North Stonington School Modernization 297/298/311 Norwich-Westerly Road North Stonington, CT 06359 DCC Job #: 25-01-0345	DOWNES CONSTRUCTION COMPANY Date: 06/26/18
Architect: QA&M Architecture MEP Engineer: RZ Design Associates, Inc. Structural Engineer: Perrone & Zajda Engineers, LLC Civil Engineer: CLA Engineers, Inc.	Subcontractor/ Vendor: Banton Construction Company
Landscape Architect: TO Design, LLC Food Service Consultant: Crabtree McGrath Associates, Inc. Downes Construction Company, LLC P.O. Box 727	Submittal Description:
200 Stanley Street	Panelboards_
New Britain, CT 06050	Product Data, Shop Drawings & Manufacturer's Instructions
Attn: Travis Burton Construction Manager's Stamp Area:	<u>262416-001.2</u>
Construction manager 5 Stamp Area.	
SUBMITTAL REVIEW DOWNES CONSTRUCTION COMPANY, LLC	Page: 495 Paragraph:
X REVIEWED FOR SUBMISSION REJECTED TO ARCHITECT / ENGINEER	First Submission: Resubmission #: 2
DOWNES CONSTRUCTION COMPANY'S REVIEW IS FOR GENERAL CONFORMANCE WITH THE CONTRACT	Submitted as Specified: x Submitted as Substitution (As equal):
DOCUMENTS, MARKINGS AND/OR COMMENTS SHALL NOT BE CONSTRUED AS RELIEVING THE TRADE CONTRACTOR FROM COMPLIANCE WITH THE CONTRACT DOCUMENTS.	Elementary School: Provide submittal for High School/Middle School: X Board of Education: EACH SCHOOL
BY:         TB         DATE         6/26/2018           SPECS         262416         SUBMITTAL         001	Comments:
CONTRACT REVIEW	
DWG. NO.: 000 NUMBER: 02	CONTRACTOR HAS DETERMINED AND VERIFIED MATERIALS, FIELD MEASUREMENTS AND FIELD CRITERIA AND HAS CHECKED AND COORDINATED THE INFORMATION CONTAINED IN THIS SUBMITTAL WITH THE REQUIREMENTS OF THE WORK AND OF THE CONTRACT DOCUMENTS AND RECOMMENDS APPROVAL BY THE CONSTRUCTION MANAGER / ARCHITECT / ENGINEER.
Architect's Stamp Area:	Engineer's Stamp Area (As Required):
VERIFY BREAKER QUANTITIES WITH LATEST SCHEDULES SEE RESPONSES ON COMMENTS SHEET NO NEED TO RE-SUBMIT	SHOP DRAWING REVIEW REVIEW IS FOR GENERAL COMPLIANCE WITH CONTRACT DOCUMENTS NO RESPONSIBILITY IS ASSUMED FOR CORRECTNESS OF DIMENSIONS OR DETAILS
No Exception Taken X Make Corrections Noted	X MAKE CORRECTIONS NOTED AMEND AND RESUBMIT REJECTED – SEE REMARKS
Rejected     Revise and Resubmit       Reviewed     Provide Record Copy	<b>RZ Design Associates, Inc.</b>
Review is only for GENERAL COMPLIANCE with design and information given in contract documents. Any action shown is subject to the requirements of the PLANS and SPECIFICATIONS. Submitting contractor is responsible for, dimensions which shall be verified in the field fabrication processes, techniques of construction, coordination with other trades and satisfactory complotions of his work in a safe manner.	DATE6/29/18BYBJZ
Received Stamp Area:         QUISENBERRY ARCARI MALIK, LLC         DATE:       06-29-18         BY:	RECEIVED 06-29-18 Quisenberry Arcari Architects, LLC



Yale Electric Supply 55 Shawmut Road Canton, MA 02021



WILL NOT RELY

# SUBMITTAL/DRAWING REVIEW COMMENT RESPONSES

- Date: Tuesday, June 26, 2018
- Project: North Stonington HS/MS
- Equipment: Panelboards

# RESPONSE(S):

- On page 1 of the returned submittal there is a comment that HVB-1 and LVB-1 be 80" high max. I did not change these because 90" high panels are required. To get these down to a 72" box would require we delete (6) 1 pole breakers from HVB-1 and (8) 1 pole breakers from LVB-1.
   All panels were changed to Aluminum bus per the comment on page 15 of returned submittal.
   We meet the requirements listed on page 15 of the returned submittal for front trims, NEMA PB-1 & THIS SUBMISSION MUST PROVIDE ALL DATA
   UL 67 and UL 50 enclosures. Refer to page 53 of the original submittal for standards and certifications. REQUIRED. WE
  - UPON PREVIOUS

     UPON PREVIOUS

     SUBMISSIONS

     panel can only be provided as 42 poles. Panel can be provided as 30 CKT if you remove (7) spare single

 HV2-1 – added (1) more FD1020 to make 60 Circuits. Panel is sufficiently rated at 18Kaic per SCC & Arc Flash Studies OK

OK but no LV!-2 is not scheduled on drawing E6.2. verify you are using latest drawings.

- LV1-2 (3) Panel Schedules showing 60 Circuits shown on drawings. (1) Shown on drawing E6.2 & (2) shown on E6.3. I removed (60) BAB1020's from my 180 three tub panel to provide double tub panel
- HVB-1 HFD3225, HFD3200, & HFD3175 are only available single/center mounted breakers, due to this the panel is provided with 54 poles. OK
- SBHV1-1 Please see cut sheet that goes along with the panel. It is provided as noted on returned submittals OK
- HVDP1-1 Due to the style of panel and the 600A center mounted breaker the panel has to be provided as a 48 Circuit panel OK
- SBLV1-1 Due to the style of panel 2 different styles of chassis have to be provided. Panel is provided with 36 poles. (2) BAB1020's can be removed to provide a 30-circuit panel. Please advise. OK
- FPBSBLV1-1 Panel revised to 30ckts OK
- LVDP-1 Panel provided as 66 circuit due to 2 separate chassis if we can remove 7 QBHW1020's we can get the panel to a 42 circuit panel

Make panel 42-circuit.

North Stonington School Modernization	
297/298/311 Norwich-Westerly Road	DOWNES CONSTRUCTION COMPAN
North Stonington, CT 06359	
DCC Job #: 25-01-0345 Architect: QA&M Architecture	Date: 5/25/18
MEP Engineer: RZ Design Associates, Inc. Structural Engineer: Perrone & Zajda Engineers, LLC Civil Engineer: CLA Engineers, Inc.	Subcontractor/ Vendor: Banton Construction Company
Landscape Architect: TO Design, LLC Food Service Consultant: Crabtree McGrath Associates, Inc. Downes Construction Company, LLC	Submittal Description: PANELBOARDS
P.O. Box 727	PRODUCT DATA
200 Stanley Street New Britain, CT 06050	
Attn: Travis Burton	
Construction Manager's Stamp Area:	Spec. Section: <u>262416-001-002-A</u>
SUBMITTAL REVIEW	Page: 495 Paragraph:
DOWNES CONSTRUCTION COMPANY, LLC	
X REVIEWED FOR SUBMISSION REJECTED TO ARCHITECT / ENGINEER	First Submission: Resubmission #: 1
DOWNES CONSTRUCTION COMPANY'S REVIEW IS FOR GENERAL CONFORMANCE WITH THE CONTRACT DOCUMENTS. MARKINGS AND/OR COMMENTS SHALL NOT	Submitted as Specified: Submitted as Substitution (As equal):
BE CONSTRUED AS RELIEVING THE TRADE CONTRACTOR FROM COMPLIANCE WITH THE CONTRACT DOCUMENTS.	Elementary School: High School/Middle School: X Board of Education:
BY: TB DATE 5/25/2018 SPECS 262416 SURMITTAL 001	Comments:
CONTRACT REVIEW 1	
	CONTRACTOR HAS DETERMINED AND VERIFIED MATERIALS, FIELD MEASUREMENTS AND FIELD CRITERIA AND HAS CHECKED AND COORDINATED THE INFORMATION CONTAINED IN THIS SUBMITTAL WITH THE REQUIREMENTS OF THE WORK AND OF THE CONTRACT DOCUMENTS AND RECOMMENDS APPROVAL BY THE CONSTRUCTION MANAGER / ARCHITECT / ENGINEER.
Architect's Stamp Area:	Engineer's Stamp Area (As Required):
Coordinate branch breaker quantities and sizes with panel schedules on drawings. See comments in red on individual data sheets. Panels HVB-1 and LVB-1 to be provided with 80" max high enclosure. Panel that are crossed out have not been reviewed.	SHOP DRAWING REVIEW         REVIEW IS FOR GENERAL COMPLIANCE WITH CONTRACT DOCUMENTS         NO RESPONSIBILITY IS ASSUMED FOR CORRECTNESS OF         DIMENSIONS OR DETAILS         MO EXCEPTIONS TAKEN        NO EXCEPTIONS TAKEN        NAKE CORRECTIONS NOTED         X       AMEND AND RESUBMIT        REJECTED – SEE REMARKS
	<b>RZ Design Associates, Inc.</b>
No Exception Taken  Make Corrections Noted	
Rejected Revise and Resubmit	DATE_6/5/18BY_BJZ
Reviewed D Provide Record Copy	
eview is only for GENERAL COMPLIANCE with design and	
ormation of the requirements of the PLANS and SPECIFICATIONS. bject to the requirements of the PLANS and SPECIFICATIONS. ubmitting contractor is responsible for, dimensions which shall be rified in the field fabrication processes, techniques of instruction, coordination with other trades and satisfactory mpletions of his work in a safe manner.	<b>RECEIVED</b> 06-05-18
QUISENBERRY ARCARI MALIK, LLC	Quisenberry Arcari
ATE: 06-11-18 BY:	Architects, LLC
NIC. UU TT TU BY:	



Powering Business Worldwide

# **North Stonington Schools**

# Submittal for Approval

Negotiation Number V0880216X8K1 Volume 1 of 1 Equipment: Panelboards

Date: 6/26/2018

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Supersedes Selling Policy 25-000, Pages 1-4, dated **November 1, 2008** 

#### TERMS AND CONDITIONS OF SALE

The Terms and Conditions of Sale set forth herein, and any supplements which may be attached hereto, constitute the full and final expression of the contract for the sale of products or services (hereinafter referred to as Product(s) or Services by Eaton Corporation (hereinafter referred to as Seller) to the Buyer, and supersedes all prior quotations, purchase orders, correspondence or communications whether written or oral between the Seller and the Buyer. Notwithstanding any contrary language in the Buyer's purchase order, correspondence or other form of acknowledgment, Buyer shall be bound by these Terms and Conditions of Sale when it sends a purchase order or otherwise indicates acceptance of this contract, or when it accepts delivery from Seller of the Products or Services. THE CONTRACT FOR SALE OF THE PRODUCTS OR SERVICES IS EXPRESSLY LIMITED TO THE TERMS AND CONDITIONS OF SALE STATED HEREIN. ANY ADDITIONAL OR DIFFERENT TERMS PROPOSED BY BUYER ARE REJECTED UNLESS EXPRESSLY AGREED TO IN WRITING BY SELLER. No contract shall exist except as herein provided.

