specialty Metering Products

## Metered Service Entrance Rated Automatic Transfer Switch Engine Start Type

### Product Description

Combined in a single enclosure and factory wired is a 200A meter socket, service entrance rated circuit breaker disconnect, and an automatic transfer switch (ATS). The single enclosure assembly saves the installing contractor time and money while leaving the home owner with a cleaner and more attractive installation on the outside of their home.

Designed to work with standby generators that use a two wire start signal configuration. (Not for use with utility sense unless EGSUSKIT is purchased separately)

### Application Description

- New or retrofit residential standby generator installations
- Farm or rural properties

### Features, Functions, and Benefits

- Combined functionality in a single enclosure.
- Saves installation time and cost
- Service entrance approved for Canada
- 100 and 200A models
- Overhead and underground service entrance
- NEMA 3R indoor/outdoor enclosure
- Mechanically and electrically interlocked contactor assembly
- 200A Meter socket
- Factory wired circuit breaker service disconnect

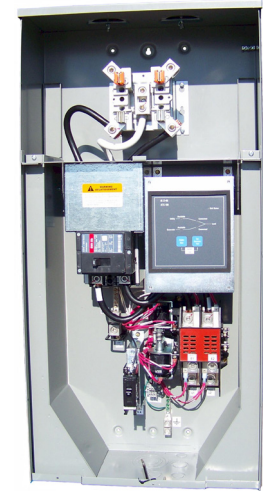
- Generator start signal terminal strip
- 1-Pole 15A Generator accessory circuit breaker
- ATC-100 Controller

### Standards and Certifications

- CSA approved.

### Product Specifications

- 10,000 Symmetrical Amperes withstand rating
- 120/240 VAC 60Hz 2-pole
- -20°C to +40°C (-4°F to +104°F) Operating temperature



EGS200AMSE  
(covers removed)

### Product Selection

Table 12. Metered Service Entrance Rated Automatic Transfer Switches

Description	Catalogue Number	
	EGS100AMSE	EGS200AMSE
Voltage (V)	120/240	120/240
Withstand Rating (Symmetrical Amperes at 240VAC Maximum)	10,000	10,000
Amperage (A)	100	200
Poles	2	2
Frequency (Hz)	60	60
Meter Socket Amperage (A)	200	200
Service Entrance Disconnect Means	Type BWH/CSR Circuit Breaker	Type BWH/CSR Circuit Breaker
Service Entrance Disconnect Amperage (A)	100	200
Transfer Switch Type	Mechanically and Electrically Interlocked Contactor	Mechanically and Electrically Interlocked Contactor
Contactor Amperage (A)	100	200
Switched Neutral	No	No
Controller	ATC-100	ATC-100
Generator Application	Two Wire Start Signal Generators	Two Wire Start Signal Generators
Accessory Circuit Breaker	1-pole 15A	1-pole 15A
CSA Listed	Yes	Yes
Enclosure	Type 3R (outdoor)	Type 3R (outdoor)
Height (Inches / mm)	36.19 / 919 (*CLX is 42.19/1072)	36.19 / 919 (*CLX is 42.19/1072)
Width (Inches / mm)	18.04 / 458	18.04 / 458
Depth (Inches / mm)	7.25 / 184	7.25 / 184
Weight (lbs/kg)	64 / 29.03	66 / 29.94

For 1/2" STUD type socket (Underground ONLY) add suffix CLX to PN

ex. EGS100AMSECLX

This product uses the 2 -1/2" Conduit Hub openings, ex: H2

# Specialty Metering Products

## Metered Service Entrance Rated Automatic Transfer Switch

### Utility Sense Type

#### Product Description

Combined in a single enclosure and factory wired is a 200A meter socket, service entrance rated circuit breaker disconnect, and an automatic transfer switch (ATS). The single enclosure assembly saves the installing contractor time and money while leaving the home owner with a cleaner and more attractive installation on the outside of their home.

