



Bulldog Sitework LLC

609 HWY 466
Lady Lake, FL 32159
(352) 267 4664
www.BulldogSitework.com

Lake May Reserve Improvements

ITB# 22-944

Submittal #002

Electrical - Marathon

Electric

BULLDOG SITEWORK LLC

Project Lake May - 22-944

Date reviewed 3/27/2023

Reviewed by Sizemore

Notes:

APPROVED

Office of Parks and Trails

3/31/2023 

Gear Submittal for Approval
LAKE MAY
MARATHON ELECTRIC

Special Orders May Not Be Returned or Cancelled
Items Ordered Average 6-10 Week Lead Times
BESCO is Not Responsible for Manufacturer Delays

Sign: _____

Date: _____



MARATHON-LK MAY RESERVE -

Siemens Submittal Package
Date: 3/20/2023

SIEMENS

Job Name: MARATHON-LK MAY RESERVE -

Contractor: CONSOLIDATED ELECTRICAL
DISTRIBUTORS INC

Quote Name: MARATHON-LK MAY RESERVE -

End User: CONSOLIDATED ELECTRICAL
DISTRIBUTORS INC

Quote Number: gausmx00c_03172300_00_00_M00

Distributor: CONSOLIDATED ELECTRICAL
DISTRIBUTORS INC

Approval Drawings:

Upon the return of 1 Copy of "Approved" or "No Exceptions Noted" drawings with release, it will be considered fact that the material as shown meets the requirements of the plans and specifications. For drawings returned indicating "Approved as Noted" or "Exceptions as Noted", the cost of any additional equipment not included in the original quotation will be reflected in the total invoice price. Any changes other than those shown on these returned drawings will not be considered the responsibility of Siemens. It must be noted that these drawings and descriptive literature incorporate Siemens' interpretation of the plans and specifications and are subject to corrections of errors. The above material is on "Hold for Release" status and will not be released until the receipt of signed submittals having one of the above notations with formal release. These drawings along with release should be returned as soon as possible so as not to cause any delays in shipping and/or escalation that might be incurred due to these delays.

SUBMITTAL CHECK LIST:

Siemens requires the information below to be reviewed and signed prior to equipment release.

Yes No N/A

- | | | | |
|--------------------------|--------------------------|--------------------------|---|
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Lug sizes has been verified for all equipment. |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Orientation/circuiting of breakers has been verified for all equipment. |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Nameplate information has been verified for all equipment. |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Top or Bottom entry has been verified for all equipment. |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Surface or flush mount has been verified for the Panelboards. |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Shipping splits has been verified for Switchboards/Switchgear. |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Incoming left or right has been verified for Switchboards/Switchgear. |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Dimensions have been verified for Switchboards/Switchgear. |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Dimensions have been verified for Multi-Family Metering. |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Arc flash mitigation requirements have been addressed. |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Applicable drawings have been approved by the utility having jurisdiction.
(If product is released before final AHJ approval, contractor is responsible for any modifications required.) |

We ask our customers to review this checklist for your benefit to ensure you receive the correct material and mitigate field installation issues or delays.

- Approved**
- Approved As Noted** - Make necessary changes. No re-submittal required.
- Revise / Resubmit** - Make necessary changes. Re-submittal required.
- Not Approved**

Comments:

Signature _____ **Date** _____

To: CONSOLIDATED ELECTRICAL
DISTRIBUTORS INC
4445 N HIGHWAY 19A
MOUNT DORA, 32757-2021
USA

From:

Attention:

Tel. No.:

Job Name: MARATHON-LK MAY RESERVE -
Quote Name: MARATHON-LK MAY RESERVE -
Quote #: gausmx00c_03172300_00_00_M00
Bid Date: 03/17/2023

Siemens Industry, Inc. (Company) agrees to sell to Purchaser and Purchaser agrees to purchase from the Company the goods described below. Written quotations are valid for 30 calendar days from price approval date unless otherwise stated in the quotation. Quotations are subject to change by Siemens Industry, Inc. at any time upon written notice to Purchaser. Quoted Lead times refer to the manufacturing cycles, in working days, at time of quotations and are subject to change.

Quote Notes:

Line #:	Qty	Description
20000	1	SITE--PANELBOARD P1
		1 - SECTION P1A42HB100CBST, System Voltage: 120/240 1Ø 3W GND Neutral AC, IR @ 35,000 AIC, Bottom Feed, Surface Mount, Bus Rating: 100A, Bus Material: Copper, Plating: Tin, NEMA 3R OUTDOOR, Service Entrance, Series Rated.
		10 - BL/BQD PROVISION
		1 - 20A /2P-BL 1 - Catalog #: B220
		1 - 2P-BL - PROV
		1 - 30A /2P-BL 1 - Catalog #: B230
		1 - 50A /2P-BL 1 - Catalog #: B250
		1 - 60A /2P-BL 1 - Catalog #: B260
		10 - 20A /1P-BL 1 - Catalog #: B120
		12 - 1P-BL - PROV
		1 - INTERIOR W/ 100A /2P-HBL MAIN BREAKER
		1 - Subfeed/Feedthru Provision
		1 - RP1 Single Phase Main Kit BL/B
		1 - Gnd Conn-Shipped w/ Interior
		1 - Std Al/Cu Gnd Connector
		1 - 250A 100% Neutral 42, 54Cir AL
		1 - RP1 Service Entrance Barrier Main-BL, BQD
		1 - No Front
		1 - Certification - UL

- 1 - Catalog #: B2100HH
- Enclosure, Catalog Number NR44
- 1 - NR TYPE 3R ENCL ASSY-44HX5.75D, 20 WIDE

- 21000 1 BATHROOM--PANELBOARD P1
- 1 - SECTION
P1A42ML125CBST, System Voltage: 120/240 1Ø 3W GND Neutral AC, IR @ 35,000 AIC, Bottom Feed, Surface Mount, Bus Rating: 125A, Bus Material: Copper, Plating: Tin, NEMA 1 INDOOR.
 - 10 - BL/BQD PROVISION
 - 2 - 20A /2P-HBL
 - 1 - Catalog #: B220HH
 - 2 - 2P-HBL - PROV
 - 1 - 60A /2P-HBL
 - 1 - Catalog #: B260HH
 - 18 - 20A /1P-HBL
 - 1 - Catalog #: B120HH
 - 4 - 1P-HBL - PROV
 - 1 - INTERIOR W/ 125A MAIN LUG
 - 1 - Subfeed/Feedthru Provision
 - 1 - AL/CU Main Lug - (1)#6-350Kcmil
 - 1 - Card Holder-Std Plastic Sleeve
 - 1 - Gnd Conn-Shipped w/ Interior
 - 1 - Std Al/Cu Gnd Connector
 - 1 - 250A 100% Neutral 42, 54Cir AL
 - 1 - Certification - UL
 - Enclosure, Catalog Number B44
 - 1 - 20W TYPE 1 BOX W/O GROUND BUS, 44H X 20W
 - Front, Catalog Number S44B
 - 1 - FAS-LATCH FRONT ASSY 20W 44H, SURFACE

Global Notes:

Important Update:

As a result of the global Covid-19 Virus outbreak, temporary delays in delivery, labor or services from Siemens and its sub-suppliers or subcontractors may occur. Among other factors, Siemens' delivery is subject to the correct and punctual supply from sub-suppliers or subcontractors, and Siemens reserves the right to make partial deliveries or modify its labor or services. While Siemens shall make every commercially reasonable effort to meet the delivery or service or completion date mentioned above, such date is subject to change and buyer shall not be entitled to any damages resulting from such delays

Cancellation Schedule:

In the event that Buyer cancels the purchase order, or portions of the purchase order in writing, the following charges, as a percentage of the total purchase order price for the order, or application portions thereof, will apply:

After receipt of order or before approval drawings are completed	15%
After approval drawing completion, but before release to manufacturing	30%
Before start of fabrication, but after major component purchase	60%
After start of fabrication, but before start of assembly	80%

- Price Policy: Standard quote is valid for 30 days from price approval date.
- Hold for Release Pricing: Unless Siemens has agreed with the customer in writing, in advance to fixed pricing for an extended release date, any orders entered into COMPAS that have not been released by the customer within 90 days shall be subject to a price increase reflecting the current pricing at time of release. If Buyer refuses to accept price increase Siemens shall reserve the right to cancel the order.
- Shipping: Shipment of goods will be made after receipt of all the following at Company's production facility: (a) Purchase Order / Electronic PO, (b) Technical Information, and if required (c) Drawing Approval.
- Freight: Freight allowed on all orders over \$1,000 and shipped within the contiguous United States, provided Seller selects the Route Option: BESTRT -Best Route.
- Delivery: FOB Shipping Point, unless stated otherwise.
- Small Order Handling: Purchase orders below \$400 will incur a \$25 Small Order Handling (SOH) Fee.
- Warranty: Warranty shall be in effect for a period of (1) year from initial operation of the goods but not more than eighteen (18) months from Siemens, shipment of the goods, unless stated otherwise.
- Payment: Per Siemens distributor's terms. For orders \$3,000,000 or greater, the payment shall be according to the following schedule:
- | | |
|--------------------------------|-----|
| Upon receipt of purchase order | 20% |
| Upon shipment from factory | 80% |
- Any changes to the milestone payment schedule listed above must be approved in writing by Siemens and the customer.
- Other: This proposal is subject to credit approval and US government regulation. It is also based on the Company's interpretation of the plans and specifications and is subject to correction for errors in such plans or specifications. This document and any other documents specifically referred to as being a part hereof constitute the entire agreement on the subject matter and it shall not be modified except in writing signed by both parties.
THIS PROPOSAL IS BASED UPON SIEMENS STANDARD TERMS AND CONDITIONS OF SALE ATTACHED HERETO AND INCLUDED HEREIN. Company hereby objects to any additional or different terms set forth in Purchaser's request for proposal, specifications, purchase order, or any other document of Purchaser. Acceptance of additional or different terms must be specifically assented to in writing by Company.
- Federal Projects (This applies to Federal and Federally Funded Projects only):
Siemens represents that it is providing "commercial items" and services for sale within the definition of FAR 2.101. In keeping with its commercial market participation, Siemens is categorically exempt from any Cost & Pricing Data requirements. Siemens utilizes a commercial accounting system under International Financial Reporting Standards (IFRS); and is technically unable to comply with Federal Cost Accounting Standards & Certification and any FAR 31 requirements. Siemens Industry, Inc. is a Foreign Owned, Controlled, or Influenced ("FOCI") firm, under the definition contained in the National Industrial Security Program Operational Manual ("NISPOM") and cannot obtain a security clearance, or perform work requiring its compliance with the FAR 52.204-2 "Security Requirements." Siemens does not anticipate receiving or having any access to any USG Controlled Unclassified Information (CUI) or Covered Defense Information (CDI) in the performance of this contract. However, in the event that any CUI/CDI will be required by Siemens in the performance of this contract, contractor/customer agrees to formally notify Siemens of its intent to transmit or provide CUI/CDI prior to the transmittal of any such information. In that event, Siemens will provide a plan in order to compliantly address the requirements of FAR 52.204-21, DFARS 252.204-7008, 252.204-009 and/or 252.204-7012. Siemens shall not be held responsible for determining, or providing, its compliance with any federal requirements including, but not limited to any Buy America/Buy American requirements, unless the contractor/customer has provided the SPECIFIC federal flow-down provisions to Siemens, and received Siemens affirmation of compliance with the same prior to issuance of any Purchase Order or Contract.

To the extent a contract arising from this Request for Quotation (RFQ) flows down the vaccination requirements of Executive Order 14042 or includes any FARs (Federal Acquisition Regulations), including, but not limited to FAR 52.223-99, Ensuring Adequate COVID-19 Safety Protocols for Federal Contractors, or includes a Defense Priority Ratings (DPR), these flow downs must be specifically identified in the RFQ and in the body of the purchase order issued to Siemens. The identification of these requirements is critical so Siemens may appropriately align its resources for compliant performance. Failure to clearly identify these flow downs prior to quotation submittal and/or purchase order execution may affect the price, delay the schedule, lead to additional reviews, and/or require cancellation of the order.

SIEMENS STANDARD TERMS AND CONDITIONS OF SALE FOR PRODUCTS

Version 2.0/Restricted

Date: 12/09/2020

1. APPLICABLE TERMS. This Agreement governs the sale of equipment, components, parts, and materials provided by Siemens ("Products"). Any applicable addenda, these terms, Siemens proposal, price quote, purchase order, or acknowledgement issued by Siemens form the parties' final agreement ("Agreement"). In the event of a conflict between these documents, precedence shall apply in accordance with the order listed in the previous sentence. Siemens' proposal, offer or acceptance is conditioned on Buyer's acceptance of this Agreement. Any additional or conflicting terms in Buyer's request for proposal, specifications, purchase order or any other written or oral communication are not binding on Siemens unless separately signed by Siemens. Siemens' failure to object to Buyer's additional or conflicting terms does not operate as a waiver of any terms contained in this Agreement.

2. PRICING & PAYMENT. Prices and payment terms are: (i) as stated in Siemens' proposal, or if none are stated; (ii) Siemens' standard prices in effect when Siemens receives Buyer's purchase order; or if neither (i) or (ii) apply, then Siemens' standard prices in effect when the Products ship.

(a) *Payment.* Unless stated in Siemens' proposal, all payments are due net thirty (30) days from the invoice date in United States Dollars. Discounts, if any, are only applicable for payments made by cash, check, ACH or wire.

(b) *Credit Approval.* All orders are subject to credit approval by Siemens. Siemens may modify, suspend or withdraw the credit amount or payment terms at any time. If there is doubt as to Buyer's financial condition, Siemens may withhold manufacturing or shipment, require cash payments, or require other satisfactory security. Siemens may recover shipped Products from the carrier pending such assurances.

(c) *Installation Shipment.* Where Products are delivered in shipments or only part of a shipment fails to comply with this Agreement, the Buyer may only reject the non-compliant portion. Buyer will separately pay for each shipment. If Siemens holds or stores Products for Buyer, it shall do so at Buyer's sole risk and expense.

(d) *Taxes, Shipping, Packing, Handling.* Unless stated in writing by Siemens, Siemens' prices exclude charges for freight, unloading, storage, insurance, taxes, tariffs charged on the importation of goods into the United States, excises, fees, duties or other government charges related to the Products. Buyer will pay these amounts or reimburse Siemens. If Buyer claims a tax or other exemption or direct payment permit, Buyer will provide a valid exemption certificate or permit and indemnify, defend and hold Siemens harmless from any taxes, costs and penalties arising from same. Siemens' prices include the costs of its standard domestic packing only. Any packing deviation, including U.S. Government sealed packing, will be charged to Buyer. Increases, changes (including in application), adjustments or surcharges which may be incurred are for Buyer's account.

(e) *Late Payments.* Late payments shall bear interest at an annual percentage rate of twelve percent (12%) or the highest rate allowed by law, whichever is lower.

(f) *Disputed Invoice.* If Buyer disputes all or any portion of an invoice, it must first deliver written notice to Siemens of the disputed amount and the basis for the dispute within twenty-one (21) days of receiving the invoice. Failure of Buyer to timely notify Siemens of any dispute constitutes a waiver of Buyer's claim. If Buyer only disputes a portion of the invoice, Buyer must pay the undisputed portion in accordance with Article 2(a). Upon resolution of the dispute, Buyer must pay the invoice or the remainder of the invoice, plus any accrued interest on the late payment.

(g) *Suspension/Termination Right.* Siemens may suspend work if an undisputed invoice is more than thirty (30) days past due. Siemens may terminate this Agreement if an undisputed invoice is more than sixty (60) days past due. Unless prohibited by law, Siemens may also terminate this Agreement immediately in the event of a material adverse change in Buyer's financial condition including, but not limited to, bankruptcy, insolvency, liquidation or similar financial condition.

3. DELIVERY; TITLE; RISK OF LOSS. Products will be delivered F.O.B. Siemens point of shipment with title and risk of loss or damage passing to Buyer at that point. Buyer is responsible for all transportation, insurance and related expenses. The related expenses shall include any taxes, duties or documentation fees. Siemens may make partial shipments. Any shipping, delivery and installation dates are estimated dates only. Siemens is not liable for any loss or expense incurred by Buyer or Buyer's customers if Siemens fails to meet its delivery schedule.

4. DEFERMENT AND CANCELLATION. Buyer has no right to defer shipment but may cancel this Agreement on thirty (30) days written notice if Siemens has not already performed. If Buyer cancels this Agreement, it shall pay all cancellation charges including, without limitation: (i) the full price for any finished Product; (ii) for partially completed product, the portion of the price determined to be due by Siemens based on its percentage of completion of the Product; (iii) reasonable overhead and profit; and (iv) any payments due subcontractors and/or suppliers for any materials, components or products ordered which cannot be cancelled, refunded, or redirected for other beneficial use.

5. **TRANSPORTATION AND STORAGE.** (a) When Products are ready for shipment, Siemens will: (i) inform Buyer, and Buyer will then promptly give shipping instructions to Siemens; (ii) determine the method of transportation and shipment routing; and (iii) ship the Products with freight prepaid by normal transportation. If Buyer fails to provide timely shipping instructions, Siemens will ship the Products by normal transportation means to Buyer or to a storage location selected by Siemens. Buyer will pay or reimburse any excess transportation charges for special or expedited transportation.

(b) If Products are placed into storage, delivery occurs and risk of loss transfers to Buyer when the Products are placed on the carrier for shipment to the storage location. If the Products are to be stored in the facility where manufactured, delivery occurs and risk of loss transfers to Buyer when placed in the storage location.

Buyer will pay all Siemens' storage expenses, including but not limited to, preparation for and placement into storage, handling, freight, storage, inspection, preservation, maintenance, taxes and insurance, upon receipt of an invoice(s) from Siemens. When conditions permit and upon payment to Siemens of all amounts due, Buyer must arrange, at its expense, to remove the Products from storage. Buyer bears the risk of loss, damage or destruction to Products in storage.

6. **FORCE MAJEURE / DELAYS.** If Siemens' performance is delayed by any cause beyond its reasonable control (regardless of whether the cause was foreseeable), including without limitation acts of God, strikes, labor shortage or disturbance, fire, accident, war or civil disturbance, delays of carriers, cyber-attacks, terrorist attacks, failure of normal sources of supply, or acts or inaction of government, Siemens' time of performance will be extended by a period equal to the length of the delay plus any consequences of the delay. Siemens will notify Buyer within a reasonable time after becoming aware of any such delay.