### **Complete Agreement**

No amendment or modification hereto nor any statement, representation or warranty not contained herein shall be binding on the Seller unless made in writing by an authorized representative of the Seller. Prior dealings, usage of the trade or a course of performance shall not be relevant to determine the meaning of this contract even though the accepting or acquiescing party had knowledge of the nature of the performance and opportunity for objection.

#### Quotations

Written quotations are valid for 30 days from its date unless otherwise stated in the quotation or terminated sooner by notice.

Verbal quotations, unless accepted, expire the same day they are made.

A complete signed order must be received by Seller within 20 calendar days of notification of award, otherwise the price and shipment will be subject to re-negotiation. DOMESTIC U.S.A. GENERAL TERMS AND CONDITIONS OF SALE

#### **Termination and Cancellation**

#### Products

Any order may be terminated by the Buyer only by written notice and upon payment of reasonable termination charges, including all progress billings and all incurred direct manufacturing costs.

#### Services

Any order may be terminated by the Buyer only by written notice and upon payment of reasonable termination charges including all costs plus profit.

Seller shall have the right to cancel any order at any time by written notice if Buyer breaches any of the terms hereof, becomes the subject of any proceeding under state or federal law for the relief of debtors, or otherwise becomes insolvent or bankrupt, generally does not pay its debts as they become due or makes an assignment for the benefit of creditors.

#### Prices

All prices are subject to change without notice. In the event of a price change, the effective date of the change will be the date of the new price or discount sheet, letter or telegram. All quotations made or orders accepted after the effective date will be on the new basis. For existing orders, the price of the unshipped portion of an order will be the price in effect at time of shipment.

## Price Policy – Products and Services

When prices are quoted as firm for quoted shipment, they are firm provided the following conditions are met:

- 1. The order is released with complete engineering details.
- 2. Shipment of Products are made, and Services purchased are provided within the quoted lead time.
- 3. When drawings for approval are required for any Products, the drawings applicable to those Products must be returned within 30\* calendar days from the date of the original mailing of the drawings by Seller. The return drawings must be released for manufacture and shipment and must be marked "APPROVED" or "APPROVED AS NOTED." Drawing re-submittals which are required for any other reason than to correct Seller errors will not extend the 30-day period.

# **Selling Policy**

Effective: November 1, 2017 Page 1

# Distribution and Control Products and Services 25-000

If the Buyer initiates or in any way causes delays in shipment, provision of Services or return of approval drawings beyond the periods stated above, the price of the Products or Services will be increased 1% per month or fraction thereof up to a maximum of 18 months from the date of the Buyer's order. For delays resulting in shipment or provision of Services beyond 18 months from the date of the Buyer's order, the price must be renegotiated.

## Price Policy – BLS

Refer to Price Policy 25-050.

#### **Minimum Billing**

Orders less than \$1,000 will be assessed a shipping and handling charge of **5%** of the price of the order, with a minimum charge of \$25.00 unless noted differently on Product discount sheets.

## Taxes

The price does not include any taxes. Buyer shall be responsible for the payment of all taxes applicable to, or arising from, the transaction, the Products, its sale, value or use, or any Services performed in connection therewith regardless of the person or entity actually taxed.

## **TERMS OF PAYMENT**

#### Products

Acceptance of all orders is subject to the Buyer meeting Seller's credit requirements. Terms of payment are subject to change for failure to meet such requirements. Seller reserves the right at any time to demand full or partial payment before proceeding with a contract of sale as a result of changes in the financial condition of the Buyer. Terms of Payment are either Net 30 days from the date of invoice of each shipment or carry a cash discount based on Product type. Specific payment terms for Products are outlined in the applicable Product discount schedules.

#### Services

Terms of payment are net within 30 days from date of invoice for orders amounting to less than \$50,000.00.

<sup>60</sup> days for orders through contractors to allow time for their review and approval before and after transmitting them to their customers.

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Terms of payment for orders exceeding \$50,000.00 shall be made according to the following:

- Twenty percent (20%) of order value with the purchase order payable 30 days from date of invoice.
- Eighty percent (80%) of order value in equal monthly payments over the performance period payable 30 days from date of invoice.

Except for work performed (i) under a firm fixed price basis or (ii) pursuant to terms of a previously priced existing contract between Seller and Buyer, invoices for work performed by Seller shall have added and noted on each invoice a charge of 3% (over and above the price of the work) which is related to Seller compliance with present and proposed environmental, health and safety regulations associated with prescribed requirements covering hazardous materials management and employee training, communications, personal protective equipment, documentation and record keeping associated therewith.

## **Adequate Assurances**

If, in the judgment of Seller, the financial condition of the Buyer, at any time during the period of the contract, does not justify the terms of payment specified, Seller may require full or partial payment in advance.

# **Delayed Payment**

If payments are not made in accordance with these terms, a service charge will, without prejudice to the right of Seller to immediate payment, be added in an amount equal to the lower of 1.5% per month or fraction thereof or the highest legal rate on the unpaid balance.

# Freight

Freight policy will be listed on the Product discount sheets, or at option of Seller one of the following freight terms will be quoted.

# F.O.B. - P/S - Frt./Ppd. and Invoiced

Products are sold F.O.B. point of shipment freight prepaid and invoiced to the Buyer.

# F.O.B. - P/S - Frt./Ppd. and Allowed

Products sold are delivered F.O.B. point of shipment, freight prepaid and included in the price.

# F.O.B. Destination - Frt./Ppd. and Allowed

At Buyer's option, Seller will deliver the Products F.O.B. destination freight prepaid and 2% will be added to the net price. The term "freight prepaid" means that freight charges will be prepaid to the accessible common carrier delivery point nearest the destination for shipments within the United States and Puerto Rico unless noted differently on the Product discount sheets. For any other destination, contact Seller's representative.

#### Shipment and Routing

Seller shall select the point of origin of shipment, the method of transportation, the type of carrier equipment and the routing of the shipment.

If the Buyer specifies a special method of transportation, type of carrier equipment, routing or delivery requirement, Buyer shall pay all special freight and handling charges.

When freight is included in the price, no allowance will be made in lieu of transportation if the Buyer accepts shipment at factory, warehouse or freight station or otherwise supplies its own transportation.

#### **Risk of Loss**

Risk of loss or damage to the Products shall pass to Buyer at the F.O.B. point.

#### **Concealed Damage**

Except in the event of F.O.B. destination shipments, Seller will not participate in any settlement of claims for concealed damage.

When shipment has been made on an F.O.B. destination basis, the Buyer must unpack immediately and, if damage is discovered, must:

- 1. Not move the Products from the point of examination.
- 2. Retain shipping container and packing material.
- 3. Notify the carrier in writing of any apparent damage.
- Notify Seller representative within 72 hours of delivery.
- 5. Send Seller a copy of the carrier's inspection report.

# Witness Tests/Customer Inspection

Standard factory tests may be witnessed by the Buyer at Seller's factory for an additional charge calculated at the rate of \$2,500 per day (not to exceed eight (8) hours) per Product type. Buyer may final inspect Products at the Seller's factory for \$500 per day per Product type.

Witness tests will add one (1) week to the scheduled shipping date. Seller will notify Buyer fourteen (14) calendar days prior to scheduled witness testing or inspection. In the event Buyer is unable to attend, the Parties shall mutually agree on a rescheduled date. However, Seller reserves the right to deem the witness tests waived with the right to ship and invoice Products.

# **Held Orders**

For any order held, delayed or rescheduled at the request of the Buyer, Seller may, at its sole option, (1) require payment to be based on any reasonable basis, including but not limited to the contract price, and any additional expenses, or cost resulting from such a delay; (2) store Products at the sole cost and risk of loss of the Buyer; and/or (3) charge to the Buyer those prices under the applicable price policy. Payment for such price, expenses and costs, in any such event, shall be due by Buyer within thirty (30) days from date of Seller's invoice. Any order so held delayed or rescheduled beyond six (6) months will be treated as a Buyer termination.

## **Drawing Approval**

Seller will design the Products in line with, in Seller's judgment, good commercial practice. If at drawing approval Buyer makes changes outside of the design as covered in their specifications, Seller will then be paid reasonable charges and allowed a commensurate delay in shipping date based on the changes made.

# Drawing Re-Submittal

When Seller agrees to do so in its quotation, Seller shall provide Buyer with the first set of factory customer approval drawing(s) at Seller's expense. The customer approval drawing(s) will be delivered at the quoted delivery date. If Buyer requests drawing changes or additions after the initial factory customer approval drawing(s) have been submitted by Seller, the Seller, at its option, may assess Buyer drawing charges. Factory customer approval drawing charges required due to misinterpretation by Seller will be at Seller's expense. Approval drawings generated by Bid-Manager are excluded from this provision.

# WARRANTY

#### Warranty For Products

Seller warrants that the Products manufactured by it will conform to Seller's applicable specifications and be free from failure due to defects in workmanship and material for one (1) year from the date of installation of the Product or eighteen (18) months from the date of shipment of the Product, whichever occurs first.

In the event any Product fails to comply with the foregoing warranty Seller will, at its option, either (a) repair or replace the defective Product, or defective part or component thereof, F.O.B. Seller's facility freight prepaid, or (b) credit Buyer for the purchase price of the Product. All warranty claims shall be made in writing.



Seller requires all non-conforming Products be returned at Seller's expense for evaluation unless specifically stated otherwise in writing by Seller.

This warranty does not cover failure or damage due to storage, installation, operation or maintenance not in conformance with Seller's recommendations and industry standard practice or due to accident, misuse, abuse or negligence. This warranty does not cover reimbursement for labor, gaining access, removal, installation, temporary power or any other expenses, which may be incurred in connection with repair or replacement.

This warranty does not apply to equipment not manufactured by Seller. Seller limits itself to extending the same warranty it receives from the supplier.

#### **Extended Warranty for Products**

If requested by the Buyer and specifically accepted in writing by Seller, the foregoing standard warranty for Products will be extended from the date of shipment for the period and price indicated below:

24 months – 2% of Contract Price 30 months – 3% of Contract Price 36 months – 4% of Contract Price

#### Special Warranty (In and Out) for Products

If requested by the Buyer and specifically accepted in writing by Seller, Seller will, during the warranty period for Products, at an additional cost of 2% of the contract price, be responsible for the direct cost of:

- 1. Removing the Product from the installed location.
- 2. Transportation to the repair facility and return to the site.
- 3. Reinstallation on site.

The total liability of Seller for this Special Warranty for Products is limited to 50% of the contract price of the particular Product being repaired and excludes expenses for removing adjacent apparatus, walls, piping, structures, temporary service, etc.

# Warranty For Services

Seller warrants that the Services performed by it hereunder will be performed in accordance with generally accepted professional standards.