Designed to work with standby generators that use a “utility sense” configuration and transfer signal from the generator

#### Application Description

- New or retrofit residential standby generator installations

#### Product Selection

Table 12. Metered Service Entrance Rated Automatic Transfer Switches

Description	Catalogue Number	
	EGSC100AMSE	EGSC200AMSE
Voltage (V)	120/240	120/240
Withstand Rating (Symmetrical Amperes at 240VAC Maximum)	10,000	10,000
Amperage (A)	100	200
Poles	2	2
Frequency (Hz)	60	60
Meter Socket Amperage (A)	200	200
Service Entrance Disconnect Means	Type BWH/CSR Circuit Breaker	Type BWH/CSR Circuit Breaker
Service Entrance Disconnect Amperage (A)	100	200
Transfer Switch Type	Mechanically and Electrically Interlocked Contactor	Mechanically and Electrically Interlocked Contactor
Contactor Amperage (A)	100	200
Switched Neutral	No	No
Controller	RELAY	RELAY
Generator Application	UTILITY SENSE Generators	UTILITY SENSE Generators
CSA Listed	Yes	Yes
Enclosure	Type 3R (outdoor)	Type 3R (outdoor)
Height (Inches / mm)	36.19 / 919 (*CLX is 42.19/1072)	36.19 / 919 (*CLX is 42.19/1072)
Width (Inches / mm)	18.04 / 458	18.04 / 458
Depth (Inches / mm)	7.25 / 184	7.25 / 184
Weight (lbs/kg)	64 / 29.03	66 / 29.94

For 1/2" STUD type socket (Underground ONLY) add suffix CLX to PN

ex. EGSC100AMSECLX

This product uses the 2 -1/2" Conduit Hub openings, ex: H2

#### Features, Functions, and Benefits

- Combined functionality in a single enclosure.
- Saves installation time and cost
- Service entrance approved for Canada
- 100 and 200 Ampere models
- Overhead and underground service entrance
- NEMA 3R indoor/outdoor enclosure
- Mechanically and electrically interlocked contactor assembly
- 200A Meter socket
- Factory wired N1 and N2 fuse block

#### Standards and Certifications

- CSA approved.

#### Product Specifications

- 10,000 Symmetrical Amperes withstand rating
- 120/240 VAC 60Hz 2-pole
- -20°C to +40°C (-4°F to +104°F) Operating temperature