7. **BUYER'S REQUIREMENTS.** Siemens' performance is contingent upon Buyer timely fulfilling all of its obligations under this Agreement. These obligations include the Buyer supplying all documents and approvals needed for Siemens to perform, including but not limited to technical information and data, drawing and document approvals, and necessary commercial documentation. Siemens may request a change order for an equitable adjustment in prices and times for performance, as well as for any additional costs or any delay resulting from the failure of Buyer or Buyer's contractors, successors or assigns to meet these obligations.

8. **INDEMNITY.** Siemens and Buyer (each as an "Indemnitor") shall indemnify the other ("Indemnitee") from and against all third party claims alleging bodily injury, death or damage to a third party's tangible property, but only to the extent caused by the Indemnitor's negligent acts or omissions. If the injury or damage is caused by the parties' joint or contributory negligence, the loss and/or expenses shall be borne by each party in proportion to its degree of fault. No part of the Product(s) or Buyer's site is considered third party property.

Indemnitee shall provide the Indemnitor with prompt written notice of any third party claims covered by this Article. Indemnitor has the unrestricted right to select and hire counsel and the exclusive right to conduct the legal defense and/or settle the claim on the Indemnitee's behalf. The Indemnitee shall not make any admission(s) which might be prejudicial to the Indemnitor and shall not enter into a settlement without the express permission of the Indemnitor.

9. **WARRANTIES.** (a) Warranties. Siemens warrants that: (i) each Product is free from defects in material and workmanship; (ii) each Product materially conforms to Siemens' specifications that are attached to, or expressly incorporated into this Agreement; and (iii) at the time of delivery, Siemens has title to each Product free and clear of liens and encumbrances (collectively, the "Warranties"). The Warranties do not apply to software furnished by Siemens. The sole and exclusive warranties for any software are set forth in the applicable Software License/Warranty Addendum.

(b) Conditions to the Warranties. The Warranties are conditioned on: (i) no repairs, modifications or alterations being made to the Product other than by Siemens or its authorized representatives; (ii) Buyer handling, using, storing, installing, operating and maintaining the Product in compliance with any parameters or instructions in any specifications attached to, or incorporated into this Agreement; (iii) compliance with all generally accepted industry standards; (iv) Buyer discontinuing use of the Product after it has, or should have had, knowledge of any defect; (v) Buyer providing prompt written notice of any warranty claims within the warranty period described below; (vi) at Siemens' discretion, Buyer either removing and shipping the Product or non-conforming part thereof to Siemens, at Buyer's expense, or granting Siemens reasonable access to the Products to assess the warranty claims; (vii) Product not having been subjected to accident (including force majeure), alteration, abuse or misuse; and (viii) Buyer not being in default of any payment obligation.

(c) Exclusions from Warranty Coverage. The Warranties do not apply to any equipment not provided by Siemens under this Agreement.

Any Product that is described as being experimental, developmental, prototype, or pilot is specifically excluded from the Warranties and is provided to Buyer "as is" with no warranties of any kind. Normal wear and tear is excluded, including any expendable items that comprise part of the Product (such as fuses, light bulbs and lamps). Siemens does not warrant or guarantee that any Product will be secure from cyber threats, hacking or similar malicious activity. Products that are networked, connected to the internet, or otherwise connected to computers or other devices must be appropriately protected by Buyer and/or end user against unauthorized access.

(d) Warranty Period. Buyer must provide written notice of any claims for breach of Warranties by the earlier of twelve (12) months from initial operation of the Product or eighteen (18) months from shipment. Additionally, absent written notice within the warranty period, any use or possession of the Product after expiration of the warranty period is conclusive evidence that the Warranties have been satisfied.

(e) Remedies. Buyer's sole and exclusive remedies for breach of the Warranties are limited, at Siemens' discretion, to repair or replacement of the Product, or its non-conforming parts, within a reasonable time period, or refund of all or part of the purchase price. The warranty on repaired or replaced parts is limited to the remainder of the original warranty period. Unless Siemens agrees otherwise in writing, Buyer will be responsible for any costs associated with: (i) gaining access to the Product; (ii) removal, disassembly, replacement, installation, or reinstallation of any equipment, materials or structures to permit Siemens to perform its warranty obligations; (iii) transportation to and from the Siemens factory or repair facility; and (iv) damage to equipment components or parts resulting in whole or in part from non-compliance by the Buyer with Article 9(b) or from their deteriorated condition. All exchanged Products replaced under this Warranty will become the property of Siemens.

(f) Transferability. The Warranties are only transferable during the warranty period and only to the Product's initial end-user.

(g) THE WARRANTIES IN THIS ARTICLE 9 ARE SIEMENS' SOLE AND EXCLUSIVE WARRANTIES AND ARE SUBJECT TO THE LIMITS OF LIABILITY IN ARTICLE 10 BELOW. SIEMENS MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, WITHOUT LIMITATION, WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, COURSE OF DEALING AND USAGE OF TRADE.

10. LIMITATION OF LIABILITY. NOTWITHSTANDING ANYTHING IN THIS AGREEMENT TO THE CONTRARY, SIEMENS IS NOT LIABLE, WHETHER BASED IN CONTRACT, WARRANTY, TORT (INCLUDING NEGLIGENCE), STRICT LIABILITY, INDEMNITY OR ANY OTHER LEGAL OR EQUITABLE THEORY, FOR: LOSS OF USE, REVENUE, SAVINGS, PROFIT, INTEREST, GOODWILL OR OPPORTUNITY, COSTS OF CAPITAL, COSTS OF REPLACEMENT OR SUBSTITUTE USE OR PERFORMANCE, LOSS OF INFORMATION AND DATA, LOSS OF POWER, VOLTAGE IRREGULARITIES OR FREQUENCY FLUCTUATION, CLAIMS ARISING FROM BUYER'S THIRD PARTY CONTRACTS, OR FOR ANY TYPE OF INDIRECT, SPECIAL, LIQUIDATED, PUNITIVE, EXEMPLARY, COLLATERAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES, OR FOR ANY OTHER LOSS OR COST OF A SIMILAR TYPE.

SIEMENS' MAXIMUM LIABILITY UNDER THIS AGREEMENT IS THE ACTUAL PURCHASE PRICE RECEIVED BY SIEMENS FOR THE PRODUCT THAT GAVE RISE TO THE CLAIM.

BUYER AGREES THAT THE EXCLUSIONS AND LIMITATIONS IN THIS ARTICLE 10 WILL PREVAIL OVER ANY CONFLICTING TERMS AND CONDITIONS IN THIS AGREEMENT AND MUST BE GIVEN FULL FORCE AND EFFECT, WHETHER OR NOT ANY OR ALL SUCH REMEDIES ARE DETERMINED TO HAVE FAILED OF THEIR ESSENTIAL PURPOSE. THESE LIMITATIONS OF LIABILITY ARE EFFECTIVE EVEN IF SIEMENS HAS BEEN ADVISED BY BUYER OF THE POSSIBILITY OF SUCH DAMAGES. THE WAIVERS AND DISCLAIMERS OF LIABILITY, RELEASES FROM LIABILITY AND LIMITATIONS ON LIABILITY EXPRESSED IN THIS ARTICLE 10 EXTEND TO SIEMENS' AFFILIATES, PARTNERS, PRINCIPALS, SHAREHOLDERS, DIRECTORS, OFFICERS, EMPLOYEES, SUPPLIERS, AGENTS, AND SUCCESSORS AND ASSIGNS.

11. PATENT AND COPYRIGHT INFRINGEMENT. Siemens will, at its option and expense, defend or settle any suit or proceeding brought against Buyer based on an allegation that any Product or use thereof for its intended purpose constitutes an infringement of any Patent Cooperation Treaty country member's patent or misappropriation of a third party's trade secret or copyright in the country where the Product is delivered by Siemens. Buyer will promptly give Siemens written notice of the suit or proceeding and the authority, information, and assistance needed to defend the claims. Siemens shall have the full and exclusive authority to defend and settle such claim(s) and will pay the damages and costs awarded in any suit or proceeding so defended. Buyer shall not make any admission(s) which might be prejudicial to Siemens and shall not enter into a settlement without Siemens' consent. Siemens is not responsible for any settlement made without its prior written consent. If the Product, or any part thereof, as a result of any suit or proceeding so defended is held to constitute infringement or its use by Buyer is enjoined, Siemens will, at its option and expense, either: (i) procure for Buyer the right to continue using said Product; (ii) replace it with substantially equivalent non-infringing Product; or (iii) modify the Product so it is non-infringing.

Siemens will have no duty or obligation under this Article 11 if the Product is: (i) supplied according to Buyer's design or instructions and compliance therewith has caused Siemens to deviate from its normal course of performance; (ii) modified by Buyer or its contractors after delivery; or (iii) combined by Buyer or its contractors with devices, methods, systems or processes not furnished hereunder and by reason of said design, instruction, modification, or combination a suit is brought against Buyer. In addition, if by reason of such design, instruction, modification or combination, a suit or proceeding is brought against Siemens, Buyer must protect Siemens in the same manner and to the same extent that Siemens has agreed to protect Buyer under this Article 11.

THIS ARTICLE 11 IS AN EXCLUSIVE STATEMENT OF SIEMENS' DUTIES AND BUYER'S REMEDIES RELATING TO PATENTS, TRADE SECRETS AND COPYRIGHTS, AND DIRECT OR CONTRIBUTORY INFRINGEMENT THEREOF.

12. CONFIDENTIALITY. (a) Both during and after the term of this Agreement, the parties will treat as confidential all information obtained from the disclosing party and all information compiled or generated by the disclosing party under this Agreement for the receiving party, including but not limited to business information, manufacturing information, technical data, drawings, flow charts, program listings, software code, and other software, plans and projections. Neither party may disclose or refer to the work to be performed under this Agreement in any manner that identifies the other party without advance written permission. However, Siemens has the right to share confidential information with its affiliates and subcontractors, provided those recipients are subject to the same confidentiality obligations set forth herein.

(b) Nothing in this Agreement requires a party to treat as confidential any information which: (i) is or becomes generally known to the public, without the fault of the receiving party; (ii) is disclosed to the receiving party, without obligation of confidentiality, by a third party having the right to make such disclosure; (iii) was previously known to the receiving party, without obligation of confidentiality, which fact can be demonstrated by means of documents which are in the possession of the receiving party upon the date of this Agreement; (iv) was independently developed by receiving party or its representatives, as evidenced by written records, without the use of discloser's confidential information; or (v) is required to be disclosed by law, except to the extent eligible for special treatment under an appropriate protective order, provided that the party required to disclose by law will promptly advise the originating party of any requirement to make such disclosure to allow the originating party the opportunity to obtain a protective order and assist the originating party in so doing.

(c) It is Siemens' policy not to unlawfully or improperly receive or use confidential information, including trade secrets, belonging to others. This policy precludes Siemens from obtaining, directly or indirectly from any employee, contractor, or other individual rendering services to Siemens confidential information of a prior employer, client or any other person which such employee, contractor, or individual is under an obligation not to disclose. Buyer agrees to abide by this policy.

13. COMPLIANCE WITH LAWS. The parties agree to comply with all applicable laws and regulations, including but not limited to those relating to the manufacture, purchase, resale, exportation, transfer, assignment or use of the Products.

14. CHANGES IN WORK. No change will be made to the scope of work unless Buyer and Siemens agree in writing to the change and any resulting price, schedule or other contractual modifications. If any change to any law, rule, regulation, order, code, standard or requirement impacts Siemens' obligations or performance under this Agreement, Siemens may request a change order for an equitable adjustment in the price and time of performance.

15. NON-WAIVER. Any waiver by a party of strict compliance with this Agreement must be in writing, and any failure by the parties to require strict compliance in one instance will not waive its right to insist on strict compliance thereafter.

16. MODIFICATION OF TERMS. This Agreement may only be modified by a written instrument signed by authorized representatives of both parties.

17. ASSIGNMENT. Neither party may assign all or part of this Agreement, or any rights or obligations under this Agreement, without the prior written consent of the other; but either party may assign its rights and obligations, without recourse or consent, to any parent, wholly owned subsidiary, or affiliate or affiliate's successor organization (whether as a result of reorganization, restructuring or sale of substantially all of a party's assets). However, Buyer shall not assign this Agreement to: a competitor of Siemens; an entity in litigation with Siemens; or an entity lacking the financial capability to satisfy Buyer's obligations. Any assignee expressly assumes the performance of any obligation assigned. Siemens may grant a security interest in this Agreement and/or assign proceeds of this Agreement without Buyer's consent.

18. APPLICABLE LAW AND JURISDICTION. This Agreement is governed by and construed in accordance with the laws of the State of Delaware, without regard to its conflict of laws principles. The application of the United Nations Convention on Contracts for the International Sale of Goods is excluded. BOTH SIEMENS AND BUYER KNOWINGLY, VOLUNTARILY AND IRREVOCABLY WAIVE ALL RIGHTS TO A JURY TRIAL IN ANY ACTION OR PROCEEDING RELATED IN ANY WAY TO THIS AGREEMENT. Each party agrees that claims and disputes arising out of this Agreement must be decided exclusively in a federal or state court of competent jurisdiction located in a state in which either Buyer or Siemens maintains its principal place of business. Each party submits to the personal jurisdiction of such courts for the purpose of litigating any claims or disputes.

19. SEVERABILITY. If any provision of this Agreement is held invalid, illegal or unenforceable, the remaining provisions will not in any way be affected or impaired. A court may modify the invalid, illegal or unenforceable provision to reflect, as closely as possible, the parties' original intent.

20. EXPORT / IMPORT COMPLIANCE. Buyer acknowledges that Siemens is required to comply with applicable export / import laws and regulations relating to the sale, export, import, transfer, assignment, disposal and use of the Products, including any export / import license requirements. Buyer agrees that Products will not at any time directly or indirectly be used, exported, imported, sold, transferred, assigned or otherwise disposed of in a manner which will result in non-compliance with any export / import laws and regulations. Siemens' continuing performance hereunder is conditioned on compliance with such export / import laws and regulations at all times.

21. PRODUCT RETURNS. Prior to the return of any Product to Siemens, Buyer must identify the Product or portion thereof and obtain written authorization and shipping instructions from Siemens. Siemens has the right, in its sole discretion, to permit or reject any such return. Siemens' authorization to return any Product to Siemens does not relieve Buyer of its obligation to pay for such Product. Upon receipt, inspection, and acceptance of the Product by Siemens, Siemens will issue a credit memo to Buyer, less applicable re-stocking fees. Siemens reserves the right to reject any hazardous material.

22. NUCLEAR. Unless expressly authorized in writing by Siemens, the Products must not be used in or in connection with a nuclear facility or application. If Buyer uses any Product in connection with any nuclear facility or activity, it does so at its own risk and Buyer will indemnify, defend and hold Siemens harmless, and waives and will require its insurers to waive all right of recovery against Siemens for any damage, loss, destruction, injury or death resulting from a "nuclear incident," as defined in the Atomic Energy Act of 1954, as amended, whether or not due to Siemens' negligence. Siemens' consent to Buyer's use of the Product in connection with any nuclear facility or

application will be subject to additional terms and conditions that Siemens deems necessary to protect its interests.

23. SURVIVAL. The articles titled "Patent and Copyright Infringement," "Limitation of Liability," "Confidentiality," "Delivery; Title; Risk of Loss," "Export / Import Compliance," and "Nuclear" survive termination, expiration or cancellation of this Agreement.

PURCHASER's ACCEPTANCE
The foregoing is hereby accepted.

Siemens Industry, Inc.
By

(Name of Purchaser)
By

Title

Date

Siemens Industry, Inc.
SIEMENS STANDARD TERMS AND CONDITIONS OF SALE FOR PRODUCTS
December 09, 2020 (Version2.0/Restricted)

SIEMENS

Project Name: MARATHON-LK MAY RESERVE -
Quote #: gausmx00c_03172300_00_00_M00

Product Family: Panelboards

CONTENTS: TYZ:PANELBOARD TYZ:PANELBOARD

P1 Panelboards

The P1 Panelboards are available in both Feed-thru (FT) and Non-Feed-thru (NFT) variations. There is a savings of 6" of box height when a NFT version is selected which eliminates the sub-feed space. The Sub-Feed Space is where the Feed-thru Lugs, sub-feed breaker or a Surge Protection Device (SPD) is installed. The interior part number will end with a "T" for FT panels and will end with an "N" for NFT panels.

The P1 Panelboards also have Extended Circuit variations with 54 circuits and 66 circuits available.

Feed-thru (FT) panels are pre-engineered to accept the most common modifications without increasing box height. The enclosure size is determined by the number of circuits as shown in the Main Lug Table P1-5 or the Main Circuit Breaker Table P1-3.

All P1 FT main lug or main breaker panelboards have space built-in to accept either feed-thru lugs equal to the panel rating (or) one subfeed circuit breaker up to 250 amperes (or) a surge suppressor (SPD) without increasing box height. **(When ordered with sub-feed space the interior part # will end with a "T").**

Non-Feed-thru (NFT) panels do not have a sub-feed space and cannot accept feed-thru lugs (or) sub-feed Breakers (or) SPD/TVSS devices. **(NFT panel interior part # will end in "N").**

Note the following features, all found in the innovative P1 lighting panelboards:

- Symmetrical 250A FT Interiors – To change from top to bottom-feed (or vice-versa), simply invert the interior. The deadfront labeling is always legible, even on the NFT panels when inverted. - 400A are not symmetrical, but they are invertable.
- First in the Industry Ratings of 125 through 400A main lug and main breaker. Field convertible from main lug to main breaker and vice versa – with no increase in enclosure height.
- Field adaptability of feed-thru lugs (or) sub-feed circuit breaker without increasing enclosure size. **(FT panels only)**
- Neutral system is field upgradeable to 200% capacity – another industry first. (also 2/0 neutrals are available as a field install kit)
- Extended circuit panels are now available – up to 66 circuits.
 - 18, 30, 42, 54 and 66 circuits for 250A **(FT & NFT)**
 - 26", 32", 38", 44", 50" and 56" standard Enclosures are used.

- 30, 42 and 54 circuits for 400A (FT & NFT), also 66 circuit NFT - 56", 62", 68" and 74" standard Enclosures are used.

- Suitable for use as service entrance given compliance with NEC.
- Bonding provisions are shipped with each panel.
- 240V and 480Y / 277V versions utilize identical boxes & fronts

Enclosure – Standard Type 1 enclosure is 20" wide x 5.75" deep. Box Height is determined only by the number of circuits and FT or NFT selection, not by main lug or main circuit breaker. See charts P1-3 and P1-5 for box height.

Voltage – 480Y/277 Vac max. (Limited options for 600Y / 347V)

Amperage – 400 amp max.

Short Circuit Rating – 200 KAIC max. symmetrical or equal to the lowest rated device installed unless a series rating is indicated. Panels with subfeed or feed-thru lugs without a main device, circuit breaker or fusible unit, are limited to a three-cycle rating. The three-cycle rating for the P1 panel is limited to 22 KAIC. Note that the main device may be mounted remote from the panel.