The Services, which do not so conform, shall be corrected by Seller upon notification in writing by the Buyer within one (1) year after completion of the Services. Unless otherwise agreed to in writing by Seller, Seller assumes no responsibility with respect to the suitability of the Buyer's, or its customer's, equipment or with respect to any latent defects in equipment not supplied by Seller. This warranty does not cover damage to Buyer's, or its customer's, equipment, components or parts resulting in whole or in part from improper maintenance or operation or from their deteriorated condition. Buyer will, at its cost, provide Seller with unobstructed access to the defective Services, as well as adequate free working space in the immediate vicinity of the defective Services and such facilities and systems, including, without limitation, docks, cranes and utility disconnects and connects, as may be necessary in order that Seller may perform its warranty obligations. The conducting of any tests shall be mutually agreed upon and Seller shall be notified of, and may be present at, all tests that may be made.

#### Warranty for Power Systems Studies

Seller warrants that any power systems studies performed by it will conform to generally accepted professional standards. Any portion of the study, which does not so conform, shall be corrected by Seller upon notification in writing by the Buyer within six (6) months after completion of the study. All warranty work shall be performed in a single shift straight time basis Monday through Friday. In the event that the study requires correction of warranty items on an overtime schedule, the premium portion of such overtime shall be for the Buyer's account.

# Limitation on Warranties for Products,

Services and Power Systems Studies THE FOREGOING WARRANTIES ARE EXCLUSIVE EXCEPT FOR WARRANTY OF TITLE. SELLER DISCLAIMS ALL OTHER WARRANTIES INCLUDING ANY IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

CORRECTION OF NON-CONFORMITIES IN THE MANNER AND FOR THE PERIOD OF TIME PROVIDED ABOVE SHALL CONSTITUTE SELLER'S SOLE LIABILITY AND BUYER'S EXCLUSIVE REMEDY FOR FAILURE OF SELLER TO MEET ITS WARRANTY OBLIGATIONS, WHETHER CLAIMS OF THE BUYER ARE BASED IN CONTRACT, IN TORT (INCLUDING NEGLIGENCE OR STRICT LIABILITY) OR OTHERWISE.

# Asbestos

Federal Law requires that building or facility owners identify the presence, location and quantity of asbestos containing material (hereinafter "ACM") at work sites. Seller is not licensed to abate ACM. Accordingly, for any contract which includes the provision of Services, prior to (i) commencement of work at any site under a specific Purchase Order, (ii) a change in the work scope of any Purchase Order, the Buyer will certify that the work area associated with the Seller's scope of work includes the handling of Class II ACM, including but not limited to generator wedges and high temperature gaskets which include asbestos materials. The Buyer shall, at its expense, conduct abatement should the removal, handling, modification or reinstallation, or some or all of them, of said Class II ACM be likely to generate airborne asbestos fibers: and should such abatement affect the cost of or time of performance of the work then Seller shall be entitled to an equitable adjustment in the schedule, price and other pertinent affected provisions of the contract.

# **Compliance with Nuclear Regulation**

Seller's Products are sold as commercial grade Products not intended for application in facilities or activities licensed by the United States Nuclear Regulatory Commission for atomic purposes. Further certification will be required for use of the Products in any safety-related application in any nuclear facility licensed by the U.S. Nuclear Regulatory Commission.

#### **Returning Products**

Authorization and shipping instructions for the return of any Products must be obtained from Seller before returning the Products. When return is occasioned due to Seller error, full credit including all transportation charges will be allowed.

#### Product Notices

Buyer shall provide the user (including its employees) of the Products with all Seller supplied Product notices, warnings, instructions, recommendations and similar materials.

# Force Majeure

Seller shall not be liable for failure to perform or delay in performance due to fire, flood, strike or other labor difficulty, act of God, act of any governmental authority or of the Buyer, riot, embargo, fuel or energy shortage, car shortage, wrecks or delays in transportation, or due to any other cause beyond Seller's reasonable control. In the event of delay in performance due to any such cause, the date of delivery or time for completion will be extended by a period of time reasonably necessary to overcome the effect of such delay.

# Liquidated Damages

Contracts which include liquidated damage clauses for failure to meet shipping or job completion promises are not acceptable or binding on Seller, unless such clauses are specifically accepted in writing by an authorized representative of the Seller at its headquarters office.

# **Patent Infringement**

Seller will defend or, at its option, settle any suit or proceeding brought against Buyer, or Buyer's customers, to the extent it is based upon a claim that any Product or part thereof, manufactured by Seller or its subsidiaries and furnished hereunder, infringes any United States patent, other than a claim of infringement based upon use of a Product or part thereof in a process, provided Seller is notified in reasonable time and given authority, information and assistance (at Seller's expense) for the defense of same. Seller shall pay all legal and court costs and expenses and court-assessed damages awarded therein against Buyer resulting from or incident to such suit or proceeding. In addition to the foregoing, if at any time Seller determines there is a substantial question of infringement of any United States patent, and the use of such Product is or may be enjoined, Seller may, at its option and expense: either (a) procure for Buyer the right to continue using and selling the Product; (b) replace the Product with noninfringing apparatus: (c) modify the Product so it becomes non-infringing; or (d) as a last resort, remove the Product and refund the purchase price, equitably adjusted for use and obsolescence. In no case does Seller agree to pay any recovery based upon its Buyer's savings or profit through use of Seller's Products whether the use be special or ordinary. The foregoing states the entire liability of Seller for patent infringement.

The preceding paragraph does not apply to any claim of infringement based upon: (a) any modification made to a Product other than by Seller; (b) any design and/or specifications of Buyer to which a Product was manufactured; or (c) the use or combination of Product with other products where the Product does not itself infringe. As to the above-identified claim situations where the preceding paragraph does not apply, Buyer shall defend and hold Seller harmless in the same manner and to the extent as Seller's obligations described in the preceding paragraph. Buyer shall be responsible for obtaining (at Buyer's expense) all license rights required for Seller to be able to use software products in the possession of Buyer where such use is required in order to perform any Service for Buyer.

With respect to a Product or part thereof not manufactured by Seller or its subsidiaries, Seller will attempt to obtain for Buyer, from the supplier(s), the patent indemnification protection normally provided by the supplier(s) to customers.

#### **Compliance with OSHA**

Seller offers no warranty and makes no representation that its Products comply with the provisions or standards of the Occupational Safety and Health Act of 1970, or any regulation issued thereunder. In no event shall Seller be liable for any loss, damage, fines, penalty or expenses arising under said Act.

#### Limitation of Liability

THE REMEDIES OF THE BUYER SET FORTH IN THIS CONTRACT ARE EXCLUSIVE AND ARE ITS SOLE REMEDIES FOR ANY FAILURE OF SELLER TO COMPLY WITH ITS OBLIGATIONS HEREUNDER.

NOTWITHSTANDING ANY PROVISION IN THIS CONTRACT TO THE CONTRARY, IN NO EVENT SHALL SELLER BE LIABLE IN CONTRACT, IN TORT (INCLUDING NEGLIGENCE OR STRICT LIABILITY) OR OTHERWISE FOR DAMAGE TO PROPERTY OR EQUIPMENT OTHER THAN PRODUCTS SOLD HEREUNDER, LOSS OF PROFITS OR REVENUE, LOSS OF USE OF PRODUCTS, COST OF CAPITAL, CLAIMS OF CUSTOMERS OF THE BUYER OR ANY SPECIAL, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES WHATSOEVER, REGARDLESS OF WHETHER SUCH POTENTIAL DAMAGES ARE FORESEEABLE OR IF SELLER HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

THE TOTAL CUMULATIVE LIABILITY OF SELLER ARISING FROM OR RELATED TO THIS CONTRACT WHETHER THE CLAIMS ARE BASED IN CONTRACT, IN TORT (INCLUDING NEGLIGENCE OR STRICT LIABILITY) OR OTHERWISE, SHALL NOT EXCEED THE PRICE OF THE PRODUCT OR SERVICES ON WHICH SUCH LIABILITY IS BASED.

> Eaton Corporation. 1000 Cherrington Parkway Moon Township, PA 15108 United States Tel: 1-800-525-2000 Eaton.com

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Panelboards



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Drawings

		General Information		(Section 1 of 1	)
Neutral Main Breaker 12004	A	Service Voltage: Bus Rating & Type: Ground Bar: S.C. Rating:	480Y/277V 3Ph 4W 1200A Aluminum Std. Bolted Aluminum, Al 25k A.I.C. Fully Rated	Neutral Rating: 12	ype 1 200A
NGS312033E 1 FD3200 FD3175 3 200A 175A 5 FD3150 FD3125 9 150A 125A	2 4 6 8	Main Device Type: Main Terminals: Neutral Terminals: Box Catalog No.: Trim:	Main Breaker - Top Cable Mechanical - (4) 4/0-500 Mechanical - (4) #2-500 k BX4490P Standard Covers Surface Mounted	kcmil (Cu/AI)	
11         FD1080         FD1020           15         FD1020         FD1020           17         FD1020         FD1020	12 14 16 18	Box Dimensions: Min. Gutter Size:	90.00" [2286.0mm]H x 44 Top = 10.625" [269.9mm] Left = 8" [203.2mm] Right	Bottom = 10.625" [269	
19         FD1020         FD1020           21         FD1020         FD1020           23         FD1020         FD1020           25         FD1020         FD1020           27         FD1020         FD1020	20 22 24 26 28	Panel ID Nameplate: Type: Plastic, adhea Color: White with Bla	( )	'1-1 277V 3Ph 4W	
<sup>29</sup> FD1020 FD1020	30	UL			
31         FD1020         FD1020           33         FD1020         FD1020           35         FD1020         FD1020           37         KD3350         Blank           39         350A         Blank           41         Blank         Blank           43         LGE3600         600A           47         Bus Cover         9X           Blank         Cover         1000	32 34 36 36 40 42 44 46 48	Circuit Directory: Plast Painted Box: ANSI 61 Main Circuit Breaker T Heat Loss - Watts (Est Verify neutral terminal	rip Type: 310+ LS.	ranch devices.	
Device Modifications:					
These Circuits have Modifications: Ckt #:37, 43Main See Device Specifications page 1 Main Device Mods: 310+LS 310+LS Adi. Tri	<b>for details.</b> p Unit, NG Frame, Inc	Branch Devices Qty Poles Trip 1 3 600 1 3 350 1 3 125 1 3 150 1 3 175 1 3 200	Frame LGE KD FD FD FD FD	Amps 600 400 225 225 225 225 225	kAIC 25 25 25 25 25 25
	p onit, we rranie, inc	1 1 80 23 1 20 Main Devices Qty Poles Trip 1 3 1200	FD FD Frame NGS	100 100 <b>Amps</b> 1200	25 25 25 <b>kAIC</b> 25
Notes:		23 1 20 Main Devices Qty Poles Trip	FD <b>Frame</b>	100 100 <b>Amps</b>	25 25 <b>kAIC</b>
	PREPARED BY	23 1 20 Main Devices Qty Poles Trip	FD <b>Frame</b>	100 100 <b>Amps</b>	25 25 <b>kAIC</b>
Notes:	PREPARED BY SEAN GOVEY	1     1     80       23     1     20       Main Devices     Qty     Poles       Qty     Poles     Trip       1     3     1200	FD Frame NGS	100 100 <b>Amps</b> 1200	25 25 <b>kAIC</b>
Notes: The information on this document is created by Eaton Corporation. It is	PREPARED BY	1         1         80           23         1         20           Main Devices         0         0           Qty         Poles         Trip           1         3         1200           Date         6/26/2018         Eaton           Date         JOB NAME	FD Frame NGS	100 100 <b>Amps</b>	25 25 <b>kAIC</b>
Notes: The information on this document is created by Eaton Corporation. It is disclosed in confidence and it is only to be used for the purpose in which it is	PREPARED BY SEAN GOVEY APPROVED BY VERS	1         1         80           23         1         20           Main Devices         0         0           Qty         Poles         Trip           1         3         1200	FD Frame NGS	100 100 Amps 1200	25 25 <b>kAIC</b>
Notes: The information on this document is created by Eaton Corporation. It is disclosed in confidence and it is only to be used for the purpose in which it is	PREPARED BY SEAN GOVEY APPROVED BY	1         1         80           23         1         20           Main Devices         0         0           Qty         Poles         Trip           1         3         1200	FD Frame NGS	100 100 Amps 1200	25 25 <b>kAIC</b>

