

## Save time and money, plus increase home value!

### Generator Ready Load Center

[usa.siemens.com/generators](http://usa.siemens.com/generators)

The Siemens generator ready load center can save thousands of dollars in future generator installation expenses while keeping initial expenses to a minimum. Works with an automatic standby generator or a portable generator.

#### Load center features:

- UL Listed
- Indoor Type 1 and outdoor Type 3R
- 225A max rated
- Flush or surface mounting
- Fits between standard stud centers
- Tin plated copper bus bars
- 22 kAIC rated
- 120/240V ~
- Main lug – convertible to main breaker with addition of MBK150A, MBK200A, or MBK225A for Siemens
- Main breaker – convertible to main lug with use of lug kit part no. ECMLK225
- Installation of transfer mechanism can be performed at time of generator installation

#### Automatic transfer switch features:

- UL Listed
- Operates automatically when connected to generator
- Transfers load from utility to generator and back to utility



NEMA 1 indoor



NEMA 3R outdoor

## Features

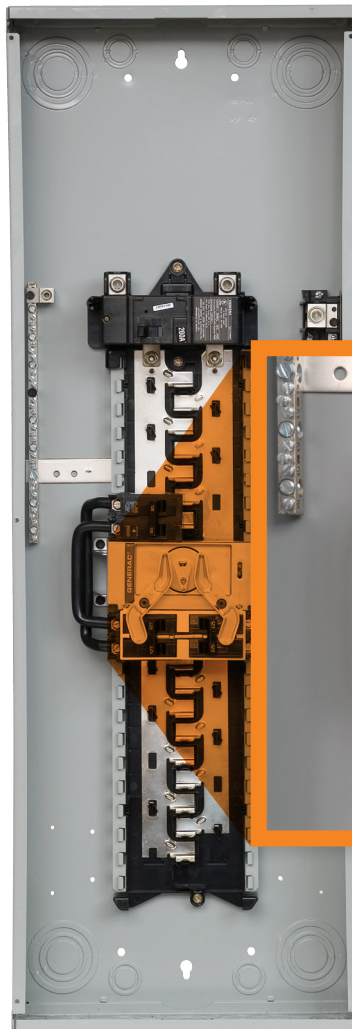
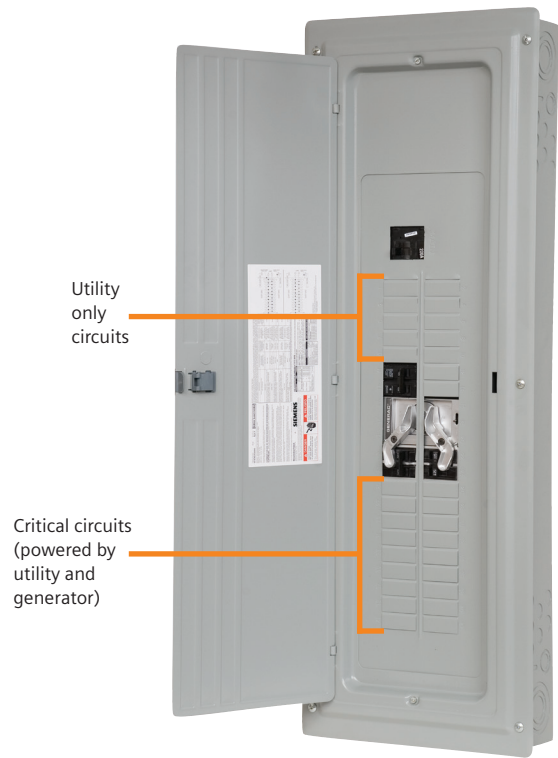
Instead of having one interior like standard load centers, the Siemens generator ready load center has two interiors. During normal operating utility conditions, both interiors are powered. During generator back up conditions, only the lower interior containing critical circuits is powered.