Bussing – The P1 panel meets the majority of the markets bussing requirements. The standard bussing is temperature rated aluminum. The rating is per the requirements of UL 67– the standard for panelboards. All aluminum bussing is tin-plated. Optional bussing for the P1 panel is temperature rated copper. The copper bus option for this panel is tin-plated.

Weight – Approximate
Total panelboard weight when filled with a normal quantity of breakers and accessories is about 3 lbs. (1.36 kg) per inch (54g per mm) of box height.

Table P1-1 – Box Material Gauge

Width	Height (inches)	Gauge Steel
20" (250A)	26, 32, 38, 44, 50, 56	#16 (#17 for endwalls)
(400A)	56, 62, 68, 74	#16 (#17 for endwalls)

Table P1-2 – Trim Material Gauge

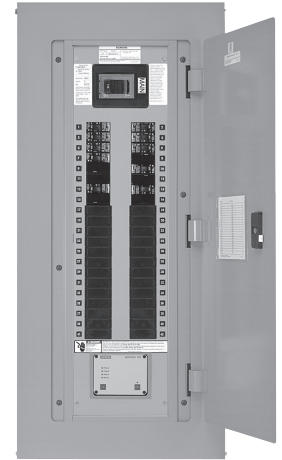
20" (250A)	26, 32, 38, 44, 50, 56	#14
(400A)	56, 62, 68, 74	#14

Application

Type P1 Panelboards

Table P1-3 – Main Breaker Panel Size Selector – P1

Max Ampere rating	Main Breaker Types	Connections suitable for Cu or Al	Max # Poles FT ①	Max # Poles NFT	Dimensions in inches (mm)			Weight in Lbs. (kg)	
					Unit Space		Box Height		
					FT A	NFT A	B		
100	BL®, BLH®, HBL®, BQD®	#8-#6 AWG Cu or Al #8-6 AWG Cu or #8-4 AWG Al #8-#1 AWG Cu or #6-#1/0 AWG Al		18	–	9	26 (661)	90 (41)	
			18	30	9	15	32 (813)	105 (48)	
			30	42	15	21	38 (965)	120 (55)	
			42	54	21	27	44 (1118)	135 (61)	
			54	66	27	33	50 (1270)	150 (67)	
			66	–	33	–	56 (1423)	165 (73)	
125	NGB®, HGB®, LGB®	15-30 amp: #14-#6 Cu or #12-#6 Al 35-125 amp: #6-1/0 Cu #4-2/0 Al		18	–	9	26 (661)	95 (43)	
			18	30	9	15	32 (813)	110 (50)	
	ED4	#14-#10 AWG Cu or #12-10 AWG Al	30	42	15	21	38 (965)	125 (57)	
			42	54	21	27	44 (1118)	140 (64)	
			54	66	27	33	50 (1270)	155 (71)	
ED6, HED4	#3-3/0 Cu or #1-2/0 Al #3-3/0 Cu or #1-2/0 Al	66	–	33	–	56 (1423)	170 (78)		
			18	–	9	26 (661)	95 (43)		
225	QJ2, QJH2, QJ2H, QR2, QRH2, HQR2, HQR2H	#6 AWG-300 Kcmil (Cu) or #4 AWG-300 Kcmil (Al)	18	30	9	15	32 (813)	110 (50)	
			30	42	15	21	38 (965)	125 (57)	
			42	54	21	27	44 (1118)	140 (64)	
250	FXD6, FD6, HFD6, HFXD6	#6 AWG-350 Kcmil (Cu) or #4 AWG-350 Kcmil (Al)	54	66	27	33	50 (1270)	155 (71)	
			66	–	33	–	56 (1423)	170 (78)	
				30	–	15	56 (1423)	172 (78)	
400	JD6, JXD6, HJD6, HJXD6	3/0-500 Kcmil (Cu) or 4/0-500 Kcmil (Al)	30	42	15	21	62 (1575)	190 (86)	
			42	54	21	27	68 (1728)	208 (95)	
			54	66	27	33	74 (1880)	226 (104)	
				–	–	–	–	–	–



Note: Main breakers use breaker connectors. For sizes, see breaker connector chart. 400A MLO Panels have wire bend space for 600kcmil CU & AL wire when using standard lugs. With optional 750kcmil AL/CU connectors, wire bend space is available for up to 750kcmil AL wire, but is still limited to 600kcmil CU wire.

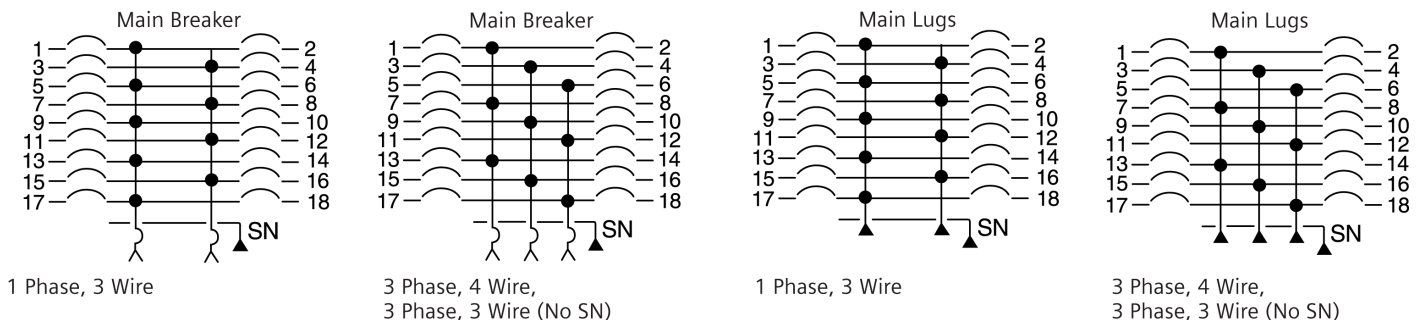
① 400A 66 circuit only available with non-feed thru versions.

② BL, BLH, HBL, BQD, and xGB mount in unit space and count in max. # of poles.

Table P1-5 - Main Lug Panel Size Selector - P1

Maximum Ampere rating	Max # Poles FT	Max # Poles NFT	Dimensions in inches (mm)			Weight in Lbs. (kg)	MLO Connectors Suitable for		
			Unit Space		Box Height B"				
							FT A	NFT A	
125 (or) 250		18	–	9	26 (661)	90 (41)	(1) #6 AWG - 350 kcmil (Cu or AL)		
	18	30	9	15	32 (813)	105 (48)			
	30	42	15	21	38 (965)	120 (55)			
	42	54	21	27	44 (1118)	135 (61)			
	54	66	27	33	50 (1270)	150 (67)			
	66	–	33	–	56 (1423)	165 (73)			
400		30	–	15	56 (1423)	120 (55)	AL (2) 1/0 - 250 kcmil or (1) #2 AWG - 600 kcmil CU (2) 1/0 - 4/0 or (1) #2 AWG - 600 kcmil		
	30	42	15	21	62 (1575)	135 (61)			
	42	54	21	27	68 (1728)	150 (68)			
	54	66	27	33	74 (1880)	165 (75)			

Typical Panelboard Wiring Diagrams



Application

Type P1 Panelboards

Table P1-6 – Branch Circuit Breakers

Max. Amp Rating	Breaker Type	Number of Poles	Max. Interrupting Rating (kA)					Available Trip Values	Connections Suitable for Cu or Al
			120V	120/240V	240V	277V	480/277V		
100	BL	1	10	–	–	–	–	15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 70	15-20A #14-#10 AWG Cu #12-#10 AWG Al 25-35A #8-#6 AWG Cu #8-#6 AWG Al 40-50A #8-#6 AWG Cu #8-#4 AWG Al 55-70A #8-#4 AWG Cu #8-#2 AWG Al 80-100A #4-#1/0 AWG Cu #2-#1/0 AWG Al
		2	–	10	–	–	–	15, 20, 25, 30, 35, 40, 50, 60, 70, 80, 90, 100	
		3	–	–	10	–	–	15, 20, 25, 30, 35, 40, 50, 60, 70, 80, 90, 100	
	BLR	2	–	–	10	–	–	15, 20, 30, 40, 50, 60, 70, 90, 100	
		1	10	–	–	–	–	15, 20, 30	
	BL, HID	2	–	10	–	–	–	15, 20, 30	
		1	–	–	–	–	–	15, 20, 30, 40, 50, 55, 60, 70	
	BLH	2	–	22	–	–	–	15, 20, 30, 40, 50, 60, 70, 90, 100	
		3	–	–	22	–	–	15, 20, 30, 40, 50, 60, 70, 80, 90, 100	
		1	–	65	–	–	–	15, 20, 30, 40, 50	
	HBL	2	–	65	–	–	–	15, 20, 30, 40, 50, 60, 70	
		3	–	–	65	–	–	15, 20, 30, 40, 50, 60, 70, 80, 90, 100	
		1	10	–	–	–	–	15, 20, 30	
	BLF2	2	–	10	–	–	–	15, 20, 30, 40, 50, 60	
	BLHF2	1	22	–	–	–	–	15, 20, 30	
		2	–	22	–	–	–	15, 20, 30, 40, 50, 60	
	BLHFB	1	65	–	–	–	–	15, 20, 30	
		2	–	22	–	–	–	15, 20, 30, 40, 50, 60	
	HBLF2	1	10	–	–	–	–	15, 20, 30	
		2	–	10	–	–	–	15, 20, 30	
BG ①	2	10	–	–	–	–	15, 20, 30		
	3	–	10	–	–	–	15, 20, 30		
BLE	1	10	–	–	–	–	15, 20, 30		
	2	–	10	–	–	–	15, 20, 30, 40, 50, 60		
BLEH	1	22	–	–	–	–	15, 20, 30		
	2	–	22	–	–	–	15, 20, 30, 40, 50, 60		
BAF	1	10	–	–	–	–	15, 20		
	1	22	–	–	–	–	15, 20		
BQD	1	–	65	–	14	–	15, 20, 25, 30, 35, 40, 50, 60, 70, 80, 90, 100		
	2	–	65	–	–	14	15, 20, 25, 30, 35, 40, 50, 60, 70, 80, 90, 100		
	3	–	–	65	–	14	15, 20, 25, 30, 35, 40, 50, 60, 70, 80, 90, 100		
125	NGB ②③	1	100	–	–	25	–	15, 20, 25, 30, 35, 40, 50, 60, 70, 80, 90, 100, 125 ③	
		2	–	100	100	–	25	15, 20, 25, 30, 35, 40, 50, 60, 70, 80, 90, 100, 125 ③	
		3	–	100	100	–	25	15, 20, 25, 30, 35, 40, 50, 60, 70, 80, 90, 100, 125 ③	
	HGB ②③	1	100	–	–	35	–	15, 20, 25, 30, 35, 40, 50, 60, 70, 80, 90, 100, 125 ③	
		2	–	100	100	–	35	15, 20, 25, 30, 35, 40, 50, 60, 70, 80, 90, 100, 125 ③	
		3	–	100	100	–	35	15, 20, 25, 30, 35, 40, 50, 60, 70, 80, 90, 100, 125 ③	
	LGB ②③	1	100	–	–	65	–	15, 20, 25, 30, 35, 40, 50, 60, 70, 80, 90, 100, 125 ③	
		2	–	100	100	–	65	15, 20, 25, 30, 35, 40, 50, 60, 70, 80, 90, 100, 125 ③	
		3	–	100	100	–	65	15, 20, 25, 30, 35, 40, 50, 60, 70, 80, 90, 100, 125 ③	

① Two-pole breaker is one phase and neutral. Three-pole is two phases and neutral.

② P1 panel with NGB/HGB/LGB branch devices will not accept BL or BQD frames in the same panel as branch devices.

③ The New Revised P1 (18 circuit 250A only) is limited to 100A per connection (200A per pair) when installing Branch Breakers across from one another. All other configurations allow 125A per connection max. (250A per pair max.)

Note: BL, HBL and BQD breakers are mounted in common mountings in 3" or (6) pole increments.

Application

Type P1 Panelboards

Table P1-7 – Subfeed Breakers

Breaker Type	Number of Poles	Max. Interrupting Rating (kA)		Available Trip Values
		240V	480Y/277V	
QJ2	2, 3	10	–	60, 70, 80, 90, 100, 110, 125, 150, 175, 200, 225
QJH2	2, 3	22	–	60, 70, 80, 90, 100, 110, 125, 150, 175, 200, 225
QJ2H	2, 3	42	–	60, 70, 80, 90, 100, 110, 125, 150, 175, 200, 225
QR2	2, 3	10	–	100, 110, 125, 150, 175, 200, 225
QRH2	2, 3	25	–	100, 110, 125, 150, 175, 200, 225
HQR2	2, 3	65	–	100, 110, 125, 150, 175, 200, 225
HQR2H	2, 3	100	–	100, 110, 125, 150, 175, 200, 225
ED4	2, 3	65	18	15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 70, 80, 90, 100, 110, 125
ED6	2, 3	65	25	15, 20, 25, 30, 35, 40, 50, 60, 70, 80, 90, 100, 110, 125
HED4	2, 3	100	42	15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 70, 80, 90, 100, 110, 125
HHED6	2, 3	100	65	15, 20, 25, 30, 35, 40, 45, 50, 60, 70, 80, 90, 100, 110, 125
FXD6	2, 3	65	35	70, 80, 90, 100, 110, 125, 150, 175, 200, 225, 250
FD6	2, 3	65	35	70, 80, 90, 100, 110, 125, 150, 175, 200, 225, 250
HFD6	2, 3	100	65	70, 80, 90, 100, 110, 125, 150, 175, 200, 225, 250
HFXD6	2, 3	100	65	70, 80, 90, 100, 110, 125, 150, 175, 200, 225, 250

400 amp kit is for main—only, not allowed for subfeed breaker.

P1 Panelboards

usa.siemens.com/panelboards



Product Description

The current generation of panelboards from Siemens offers the high level of engineering and innovation you've come to expect from the leader in power distribution technology. The "P Series" line of panelboards offers a stepped approach to power distribution. (P1-P2-P3-P4-P5)

The line is anchored by the innovative P1, featuring the industry's most flexible designs. The P1 series virtually eliminates common errors, such as feed direction, and main lug versus main breaker. Increasing distribution is simplified by the ability to add feed-thru lugs or Subfeed Breakers in the field.

P1 construction includes the following:

- **250A max. bus** in CU or AL tin plated w/18-66 1-pole circuits
- **400A max. bus** in CU or AL tin plated w/30-66 1-pole circuits
- * Interiors with BL/BQD branch unit space are available in both Feed-thru and Non-Feed-thru variations. (FT panel # ends with "T", NFT panel # ends with "N")
- **Interiors with xGB/3VA41 branch unit space are only available in Feed-thru variations and 3-phase only.
- *** Non-Feed-thru interiors do not include the Sub-Feed Space, but allows for 6" of additional unit space in the same size enclosure.

Standards & Certifications:

- NEC: 2020 (where accepted), NEMA PB 1 and ANSI/NEMA PB1.1
- UL Listed: 67, 50 and 50E. (see "Panelboards" File #E2269, and #E4016) Also meets Federal Specification W-P-115c.
- NFPA 70 compliant (Enclosures are not fire rated).
- Seismically qualified and OSHPD rated (OSP #0078)- see also LVTM-LVSEI-xxxx Seismic Flier

Features Overview

The P1 Series lighting panel features include:

- 1) Fas-Latch trim (Type 1), is standard but, P1 can be ordered with other popular front styles.
- 2) Adjustable Interiors with jacking screw system.
- 3) The split neutral with connections on both sides of the panel.
- 4) Interior is invertible in the field and convertible from Main Breaker to Main Lug (also ML to MB) with field installable kits.
- 5) Feed-Thru panels can add Feed-thru Lugs, subfeed breakers or bus mounted Surge Protection with no box size change.

P1 construction features:

- Either 250A or 400A max. main bus, only Temp Rated Tin plated aluminum bus or tin plated copper bus are available.
- Up to 600 volts AC with standard Bus bracing up to 200KAIC

Main space:

- 250A max. bus allows for any MLO or MB kit up to 250A max. to be installed or changed in the field as needed.
- 400A max. bus allow for any 400A MLO or MB kit to be installed or changed in the field as needed.

Unit space:

- BL/BQD Unit Space Panels only accept BL, BT or BQD frame breakers up to 100A max. (includes AFCI/GFCI series and BSPD surge)
- xGB/3VA41 Unit Space Panels only accept xGB or 3VA41 frame breakers up to 125A max. (Limited to 100A in the 250A 18 Circuit Panel only) (BSPD bolt on SPD also available)

Subfeed space: (available only with Feed-thru interiors)

- a) Feed-Thru Lugs either 250A max or 400A max are available
- b) Subfeed Breakers can be added using any of the 250A max. Main Strap kits for both 250A or 400A Panels.
- c) Surge Protection Devices: Bus Mounted SPD can be added as Factory Assembled or in the field. (TPS3 02/L2 or TPS4 01/L1 series)

Additional information:

For complete application and pricing information contact your local sales office.

For further information on the product, visit our website at www.usa.siemens.com/panelboards.

For detailed configuration information consult the SpeedFax section 11 on the website.

P1 Panelboard additional information

Enclosures available:

- Std. Enclosure sizes: 20" wide x 5.75" Deep
- Std. heights: 26", 32", 38", 44", 50", 56", 62", 68" and 74". Also available B74FLR universal fit Type 1 Enclosure fits all P1/P2 interiors 26" thru 74".
- Std. Types Available: Type 1, Type 3R, Type 3R/12, or Type 4X

Type 1 Fronts — Surface or Flush available:

Order to match box height: Typical 20" wide w/ #14 Gauge Steel

- FasLatch Front (Surface or Flush) is Standard, options available: Screw-to-Box, Hinge-to-Box and Door-in-Door fronts with either standard hinge or Piano Hinge options (including 304 Stainless).

Weight = Approximate 3 lbs. per inch of box height

- Total panelboard weight when filled with a normal quantity of breakers and accessories is an estimate only.

Series Connected Short Circuit Ratings

The term "Series Connected Short Circuit Rating" refers to the application of series connected circuit breakers in a combination that allows some breakers to have lower individual interrupting ratings than the available fault current.

This is permitted as long as the series combination has been tested and certified by UL. See Circuit Breaker Section of the SpeedFax.