		Pow-R-Line4 Device Specifications						
Ckt #s Nan	neplate	Device	Trip	Terminal	Μ	odifications		
Main		NGS312033E	1200	(4) 4/0-500 kcmil (Cu/	Al) 3 <sup>.</sup>	10+LS Adj. Trip Unit, NG F	rame, Included	
1,3,5		FD3200	200	(1) #4-4/0 (Cu/Al)				
2,4,6		FD3175	175	(1) #4-4/0 (Cu/Al)				
7,9,11		FD3150	150	(1) #4-4/0 (Cu/Al)				
8,10,12		FD3125	125	(1) #4-4/0 (Cu/Al)				
13		FD1080	80	(1) #14-1/0 (Cu/Al)				
14		FD1020	20	(1) #14-1/0 (Cu/Al)				
15		FD1020	20	(1) #14-1/0 (Cu/Al)				
16		FD1020	20	(1) #14-1/0 (Cu/Al)				
17		FD1020	20	(1) #14-1/0 (Cu/Al)				
18		FD1020	20	(1) #14-1/0 (Cu/Al)				
19		FD1020	20	(1) #14-1/0 (Cu/Al)				
20		FD1020	20	(1) #14-1/0 (Cu/Al)				
21		FD1020	20	(1) #14-1/0 (Cu/Al)				
e information on this docume ated by Eaton Corporation. I			DATE	Eaton				
closed in confidence and it is	s only to		6/26/2018 DATE	Laton JOB NAME	North Ota	ton Sabacia		
used for the purpose in whic oplied.	n it is	וט		JOB NAME DESIGNATION	North Stoning HVDP1-1	ION SCHOOIS		
		VERSION		TYPE		DRAWING TYPE		
		1.0.0.22		PRL4		Customer Approval	1	
G-ALT Number	REVISION		DWG SIZE	G.O.		ITEM	SHEE 2 of	
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				Pow-R	-Line4 Device Spe	ecifications		
Ckt #s	Nameplate	[	Device	Trip	Terminal	Mo	odifications	
22		F	D1020	20	(1) #14-1/0 (Cu/Al)			
23		F	D1020	20	(1) #14-1/0 (Cu/Al)			
24		F	D1020	20	(1) #14-1/0 (Cu/Al)			
25		F	D1020	20	(1) #14-1/0 (Cu/Al)			
26		F	D1020	20	(1) #14-1/0 (Cu/Al)			
27		F	D1020	20	(1) #14-1/0 (Cu/Al)			
28		F	D1020	20	(1) #14-1/0 (Cu/Al)			
29		F	D1020	20	(1) #14-1/0 (Cu/Al)			
30		F	D1020	20	(1) #14-1/0 (Cu/Al)			
31		F	D1020	20	(1) #14-1/0 (Cu/Al)			
32		F	D1020	20	(1) #14-1/0 (Cu/Al)			
33		F	D1020	20	(1) #14-1/0 (Cu/Al)			
34		F	D1020	20	(1) #14-1/0 (Cu/Al)			
35		F	D1020	20	(1) #14-1/0 (Cu/Al)			
information on ated by Eaton Co	this document is	PREPARED BY		DATE	Eaton			
closed in confide	ence and it is only to	SEAN GOVEY		6/26/2018 DATE	Laton JOB NAME	North Stoningt	on Schools	
used for the purp oplied.	oose in which it is				DESIGNATION	HVDP1-1		
			VERSION		TYPE		DRAWING TYPE	
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			Pow-R-Line4 Device Specifications						
Ckt #s	Nameplate	Device	Trip	Terminal	Modifications				
36		FD1020	20	(1) #14-1/0 (Cu/Al)					
37,39,41		KD3350	350	(1) 250-500 kcmil (Cu/Al)	310+LSI Adj. Trip Unit, K Frame Fixed Rating Plug, K Frame, 350A				
43,44,45 46,47,48		LGE3600	600	(2) #2-500 kcmil (Cu/AI)	600A 310 Plus LSI Trip Unit				

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	APPROVED BY	DATE	JOB NAME	North Stoning	on Schools	
supplied.			DESIGNATION	HVDP1-1		
	VER	SION	TYPE		DRAWING TYPE	
	1.0.	0.22	PRL4		Customer Approval	
NEG-ALT Number	REVISION	DWG SIZE	G.O.		ITEM	SHEET
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		General Inform	nation		(Section 1 of	l)
Neutral Main Breaker 800A MDL3800		Service Voltag Bus Rating & Ground Bar: S.C. Rating:	Type: 800A Alu Std. Bolt	0V 3Ph 4W uminum ted Aluminum, Al C. Fully Rated	Enclosure: Neutral Rating: 8	ype 1
1         QBHW3100H         QBHW1020           3         QBHW1020         QBHW1020           5         QBHW1020         QBHW1020           7         QBHW1020         QBHW1020           9         QBHW1020         QBHW1020           11         QBHW1020         QBHW1020           13         QBHW1020         QBHW1020           15         QBHW1020         QBHW1020	4 6 8 10 12 14	Main Device Ty Main Terminals Neutral Termir Box Catalog N Trim:	s: Mechani ials: Mechani o.: BX36900 Standard	eaker - Top Cable ical - (2) 500-750 ical - (3) 1/0-750 P d Covers Mounted	) kcmil (Cu/Al)	
15         QBHW1020         QBHW1020           17         QBHW1020         QBHW1020           19         QBHW1020         QBHW1020           21         QBHW1020         QBHW1020           23         QBHW1020         QBHW1020	18 20 22	Box Dimensio Min. Gutter Siz	te: Top = 10	).625" [269.9mm]	6.00" [914.4mm]W x 10 ] Bottom = 10.625" [26 it = 8" [203.2mm]	
25     QBHW1020     Blank       27     Blank     Blank       29     Blank     Blank       31     Blank     Blank       33     Blank     Blank	26 28 30 32 34		plate: adhesive-backed with Black Letters		21-1 /120V 3Ph 4W	
35 Blank Blank 37 Blank Blank	36	UL				
39     Blank     Blank       41     Blank     Blank       43     EDB3225     EDB3175       45     225A     175A       47     49     EDB3150       51     150A     Blank       55     KD3400       57     400A       59     0       65     Bus Cover       3X     3X	40 42 44 46 48 50 55 54 56 56 56 60 62 66 66	Painted Box: A Main Circuit Bre Heat Loss - Wa	eaker Trip Type: T	hermal-Magnetic		
Device Modifications:		Branch Device Qty Poles	Trip	Frame	Amps	kAIC
These Circuits have Modifications: Ckt #:55 See Device Specifications page f	for details.	1 3 1 3 1 3 1 3 1 3 1 3 22 1	225 300 400 150 175 100 20	EDB DK KD EDB EDB QBHW QBHW	225 400 400 225 225 100 100	22 22 22 22 22 22 22 22 22 22
		Main Devices Qty Poles 1 3	<b>Trip</b> 800	Frame MDL	<b>Amps</b> 800	<b>kAIC</b> 22
Notes:						
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disclosed in confidence and it is only to be used for the purpose in which it is	APPROVED BY		DB NAME	North Stor	nington Schools	
			ESIGNATION	LVDP1-1	-	
supplied.					DRAWING TYPE	
supplied.		ERSION T .0.0.22 P				
NEG-ALT Number			RL4		Customer Approval	SHEET

				Pow-R	-Line4 Device Sp	ecifications	;	
Ckt #s	Nameplate		Device	Trip	Terminal		odifications	
Main			MDL3800	800	(2) 500-750 kcmil (Cu	I/AI)		
1,3,5			QBHW3100H	100	(1) #8-1/0 (Cu/Al)			
2			QBHW1020	20	(1) #14-#4 (Cu/Al)			
4			QBHW1020	20	(1) #14-#4 (Cu/Al)			
6			QBHW1020	20	(1) #14-#4 (Cu/Al)			
7			QBHW1020	20	(1) #14-#4 (Cu/Al)			
8			QBHW1020	20	(1) #14-#4 (Cu/Al)			
9			QBHW1020	20	(1) #14-#4 (Cu/Al)			
10			QBHW1020	20	(1) #14-#4 (Cu/Al)			
11			QBHW1020	20	(1) #14-#4 (Cu/Al)			
12			QBHW1020	20	(1) #14-#4 (Cu/Al)			
13			QBHW1020	20	(1) #14-#4 (Cu/Al)			
14			QBHW1020	20	(1) #14-#4 (Cu/Al)			
15			QBHW1020	20	(1) #14-#4 (Cu/Al)			
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reated by Eaton Corpo isclosed in confidenc	pration. It is and it is only to	SEAN GOVEY		6/26/2018	Eaton			
e used for the purpos	e in which it is	APPROVED BY			JOB NAME	North Stoning	ton Schools	
upplied.			VEDOLOU		DESIGNATION	LVDP1-1		
			VERSION 1.0.0.22		TYPE PRL4		DRAWING TYPE Customer Approval	
EG-ALT Number		REVISION			G.O.		ITEM	SHEET
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				Pow-R	-Line4 Device Sp	ecificatior	าร	
Ckt #s	Nameplate		Device	Trip	Terminal		Modifications	
16			QBHW1020	20	(1) #14-#4 (Cu/Al)			
17			QBHW1020	20	(1) #14-#4 (Cu/Al)			
18			QBHW1020	20	(1) #14-#4 (Cu/Al)			
19			QBHW1020	20	(1) #14-#4 (Cu/Al)			
20			QBHW1020	20	(1) #14-#4 (Cu/Al)			
21			QBHW1020	20	(1) #14-#4 (Cu/Al)			
22			QBHW1020	20	(1) #14-#4 (Cu/Al)			
23			QBHW1020	20	(1) #14-#4 (Cu/Al)			
24			QBHW1020	20	(1) #14-#4 (Cu/Al)			
25			QBHW1020	20	(1) #14-#4 (Cu/Al)			
43,45,47			EDB3225	225	(1) #4-4/0 (Cu/Al)			
44,46,48			EDB3175	175	(1) #4-4/0 (Cu/Al)			
49,51,53			EDB3150	150	(1) #4-4/0 (Cu/Al)			
55,56,57 58,59,60			KD3400	400	(1) 2/0-500 kcmil (Cu	/AI)	310+LSI Adj. Trip Unit, K Fram	ie
e information on thi ated by Eaton Corp	oration. It is	PREPARED BY		DATE 6/26/2018	Faton			
closed in confident	e and it is only to	SEAN GOVEY APPROVED BY			JOB NAME	North Stoni	ngton Schools	
oplied.					DESIGNATION	LVDP1-1	1	
			VERSION		TYPE		DRAWING TYPE	
G-ALT Number		REVISION	1.0.0.22	DWG SIZE	PRL4 G.O.		Customer Approval	SHEE
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	Pow-R-Line4 Device Specifications							
Ckt #s	Nameplate	Device	Trip	Terminal	Modifications			
61,62,63 64,65,66		DK3300W	300	(1) 250-500 kcmil (Cu/	Al)			