Since standby generators are hard wired into the home's electrical system, and plumbed into the natural gas or propane supply, installing them after the home construction is complete can be costly and time consuming.

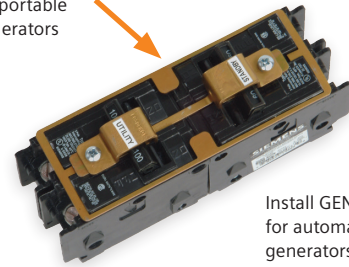
During construction, a Siemens generator ready load center can be installed eliminating the need for future rewiring. Pre-planning on the builder's part should also include running a gas line to the future generator site, and installing a junction box.

Generator ready load centers are available in both 30 space / 42 circuit and 42 space / 54 circuit sizes in NEMA 1 enclosures as well as a 30 space / 42 circuit NEMA 3R version.

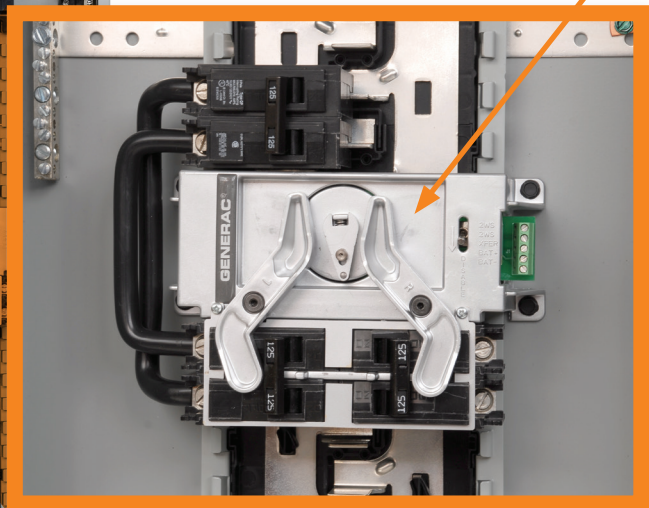
The generator ready load center is compatible with Siemens, Generac, Guardian, and Centurion type standby generators up to 30 kW in size, and any brand of portable generator up to 125A in output.



Install ECSBPK01 for portable generators



Install GENTFRSWTCH for automatic standby generators



Visit [usa.siemens.com/generators](http://usa.siemens.com/generators) for more information on Siemens Standby Generators including model numbers, manuals, contractors and cut sheets.

# Catalog numbers

## Indoor Enclosure - NEMA Type 1

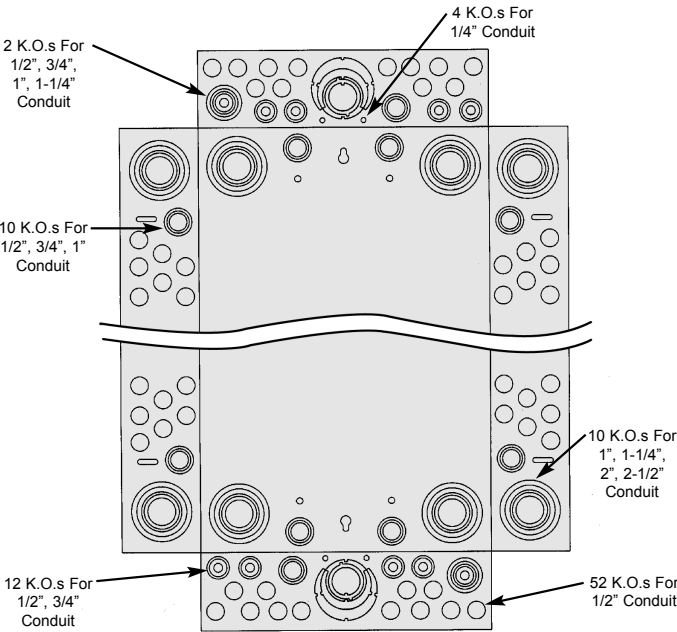
| Amp Rating | No. of Spaces | No. of Circuits | Catalog Number | Dimensions (inches) |       |       |
|------------|---------------|-----------------|----------------|---------------------|-------|-------|
|            |               |                 |                | Height              | Width | Depth |
| 200        | 30            | 42              | G3042B1200GEN  | 42                  | 14.25 | 4     |
| 225        | 30            | 42              | G3042L1225GEN  | 42                  | 14.25 | 4     |
| 200        | 42            | 54              | G4254B1200GEN  | 46                  | 15.63 | 5     |
| 225        | 42            | 54              | G4254L1225GEN  | 46                  | 15.63 | 5     |