- Series rating booklet # PBTA-00101B-1020 (web searchable)

Catalog Numbering System: Factory Assembled →				P	1	C	4	2	M	L	2	5	0	A	T	S	N
Type of Panel:				P	1												
Voltage and System Code:				A, C/X, D, E/8													
"X" and "8" are for P1 UPB only interiors				F, J, I, T													
(UPB max . circuits = 54) Circuits:				18, 30, 42, 54, 66													
(See Speedfax for MB Codes) Main:				ML = Main Lug,													
MC (Main Convertible for UPB only)				"xx" = Main Breaker													
(UPB : only 250A or 400A max.) Amperage:				100-400A													
(only Tin Plated CU or AL Bus) Bus Code:				(material/plating) A or C only													
Feed Location:				T = Top B = Bottom													
Mounting:				S = Surface F = Flush													
Subfeed Space Indicator (RP1 only)				Factory assembled: T or N = No Subfeed Space													
UPB Catalog number - only 12 characters →				P	1	X	4	2	M	C	2	5	0	A	T		N/A
Subfeed Space Indicator (for RP1 only)				UPB: always = T = Subfeed Space Included													

Voltage codes	
A	120/240 1Ø 3 W AC
C or X	208Y/120 3Ø 4 W Wye AC - X is for P1 UPB only
D	240 3Ø 3 W Delta AC
8	480Y/277 3Ø 4 W Wye - P1 w/GB/3VA41 Branch Only
E	480Y/277 3Ø 4W Wye AC
F	480 3Ø 3 W Delta AC
J	240 1Ø 2W No Neutral AC
I	347 3Ø 3W Delta AC
T	230 3Ø 3W Delta AC
Note:	UPB Interiors available only in codes: A, E, X and 8

Branch Circuit Breakers (also see Bolt on SPD series BSPD in this flier # RPFL-BSPD1-0120)

Revised P1 Branch Circuit Breakers ^①				1-Pole					2-Pole and 3-Pole								
				Max IR (kA) at				Amp Ratings Available	Max IR (kA) at								Amp Ratings Available
Amp Rating	Trip Type	Breaker Family	Breaker Type	120V	277V	347V	125V DC ^③		120/240V	240V	480Y/277V	480V	600Y/347V	600V	125/250V DC ^③	250V DC ^③	
100	Thermal Magnetic	BL	BL, BT ^②	10	—	—	—	15-70 ^②	10	10	—	—	—	—	—	—	15-100 ^④
			BLH, BTH ^②	22	—	—	—	15-70 ^②	22	22	—	—	—	—	—	—	15-100 ^④
			HBL	65	—	—	—	15-50	65	65	—	—	—	—	—	—	15-100
	Special ^② Application	BLG BL	BLG ^②	10	—	—	—	15-20	10	-	—	—	—	—	—	—	30
			BL(HID) ^②	10	—	—	—	15-30	10	-	—	—	—	—	—	—	15-30
	Thermal Magnetic	BQD BQD (CSA)	BQD ^⑤	65	14	—	13	15-100	—	65	14	—	—	—	13	—	15-100
BQD6 ^⑥			65	—	—	13	15-70	—	65	—	10	—	13	—	15-70		
XX	Electronic and misc.	BL	AFCI/GFCI & Dual Function	X	—	—	—	see special table page SF 11-17	x	—	—	—	—	—	—	—	see special table page SF 11-17
125	Thermal Magnetic	GB ^⑦	NGB	100	25	14	13	15-125	—	100	25	—	14	—	13	—	15-125
			HGB	100	35	14	13	15-125	—	100	35	—	14	—	13	—	15-125
			LGB	100	65	14	13	15-125	—	100	65	—	14	—	13	—	15-125
		3VA41 ^⑧	SEAB	65	25	14	13	15-125	65	65	25	25	14	—	53	53	15-125
			MEAB	85	35	18	23	15-125	85	85	35	35	18	—	83	83	15-125
			HEAB	150	65	25	33	15-125	150	150	65	65	25	—	103	103	15-125

① Unit space is 1 inch per pole, except for Special Application with accessory included.
 - No branch kits available, unit space for all branch positions is twin mount.
 - Branch space is either for BL/BQD only (or) for xGB/3VA41 only.
 ② BLG: Two-pole breaker is one phase and neutral. Three pole is two phases and neutral
 - See SpeedFax Page 7-31 for additional info. Some are Built to order. Allow 2-3 weeks delivery.
 ③ DC Voltage Systems are not approved for use in P1 panels. Refer to P2/P3 panels if DC Voltage Systems are needed.

④ 110A-125A BL/BLH (2-pole only) available as Main or Subfeed only in Revised P1 panels.
 ⑤ Approved for CSA and UL Listed.
 ⑥ Approved for CSA but not UL Listed.
 ⑦ BT and BTH are only available in 15A and 20A with two 1-pole circuits in one inch of unit space.
 ⑧ The Revised P1 (18 circuit 250A only) is limited to 100A per connection (200A per pair) when installing xGB Branch Breakers across from one another. 3VA41 does not have this restriction. All other configurations allow 125A per connection max. (250A per pair max.)



Primary Main Breaker Selections available for P1 Panels

Note: all 250A frame and smaller are suitable for Subfeed single mount

P1 Main Circuit Breakers & Subfeed				2-Pole and 3-Pole					Amp Ratings Available	Main Strap Kits [®] (Subfeed up to 250A max.)
				Max IR (kA) at ^①						
Amp Rating	Breaker Family	Main Breaker Code	Breaker Type	240V	480Y /277V	480V ^②	600Y /347V	600V ^③		
100	BL	BL	BL	10	—	—	—	—	15-100	MBKVA41A for 1-phase MBKVA41B for 3-phase
		BH	BLH	22	—	—	—	—	15-100	
		HB	HBL	65	—	—	—	—	15-100	
	BQD	BQ	BQD ^②	65	14	—	10	—	15-100	
125	Sentron GB	NB	NGB	100	25	—	14	—	15-125	
		G2	HGB	100	35	—	14	—	15-125	
		G3	LGB	100	65	—	14	—	15-125	
	3VA41	V1	SEAB	65	—	25	14	—	15-125	
		V2	MEAB	85	—	35	18	—	15-125	
		V3	HEAB	100	—	65	25	—	15-125	
225	Sentron QR	QR	QR2	10	—	—	—	—	100-225	MBKQR1A for 1-ph
		Q4	QRH2	25	—	—	—	—	100-225	
		Q5	HQR2	65	—	—	—	—	100-225	MBKQR3A for 3-ph
		Q6	HQR2H	100	—	—	—	—	100-225	
250 [150]	3VA52 (W/TM230 trip)	VA	MFAS	85	—	35	—	18	100-250	MBKVA5262A for 1-phase MBKVA5262B for 3-phase
		VB	HFAS	100	—	65	—	25	100-250	
		VC	CFAS	200	—	100	—	35	100-250	
	3VA62 [3VA61] (ETU350 LSI standard)	WA [W2]	MFAE [MDAE]	100	—	35	—	18	100-250 [40-150]	
		WB [W3]	HFAE [HDAE]	100	—	65	—	22	100-250 [40-150]	
		WC [W4]	CFAE [CDAE]	200	—	100	—	35	100-250 [40-150]	
		WD [W5]	LFAE [LDAE]	200	—	150	—	50	100-250 [40-150]	
	400	3VA53 (W/TM230 trip)	VE	MJAS	85	—	35	—	18	
VF			HJAS	100	—	65	—	25	200-400	
VG			CJAS	200	—	100	—	35	300-400	
3VA63 (ETU350 LSI standard)		WE	MJAE	100	—	35	—	18	100-400	
		WF	HJAE	100	—	65	—	22	100-400	
		WG	CJAE	200	—	100	—	35	100-400	
		WH	LJAE	200	—	150	—	50	100-400	

^① DC System Voltages are not available for RP1 series.
^② Approved for CSA and UL Listed.
^③ For Revised P1 Panels only. Not applicable for "original" P1 panels.
^④ 480V values apply to 480Y/277V also.
^⑤ 600V values apply to 600Y/347V also.

Standard Enclosures

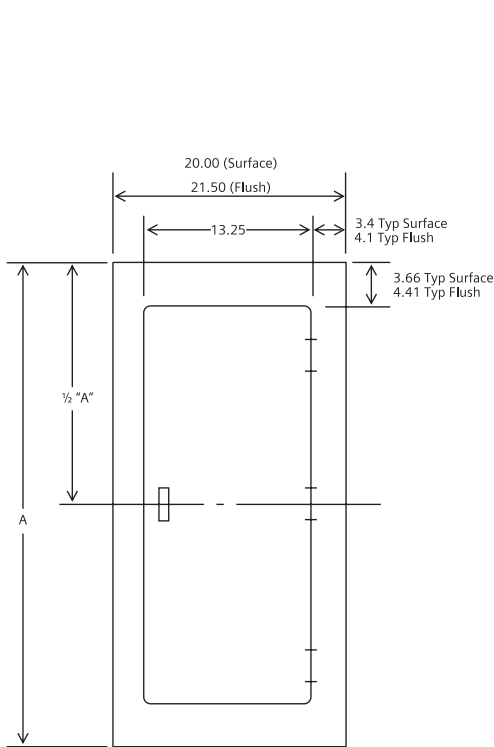
Box Height (in.)	Catalog Number				
	Type 1 Standard Trim			Type 3R [®]	Type 3R/12 [®]
	Box ^①	Surface ^②	Flush ^②		
26	B26	S26B	F26B	NR26	WP26
32	B32	S32B	F32B	NR32	WP32
38	B38	S38B	F38B	NR38	WP38
44	B44	S44B	F44B	NR44	WP44
50	B50	S50B	F50B	NR50	WP50
56	B56	S56B	F56B	NR56	WP56
62	B62	S62B	F62B	NR62	WP62
68	B68	S68B	F68B	NR68	WP68
74	B74	S74B	F74B	NR74	WP74

① 14 Gauge Steel only.
 ② 16 Gauge Can w/ 14 Gauge Front.

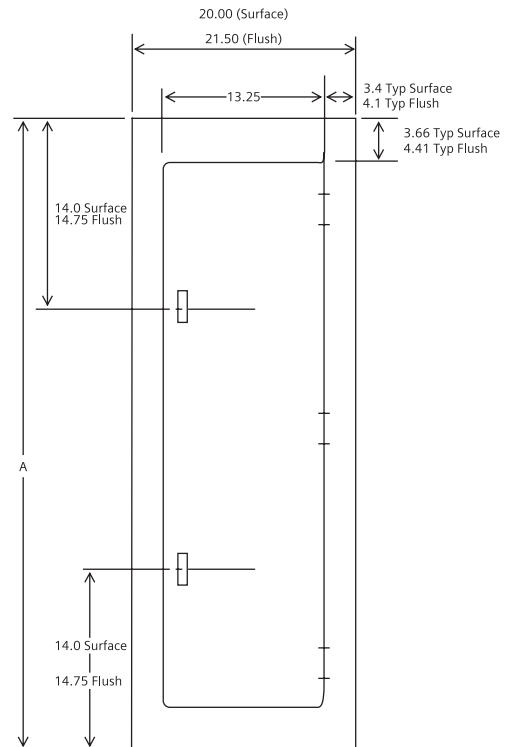
Lug Kits — Main or Feed Thru

Amp Rating	Mat.	Wire Range (includes Neutral)	Service	Revised P1 Catalog No. ^①
250	AL	(1) #6 AWG-350 kcmil (CU or AL)	1 Phase	MLKA1A
			3 Phase	MLKA3A
	CU	(1) #6 AWG-350 kcmil (CU) cable only	1 Phase	MLKC1A
			3 Phase	MLKC3A
400	AL	(2) 1/0 - 250 kcmil or (1) #2 AWG-600 kcmil	1 Phase	4MLKA1A
			3 Phase	4MLKA3A
	CU	(1) 1/0 - 600 kcmil CU cable only	1 Phase	4MLKC1A
			3 Phase	4MLKC3A
400	AL	(1) AL 1/0-750 kcmil (2) AL/CU 250kcmil max. [max.(1) 600 kcmil CU wire]	1 Phase	4MLKA1B
			3 Phase	4MLKA3B

① Revised P1 kits cannot be used with original P1.



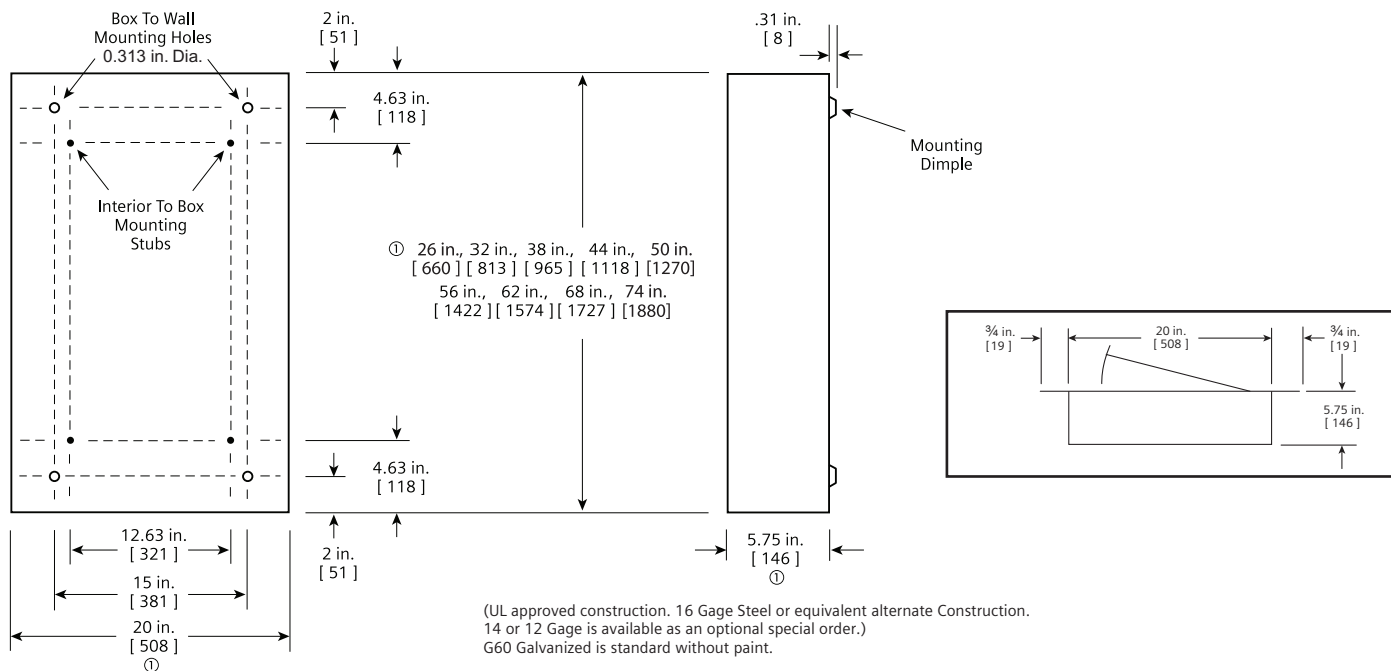
Box Size	Surface	Flush	# of Hinges
	A	A	
26	26	27.5	2
32	32	33.5	2
38	38	39.5	2
44	44	45.5	3
50	50	51.5	3



Box Size	Surface	Flush	# of Hinges
	A	A	
56	56	57.5	3
62	62	63.5	3
68	68	69.5	3
74	74	75.5	3

Type 1 Box

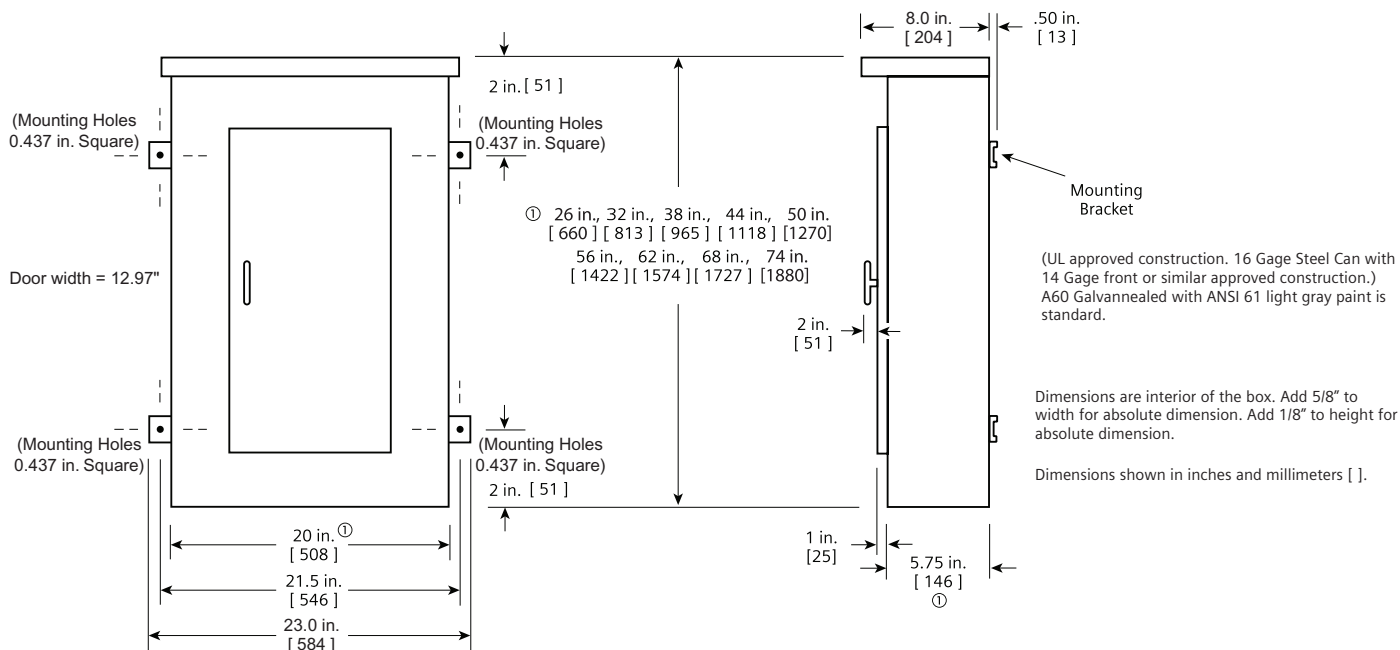
Box is symmetrical



Type 3R and 3R/12 Box

Note: 3R boxes 50" High and Larger include two "T" handles.