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	APPROVED BY	DATE	JOB NAME DESIGNATION	North Stoningt LVDP1-1	on Schools	
	VER	SION	TYPE		DRAWING TYPE	
	1.0.	0.22	PRL4		Customer Approval	
NEG-ALT Number	REVISION	DWG SIZE	G.O.		ITEM	SHEET
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				General Information	on	(Section 1 of	1)
	Neu	tral		Service Voltage: Bus Rating & Type Ground Bar: S.C. Rating:	480Y/277V 3Ph 4W	Enclosure: Neutral Rating:	Type 1
	Main Brea MDL3			Main Device Type Main Terminals:	Main Breaker - Top Ca Mechanical - (2) 500-7	50 kcmil (Cu/Al)	
135	FD3175 175A	FD3110 110A	2 4 6	Neutral Terminals Box Catalog No.: Trim:	Mechanical - (3) 1/0-75 BX3673P Standard Covers Surface Mounted	50 kcmil (Cu/Al)	
7 9 11	FD3110 110A	FD3110 110A	8 10 12	Box Dimensions: Min. Gutter Size:		36.00" [914.4mm]W x 1 m] Bottom = 10.625" [26	
13 15 17	FD3080 80A	FD3070 70A	14 16 18	Panel ID Namepla Type: Plastic, ac Color: White with	te: (1) SB hesive-backed (2) 480		
19 21	FD3060 60A	FD3060 60A	20 22	UL			
23 25 27	FD3050 50A	FD3040 40A	24 26 28	Painted Box: ANSI	astic Sleeve with Card 61 r Trip Type: Thermal-Magne	tic.	
29 31	FD3040 40A	FD3020 20A	30 32 34	Heat Loss - Watts (			
35 37 39	FD3020 20A	Blank Blank	36 38 40				
41	Bus C	Blank Over	42				
Device Mo Ref #	odifications: De	scription			<b>rip Frame</b> 75 FD	<b>Amps</b> 225	<b>kAIC</b> 25
				2 3 4	10 FD 0 FD	225 100	25 25
					0 FD 0 FD	100 100	25 25
				1 3 8	0 FD 0 FD	100	25
					0 FD		
				1 3 5	0 FD	100 100	25 25
				1 3 5 Main Devices Qty Poles 1			
lotes:				1 3 5 Main Devices Qty Poles 1	0 FD rip Frame	100 <b>Amps</b>	25 <b>kAIC</b>
lotes:				1 3 5 Main Devices Qty Poles 1	0 FD rip Frame	100 <b>Amps</b>	25 <b>kAIC</b>
	ion on this docu	ment is	PREPARED BY	1 3 5 Main Devices Qty Poles 1 1 3 8	0 FD rip Frame	100 <b>Amps</b>	25 <b>kAIC</b>
he informatio	ion on this docu	n. It is	PREPARED BY SEAN GOVEY	1 3 5 Main Devices Qty Poles 1	0 FD rip Frame 00 MDL	100 <b>Amps</b>	25 <b>kAIC</b>
he informatio reated by Ea isclosed in c e used for th		n. It is It is only to		1 3 5 Main Devices Qty Poles 1 1 3 8	0 FD rip Frame 00 MDL MDL ME North S	100 Amps 800	25 <b>kAIC</b>
he informatio reated by Ea isclosed in c e used for th	aton Corporatior confidence and i	n. It is It is only to	SEAN GOVEY	1 3 5 Main Devices Qty Poles 1 1 3 8 DATE 6/26/2018 Eato DATE JOB N/ DATE JOB N/ DATE JOB N/	0 FD rip Frame 00 MDL PN ME North S	100 Amps 800 Stonington Schools -1	25 <b>kAIC</b>
he informatio reated by Ea isclosed in c e used for th	aton Corporatior confidence and i	n. It is It is only to	SEAN GOVEY APPROVED BY VEF	1         3         5           Main Devices         Qty         Poles         1           1         3         8             Date         6/26/2018         Eato           DATE         JOB N/	0 FD rip Frame 00 MDL PN ME North S	100 Amps 800	25 <b>kAIC</b> 25
reated by Ea isclosed in c	aton Corporatior confidence and i he purpose in wl	n. It is It is only to	SEAN GOVEY APPROVED BY VEF	1 3 5 Main Devices Qty Poles 1 1 3 8 DATE 6/26/2018 Eato DATE JOB N/ DESIG RSION TYPE	0 FD rip Frame 00 MDL PN ME North S	100 Amps 800 Stonington Schools -1 DRAWING TYPE	25 kAIC 25

			Pow-R	-Line4 Device Spe	ecifications		
Ckt #s Name	eplate	Device	Trip	Terminal	Modif	ications	
Main		MDL3800	800	(2) 500-750 kcmil (Cu	/AI)		
1,3,5		FD3175	175	(1) #4-4/0 (Cu/Al)			
2,4,6		FD3110	110	(1) #4-4/0 (Cu/Al)			
7,9,11		FD3110	110	(1) #4-4/0 (Cu/Al)			
8,10,12		FD3110	110	(1) #4-4/0 (Cu/Al)			
13,15,17		FD3080	80	(1) #14-1/0 (Cu/Al)			
14,16,18		FD3070	70	(1) #14-1/0 (Cu/Al)			
19,21,23		FD3060	60	(1) #14-1/0 (Cu/Al)			
20,22,24		FD3060	60	(1) #14-1/0 (Cu/Al)			
25,27,29		FD3050	50	(1) #14-1/0 (Cu/Al)			
26,28,30		FD3040	40	(1) #14-1/0 (Cu/Al)			
31,33,35		FD3040	40	(1) #14-1/0 (Cu/Al)			
32,34,36		FD3020	20	(1) #14-1/0 (Cu/Al)			
37,39,41		FD3020	20	(1) #14-1/0 (Cu/Al)			
information on this documen ated by Eaton Corporation. It i	-		DATE	Fatan			
closed in confidence and it is	only to	GOVEY	6/26/2018			<u></u>	
used for the purpose in which oplied.	it is	IED RY	DATE	JOB NAME DESIGNATION	North Stonington SBHV1-1	Schools	
•		VERSION		TYPE		RAWING TYPE	
		1.0.0.22		PRL4		ustomer Approval	
	REVISIO			<u> </u>		EM	
G-ALT Number		)	DWG SIZE A	G.O.	! ! !		SHEE

		General Inform	nation		(Section 1 of	1)
Neutral		Service Voltag Bus Rating & Ground Bar: S.C. Rating:	Type: 1200A Std. Bo	277V 3Ph 4W Aluminum olted Aluminum, Al o I.C. Fully Rated	Enclosure: Neutral Rating: or Cu cable	Type 1 1200A
Main Lugs Only 1200A		Main Device T		ugs Only - Top Cab		
1HFD3175HFD3030 3175A30A 5	_2 _4 _6	Main Terminal Neutral Termin Box Catalog N Trim:	nals: Mecha lo.: BX367 Standa	nical - (4) #2-500 k nical - (4) #2-500 k '3P ard Covers e Mounted		
7_ HFD3025 HFD3025 9_ 25A 25A 11_ 13_ HFD1020 HFD1020	8 10 12 14	Box Dimensio Min. Gutter Si	ze: Top =		.00" [914.4mm]W x <sup>-</sup> Bottom = 10.625" [2 = 8" [203.2mm]	
15         HFD1020         HFD1020           15         HFD1020         HFD1020           17         HFD1020         HFD1020           19         HFD1020         HFD1020	16 18 20		eplate: c, adhesive-back with Black Lette		B-1 277V 3Ph 4W	
<ul> <li>21 HFD1020 HFD1020</li> <li>23 HFD1020 HFD1020</li> </ul>	_22 24	UL				
25 HFD3020 Blank 27 20A Blank 29 MDL3800 31 MDL3800 33 800A 35 Bus Cover 3X	_26 _28 _30 _32 _34 _36	Painted Box: A Heat Loss - Wa	atts (Est.) = 682	with Card	anch devices.	
3						
Device Modifications: Ref # Description		Branch Device           Qty         Poles           1         3           1         3           2         3           1         3           2         3           1         3           2         3           1         3           1         3           2         3           1         3           12         1		Frame HFD MDL HFD HFD HFD HFD	<b>Amps</b> 225 800 100 100 100 100 100	<b>kAIC</b> 50 50 50 50 50 50 50
Notes:						
	PREPARED BY	DATE	- 4			
created by Eaton Corporation. It is disclosed in confidence and it is only to	SEAN GOVEY	6/26/2018 <b>E</b>		North Of	inaton Schoola	
created by Eaton Corporation. It is disclosed in confidence and it is only to be used for the purpose in which it is		6/26/2018 <b>E</b> DATE J	Eaton OB NAME DESIGNATION	North Stoni SBHVB-1	ington Schools	
The information on this document is created by Eaton Corporation. It is disclosed in confidence and it is only to be used for the purpose in which it is supplied.	SEAN GOVEY APPROVED BY VER:	6/26/2018 E	OB NAME DESIGNATION YPE		DRAWING TYPE	
created by Eaton Corporation. It is disclosed in confidence and it is only to be used for the purpose in which it is	SEAN GOVEY APPROVED BY	6/26/2018 E DATE J DI DI DI DI DI DI DI DI DI DI	OB NAME DESIGNATION		-	I SHEET

				Pow-R	Line4 Device Spe	ecifications	;	
Ckt #s	Nameplate		Device	Trip	Terminal	Μ	lodifications	
Main			1200A-MLO		(4) #2-500 kcmil (Cu/#	AI)		
1,3,5			HFD3175	175	(1) #4-4/0 (Cu/Al)			
2,4,6			HFD3030	30	(1) #14-1/0 (Cu/Al)			
7,9,11			HFD3025	25	(1) #14-1/0 (Cu/Al)			
8,10,12			HFD3025	25	(1) #14-1/0 (Cu/Al)			
13			HFD1020	20	(1) #14-1/0 (Cu/Al)			
14			HFD1020	20	(1) #14-1/0 (Cu/Al)			
15			HFD1020	20	(1) #14-1/0 (Cu/Al)			
16			HFD1020	20	(1) #14-1/0 (Cu/Al)			
17			HFD1020	20	(1) #14-1/0 (Cu/Al)			
18			HFD1020	20	(1) #14-1/0 (Cu/Al)			
19			HFD1020	20	(1) #14-1/0 (Cu/Al)			
20			HFD1020	20	(1) #14-1/0 (Cu/Al)			
21			HFD1020	20	(1) #14-1/0 (Cu/Al)			
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sclosed in confiden	ce and it is only to	SEAN GOVEY		6/26/2018 DATE	JOB NAME	North Stoning	ton Schools	
used for the purpo pplied.	ise in which it is			DATE	DESIGNATION	SBHVB-1		
			VERSION		TYPE		DRAWING TYPE	
		REVISION	1.0.0.22	DWG SIZE	PRL4		Customer Approval	SHEET
G-ALT Number								