## Outdoor Enclosure - NEMA Type 3R

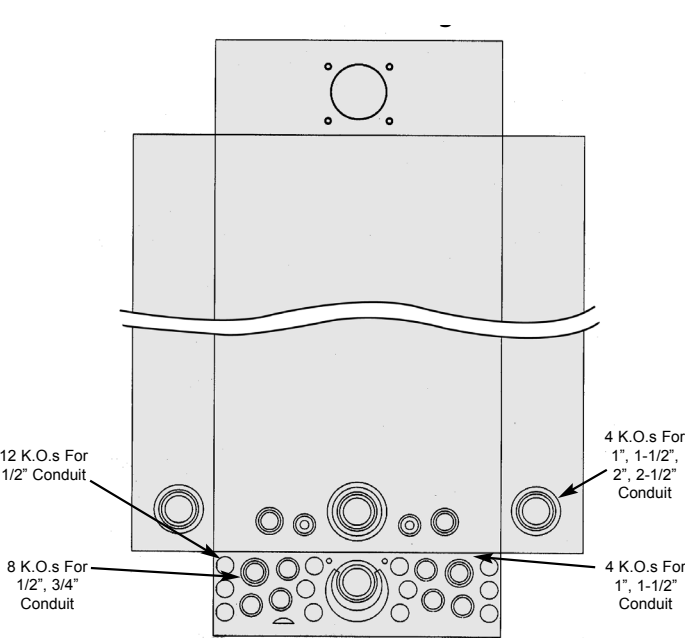
| Amp Rating | No. of Spaces | No. of Circuits | Catalog Number | Dimensions (inches) |       |       |
|------------|---------------|-----------------|----------------|---------------------|-------|-------|
|            |               |                 |                | Height              | Width | Depth |
| 200        | 30            | 42              | W3042B1200GEN  | 42                  | 14.63 | 4     |
| 225        | 30            | 42              | W3042L1225GEN  | 42                  | 14.63 | 4     |

\*2 spaces & 2 circuits are reserved for standby generator installation.