Flush Mounting



Legal Manufacturer

Siemens Industry, Inc.
3617 Parkway Ln
Peachtree Corners, GA 30092
United States of America
Telephone: +1 (800) 333-7421
www.usa.siemens.com/panelboards

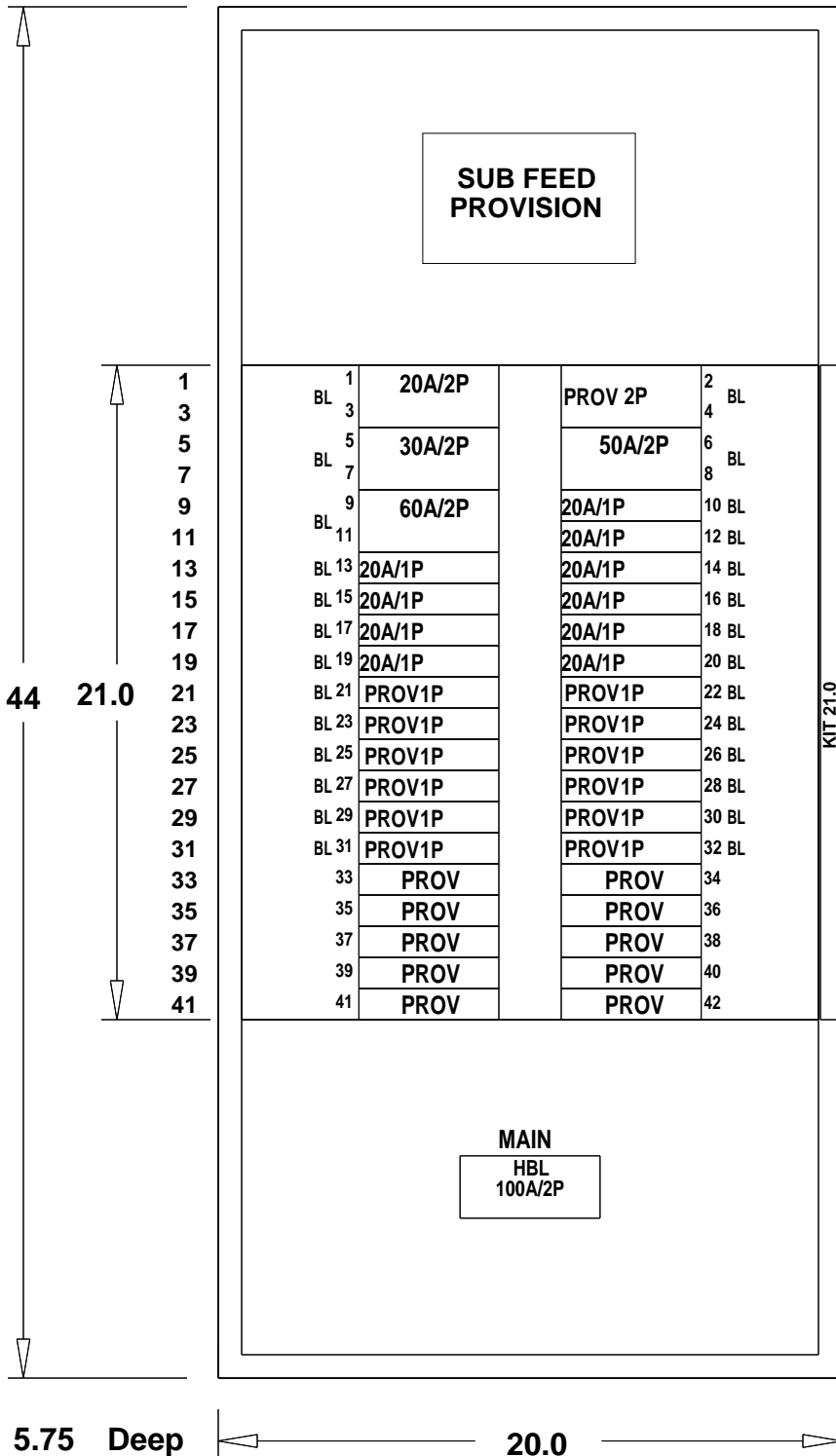
Order No. PBSS-20301-1021
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This document contains a general description of available technical options only, and its effectiveness will be subject to specific variables including field conditions and project parameters. Siemens does not make representations, warranties, or assurances as to the accuracy or completeness of the content contained herein. Siemens reserves the right to modify the technology and product specifications in its sole discretion without advance notice.

SECTION :1 OF 1
 PANEL TYPE :P1
 CATALOG NUMBER :P1A42HB100CBST
 ENCLOSURE :3R Outdoor
 SYSTEM VOLTAGE :120/240 1Ø 3W GND Neutral AC
 IR RATING :35 K AIC
 MAIN BUS :100 A
 BUS MATERIAL :Tin Plated Copper
 FEED :Bottom
 MOUNTING :Surface
 SE LABEL :Yes
 SERIES RATED :Yes
 CONDUIT AREA :N/A
 *INDICATES POSITIONING NUMBERS TO HELP WITH THE MANUAL PLACEMENT OF BREAKERS ON THE MECHANICAL VIEW

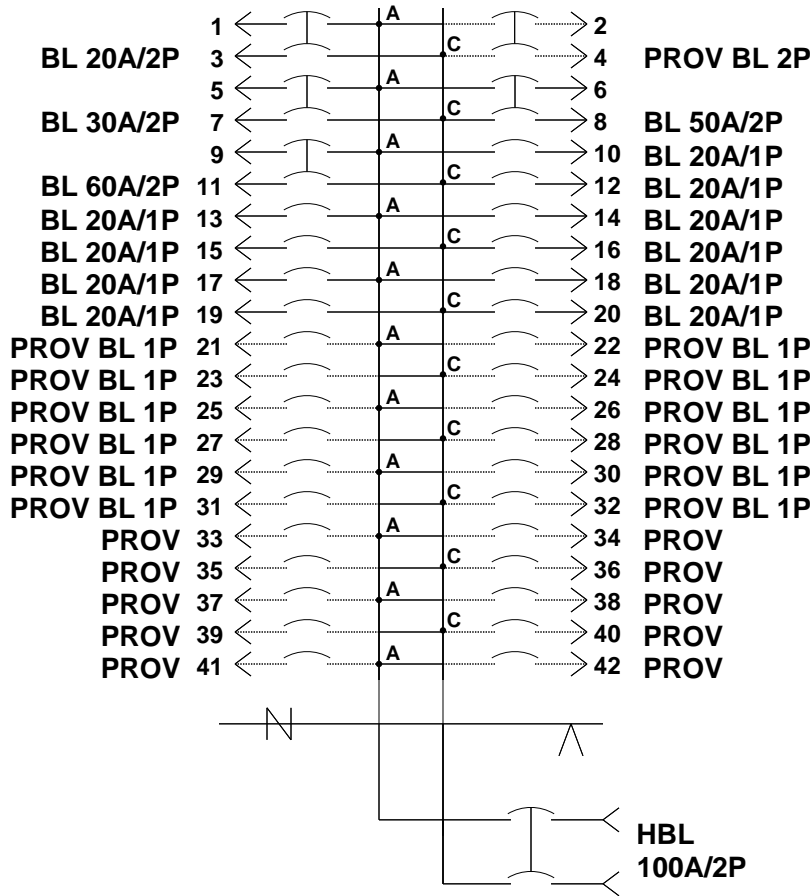
PANELBOARD COMPONENTS

- Main :
 1 - 100A /2P-HBL MAIN BREAKER
- Branches :
 10 - BL/BQD PROVISION
 1 - 20A /2P-BL
 1 - 2P-BL - PROV
 1 - 30A /2P-BL
 1 - 50A /2P-BL
 1 - 60A /2P-BL
 10 - 20A /1P-BL
 12 - 1P-BL - PROV
- Options :
 1-Subfeed/Feedthru Provision
 1-RP1 Single Phase Main Kit BL/B
 1-Gnd Conn-Shipped w/ Interior
 1-Std Al/Cu Gnd Connector
 1-250A 100% Neutral 42, 54Cir AL
 1-RP1 Service Entrance Barrier Main-BL, BQD
 1-No Front
 1-Certification - UL



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CONTR CONSOLIDATED ELECTRICAL DISTRIBUTORS INC		CONSLT	
TIE -		BY gausmx00c	ENG. LOC. -
S.O. 1001229011		DATE 3-20-2023	DESIGNATION SITE
DWG. NO. 1001229011-20000-1		Siemens Industry, Inc.	
NO.		DRAWN BY	DATE
REVISIONS		Norcross, Georgia	
APP.		MFG. LOC.	REV. 1
APP.		DWG. FILE	SHEET 1 OF 6

SECTION :1 OF 1
 PANEL TYPE :P1
 CATALOG NUMBER :P1A42HB100CBST
 ENCLOSURE :3R Outdoor
 SYSTEM VOLTAGE :120/240 1Ø 3W GND Neutral AC
 IR RATING :35 K AIC
 MAIN BUS :100 A
 BUS MATERIAL :Tin Plated Copper
 FEED :Bottom
 MOUNTING :Surface
 SE LABEL :Yes
 SERIES RATED :Yes
 CONDUIT AREA :N/A
 *INDICATES POSITIONING NUMBERS TO HELP WITH THE MANUAL PLACEMENT OF BREAKERS ON THE MECHANICAL VIEW



(1)#4-#1/0 CU / #2-#1/0 AL/PH AND N

ABBREVIATIONS

'PROV' PROVISION FOR FUTURE DEVICE

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S.O. 1001229011	DATE 3-20-2023		
Siemens Industry, Inc.		1001229011-20000-2	
APP.	MFG. LOC.	APP.	REV.
APP.	DWG. FILE	SHEET 2 OF 6	
Norcross, Georgia		1	

CIRCUIT SCHEDULE

CIRCUIT NUMBER	UNIQUE ID NO.	TRIP AMPS (A)	POLES	DEVICE TYPE	INTERRUPT RATING (AIC)	METER ACC	CT RATING	LOAD LUG SIZE PER PHASE	CIRCUIT IDENTIFICATION
1/3	100	20	2	BL	-	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
5/7	102	30	2	BL	-	N/A	N/A	(1)#14-#6 CU / #12-#6 AL	-
9/11	104	60	2	BL	-	N/A	N/A	(1)#8-#4 CU / #6-#2 AL	-
13	107	20	1	BL	-	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
15	109	20	1	BL	-	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
17	111	20	1	BL	-	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
19	113	20	1	BL	-	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
21	115	20	1	B-PROV	-	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
23	117	20	1	B-PROV	-	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
25	119	20	1	B-PROV	-	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
27	121	20	1	B-PROV	-	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
29	123	20	1	B-PROV	-	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
31	125	20	1	B-PROV	-	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
33	127	-	1	B-PROV	-	-	-	-	-
35	129	-	1	B-PROV	-	-	-	-	-
37	131	-	1	B-PROV	-	-	-	-	-
39	133	-	1	B-PROV	-	-	-	-	-
41	135	-	1	B-PROV	-	-	-	-	-
2/4	101	20	2	B-PROV	-	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
6/8	103	50	2	BL	-	N/A	N/A	(1)#8-#6 CU / #8-#4 AL	-
10	105	20	1	BL	-	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
12	106	20	1	BL	-	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
14	108	20	1	BL	-	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
16	110	20	1	BL	-	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
18	112	20	1	BL	-	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
20	114	20	1	BL	-	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
22	116	20	1	B-PROV	-	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
24	118	20	1	B-PROV	-	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
26	120	20	1	B-PROV	-	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
28	122	20	1	B-PROV	-	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
30	124	20	1	B-PROV	-	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
32	126	20	1	B-PROV	-	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
34	128	-	1	B-PROV	-	-	-	-	-
36	130	-	1	B-PROV	-	-	-	-	-
38	132	-	1	B-PROV	-	-	-	-	-
40	134	-	1	B-PROV	-	-	-	-	-
42	136	-	1	B-PROV	-	-	-	-	-

JOB			
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CONTR	CONSOLIDATED ELECTRICAL DISTRIBUTORS INC	CONSULT	
TIE	-	BY	gausmx01c
S.O.	1001229011	ENG. LOC.	-
		DATE	3-20-2023
		DESIGNATION	SITE
		DWG. NO.	1001229011-20000-3
		Siemens Industry, Inc.	
APP.		MFG. LOC.	
APP.		DWG. FILE	
Norcross, Georgia			SHEET 3 OF 6
			REV. 1

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S.O. 1001229011	DATE 3-20-2023		
Siemens Industry, Inc.		DWG. NO. 1001229011-20000-4	
Norcross, Georgia	APP.	MFG. LOC.	REV.
	APP.	DWG. FILE	1
		SHEET 4 OF 6	

APPLICATION ENGINEERING REPORT

UNIQUE ID NUMBER	DESCRIPTION	APPLICATION DESCRIPTION

JOB			
MARATHON-LK MAY RESERVE -			
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S.O. 1001229011	DATE 3-20-2023		
Siemens Industry, Inc.		DWG. NO. 1001229011-20000-5	
		APP. -	MFG. LOC. -
Norcross, Georgia		APP. -	DWG. FILE -
		SHEET 5 OF 6	
			REV. 1

DETAILED CIRCUIT SCHEDULE

Circuit #	Device Type	Device Catalog #	Frame Amp	Trip Amp	Interrupting Class	Trip Unit Type	Load Rating	# Of Poles	Brkr Trip Setting	COMM	DAS/ZSI	Accessories	Load Lug Size Per Phase
1	-	-	-	-	-	-	-	-	-	-	-	-	-
2	BL	B220	100	20	10KAIC	TM	STD	2	-	NO	N/N	-	(1)#14-#10 CU / #12-#10 AL
3	B-PROV	-	100	20	10KAIC	TM	STD	2	-	NO	N/N	-	(1)#14-#10 CU / #12-#10 AL
4	BL	B230	100	30	10KAIC	TM	STD	2	-	NO	N/N	-	(1)#14-#6 CU / #12-#6 AL
5	BL	B250	100	50	10KAIC	TM	STD	2	-	NO	N/N	-	(1)#8-#6 CU / #8-#4 AL
6	BL	B260	100	60	10KAIC	TM	STD	2	-	NO	N/N	-	(1)#8-#4 CU / #6-#2 AL
7	BL	B120	100	20	10KAIC	TM	STD	1	-	NO	N/N	-	(1)#14-#10 CU / #12-#10 AL
8	BL	B120	100	20	10KAIC	TM	STD	1	-	NO	N/N	-	(1)#14-#10 CU / #12-#10 AL
9	BL	B120	100	20	10KAIC	TM	STD	1	-	NO	N/N	-	(1)#14-#10 CU / #12-#10 AL
10	BL	B120	100	20	10KAIC	TM	STD	1	-	NO	N/N	-	(1)#14-#10 CU / #12-#10 AL
11	BL	B120	100	20	10KAIC	TM	STD	1	-	NO	N/N	-	(1)#14-#10 CU / #12-#10 AL
12	BL	B120	100	20	10KAIC	TM	STD	1	-	NO	N/N	-	(1)#14-#10 CU / #12-#10 AL
13	BL	B120	100	20	10KAIC	TM	STD	1	-	NO	N/N	-	(1)#14-#10 CU / #12-#10 AL
14	BL	B120	100	20	10KAIC	TM	STD	1	-	NO	N/N	-	(1)#14-#10 CU / #12-#10 AL
15	BL	B120	100	20	10KAIC	TM	STD	1	-	NO	N/N	-	(1)#14-#10 CU / #12-#10 AL
16	BL	B120	100	20	10KAIC	TM	STD	1	-	NO	N/N	-	(1)#14-#10 CU / #12-#10 AL
17	B-PROV	-	100	20	10KAIC	TM	STD	1	-	NO	N/N	-	(1)#14-#10 CU / #12-#10 AL
18	B-PROV	-	100	20	10KAIC	TM	STD	1	-	NO	N/N	-	(1)#14-#10 CU / #12-#10 AL
19	B-PROV	-	100	20	10KAIC	TM	STD	1	-	NO	N/N	-	(1)#14-#10 CU / #12-#10 AL
20	B-PROV	-	100	20	10KAIC	TM	STD	1	-	NO	N/N	-	(1)#14-#10 CU / #12-#10 AL
21	B-PROV	-	100	20	10KAIC	TM	STD	1	-	NO	N/N	-	(1)#14-#10 CU / #12-#10 AL
22	B-PROV	-	100	20	10KAIC	TM	STD	1	-	NO	N/N	-	(1)#14-#10 CU / #12-#10 AL
23	B-PROV	-	100	20	10KAIC	TM	STD	1	-	NO	N/N	-	(1)#14-#10 CU / #12-#10 AL
24	B-PROV	-	100	20	10KAIC	TM	STD	1	-	NO	N/N	-	(1)#14-#10 CU / #12-#10 AL
25	B-PROV	-	100	20	10KAIC	TM	STD	1	-	NO	N/N	-	(1)#14-#10 CU / #12-#10 AL
26	B-PROV	-	100	20	10KAIC	TM	STD	1	-	NO	N/N	-	(1)#14-#10 CU / #12-#10 AL
27	B-PROV	-	100	20	10KAIC	TM	STD	1	-	NO	N/N	-	(1)#14-#10 CU / #12-#10 AL
28	B-PROV	-	100	20	10KAIC	TM	STD	1	-	NO	N/N	-	(1)#14-#10 CU / #12-#10 AL
29	B-PROV	-	-	-	-	-	-	-	-	-	-	-	-
30	B-PROV	-	-	-	-	-	-	-	-	-	-	-	-
31	B-PROV	-	-	-	-	-	-	-	-	-	-	-	-
32	B-PROV	-	-	-	-	-	-	-	-	-	-	-	-
33	B-PROV	-	-	-	-	-	-	-	-	-	-	-	-
34	B-PROV	-	-	-	-	-	-	-	-	-	-	-	-
35	B-PROV	-	-	-	-	-	-	-	-	-	-	-	-
36	B-PROV	-	-	-	-	-	-	-	-	-	-	-	-
37	B-PROV	-	-	-	-	-	-	-	-	-	-	-	-
38	B-PROV	-	-	-	-	-	-	-	-	-	-	-	-
39	HBL	B2100HH	125	100	65KAIC	TM	STD	2	-	NO	N/N	-	(1)#4-#1/0 CU / #2-#1/0 AL

JOB			
MARATHON-LK MAY RESERVE -			
P.O.	-	CUST.	CONSOLIDATED ELECTRICALDISTRIBUTORS INC
CONTR	CONSOLIDATED ELECTRICAL DISTRIBUTORS INC	CONSLT	
TIE	-	BY	gausmx00c
S.O.	1001229011	ENG. LOC.	SITE
		DATE	3-20-2023
		DWG. NO.	1001229011-20000-6
Siemens Industry, Inc.		APP.	MFG. LOC.
Norcross, Georgia		APP.	DWG. FILE
			SHEET 6 OF 6
			REV. 1