			Po	w-R-Lin	e4 Device Spec	ITICATIONS			
Ckt #s	Nameplate	Devi			Terminal		odifications		
22	Namepiale	HFD			(1) #14-1/0 (Cu/Al)	IVI.	ouncations		
					(1)				
23		HFD	1020 20	)	(1) #14-1/0 (Cu/Al)				
24		HFD	1020 20	)	(1) #14-1/0 (Cu/Al)				
25,27,29		HFD	3020 20	)	(1) #14-1/0 (Cu/Al)				
31,32,33		MDL	.3800 80	00	(2) 500-750 kcmil (Cu/Al)	)			
34,35,36									
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					Genera	al Informat	tion		(Section 1 of	1)
	Main Lug 600 Neut	A					pe: 600A Alumi	num Aluminum, Al or C	Enclosure: Neutral Rating: Cu cable	Type 1 600A
135	FD3110 110A	FD3110 110A	2 4 6		Main T Neutra	evice Typ erminals: I Terminal	Mechanical s: Mechanical	Only - Top Cable I - (2) #4-500 kcmi - (2) #4-500 kcmi	I (Cu/AI)	
79 11	FD3100 100A	FD3080 80A	8 10 12		Box Ca Trim:	atalog No.		oor in Door, Conce	ealed Hardware (	EZTV2090S)
13 15 17	FD3040 40A	FD3040 40A	_14 _16				Surface Mo	unted		
19	FD3040 40A	FD3040 40A	18 20 22			mensions utter Size:	Top = 5.5" [	139.7mm] Bottom	= 5.5" [139.7mm	5.75" [146.1mm]D 1]
21 23 25	FD3040	FD3040	24 26		Panel	D Namepl		01.6mm] Right = 4 (1) HV2-1	" [101.6mm]	
27 29	40A	40A	28 30		Type:	Plastic, a	adhesive-backed th Black Letters	(1) 1102-1 (2) 480Y/277 (3)	V 3Ph 4W	
31 33 35	FD3040 40A	FD3035 35A	32 34 36		UL					
37 39 41	FD3025 25A	FD3025 25A	38 40 42		Circuit	Directory: I	ard Lock & Key (Ke Plastic Sleeve with			
43 45	FD3025 25A	FD1020 FD1020	44 46		Heat Lo	oss - Watts	(Est.) = 417			
47 49 51	FD3020 20A	FD1020 FD3020 20A	48 50 52							
53 55	FD3020	FD1020	54 56							
5759	<sup>20A</sup> Bus C	FD1020 FD1020	_58 60							
	7×									
Device Mo Ref #	odifications: Des	cription			Branch Qty 1 2	Devices Poles 3 3	100	<b>Frame</b> FD FD	<b>Amps</b> 100 225	<b>kAIC</b> 18 18
					6 1 3 3 1 7	1 3 3 3 3 3	80 25 20 35	FD FD FD FD FD	100 100 100 100 100 100	18 18 18 18 18 18 18
Notes:										
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		General Information		(Section 1 of	1)
Main Lugs Only 600A Neutral		Service Voltage: Bus Rating & Type: Ground Bar: S.C. Rating:	480Y/277V 3Ph 4W 600A Aluminum Std. Bolted Aluminum, Al 50k A.I.C. Fully Rated	Neutral Rating: 6	Гуре 1 300А
1 HFD3225 3 225A 5 7 HFD3200	2 4 6 8	Main Device Type: Main Terminals: Neutral Terminals: Box Catalog No.: Trim:	Main Lugs Only - Top Ca Mechanical - (2) #4-500 I Mechanical - (2) #4-500 I EZB2090R EZ Trim, Door in Door, C	kcmil (Cu/Al) kcmil (Cu/Al)	ZTV2090S)
9200A	_10 12		Surface Mounted		
13 HFD3175 15 175A 17	14 16 18	Box Dimensions: Min. Gutter Size:	90.00" [2286.0mm]H x 20 Top = 5.5" [139.7mm] Bo Left = 4" [101.6mm] Righ	ttom = 5.5" [139.7mm]	
19         HFD3150         HFD3125           21         150A         125A           23	20 22 24 26 28 30	Panel ID Nameplate: Type: Plastic, adhee Color: White with Bl	(1) HVB- sive-backed (2) 480Y/		
31         HFD1020         HFD1020           33         HFD1020         HFD1020           35         HFD1020         HFD1020           37         HFD1020         HFD1020           39         HFD1020         HFD1020           41         HFD1020         HFD1020           45         HFD1020         HFD1020           46         HFD1020         HFD1020           47         HFD1020         HFD1020           49         HFD1020         HFD1020           51         HFD1020         HFD1020           53         HFD1020         Blank           Bus Cover 10X	32 34 36 40 42 44 46 48 50 52 53				
Device Modifications: Ref # Description		Branch Devices           Qty         Poles         Trip           1         3         225           1         3         150           1         3         175           1         3         125           1         3         200           2         1         80           27         1         20	Frame HFD HFD HFD HFD HFD HFD HFD	<b>Amps</b> 225 225 225 225 225 100 100	<b>kAIC</b> 50 50 50 50 50 50 50 50
Notes:					
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The information on this document is created by Eaton Corporation. It is disclosed in confidence and it is only to be used for the purpose in which it is	SEAN GOVEY APPROVED BY VERS	6/26/2018 Eaton DATE JOB NAME DESIGNATI ION TYPE		DRAWING TYPE	
The information on this document is created by Eaton Corporation. It is disclosed in confidence and it is only to be used for the purpose in which it is	SEAN GOVEY APPROVED BY	6/26/2018 Eaton DATE JOB NAME DESIGNATI ION TYPE		-	SHEET

Main Breaker 600A LGE3600, Vert Mtd.		General Information Service Voltage: Bus Rating & Type: Ground Bar:	208Y/120V 3Ph 4W 600A Aluminum Std. Bolted Copper, C	Neutral Rating: au cable only	Type 1
Neutral           1         QBHW2030         QBHW2030           3             5         QBHW1030         QBHW1020	4	S.C. Rating: Main Device Type: Main Terminals: Neutral Terminals: Box Catalog No.: Trim:	22k A.I.C. Fully Rated Main Breaker - Top Ca Mechanical - (2) #2-50 Mechanical - (2) #4-50 EZB2090R EZ Trim, Door in Door	able Entry 00 kcmil (Cu/Al)	EZTV2090S)
7         QBHW1020         QBHW1020           9         QBHW1020         QBHW1020           11         QBHW1020         QBHW1020           13         QBHW1020         QBHW1020	10 12 14	Box Dimensions: Min. Gutter Size:		x 20.00" [508.0mm]W x 5 Bottom = 5.5" [139.7mm light = 4" [101.6mm]	
15         QBHW1020         QBHW1020           17         QBHW1020         QBHW1020           19         QBHW1020         QBHW1020           21         QBHW1020         QBHW1020           23         QBHW1020         QBHW1020	18 20 22	Panel ID Nameplate Type: Plastic, adh Color: White with B	esive-backed (2) 20	'B-1 8Y/120V 3Ph 4W	
25 QBHW1020 Blank 27 Blank Blank 29 Blank Blank 31 EDB3200 33 200A 35 37 EDB3125 39 125A 41 Bus Cover 8X	26 28 30 32 34 36 38 40 42	Trim Lock: Standard Circuit Directory: Pla	Lock & Key (Keyed WEM: stic Sleeve with Card Trip Type: Thermal-Magne st.) = 417	,	
Device Modifications: Ref # Description		Branch Devices           Qty         Poles         Tri           1         3         20           1         3         12           2         2         30           20         1         20           1         1         30           20         1         20           1         1         30           Main Devices         Qty         Poles         Tri           1         3         60	0 EDB 5 EDB QBHW QBHW QBHW <b>P Frame</b>	<b>Amps</b> 225 225 100 100 100 <b>Amps</b> 600	kAIC 22 22 22 22 22 22 22 22 22 22 22 22
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		General Info	rmation		(Section 1 of 1)	
Main Breaker 400 DK3400W, Vert Mi		Service Volta Bus Rating a Ground Bar: S.C. Rating:	Std. Bo	20V 3Ph 4W Juminum olted Aluminum, Al or C .C. Fully Rated	Enclosure: Type 1 Neutral Rating: 400A Cu cable	
Neutral	0 2	Main Device Main Termin Neutral Term Box Catalog Trim:	als: Mecha ninals: Mecha No.: EZB20		nil (Cu/AI)	72S)
3 BAB1020 BAB102 5 BAB1020 BAB102			Surface	e Mounted	× ×	,
3         BAB1020         BAB102           7         BAB1020         BAB102           9         BAB1020         BAB102           11         BAB1020         BAB102	08 010	Box Dimens Min. Gutter S	Size: Top = 5	[1828.8mm]H x 20.00 5.5" [139.7mm] Bottom 4" [101.6mm] Right = 4		46.1mm]D
13         BAB1020         BAB102           15         BAB1020         BAB102           17         BAB1020         BAB102           19         BAB1020         BAB102	0 14 0 16 0 18		<b>neplate:</b> tic, adhesive-backu te with Black Letter		V 3Ph 4W	
21BAB1020BAB10223BAB1020BAB10225BAB1020BAB10227BlankBlank	0 22 0 24 0 26 5 28	Trim Lock: St Circuit Direct Main Circuit I	andard Lock & Key ory: Plastic Sleeve Breaker Trip Type: ` Vatts (Est.) = 242			
29BlankBlank31FDB3125FDB31233125A125A35Bus Cover1X	25 32					
Device Modifications: Ref # Description		Branch Devi Qty Pole 2 3 26 1 Main Device	es Trip 125 20	<b>Frame</b> FDB BAB	<b>Amps</b> 150 100	<b>kAIC</b> 10 10
		Qty Pole		<b>Frame</b> DK	<b>Amps</b> 400	<b>kAIC</b> 10
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be used for the purpose in which it is supplied.	APPROVED BY	DATE	JOB NAME DESIGNATION	North Stoningt SBLV1-1	on Schools	
	VER		TYPE		DRAWING TYPE	
NEG-ALT Number	1.0.1 REVISION	0.22 DWG SIZE	PRL3a		Customer Approval	SHEET
V0880216X8K1-0006		A	o.o.		· · · <b>-</b> · · · · · · · · · · · · · · · · · · ·	1 of 1