# Knockout diagrams

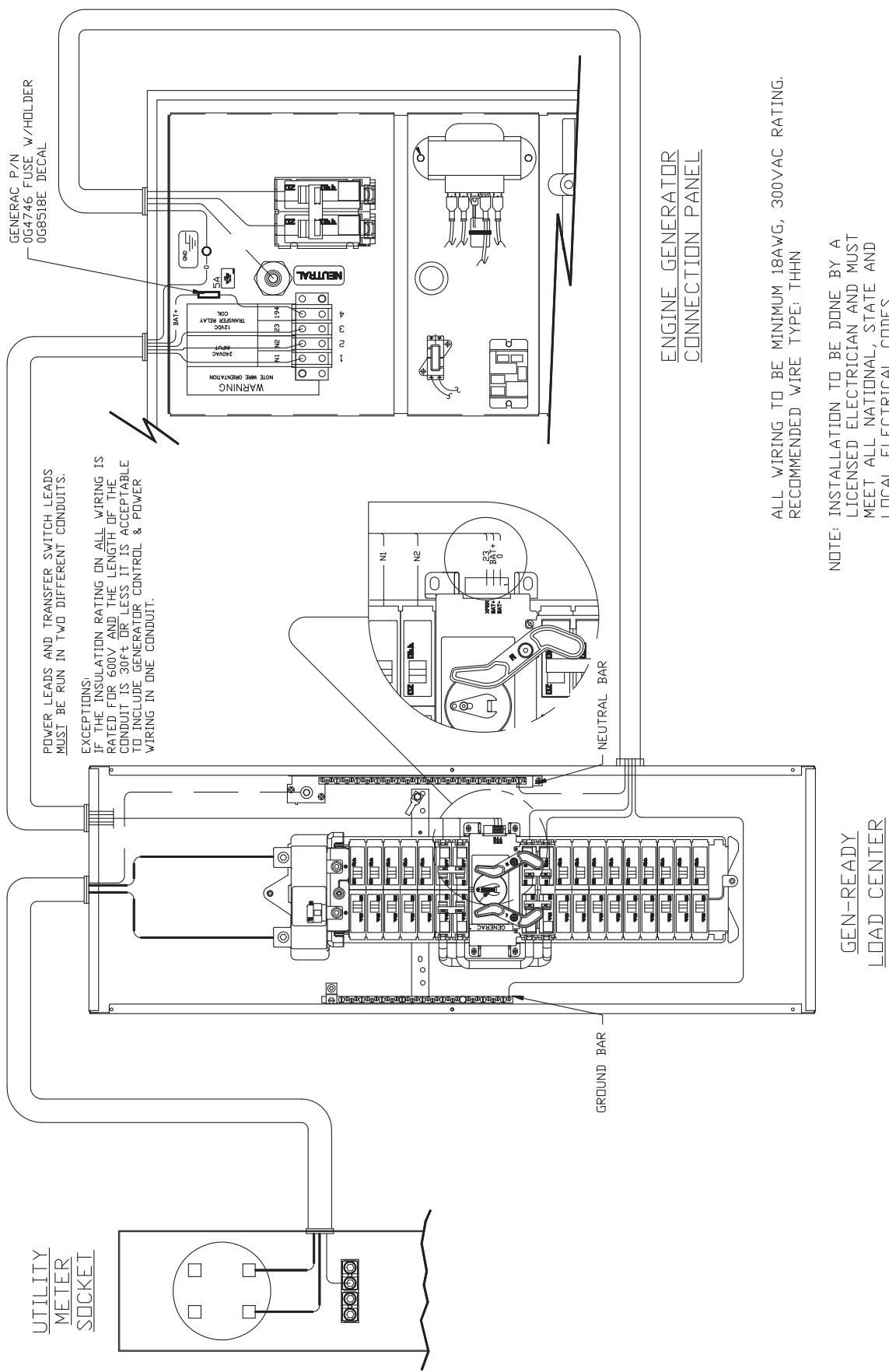


Indoor main breaker and main lug enclosures

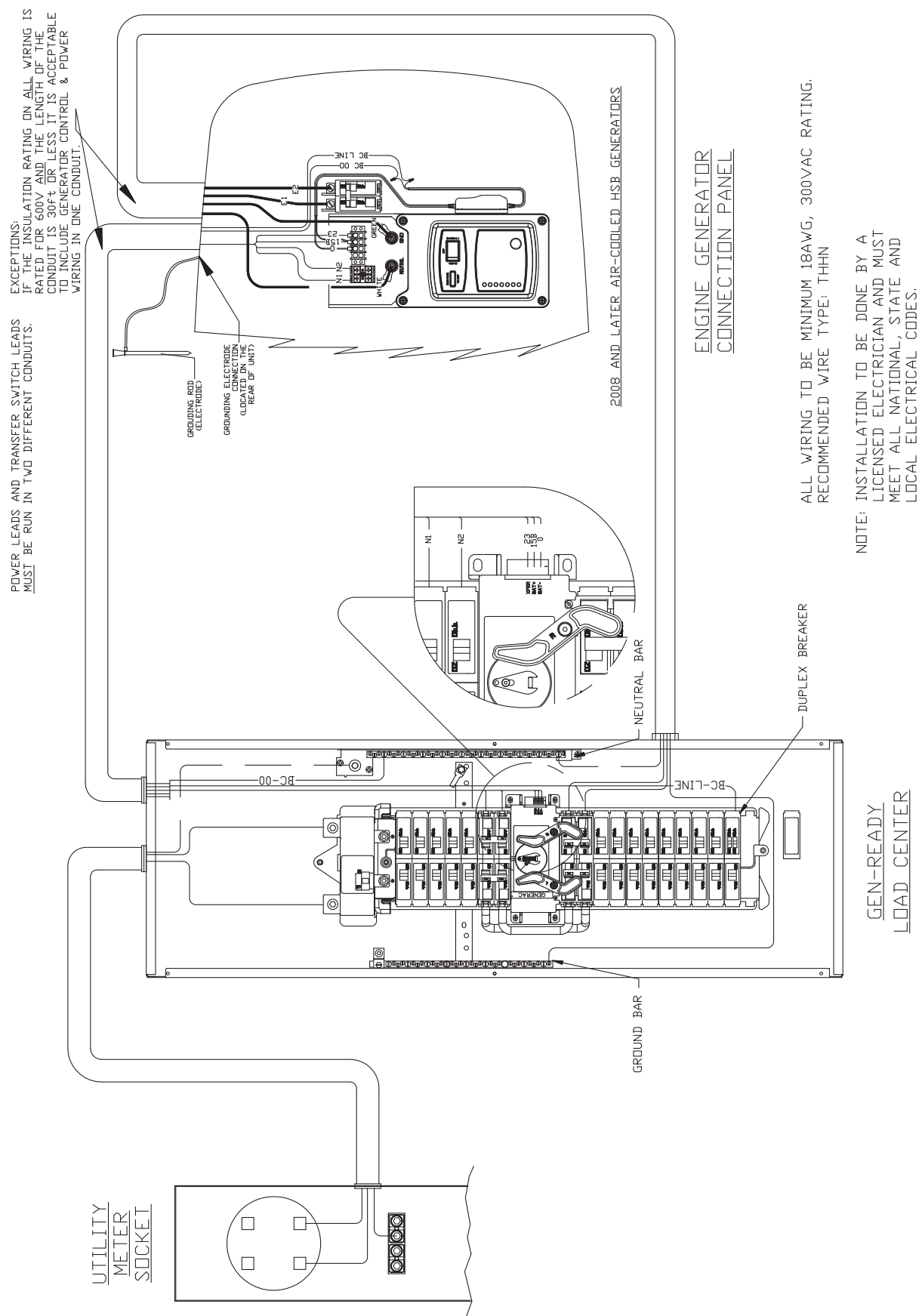


Outdoor main breaker and main lug enclosures

# Wiring schematic for liquid cooled generator



# Wiring schematic for air cooled generator

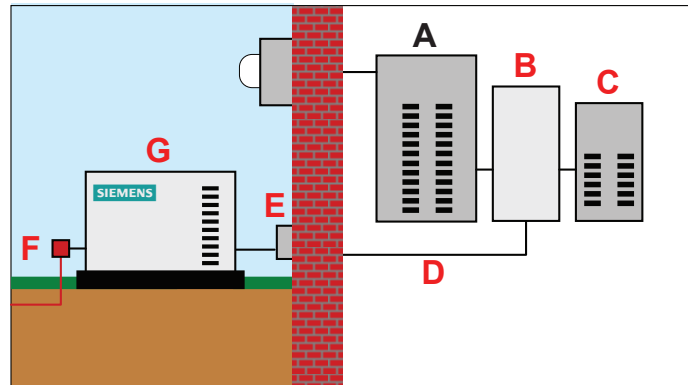


# Installations

## Traditional installation

The majority of standby generator installations are performed after home construction is complete. Often major extended power outages in the area trigger generator purchases.