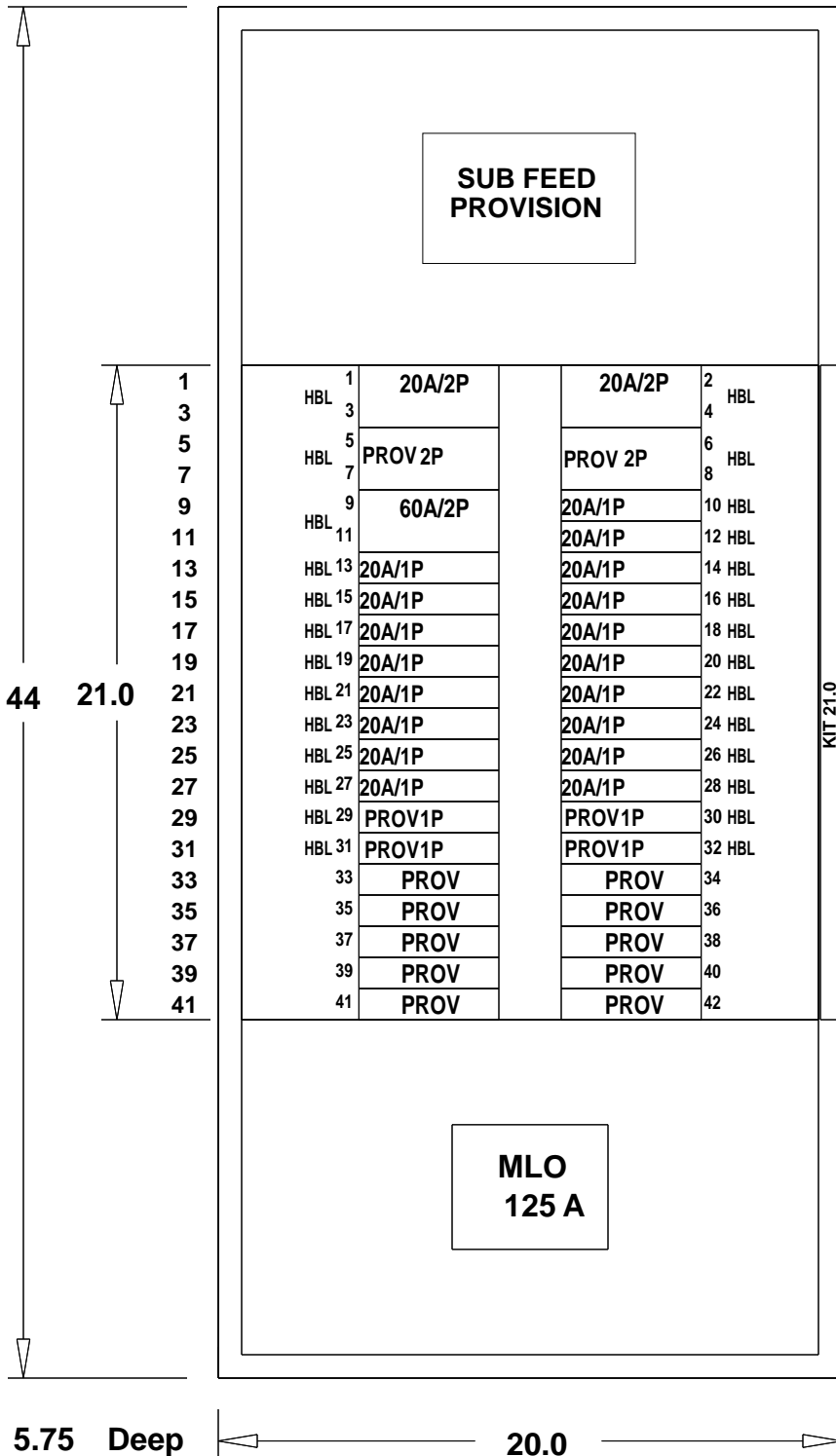
SECTION :1 OF 1
 PANEL TYPE :P1
 CATALOG NUMBER :P1A42ML125CBST
 ENCLOSURE :1 Indoor
 SYSTEM VOLTAGE :120/240 1Ø 3W GND Neutral AC
 IR RATING :35 K AIC
 MAIN BUS :125 A
 BUS MATERIAL :Tin Plated Copper
 FEED :Bottom
 MOUNTING :Surface
 SE LABEL :No
 SERIES RATED :No
 CONDUIT AREA :N/A
 *INDICATES POSITIONING NUMBERS TO HELP WITH THE MANUAL PLACEMENT OF BREAKERS ON THE MECHANICAL VIEW

PANELBOARD COMPONENTS

Main :
 1 - 125A MAIN LUG
 1-AL/CU Main Lug - (1)#6-350Kcmil

Branches :
 10 - BL/BQD PROVISION
 2 - 20A /2P-HBL
 2 - 2P-HBL - PROV
 1 - 60A /2P-HBL
 18 - 20A /1P-HBL
 4 - 1P-HBL - PROV

Options :
 1-Subfeed/Feedthru Provision
 1-Card Holder-Std Plastic Sleeve
 1-Gnd Conn-Shipped w/ Interior
 1-Std Al/Cu Gnd Connector
 1-250A 100% Neutral 42, 54Cir AL
 1-Certification - UL



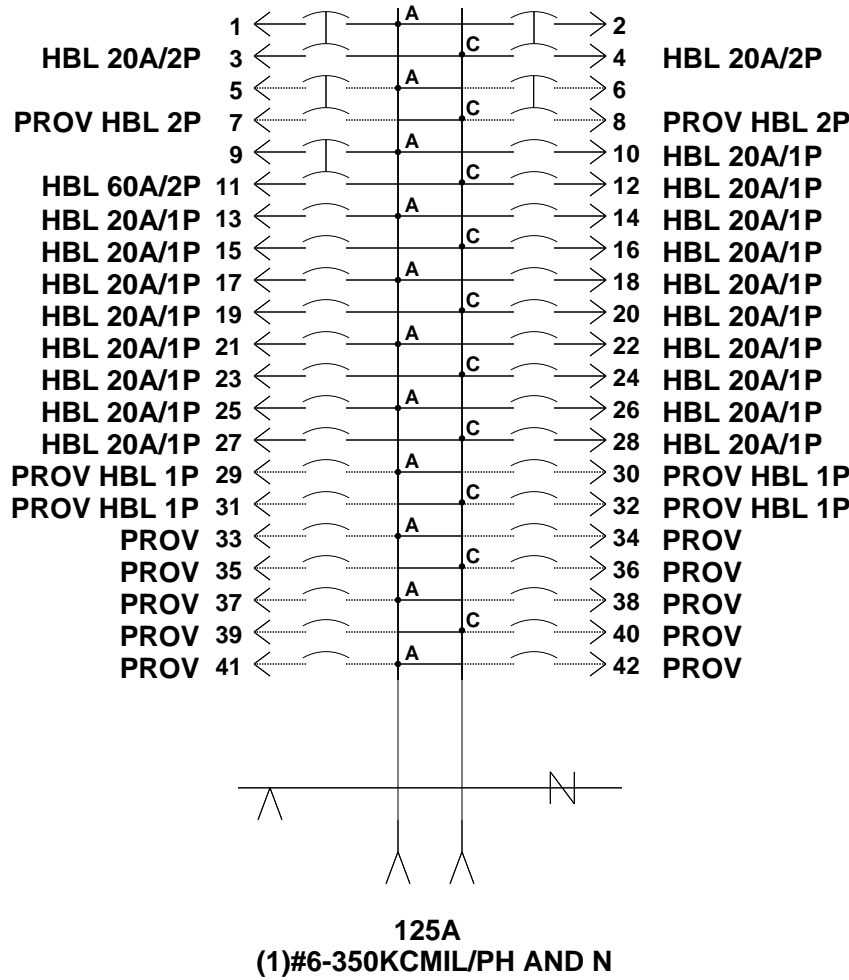
KIT 21.0

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JOB MARATHON-LK MAY RESERVE -			
P.O. -	CUST. CONSOLIDATED ELECTRICAL DISTRIBUTORS INC		
CONTR CONSOLIDATED ELECTRICAL DISTRIBUTORS INC	CONSLT		
TIE -	BY gausmx00c	ENG. LOC. -	DESIGNATION BATHROOM
S.O. 1001229011	DATE 3-20-2023		
DWG. NO. 1001229011-21000-1			
Siemens Industry, Inc.			
Norcross, Georgia			

1	0	gausmx00c032023	3-20-2023
NO.	REVISIONS	DRAWN BY	DATE

SECTION :1 OF 1
 PANEL TYPE :P1
 CATALOG NUMBER :P1A42ML125CBST
 ENCLOSURE :1 Indoor
 SYSTEM VOLTAGE :120/240 1Ø 3W GND Neutral AC
 IR RATING :35 K AIC
 MAIN BUS :125 A
 BUS MATERIAL :Tin Plated Copper
 FEED :Bottom
 MOUNTING :Surface
 SE LABEL :No
 SERIES RATED :No
 CONDUIT AREA :N/A
 *INDICATES POSITIONING NUMBERS TO HELP WITH THE MANUAL PLACEMENT OF BREAKERS ON THE MECHANICAL VIEW



ABBREVIATIONS

MLO MAIN LUGS ONLY
 PROV PROVISION FOR FUTURE DEVICE

JOB MARATHON-LK MAY RESERVE -			
P.O. -	CUST. CONSOLIDATED ELECTRICALDISTRIBUTORS INC		
CONTR CONSOLIDATED ELECTRICAL DISTRIBUTORS INC	CONSULT		
TIE -	BY gausmx01c	ENG. LOC. -	DESIGNATION BATHROOM
S.O. 1001229011	DATE 3-20-2023		
Siemens Industry, Inc. Norcross, Georgia		DWG. NO. 1001229011-21000-2	
APP.	MFG. LOC.		REV.
APP.	DWG. FILE	SHEET 2 OF 6	1

CIRCUIT SCHEDULE

CIRCUIT NUMBER	UNIQUE ID NO.	TRIP AMPS (A)	POLES	DEVICE TYPE	INTERRUPT RATING (AIC)	METER ACC	CT RATING	LOAD LUG SIZE PER PHASE	CIRCUIT IDENTIFICATION
1/3	99	20	2	HBL	65,000	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
5/7	101	20	2	B-PROV	65,000	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
9/11	103	60	2	HBL	65,000	N/A	N/A	(1)#8-#4 CU / #6-#2 AL	-
13	106	20	1	HBL	65,000	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
15	108	20	1	HBL	65,000	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
17	110	20	1	HBL	65,000	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
19	112	20	1	HBL	65,000	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
21	114	20	1	HBL	65,000	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
23	116	20	1	HBL	65,000	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
25	118	20	1	HBL	65,000	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
27	120	20	1	HBL	65,000	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
29	122	20	1	B-PROV	65,000	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
31	124	20	1	B-PROV	65,000	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
33	126	-	1	B-PROV	-	-	-	-	-
35	128	-	1	B-PROV	-	-	-	-	-
37	130	-	1	B-PROV	-	-	-	-	-
39	132	-	1	B-PROV	-	-	-	-	-
41	134	-	1	B-PROV	-	-	-	-	-
2/4	100	20	2	HBL	65,000	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
6/8	102	20	2	B-PROV	65,000	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
10	104	20	1	HBL	65,000	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
12	105	20	1	HBL	65,000	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
14	107	20	1	HBL	65,000	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
16	109	20	1	HBL	65,000	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
18	111	20	1	HBL	65,000	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
20	113	20	1	HBL	65,000	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
22	115	20	1	HBL	65,000	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
24	117	20	1	HBL	65,000	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
26	119	20	1	HBL	65,000	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
28	121	20	1	HBL	65,000	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
30	123	20	1	B-PROV	65,000	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
32	125	20	1	B-PROV	65,000	N/A	N/A	(1)#14-#10 CU / #12-#10 AL	-
34	127	-	1	B-PROV	-	-	-	-	-
36	129	-	1	B-PROV	-	-	-	-	-
38	131	-	1	B-PROV	-	-	-	-	-
40	133	-	1	B-PROV	-	-	-	-	-
42	135	-	1	B-PROV	-	-	-	-	-

JOB			
MARATHON-LK MAY RESERVE -			
P.O.	-	CUST.	CONSOLIDATED ELECTRICALDISTRIBUTORS INC
CONTR	CONSOLIDATED ELECTRICAL DISTRIBUTORS INC	CONSLT	
TIE	-	BY	gausmx0c
S.O.	1001229011	ENG. LOC.	BATHROOM
		DATE	3-20-2023
		DWG. NO.	1001229011-21000-3
Siemens Industry, Inc.		APP.	MFG. LOC.
Norcross, Georgia		APP.	DWG. FILE
SHEET 3 OF 6			REV. 1

JOB MARATHON-LK MAY RESERVE -			
P.O. -	CUST. CONSOLIDATED ELECTRICALDISTRIBUTORS INC		
CONTR CONSOLIDATED ELECTRICAL DISTRIBUTORS INC	CONSULT		
TITLE -	BY gausmx01c	ENG. LOC. -	DESIGNATION BATHROOM
S.O. 1001229011	DATE 3-20-2023		
Siemens Industry, Inc.		DWG. NO. 1001229011-21000-4	
Norcross, Georgia	APP.	MFG. LOC.	REV.
	APP.	DWG. FILE	SHEET 4 OF 6
			1

APPLICATION ENGINEERING REPORT

UNIQUE ID NUMBER	DESCRIPTION	APPLICATION DESCRIPTION

<small>JOB</small>			
MARATHON-LK MAY RESERVE -			
<small>P.O.</small>	<small>CUST.</small>		
-	CONSOLIDATED ELECTRICALDISTRIBUTORS INC		
<small>CONTR</small>	<small>CONSULT</small>		
CONSOLIDATED ELECTRICAL DISTRIBUTORS INC			
<small>TIE</small>	<small>BY</small>	<small>ENG. LOC.</small>	<small>DESIGNATION</small>
-	gausmx01c	-	BATHROOM
<small>S.O.</small>	<small>DATE</small>		
1001229011	3-20-2023		
<small>DWG. NO.</small>		1001229011-21000-5	
Siemens Industry, Inc.		<small>APP.</small>	<small>MFG. LOC.</small>
Norcross, Georgia		<small>APP.</small>	<small>DWG. FILE</small>
		SHEET 5 OF 6	
			<small>REV.</small> 1

DETAILED CIRCUIT SCHEDULE

Circuit #	Device Type	Device Catalog #	Frame Amp	Trip Amp	Interrupting Class	Trip Unit Type	Load Rating	# Of Poles	Brkr Trip Setting	COMM	DAS/ZSI	Accessories	Load Lug Size Per Phase
1	-	-	-	-	-	-	-	-	-	-	-	-	-
2	HBL	B220HH	125	20	65KAIC	TM	STD	2	-	NO	N/N	-	(1)#14-#10 CU / #12-#10 AL
3	HBL	B220HH	125	20	65KAIC	TM	STD	2	-	NO	N/N	-	(1)#14-#10 CU / #12-#10 AL
4	B-PROV	-	125	20	65KAIC	TM	STD	2	-	NO	N/N	-	(1)#14-#10 CU / #12-#10 AL
5	B-PROV	-	125	20	65KAIC	TM	STD	2	-	NO	N/N	-	(1)#14-#10 CU / #12-#10 AL
6	HBL	B260HH	125	60	65KAIC	TM	STD	2	-	NO	N/N	-	(1)#8-#4 CU / #6-#2 AL
7	HBL	B120HH	125	20	65KAIC	TM	STD	1	-	NO	N/N	-	(1)#14-#10 CU / #12-#10 AL
8	HBL	B120HH	125	20	65KAIC	TM	STD	1	-	NO	N/N	-	(1)#14-#10 CU / #12-#10 AL
9	HBL	B120HH	125	20	65KAIC	TM	STD	1	-	NO	N/N	-	(1)#14-#10 CU / #12-#10 AL
10	HBL	B120HH	125	20	65KAIC	TM	STD	1	-	NO	N/N	-	(1)#14-#10 CU / #12-#10 AL
11	HBL	B120HH	125	20	65KAIC	TM	STD	1	-	NO	N/N	-	(1)#14-#10 CU / #12-#10 AL
12	HBL	B120HH	125	20	65KAIC	TM	STD	1	-	NO	N/N	-	(1)#14-#10 CU / #12-#10 AL
13	HBL	B120HH	125	20	65KAIC	TM	STD	1	-	NO	N/N	-	(1)#14-#10 CU / #12-#10 AL
14	HBL	B120HH	125	20	65KAIC	TM	STD	1	-	NO	N/N	-	(1)#14-#10 CU / #12-#10 AL
15	HBL	B120HH	125	20	65KAIC	TM	STD	1	-	NO	N/N	-	(1)#14-#10 CU / #12-#10 AL
16	HBL	B120HH	125	20	65KAIC	TM	STD	1	-	NO	N/N	-	(1)#14-#10 CU / #12-#10 AL
17	HBL	B120HH	125	20	65KAIC	TM	STD	1	-	NO	N/N	-	(1)#14-#10 CU / #12-#10 AL
18	HBL	B120HH	125	20	65KAIC	TM	STD	1	-	NO	N/N	-	(1)#14-#10 CU / #12-#10 AL
19	HBL	B120HH	125	20	65KAIC	TM	STD	1	-	NO	N/N	-	(1)#14-#10 CU / #12-#10 AL
20	HBL	B120HH	125	20	65KAIC	TM	STD	1	-	NO	N/N	-	(1)#14-#10 CU / #12-#10 AL
21	HBL	B120HH	125	20	65KAIC	TM	STD	1	-	NO	N/N	-	(1)#14-#10 CU / #12-#10 AL
22	HBL	B120HH	125	20	65KAIC	TM	STD	1	-	NO	N/N	-	(1)#14-#10 CU / #12-#10 AL
23	HBL	B120HH	125	20	65KAIC	TM	STD	1	-	NO	N/N	-	(1)#14-#10 CU / #12-#10 AL
24	HBL	B120HH	125	20	65KAIC	TM	STD	1	-	NO	N/N	-	(1)#14-#10 CU / #12-#10 AL
25	B-PROV	-	125	20	65KAIC	TM	STD	1	-	NO	N/N	-	(1)#14-#10 CU / #12-#10 AL
26	B-PROV	-	125	20	65KAIC	TM	STD	1	-	NO	N/N	-	(1)#14-#10 CU / #12-#10 AL
27	B-PROV	-	125	20	65KAIC	TM	STD	1	-	NO	N/N	-	(1)#14-#10 CU / #12-#10 AL
28	B-PROV	-	125	20	65KAIC	TM	STD	1	-	NO	N/N	-	(1)#14-#10 CU / #12-#10 AL
29	B-PROV	-	-	-	-	-	-	-	-	-	-	-	-
30	B-PROV	-	-	-	-	-	-	-	-	-	-	-	-
31	B-PROV	-	-	-	-	-	-	-	-	-	-	-	-
32	B-PROV	-	-	-	-	-	-	-	-	-	-	-	-
33	B-PROV	-	-	-	-	-	-	-	-	-	-	-	-
34	B-PROV	-	-	-	-	-	-	-	-	-	-	-	-
35	B-PROV	-	-	-	-	-	-	-	-	-	-	-	-
36	B-PROV	-	-	-	-	-	-	-	-	-	-	-	-
37	B-PROV	-	-	-	-	-	-	-	-	-	-	-	-
38	B-PROV	-	-	-	-	-	-	-	-	-	-	-	-
39	-	-	-	-	-	-	-	-	-	-	-	-	(1)#6-350KMIL

JOB			
MARATHON-LK MAY RESERVE -			
P.O.	-	CUST.	CONSOLIDATED ELECTRICALDISTRIBUTORS INC
CONTR	CONSOLIDATED ELECTRICAL DISTRIBUTORS INC	CONSLT	
TIE	-	BY	gausmx01c
S.O.	1001229011	ENG. LOC.	BATHROOM
		DATE	3-20-2023
		DWG. NO.	1001229011-21000-6
Siemens Industry, Inc.		APP.	MFG. LOC.
Norcross, Georgia		APP.	DWG. FILE
			REV. 1
SHEET 6 OF 6			

Total Surge Solution

Commercial and Industrial Surge Protective Devices

Zeus Series



D200 Series
Service Entrance



D100 Series
Distribution Panel



D50 Series
Branch Panel/
Disconnect

DITEK's ZEUS Series industrial surge protective devices are designed to provide transient surge protection for electrical systems in the most demanding environments. Each model incorporates the latest in surge protection technology for maximum performance and protection. Available in a wide range of voltage configurations, ZEUS products are an excellent choice for electrical system surge protection.