_					General Info	rmation			(Section 1 of	1)	
	Γ	Main Brea EDB3125,		ון	Service Volta Bus Rating & Ground Bar: S.C. Rating:	Type:	208Y/120V 3 225A Aluminu Std. Bolted Al 10k A.I.C. Ful	m uminum, Al or (	Enclosure: Neutral Rating: Cu cable	Type 1 225A	
	1 3 7 9 11 13 15 17 19 21 23 25 27 29	BAB1020 BAB1020 BAB1020 BAB1020 BAB1020 BAB1020 BAB1020 BAB1020	BAB1020 Cover	2 4 6 8 10 12 14 16 18 20 22 24 26 28 30	Color: Whit UL Trim Lock: Sta Circuit Directo	als: inials: No.: No.: Size: tic, adhes e with Bla andard Lco pry: Plasti Breaker Tr Vatts (Est.	Mechanical - ( Mechanical - ( EZB2042R EZ Trim, Door Surface Mour 42.00" [1066.4 Top = 5.5" [13 Left = 6.0" [15 ive-backed ick Letters ck & Key (Keye c Sleeve with C ip Type: Therma ) = 67	ted 3mm]H x 20.00 9.7mm] Botton 2.4mm] Right (1) FPBSBL (2) 208Y/120 (3) ***Non-Inter d WEM2) ard	AI) il (Cu/AI) ealed Hardware ( " [508.0mm]W x + n = 5.5" [139.7mn = 6.0" [152.4mm] <b>V1-1</b>	5.75" [146.1 ]	mm]D
Ref #	Modific	ations: Description			Branch Devia Qty Pole 23 1 2 3 1 1 Main Devices Qty Pole 1 3	es Trip 20 20 15 s	BA BA BA	∖B ∖B ame	<b>Amps</b> 100 100 100 <b>Amps</b> 225	<b>kA</b> 10 10 10 <b>kA</b> 10	
Notes:											
created b disclosed	y Eaton ( d in confi for the pu	n this document is Corporation. It is dence and it is only to rpose in which it is	APPROVED BY	VERSION	DATE 6/26/2018 DATE	Eaton JOB NAME DESIGNATIO TYPE	ÐN	North Stoning FPBSBLV1-1	ton Schools		
				1.0.0.22		PRL1a			Customer Approva	al	
NEG-ALT Nu	umber		REVISION			G.O.			ITEM		SHEET
1/088021678	8K1-0006		0		A						1 of 1

	General Information		(Section 1 of 1)	
Main Breaker 60 BAB3060HS	Service Voltage: Bus Rating & Type: Ground Bar: S.C. Rating:	208Y/120V 3Ph 4W 100A Aluminum Std. Bolted Aluminum, Al or 10k A.I.C. Fully Rated		
1       BAB1020       BAB1020       2         3       BAB1020       BAB1020       4         5       BAB1020       BAB1020       6         7       BAB1020       BAB1020       8         9       BAB1020       BAB1020       10         11       BAB1020       BAB1020       12         13       BAB1020       BAB1020       14         15       BAB1020       BAB1020       16         17       BAB1020       BAB1020       16         17       BAB1020       BAB1020       12         13       BAB1020       BAB1020       16         17       BAB1020       BAB1020       16         17       BAB1020       BAB1020       20         21       PROV       PROV       22         23       PROV       PROV       24         25       PROV       PROV       28         29       PROV       PROV       30         11       BAB1020       16       16         13       BAB1020       30       24         25       PROV       PROV       28         29       PROV       PROV </th <th>Circuit Directory: Plast</th> <th>ack Letters (3) ****Non-Inter ock &amp; Key (Keyed WEM2) ic Sleeve with Card rip Type: Thermal-Magnetic. .) = 51</th> <th>/AI) cealed Hardware (EZT: ' [508.0mm]W x 5.75"   n = 5.5" [139.7mm] = 6.0" [152.4mm]</th> <th>[146.1mm]D</th>	Circuit Directory: Plast	ack Letters (3) ****Non-Inter ock & Key (Keyed WEM2) ic Sleeve with Card rip Type: Thermal-Magnetic. .) = 51	/AI) cealed Hardware (EZT: ' [508.0mm]W x 5.75"   n = 5.5" [139.7mm] = 6.0" [152.4mm]	[146.1mm]D
Device Modifications:         Ref #       Description         Main Device Mods:         BAB Shunt Trip       *****BAB Shunt Trip, Included         Notes:	Branch Devices Qty Poles Trip 20 1 20 10 1 Main Devices Qty Poles Trip 1 3 60	BAB PROV	<b>Amps</b> 100 <b>Amps</b> 100	<b>kAIC</b> 10 <b>kAIC</b> 10
	0.476			
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			General Info	rmation			(Section 1 of	1)	
	Main Breaker 60 BAB3060HS		Service Volta Bus Rating & Ground Bar: S.C. Rating:	k Туре:	208Y/120V 3P 100A Aluminum Std. Bolted Alur 10k A.I.C. Fully	n minum, Al or C Rated		Type 1 100A	
1 3 5 7 9 11 13 15 17 19 21 23 25 27 29	BAB1020       I         BAB1020       I	3AB1020       2         3AB1020       4         3AB1020       6         3AB1020       10         3AB1020       11         3AB1020       12         3AB1020       11         3AB1020       12         3AB1020       14         3AB1020       14         3AB1020       14         3AB1020       20         PROV       22         PROV       22         PROV       24         PROV       26         PROV       28         PROV       30	Color: Whit UL Trim Lock: Sta Circuit Directo	als: inals: No.: No.: Size: heplate: tic, adhesi e with Bla andard Lo ory: Plastic Breaker Tri Vatts (Est.)	Flush Mounted 36.00" [914.4m Top = 5.5" [139 Left = 6.0" [152 ve-backed ck Letters ck & Key (Keyed : Sleeve with Car p Type: Thermal	) #8-1/0 (Cu/A ) #14-1/0 (Cu n Door, Conce m]H x 20.00" .7mm] Bottorr .4mm] Right = (1) LAB209 (2) 208Y/120 (3) ****Non-Intere WEM2) rd	AI) /AI) ealed Hardware ( [508.0mm]W x 5. 1 = 5.5" [139.7mn = 6.0" [152.4mm]	75" [146.1mn 1]	n]D
Device Modifi Ref # Main Device N BAB Shunt Trip	Description Iods:	Trip, Included	Branch Devia Qty Pole 20 1 10 1 Main Devices Qty Pole 1 3	es Trip 20	Frai BAE PRC Frai BAE	3 DV me	<b>Amps</b> 100 <b>Amps</b> 100	<b>kAIC</b> 10 <b>kAIC</b> 10	
	on this document is Corporation. It is	PREPARED BY	DATE	Eaton					
disclosed in conf	idence and it is only to urpose in which it is	SEAN GOVEY APPROVED BY VERS 100	DATE	JOB NAME DESIGNATIO TYPE	N	North Stoningt LAB209	DRAWING TYPE		
NEG-ALT Number		1.0.0 REVISION	DWG SIZE	PRL1a			Customer Approva	II I	SHEET
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- 30002 TOXOR 1-0000		Ť	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~				L	I	

General Information       (Section 1 of 1)         Main Breaker 60       Service Voltage: BAB3060HS       208Y/120V 3Ph 4W       Enclosure: 100A Aluminum       Type 1         Main Breaker 60       Service Voltage: BAB3060HS       Control of 1       Neutral Rating: 100A         1       BAB1020       BAB1020       2         3       BAB1020       BAB1020       4	
Main Breaker 60       Bus Rating & Type:       100A Aluminum       Neutral Rating:       100A         BAB3060HS       BAB3060HS       BAB3060HS       Std. Bolted Aluminum, Al or Cu cable         1       BAB1020       BAB1020       Page 2         3       BAB1020       BAB1020       4	
1       BAB1020       BAB1020       2         3       BAB1020       BAB1020       4             Main Terminals:       Mechanical - (1) #8-1/0 (Cu/Al)         Mechanical - (1) #14-1/0 (Cu/Al)       Mechanical - (1) #14-1/0 (Cu/Al)         Box Catalog No.:       EZB2036R         Trim:       EZ Trim, Door in Door, Concealed Hardware (EZT203)	
5       BAB1020       BAB1020       6         7       BAB1020       BAB1020       8         9       BAB1020       BAB1020       10         11       BAB1020       BAB1020       10         11       BAB1020       BAB1020       10         13       BAB1020       BAB1020       14         15       BAB1020       BAB1020       14         15       BAB1020       BAB1020       16         17       BAB1020       BAB1020       16         17       BAB1020       BAB1020       16         19       BAB1020       BAB1020       16         19       BAB1020       BAB1020       20         21       PROV       PROV       22         23       PROV       PROV       24         25       PROV       PROV       26         27       PROV       PROV       28         29       PROV       PROV	6.1mm]D
Device Modifications:       Ref # Description         Main Device Mods:       BAB Shunt Trip, Included         BAB Shunt Trip       ****BAB Shunt Trip, Included         Main Devices       Cty Poles Trip         Q0       1       20         BAB Shunt Trip       ****BAB Shunt Trip, Included         Main Devices       Cty Poles Trip         Qty Poles Trip       Frame         Amps         1       3         60       BAB-H         100         Notes:	<b>KAIC</b> 10 <b>KAIC</b> 10
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disclosed in confidence and it is only to be used for the purpose in which it is     Date     North Stonington Schools	
supplied.         DESIGNATION         LAB211           VERSION         TYPE         DRAWING TYPE	
VERSION     TYPE     DRAWING TYPE       1.0.0.22     PRL1a     Customer Approval	
LUVICE LINER DUSING DUSING ADDIVA	SHEET
NEG-ALT Number         REVISION         DWG SIZE         G.O.         ITEM	1 of 1