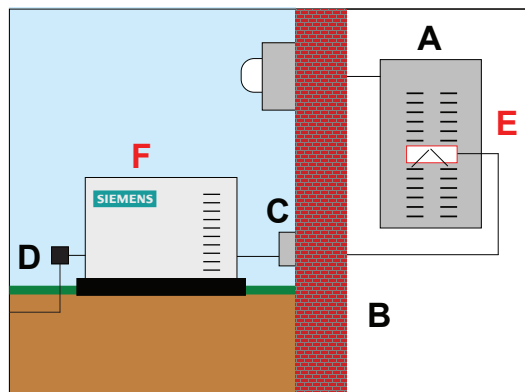
- Existing at time of generator installation:
  - A wired, whole house load center (A)
- Required at time of generator installation:
  - Automatic transfer switch installed (B)
  - Back up circuits physically moved to a new back up load center (C)
  - Power leads (D) run to junction box (E)
  - Gas line run to the generator site (F)
  - Generator installed (G)



In such an application, often the load center and gas supply are not conveniently positioned close to the generator location, requiring extensive electrical work (often behind walls) and lengthy gas line runs. Installation charges can range from \$1,500 to \$5,000 for most typical retrofit installations. This cost does not include the generator or transfer switch cost.

## Generator Ready Load Center with Automatic Standby Generator installation

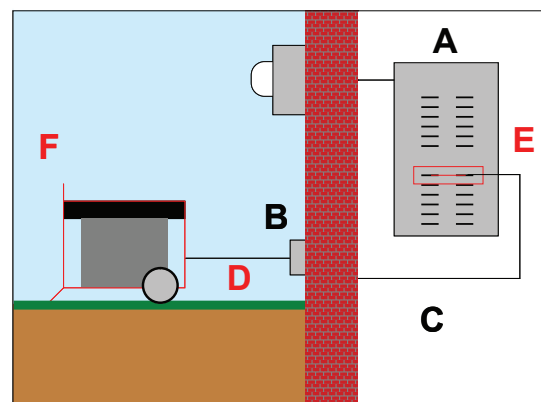
- Existing at time of generator installation:
  - Generator ready load center (A)
  - Power leads (B) run to junction box (C)
  - Gas lines run to generator site (D)
- Required at time of generator installation:
  - Transfer mechanism installed into generator ready load center (E)
  - Generator installed (F)



The cost of a generator ready load center is on the same order of magnitude as a regular 40 circuit load center. The transfer mechanism installed inside the load center is significantly cheaper than an automatic transfer switch. The final installation uses fewer components making better use of real estate, and making for a much cleaner looking installation.