Proudly designed and manufactured in the USA!

CCTV ▼ POWER ▼ INTRUSION ▼ FIRE ▼ ACCESS ▼ VOICE/DATA
CCTV ▼ POWER ▼ INTRUSION ▼ FIRE ▼ ACCESS ▼ VOICE/DATA
CCTV ▼ POWER ▼ INTRUSION ▼ FIRE ▼ ACCESS ▼ VOICE/DATA
CCTV ▼ POWER ▼ INTRUSION ▼ FIRE ▼ ACCESS ▼ VOICE/DATA
CCTV ▼ POWER ▼ INTRUSION ▼ FIRE ▼ ACCESS ▼ VOICE/DATA



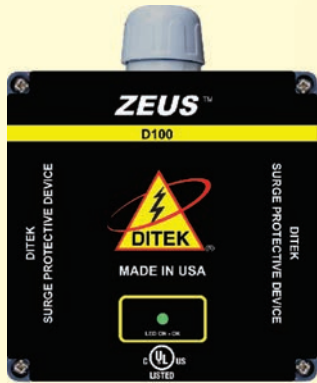
Total Surge Solution



D200 SERIES - 200kA/Phase, 100kA/Mode, Type 1 SPD (Type 2 Canada)

The D200 Series of products offer LED Diagnostics to indicate system power and SPD function, audible alarm with disable switch, and dry contacts. The NEMA-4X enclosure makes them ideal for harsh environments. All D200 models are UL1449 3rd Edition Listed, and comply with ANSI/IEEE C62.41 and C62.45 Category B and C3 standards.

D200-120/2401	120/240 VAC, Split-Phase, 3 Wire + Ground
D200-120/2083Y	120/208 VAC, 3-Phase Wye, 4 Wire + Ground
D200-120/240HL	120/240 VAC, 3-Phase Delta, High Leg
D200-277/4803Y	277/480 VAC, 3-Phase Wye, 4 Wire + Ground
D200-347-6003Y	347/600 VAC, 3-Phase Wye, 4 Wire + Ground
D200-2403D	240 VAC, 3-Phase Delta, 3 Wire + Ground
D200-4803D	480 VAC, 3-Phase Delta, 3 Wire + Ground
D200-6003D	600 VAC, 3-Phase Delta, 3 Wire + Ground



D100 SERIES - 100kA/Phase, 50kA/Mode, Type 1 SPD (Type 2 Canada)

The D100 Series of products offer LED Diagnostics to indicate system power and SPD function. The NEMA-4X enclosure makes them ideal for harsh environments. All D100 models are UL1449 3rd Edition Listed, and comply with ANSI/IEEE C62.41 and C62.45 Category B and C3 standards.

D100-120/2401	120/240 VAC, Split-Phase, 3 Wire + Ground
D100-120/2083Y	120/208 VAC, 3-Phase Wye, 4 Wire + Ground
D100-120/240HL	120/240 VAC, 3-Phase Delta, High Leg
D100-277/4803Y	277/480 VAC, 3-Phase Wye, 4 Wire + Ground
D100-2403D	240 VAC, 3-Phase Delta, 3 Wire + Ground
D100-4803D	480 VAC, 3-Phase Delta, 3 Wire + Ground
D100-6003D	600 VAC, 3-Phase Delta, 3 Wire + Ground



D50 SERIES - 50kA/Phase, 25kA/Mode, Type 1 SPD (Type 2 Canada)

The D50 Series of products offer LED Diagnostics to indicate system power and SPD function. The NEMA-4X enclosure makes them ideal for harsh environments. All D50 models are UL1449 3rd Edition Listed, and comply with ANSI/IEEE C62.41 and C62.45 Category B and C3 standards.

D50-120/2401	120/240 VAC, Split-Phase, 3 Wire + Ground
D50-120/2083Y	120/208 VAC, 3-Phase Wye, 4 Wire + Ground
D50-120/240HL	120/240 VAC, 3-Phase Delta, High Leg
D50-277/4803Y	277/480 VAC, 3-Phase Wye, 4 Wire + Ground
D50-347-6003Y	347/600 VAC, 3-Phase Wye, 4 Wire + Ground
D50-2401	240VAC 1-Phase, 2 Wire + Ground
D50-2403D	240 VAC, 3-Phase Delta, 3 Wire + Ground
D50-4803D	480 VAC, 3-Phase Delta, 3 Wire + Ground

Please contact factory for International voltage configurations

DITEK Corporation



DITEK Corporation continues to lead the industry in the design and manufacture of low-voltage surge protection devices and systems—offering unparalleled protection for commercial, industrial and residential applications, including: CCTV/Surveillance Systems, Fire and Intrusion Alarm, Electrical Power, Access Control, and Voice and Data applications.

At DITEK's ISO 9001 certified manufacturing facility in Largo, FL, a highly-trained and culturally diverse workforce utilizes state-of-the-art equipment and lean manufacturing methodologies. DITEK's Technical Support Team is available 24/7 to answer application or installation questions by phone or Internet live chat. Live and web-based product training, CEU courses and collateral materials are readily available through DITEK's Marketing Services Group.



Technical Support: 1-888-472-6100
1-800-753-2345
 DITEKCORP.com

One DITEK Center
 1720 Starkey Road
 Largo, FL 33771



Document: SMS-100028-001 (920-010) Rev. 4 09/13

Total Surge Solution

Commercial and Industrial Surge Protective Devices

Zeus Series



D200 Series
Service Entrance



D100 Series
Distribution Panel



D50 Series
Branch Panel/
Disconnect

DITEK's ZEUS Series industrial surge protective devices are designed to provide transient surge protection for electrical systems in the most demanding environments. Each model incorporates the latest in surge protection technology for maximum performance and protection. Available in a wide range of voltage configurations, ZEUS products are an excellent choice for electrical system surge protection.

Proudly designed and manufactured in the USA!

CCTV ▼ POWER ▼ INTRUSION ▼ FIRE ▼ ACCESS ▼ VOICE/DATA
CCTV ▼ POWER ▼ INTRUSION ▼ FIRE ▼ ACCESS ▼ VOICE/DATA
CCTV ▼ POWER ▼ INTRUSION ▼ FIRE ▼ ACCESS ▼ VOICE/DATA
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CCTV ▼ POWER ▼ INTRUSION ▼ FIRE ▼ ACCESS ▼ VOICE/DATA



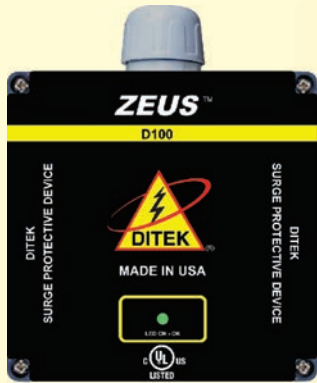
Total Surge Solution



D200 SERIES - 200kA/Phase, 100kA/Mode, Type 1 SPD (Type 2 Canada)

The D200 Series of products offer LED Diagnostics to indicate system power and SPD function, audible alarm with disable switch, and dry contacts. The NEMA-4X enclosure makes them ideal for harsh environments. All D200 models are UL1449 3rd Edition Listed, and comply with ANSI/IEEE C62.41 and C62.45 Category B and C3 standards.

D200-120/2401	120/240 VAC, Split-Phase, 3 Wire + Ground
D200-120/2083Y	120/208 VAC, 3-Phase Wye, 4 Wire + Ground
D200-120/240HL	120/240 VAC, 3-Phase Delta, High Leg
D200-277/4803Y	277/480 VAC, 3-Phase Wye, 4 Wire + Ground
D200-347-6003Y	347/600 VAC, 3-Phase Wye, 4 Wire + Ground
D200-2403D	240 VAC, 3-Phase Delta, 3 Wire + Ground
D200-4803D	480 VAC, 3-Phase Delta, 3 Wire + Ground
D200-6003D	600 VAC, 3-Phase Delta, 3 Wire + Ground



D100 SERIES - 100kA/Phase, 50kA/Mode, Type 1 SPD (Type 2 Canada)

The D100 Series of products offer LED Diagnostics to indicate system power and SPD function. The NEMA-4X enclosure makes them ideal for harsh environments. All D100 models are UL1449 3rd Edition Listed, and comply with ANSI/IEEE C62.41 and C62.45 Category B and C3 standards.

D100-120/2401	120/240 VAC, Split-Phase, 3 Wire + Ground
D100-120/2083Y	120/208 VAC, 3-Phase Wye, 4 Wire + Ground
D100-120/240HL	120/240 VAC, 3-Phase Delta, High Leg
D100-277/4803Y	277/480 VAC, 3-Phase Wye, 4 Wire + Ground
D100-2403D	240 VAC, 3-Phase Delta, 3 Wire + Ground
D100-4803D	480 VAC, 3-Phase Delta, 3 Wire + Ground
D100-6003D	600 VAC, 3-Phase Delta, 3 Wire + Ground



D50 SERIES - 50kA/Phase, 25kA/Mode, Type 1 SPD (Type 2 Canada)

The D50 Series of products offer LED Diagnostics to indicate system power and SPD function. The NEMA-4X enclosure makes them ideal for harsh environments. All D50 models are UL1449 3rd Edition Listed, and comply with ANSI/IEEE C62.41 and C62.45 Category B and C3 standards.

D50-120/2401	120/240 VAC, Split-Phase, 3 Wire + Ground
D50-120/2083Y	120/208 VAC, 3-Phase Wye, 4 Wire + Ground
D50-120/240HL	120/240 VAC, 3-Phase Delta, High Leg
D50-277/4803Y	277/480 VAC, 3-Phase Wye, 4 Wire + Ground
D50-347-6003Y	347/600 VAC, 3-Phase Wye, 4 Wire + Ground
D50-2401	240VAC 1-Phase, 2 Wire + Ground
D50-2403D	240 VAC, 3-Phase Delta, 3 Wire + Ground
D50-4803D	480 VAC, 3-Phase Delta, 3 Wire + Ground

Please contact factory for International voltage configurations

DITEK Corporation



DITEK Corporation continues to lead the industry in the design and manufacture of low-voltage surge protection devices and systems—offering unparalleled protection for commercial, industrial and residential applications, including: CCTV/Surveillance Systems, Fire and Intrusion Alarm, Electrical Power, Access Control, and Voice and Data applications.

At DITEK's ISO 9001 certified manufacturing facility in Largo, FL, a highly-trained and culturally diverse workforce utilizes state-of-the-art equipment and lean manufacturing methodologies. DITEK's Technical Support Team is available 24/7 to answer application or installation questions by phone or Internet live chat. Live and web-based product training, CEU courses and collateral materials are readily available through DITEK's Marketing Services Group.



Technical Support: 1-888-472-6100
1-800-753-2345
 DITEKCORP.com

One DITEK Center
 1720 Starkey Road
 Largo, FL 33771



Document: SMS-100028-001 (920-010) Rev. 4 09/13

N09

CHRISTY®

COVER

Style:	Flush
Material:	Composite with UV Inhibitor
Model:	10" x 15"
Weight:	20 lbs
Options:	Bolt Down Kit Special Markings
Surface:	Skid Resistant & Marked*
Coefficient of Friction:	>0.6 ASTM 1028
Performance:	ASTM C 857, WUC 3.6

Cover comes standard with permanent markings for manufacturer, load rating, model size and manufacturing location.

BODY

Material:	Reinforced Concrete with Composite Cap
Model:	20" x 15"
Weight:	12" Depth: 90 lbs
Wall Type:	Straight
Mouseholes:	0 - 2
Performance:	ASTM C 857, WUC 3.6

EXTENSION

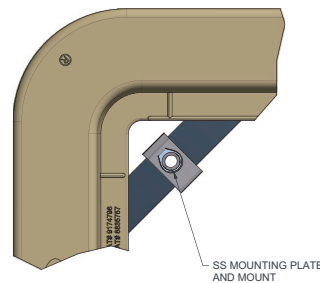
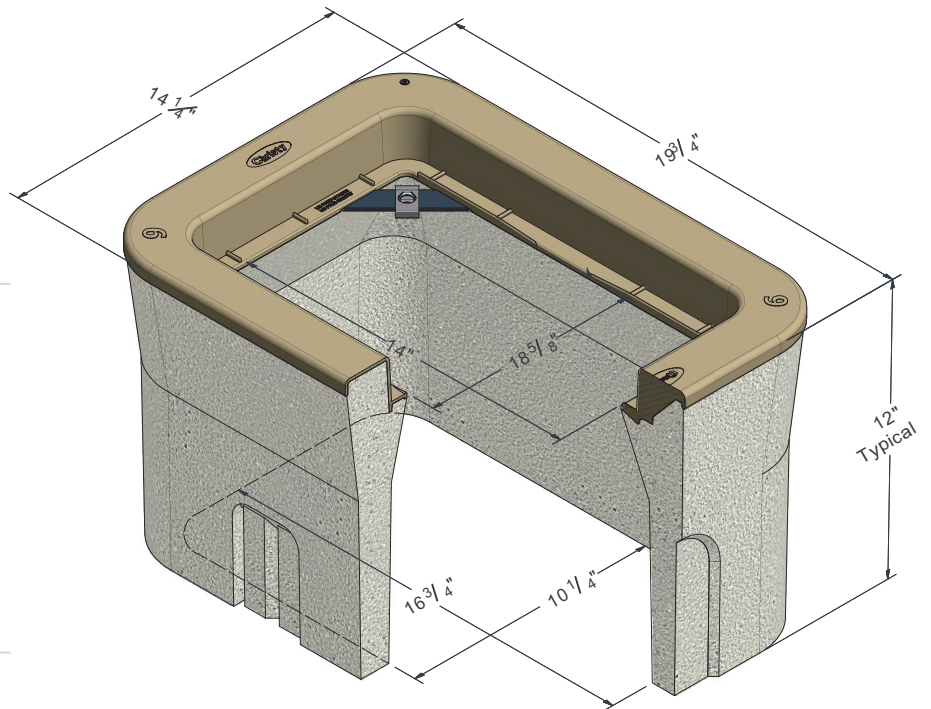
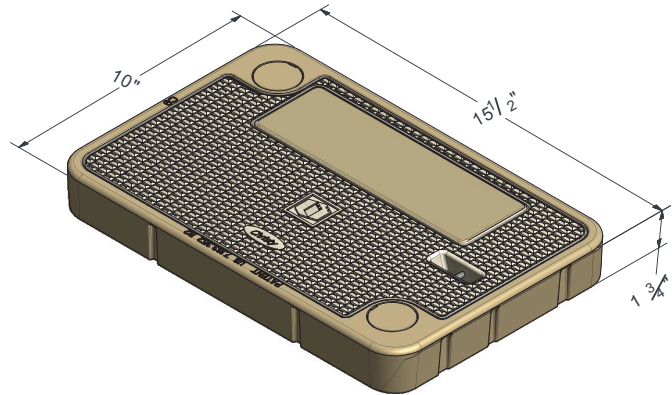
Material:	Reinforced Concrete
Depth:	12"
Weight:	87 lbs

LOAD RATING / NOTES



LIGHT DUTY
PEDESTRIAN / GREENBELT

For use in non-vehicular traffic situations only. Weights and dimensions may vary slightly. Actual load rating is determined by the box and cover combination.



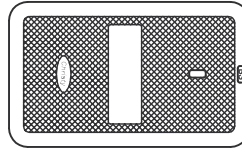
Bolt Down Detail

N09

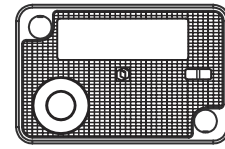
CHRISTY®

COVER OPTIONS

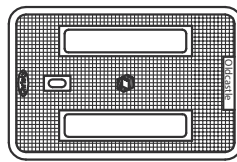
R-Series, Flush Solid
Concrete, Flush Solid
Concrete, Slab
Cast Iron, Flush Solid
Steel Checker Plate, Solid



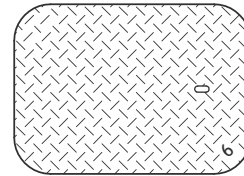
Concrete
Flush



R-Series
Flush



Cast Iron
Flush



Steel Checker
Plate

COVER OPTIONS

Bolt Down Locking (R-Series Covers)
Universal TL Key Locking (Cast Iron Covers)
Galvanizing (Steel Covers)
EMS Marker

WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov

All information contained on this sheet is current at the time of publication.
Oldcastle reserves the right to discontinue or update product information without notice.