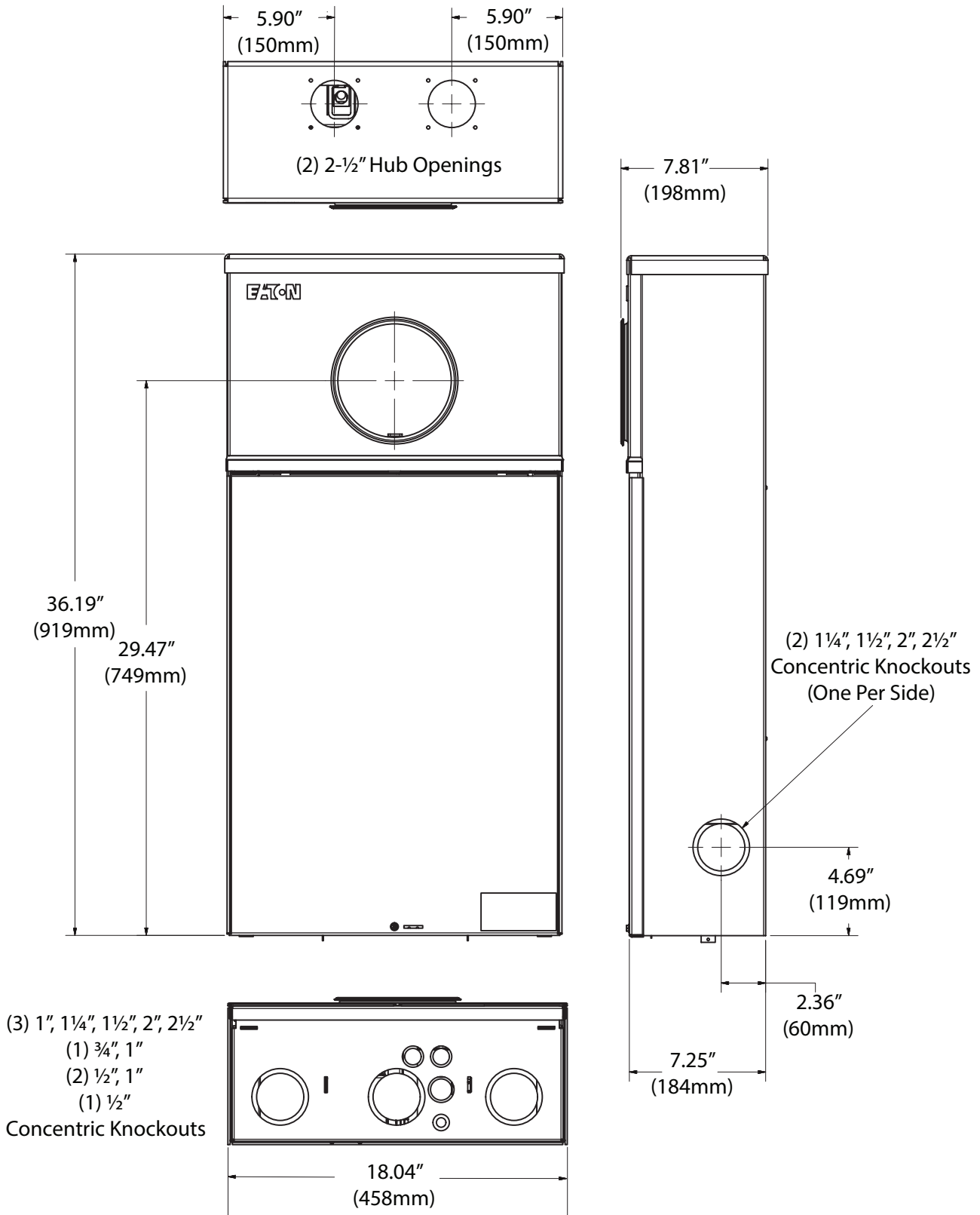


EGSC100AMSE  
(covers removed)

# Specialty Metering Products

## Metered Service Entrance Rated Automatic Transfer Switches

Figure 11. Metered Service Entrance Rated Automatic Transfer Switch Dimensions





# Catalogue Number Index

## Index

### Symbols

5662CH 5  
5663CH 5  
5664CH 5  
5665CH 5  
5828CH 5  
5951CH 5  
6212CH 5  
6482CH 5  
6483CH 5  
6484CH 5  
6485CH 5

### C

CPL112G3 2  
CPL112G6 2  
CPL120G6 2  
CPL130G6 2  
CPM126GEN 2  
CPM236GEN 2

### E

ECSEGEN100 5  
ECSEGEN10R 5  
ECSEGEN200 5  
ECSEGEN20R 5  
EGENA9 4  
EGENA11 4  
EGENA16 4  
EGENA22 4  
EGS100AMSE 12  
EGS100AMSECLX 12  
EGS200AMSE 12  
EGS200AMSECLX 12  
EGSCA100ASE 6  
EGSCA200ASE 6  
EGSCA400ASE 7  
EGSC100AMSE 13  
EGSC100AMSECLX 13  
EGSC100ASE 6  
EGSC200AMSE 13  
EGSC200AMSECLX 13  
EGSC200ASE 6  
EGSC400ASE 7  
EGSPIB30 2  
EGSX100A 5  
EGSX100L24RA 5  
EGSX200A 5  
EGSXC50L12R 5

### R

RCJ1SN05GEN 10  
RCJ1SN1GEN 10  
RCJ2SN05GEN 10  
RCJ2SN1GEN 10  
RCJ2SN2GEN 10