## Portable Generator installation

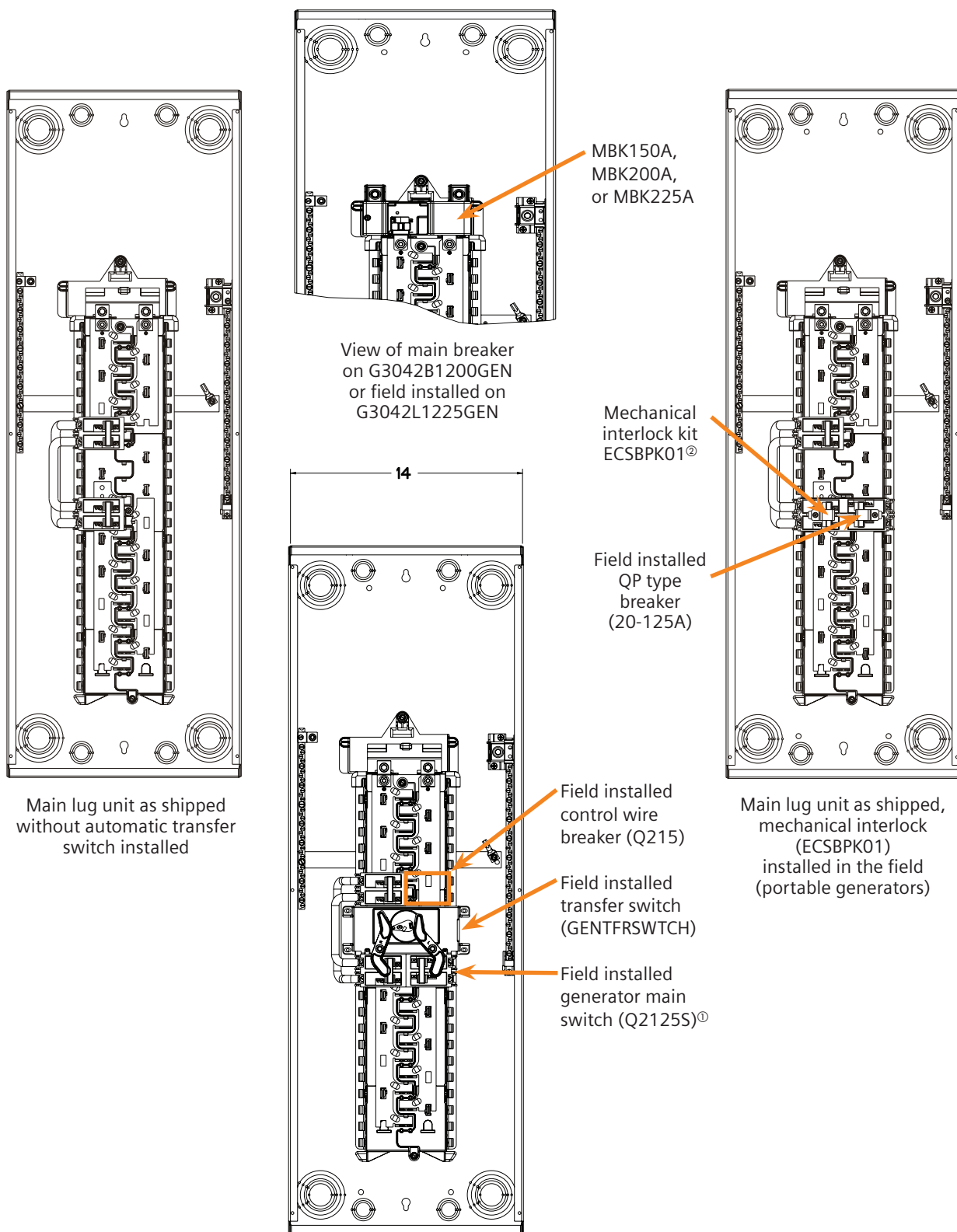
- Existing at time of portable generator installation:
  - Generator ready load center (A)
  - Hard Wiring (B)
  - Inlet Box (C)
- Required at time of portable generator purchase:
  - Power Cord (D)
  - Mechanical Interlock (ECSBPK01) (E)
  - Portable Generator (F)



① The automatic transfer switch should not be used for portable generators. Portable generators require a manual switch.