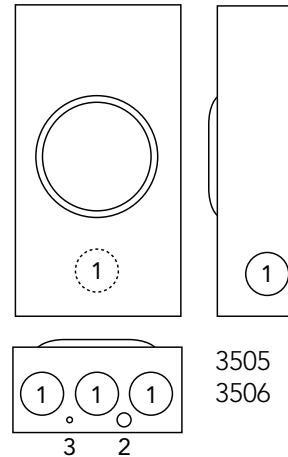
Revision 12/06/18
© 2018 Oldcastle Infrastructure

Single Position Lever Bypass

125 Amp | 5 & 7 Terminal | Ringless | 600 VAC



U3505-XL-TG-HSP



125 Amp | Ringless | Lever Bypass | Single Position | 1Ø3W

Catalog Number	Material	Terminal	Service	Hub	Connectors CU/AL		Bypass	Dimensions			Knockouts		
					Line	Load		D"	W"	H"	1	2	3
U3505-XL-TG-HSP	Steel	5	OH/UG	C.P.	#6-2/0	#6-2/0	Lever	4 ⁷ / ₈	10	18 ¹ / ₂	2	1/4, 1/2	1/4
UAP3505-XL-TG-HSP	Aluminum	5	OH/UG	C.P.	#6-2/0	#6-2/0	Lever	4 ⁷ / ₈	10	18 ¹ / ₂	2	1/4, 1/2	1/4

125 Amp | Ringless | Lever Bypass | Single Position | 3Ø4W

Catalog Number	Material	Terminal	Service	Hub	Connectors CU/AL		Bypass	Dimensions			Knockouts		
					Line	Load		D"	W"	H"	1	2	3
U3506-XL-TG-HSP	Steel	7	OH/UG	C.P.	#6-2/0	#6-2/0	Lever	4 ⁷ / ₈	10	18 ¹ / ₂	2	1/4, 1/2	1/4
UAP3506-XL-TG-HSP	Aluminum	7	OH/UG	C.P.	#6-2/0	#6-2/0	Lever	4 ⁷ / ₈	10	18 ¹ / ₂	2	1/4, 1/2	1/4

Notes

- **Hubs:** For proper hub selection, see the hub suffix chart on the accessories page.
- **Lever Bypass:** The lever supplies clamping action and operates bypass device.
- **Connectors:** Extruded aluminum connectors are tin plated.



Utility requirements for this equipment may vary. Always consult the serving utility for their requirements prior to ordering or installing this equipment. This product must be installed by a licensed electrician. Installation of this equipment may require local electrical inspector approval.

Extra-Duty Plastic In-Use Weatherproof Covers

Single and Double-Gang Models

Plastic In-Use Weatherproof Covers are extra-duty rated and easy to install. Covers come with an adhered gasket, mounting screws, base, cover assembly, and inserts to meet the needs of a variety of applications.

Applications

- Industrial • Commercial • Manufacturing • Residential
- Agricultural • Signage • Athletic fields

Features

- Complies with 2014 NEC Article 406.9 (B)(1) for wet locations and extra-duty applications
- Exceeds CEC Article 26-702
- UL Certified for Type 3R outdoor enclosures
- Meets requirements for cold impact testing: -60° F (-51° C)
- Heavy-duty UV stabilized polycarbonate cover, mounting base, and inserts
- 1/8" (3 mm) thick, pre-adhered neoprene gasket with slits for mounting screws
- Lockable hasp: All models accept up to 1/4" (6 mm) dia shank
- Impact rated: 12-lb. impact test to ensure cover remains intact
- Reinforced hinge pin designed to exceed 40 lb. hinge hang/stress test
- Warranty: 1-year limited

Single-Gang Models

- Three inserts provided with all models that allow each model to meet multiple installations (up to 16 configurations)
- Max cord size: (2) #14 AWG or (1) #12 AWG

Double-Gang Models

- Six inserts provided with all models that allow each model to meet multiple installations (up to 70 configurations)
- Max cord size: (2) #12 AWG or (1) #10 AWG; 30/50 A (1) #6 AWG



WP5000G



WP5500C



WP5103C

Single-Gang - Vertical/Horizontal

Clear/Gray	Gray	Black	Yellow	Orange	White	Green	Beige	Bronze	Red	Depth	Flexi-Guard Inserts
WP5000C	WP5000G	WP5000BL	WP5000Y	WP5000OR	WP5000W	WP5000GN	WP5000B	WP5000BR	WP5000R	2 1/4" (57 mm)	WP17
WP5100C	WP5100G	WP5100BL	WP5100Y	WP5100OR	WP5100W	WP5100GN	WP5100B	WP5100BR	WP5100R	2 3/4" (70 mm)	WP17
WP5103C*	-	-	-	-	-	-	-	-	-	2 3/4" (70 mm)	WP17
WP5110C	WP5110G	WP5110BL	WP5110Y	WP5110OR	WP5110W	WP5110GN	WP5110B	WP5110BR	WP5110R	3 5/8" (92 mm)	WP17

Double-Gang - Vertical

Clear/Gray	Gray	Black	Yellow	Orange	White	Green	Beige	Bronze	Red	Depth	Flexi-Guard Inserts
WP5220C	WP5220G	WP5220BL	WP5220Y	WP5220OR	WP5220W	WP5220GN	WP5220B	WP5220BR	WP5220R	2 1/4" (57 mm)	WP217
WP5221C	-	-	-	-	-	-	-	-	-	2 1/4" (57 mm)	WP101, WP102
WP5225C	WP5225G	WP5225BL	WP5225Y	WP5225OR	WP5225W	WP5225GN	WP5225B	WP5225BR	WP5225R	2 3/4" (70 mm)	WP217
WP5240C	WP5240G	WP5240BL	WP5240Y	WP5240OR	WP5240W	WP5240GN	WP5240B	WP5240BR	WP5240R	3 5/8" (92 mm)	WP217
WP5500C	WP5500G	-	WP5500Y	-	-	-	-	-	-	30/50 A**	WP107, WP213

* Includes 3/0 adapter plate for 3" (76 mm) round box. **30/50 A = 4 3/4" (121 mm) depth.

Accessories (detailed on pg 122)

Single-Gang Inserts	WP17
Double-Gang Inserts	WP217
Hinge Pin	WP10HP

WEATHERPROOF BOXES & COVERS

Cast Weatherproof Boxes & Covers

CA8GH and WPB23

Cast Weatherproof Boxes and Covers

- A. Stainless steel springs.**
- B. Baked-on electrostatic, polyester, powder paint,** for superior scratch- and corrosion-resistant finish.
- C. Heavy die-cast aluminum.**
- D. Available in 1/2" and 3/4" hub sizes,** from 3 to 6 hole configurations.

Product assembled after painting for complete corrosion resistance.

Covers available in 1 & 2 gang in a variety of configurations.

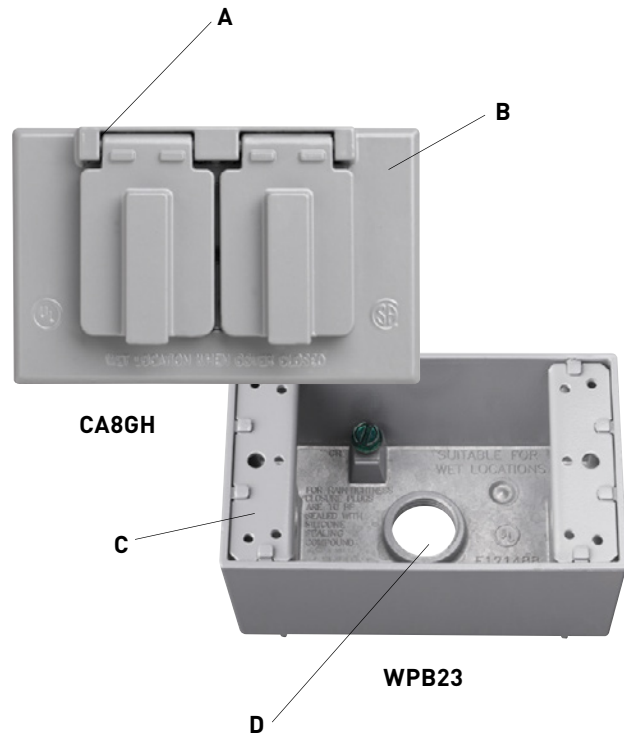
No rough edges.

Available in gray, white and bronze.

Available in standard and deep configurations.

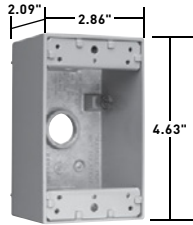
UL Listed, for wet and/or damp locations with appropriate cover.

Boxes available in 1, 2 & 3 gang.



WEATHERPROOF BOXES & COVERS

Weatherproof Boxes



Single Gang Box

Features

- Wide range of sizes, depths, and gangs.
- Baked-on electrostatic, polyester, powder paint for superior scratch and corrosion resistance.
- 2 closure plugs and mounting lugs furnished with all boxes.
- UL Listed for wet and/or damp locations with appropriate cover.
- Designed for both interior and exterior applications.
- Will accept standard 4 screw mounting covers and single gang weatherproof covers.
- Simply strike desired knockout studs with a sharp hammer blow for clean mounting holes.
- Heavy die-cast aluminum.

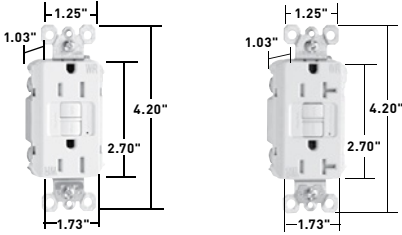
CATALOG NUMBER	DESCRIPTION	COLOR	3RD PARTY COMPLIANCE	
			UL	SF
SINGLE GANG BOXES				
WPB23 WPB23W	 3 Hole 1/2", 18.5 Cu. In. (1 Hole Each End, 1 Hole in Back)	Gray White	•	•
WPB33 WPB33W	 3 Hole 3/4", 18.5 Cu. In. (1 Hole Each End, 1 Hole in Back)	Gray White	•	•
WPB24 WPB24W	 4 Hole 1/2", 18.0 Cu. In. (2 Holes One End, 1 Hole Other End, 1 Hole in Back)	Gray White	•	•
WPB34 WPB34W	 4 Hole 3/4", 18.0 Cu. In. (2 Holes One End, 1 Hole Other End, 1 Hole in Back)	Gray White	•	•
WPB25 WPB25W	 5 Hole 1/2", 17.0 Cu. In. (2 Holes Each End, 1 Hole in Back)	Gray White	•	•
WPB35	 5 Hole 3/4", 17.0 Cu. In. (2 Holes Each End, 1 Hole in Back)	Gray	•	•
WPB26 WPB26W	 5 Hole 1/2", 17.0 Cu. In. (1 Hole Each End, 1 Hole Each Side, 1 Hole in Back)	Gray White	•	•
WPB36	 5 Hole 3/4", 16.8 Cu. In. (1 Hole Each End, 1 Hole Each Side, 1 Hole in Back)	Gray	•	•

CATALOG NUMBER	DESCRIPTION
WEATHERPROOF LOCKING INLET KIT FOR GENERATOR APPLICATIONS	
L1430FIKIT	Kit includes 30A Locking Gray Flanged Inlet L1430FI, Weatherproof Cover WPG2, and Weatherproof Box WPB23 with 1/2" knockout holes.

GFCIs

Weather-Resistant Self-Test GFCI Receptacles with SafeLock™ Protection

2 Pole, 3 Wire Grounding 15 & 20A, 125VAC



1597TRWRW

2097TRWRW

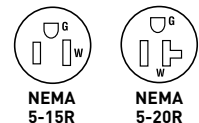
Features

- Weather-Resistant: Meets National Electrical Code® Weather-Resistant requirements.
- Tamper-Resistant: Meets National Electrical Code® Tamper-Resistant requirements.
- Protects children: patented shutter system helps prevent improper insertion of foreign objects.
- Listed to the Weather-Resistant supplement of UL498 meeting demanding UL requirements including:
 - Ultraviolet light exposure test
 - Cold impact test
 - Accelerated aging test
 - Stringent material requirements for current carrying parts, wire binding screws and mounting straps to ensure superior corrosion resistance.
- Conducts an automatic test every three seconds, ensuring it's always ready to protect. If the device fails the test, the indicator light flashes to signal that the GFCI should be replaced. It also has our proven SafeLock Protection feature: if critical components are damaged and protection is lost, power to the receptacle is disconnected.
- Thinner than competitors' GFCI Receptacles: leaves more room for wires in the box.
- Auto-Ground clip assures a positive ground to metal box.
- Meets 2015 UL requirements.
- Feed-thru wiring configuration allows GFCI to protect downstream receptacles.
- Prevents line-load reversal miswire: no power to the face or downstream receptacles if wired incorrectly.
- Exceeds UL943 voltage surge requirements; survives 100x the required UL 3kA/6kV voltage surge test cycles.
- FSUL Listed (Federal Specification WC596).
- Trip indicator light (red LED)
- Side or internal screw-pressure-plate back wire with #10 – #14 AWG solid or stranded copper wire.
- Two back wire holes per terminal.
- Ground screw has a back wire clamp for easy installation.
- 10kA short circuit rating.
- Mounting screws are shipped captive in the device and wall plate for easier installation.
- High-impact-resistant thermoplastic construction.
- Extra-long nickel post-plated steel mounting strap.
- Button colors match the device face.
- Dual-direction test and reset buttons.
- Class A rated GFCI.
- Supplied with matching TP26 nylon wall plate.
- Tri-drive screws.

Specifications

- Supply Voltage: 125VAC, 60 Hz
- Supply Voltage Range: 102-132 VAC
- Trio Threshold: 5± 1mA
- Trip Time: 0.025 sec., nominal per UL Standard
- 20 Amp feed-thru capacity

CATALOG NUMBER	RATING		COLOR	NEMA CONFIG. NO.	3rd PARTY COMPLIANCE		
	A.	VAC			UL943 C22.2 No. 144	UL498 C22.2 No. 42	FSUL WC596
TRADEMASTER®/SPEC GRADE WEATHER-RESISTANT 15 AMP DUPLEX GFCI							
1597TRWRI	15	125	Ivory	5-15R	•	•	•
1597TRWRW	15	125	White	5-15R	•	•	•
1597TRWR	15	125	Brown	5-15R	•	•	•
1597TRWRGRY	15	125	Gray	5-15R	•	•	•
1597TRWRBK	15	125	Black	5-15R	•	•	•
1597TRWRLA	15	125	Light Almond	5-15R	•	•	•
SPECIFICATION GRADE WEATHER-RESISTANT 20 AMP DUPLEX GFCI							
2097TRWRI	20	125	Ivory	5-20R	•	•	•
2097TRWRW	20	125	White	5-20R	•	•	•
2097TRWR	20	125	Brown	5-20R	•	•	•
2097TRWRGRY	20	125	Gray	5-20R	•	•	•
2097TRWRBK	20	125	Black	5-20R	•	•	•
2097TRWRLA	20	125	Light Almond	5-20R	•	•	•



National Electrical Code® Section 406.8 Receptacles in Wet or Damp Locations.

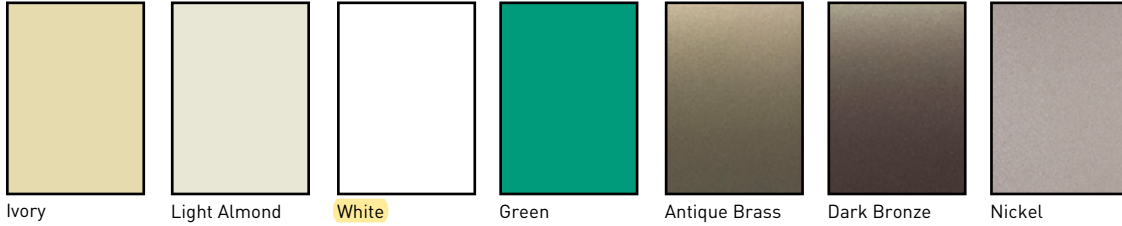
Requires that all 15- and 20-amp, 125- and 250-volt non-locking receptacles installed in wet or damp locations shall be weather-resistant receptacles.

All devices listed on this page conform to NEMA WD-1 and WD-6.

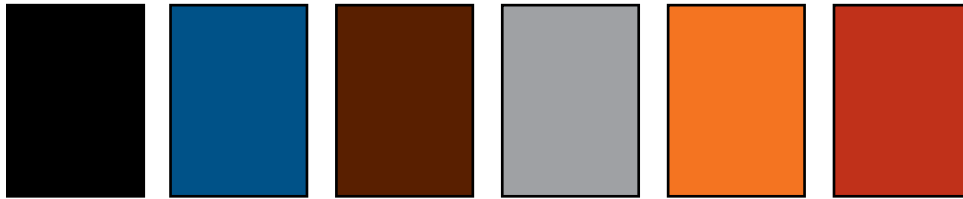
DEVICES & WALL PLATES

Color Selection Chart

Devices & Plastic Wall Plate Colors



Ivory Light Almond **White** Green Antique Brass Dark Bronze Nickel

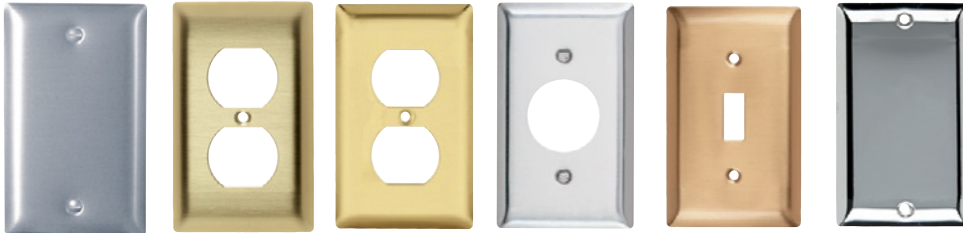


Black Blue Brown Gray Orange Red

See specific device and wall plate catalog charts for particular color availabilities.

Metal Wall Plates

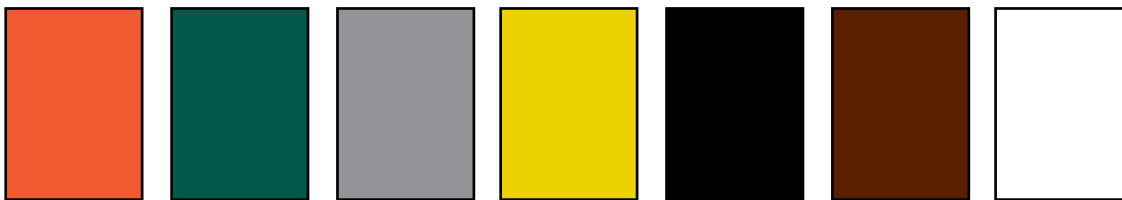
Metal Finish



Aluminum Brass (Brushed) Polished Brass Stainless Steel Brushed Bronze Chrome

Custom Metal Wall Plates Paint Finish Colors

Paint Color



Orange Green Gray Yellow Glossy Black Brown White



Primer Red Pink Flat Black Ivory Light Almond Blue

To order custom metal wall plates, see Pages P-40 – P-42.
For additional colors consult factory.