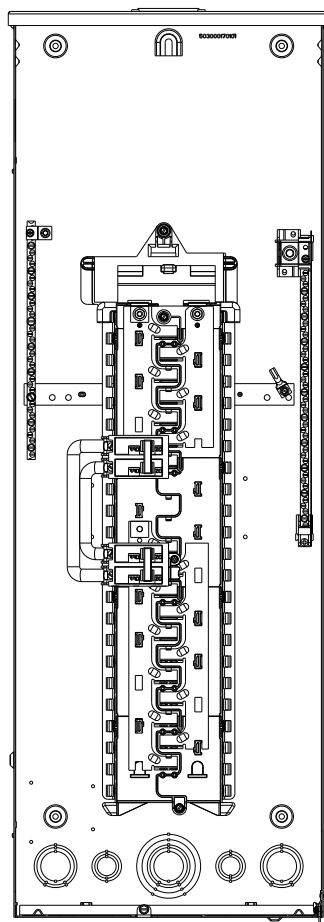


# Drawing layouts for NEMA 1

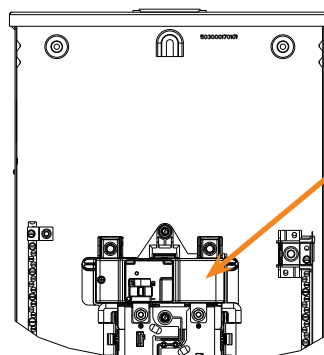


- ① Q2125S provided with GENTFRSWTCH. For use with automatic transfer mechanism, the Q2125S must be used. A QP type breaker is not allowed.
- ② GENTFRSWTCH is not required for portable generator operation.

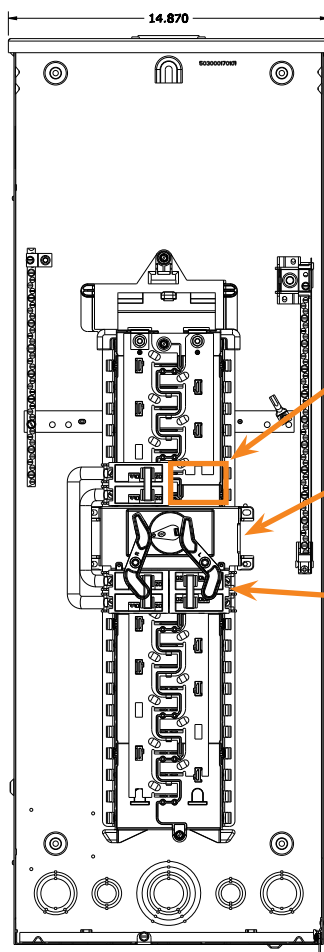
# Drawing layouts for NEMA 3R



Main lug unit as shipped  
without automatic transfer  
switch installed



View of main breaker  
on W3042B1200GEN  
or field installed on  
W3042L1225GEN



Main lug unit as shipped,  
automatic transfer  
switch installed in field  
(automatic standby system)

MBK150A,  
MBK200A,  
or MBK225A

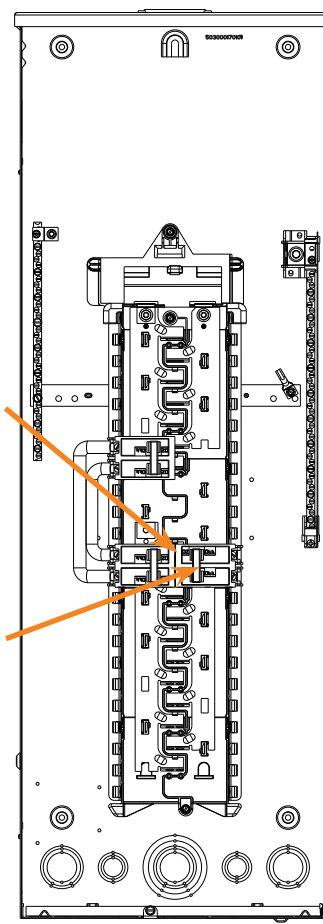
Mechanical  
interlock kit  
ECSBPK01<sup>②</sup>

Field installed  
QP type  
breaker  
(20-125A)

Field installed  
control wire  
breaker (Q215)

Field installed  
transfer switch  
(GENTFRSWTCH)

Field installed  
generator main  
switch (Q2125S)<sup>①</sup>



Main lug unit as shipped,  
mechanical interlock  
(ECSBPK01)  
installed in the field  
(portable generators)

① Q2125S provided with GENTFRSWTCH. For use with automatic transfer mechanism, the Q2125S must be used. A QP type breaker is not allowed.

② GENTFRSWTCH is not required for portable generator operation.