Main Lugs Only		General Information	1	(Section 1 of	3)
225A 1QBHW2040_QBHW2030	02	Service Voltage: Bus Rating & Type: Ground Bar: S.C. Rating:	208Y/120V 3Ph 4W 225A Aluminum Std. Bolted Aluminum, Al 22k A.I.C. Fully Rated	Enclosure: Neutral Rating: or Cu cable	Type 1 225A
5         QBHW2030         QBHW1020           7         QBHW1020         QBHW1020           9         QBHW1020         QBHW1020           11         QBHW1020         QBHW1020           13         QBHW1020         QBHW1020           15         QBHW1020         QBHW1020           17         QBHW1020         QBHW1020           19         QBHW1020         QBHW1020           21         QBHW1020         QBHW1020           21         QBHW1020         QBHW1020           21         QBHW1020         QBHW1020	0     8       0     10       0     12       0     14       0     18       0     20       0     22	Main Device Type: Main Terminals: Neutral Terminals: Through-Feed Lugs Box Catalog No.: Trim:	Main Lugs Only - Top Cal Mechanical - (1) #6-300 k Mechanical - (1) #6-300 k	ccmil (Cu/Al) ccmil (Cu/Al) ccmil (Cu/Al)	EZT2060S)
23         QBHW1020         QBHW1020           25         QBHW1020         QBHW1020           27         QBHW1020         QBHW1020           29         QBHW1020         QBHW1020           Bus         Support	026 026 030	Box Dimensions: Min. Gutter Size:	60.00" [1524.0mm]H x 20 Top = 5.5" [139.7mm] Boi Left = 6.0" [152.4mm] Rig	ttom = 5.5" [139.7mm	
31         QBHW1020         QBHW1020           33         QBHW1020         QBHW1020           35         QBHW1020         QBHW1020           37         QBHW1020         QBHW1020           39         QBHW1020         QBHW1020	0 34 0 36 0 38	Panel ID Nameplate Type: Plastic, adh Color: White with E	esive-backed (2) 208Y/	120V 3Ph 4W	
41       QBHW1020       QBHW1020         43       QBHW1020       QBHW1020         45       QBHW1020       QBHW1020         47       QBHW1020       QBHW1020         49       QBHW1020       QBHW1020         51       QBHW1020       QBHW1020         53       QBHW1020       QBHW1020         57       QBHW1020       QBHW1020         59       QBHW1020       QBHW1020         50       Blank Cover       Sinabas	0 44 0 46 0 50 0 52 0 54 0 56 0 56 0 56 0 60	UL Trim Lock: Standard Circuit Directory: Plas Heat Loss - Watts (E: Weight - Ibs (Est.) = 2	Lock & Key (Keyed WEM2) stic Sleeve with Card st.) = 117	terchangeable Mair	1 Device***
5 inches					
Device Modifications:		Branch DevicesQtyPolesTri2230541201240	p Frame QBHW QBHW QBHW	<b>Amps</b> 100 100 100	<b>kAIC</b> 22 22 22 22
Device Modifications: Ref # Description		Qty         Poles         Tri           2         2         30           54         1         20	QBHW QBHW	100 100	22 22
Device Modifications: Ref # Description	PREPARED BY	Qty         Poles         Tri           2         2         30           54         1         20	QBHW QBHW	100 100	22 22
Device Modifications: Ref # Description	PREPARED BY SEAN GOVEY	Qty         Poles         Tri           2         2         30           54         1         20           1         2         40	QBHW QBHW QBHW	100 100	22 22
Device Modifications: Ref # Description	SEAN GOVEY	Oty         Poles         Tri           2         2         30           54         1         20           1         2         40	QBHW QBHW QBHW	100 100 100	22 22
Device Modifications: Ref # Description		Qty         Poles         Tri           2         2         30           54         1         20           1         2         40	QBHW QBHW QBHW	100 100	22 22
Device Modifications:	SEAN GOVEY	Oty         Poles         Tri           2         2         30           54         1         20           1         2         40	QBHW QBHW QBHW	100 100 100	22 22
Device Modifications: Ref # Description  lotes:  re information on this document is reated by Eaton Corporation. It is sclosed in confidence and it is only to be used for the purpose in which it is	SEAN GOVEY APPROVED BY VER	Qty         Poles         Tri           2         2         30           54         1         20           1         2         40           1         2         40	QBHW QBHW QBHW	100 100 100 100 nington Schools	22 22 22
Device Modifications: Ref # Description	SEAN GOVEY APPROVED BY VER	Oty         Poles         Tri           2         2         30           54         1         20           1         2         40	QBHW QBHW QBHW	100 100 100	22 22 22

		General Informa	ation	(Se	ection 2 of 3)	
Blank Cover 5 inches Through-Feed Lug	s	Service Voltage Bus Rating & Ty Ground Bar: S.C. Rating:	ype: 225A Aluminu	ım <b>Ne</b> ı uminum, Al or Cu c	closure: Typ utral Rating: 225 able	
61         QBHW1020         QBHW1020           63         QBHW1020         QBHW1020           65         QBHW1020         QBHW1020           67         QBHW1020         QBHW1020           69         QBHW1020         QBHW1020           71         QBHW2020         QBHW1020           73         QBHW1020         QBHW1020	0 64 0 66 0 70 0 72 0 74	Main Device Ty Main Terminals Neutral Termina Through-Feed I Box Catalog No Trim:	: Mechanical - als: Mechanical - Lugs: Mechanical - EZB2060R	nly - Bottom Cable E (1) #6-300 kcmil (C (1) #6-300 kcmil (C (1) #6-300 kcmil (C r in Door, Conceale	u/Al) u/Al) u/Al)	-2060S)
75         QBHW1020         QBHW1020           77         QBHW1020         QBHW2020           79         QBHW1020         QBHW1020           81         QBHW2020         QBHW1020           83         QBHW1020         QBHW1020           85         QBHW1020         QBHW1020	078 80 082 084	Box Dimension Min. Gutter Size	e: Top = 5.5" [13	nted 0mm]H x 20.00" [50 39.7mm] Bottom = 5 52.4mm] Right = 6.0	5.5" [139.7mm]	" [146.1mm]D
87         QBHW1020         QBHW1020           89         QBHW1020         QBHW1020           Bus         Support           91         QBHW1020         QBHW1020	0 88 0 90 0 92		-	(1) LV1-1 (sec 2) (2) 208Y/120V 3 (3)		
93QBHW1020_QBHW1020 95QBHW1020_QBHW1020 97QBHW1020_QBHW1020	96 96	UL		***Non-Intercha	ngeable Main De	evice***
99         QBHW1020         QBHW1021           101         QBHW1020         QBHW1021           103         QBHW1020         QBHW1021           105         QBHW1020         QBHW1021           107         QBHW2020         QBHW1021           109         QBHW1020         QBHW1021           111         QBHGFEP102         QBHW1021           113         QBHW1020         QBHW1020           114         QBHW1020         QBHW1020           115         QBHW1020         QBHW1020           117         QBHW1020         QBHW1020           119         QBHW1020         QBHW1020           Main Lugs Only         225A	0 102 0 104 0 106 0 106 0 110 0 112 0 114 0 116 0 118		· · ·			
Device Modifications: Ref # Description		Branch Devices Qty Poles 51 1 4 2 1 1	Trip         Fi           20         Q           20         Q	BHW BHW	<b>Amps</b> 100 100 100	<b>kAIC</b> 22 22 22
		Qty         Poles           51         1           4         2	Trip         Fi           20         Q           20         Q	BHW BHW	100 100	22 22
Ref # Description		Qty         Poles           51         1           4         2           1         1	Trip         Fi           20         Q           20         Q	BHW BHW	100 100	22 22
Ref #       Description         Notes:	PREPARED BY SEAN GOVEY	Qty         Poles           51         1           4         2           1         1	Trip         Fi           20         Q           20         Q           20         Q	BHW BHW	100 100	22 22
Ref #       Description         Notes:	PREPARED BY SEAN GOVEY APPROVED BY	Qty         Poles           51         1           4         2           1         1	Trip         Fi           20         Q           20         Q	BHW BHW BHGFEP		22 22
Ref #     Description	SEAN GOVEY	Qty         Poles           51         1           4         2           1         1	Trip         Fi           20         Q           20         Q           20         Q	BHW BHW		22 22
Ref # Description	SEAN GOVEY	Qty         Poles           51         1           4         2           1         1	Trip         Fi           20         Q           20         Q           20         Q           20         Q           20         Q           30         Q	BHW BHW BHGFEP North Stonington S LV1-1		22 22
Ref #       Description         Notes:	SEAN GOVEY APPROVED BY	Qty         Poles           51         1           4         2           1         1             1         1             A         2             1         1             A         2             1         1             A         2             A         2             A         2             A         2             A         2             A         2             A         2             A         2             A         2             A         A             A         A             B         A             B         A             B         A             B         A             B         B             B         B             B         B             B         B             B         B             B         B             B	Trip         Fi           20         Q           20         Q           20         Q           20         Q           20         Q           aton         SIGNATION           PE         L1a	BHW BHW BHGFEP North Stonington S LV1-1	100 100 100 100 chools wing type stomer Approval	22 22

		General Informati	on		(Section 3 of	3)
Main Lugs Only           225A           121         QBHW2020         QBHW2020           123	124	Service Voltage: Bus Rating & Typ Ground Bar: S.C. Rating:		um Juminum, Al or C	Enclosure: Neutral Rating: Cu cable	Type 1 225A
125         QBHW1020         QBHW1020           127         QBHW2020         QBHW1020           129         QBHW1020         QBHW1020           131         QBHW1020         QBHW1020           133         QBHW1020         QBHW1020           134         QBHW1020         QBHW1020           135         QBHW2020         QBHW1020           137         QBHW1020         QBHW1020           139         QBHW1020         QBHW1020	128 130 132 134 136 138	Main Device Type Main Terminals: Neutral Terminals Box Catalog No.: Trim:	Mechanical - Mechanical - EZB2060R EZ Trim, Doo		I (Cu/AI)	EZT2060S)
141         QBHW1020         QBHW1020           143         QBHW1020         QBHW1020           145         QBHW1020         QBHW1020           147         QBHW1020         QBHW1020	142 144 146 148	Box Dimensions: Min. Gutter Size:	Top = 5.5" [1	.0mm]H x 20.00 39.7mm] Bottom	= 5.5" [139.7mm	
149         QBHW1020         QBHW1020           Bus Support           151         QBHW1020         QBHW1020           153         QBHW1020         QBHW1020           155         QBHW1020         QBHW1020           155         QBHW1020         QBHW1020           157         QBHW1020         QBHW1020	152 154 156	Panel ID Namepla Type: Plastic, a Color: White with	ite: dhesive-backed	52.4mm] Right = (1) LV1-1 (se (2) 208Y/120 (3)	,	
159 QBHW1020 QBHW1020	160	UL		***Non-Intere	changeable Maiı	n Device***
161         QBHW1020         QBHW1020           163         QBHW1020         QBHW1020           165         QBHW1020         QBHW1020           167         QBHW1020         QBHW1020           169         QBHW1020         QBHW1020           171         QBHW1020         QBHW1020           173         QBHW1020         QBHW1020           175         QBHW1020         QBHW1020           177         QBHW1020         QBHW1020           179         PROV         PROV           Blank Cover         9 inches	164 166 170 172 174 174	Trim Lock: Standau Circuit Directory: P Heat Loss - Watts Weight - Ibs (Est.)	lastic Sleeve with ( (Est.) = 117			
Device Modifications: Ref # Description		4 2 2	20 G 20 G	rame BBHW BBHW ROV	<b>Amps</b> 100 100	<b>kAIC</b> 22 22
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lotes:						
ne information on this document is	PREPARED BY	DATE				
he information on this document is reated by Eaton Corporation. It is isclosed in confidence and it is only to	SEAN GOVEY	6/26/2018 <b>Eat</b>		Nada Otaci - 1		
he information on this document is reated by Eaton Corporation. It is isclosed in confidence and it is only to e used for the purpose in which it is		6/26/2018 <b>Eat</b>	AME	North Stoningt	on Schools	
he information on this document is reated by Eaton Corporation. It is isclosed in confidence and it is only to e used for the purpose in which it is	SEAN GOVEY	6/26/2018 Eat		North Stoningt LV1-1	on Schools DRAWING TYPE	
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		General Info	rmation		(Section 1 of 2	2)
Main Lugs Only 400A		Service Volta Bus Rating & Ground Bar: S.C. Rating:	<b>Type:</b> 400/ Std.	Y/120V 3Ph 4W A Aluminum Bolted Aluminum, Al A.I.C. Fully Rated	Neutral Rating: 4	⊽ype 1 00A
5BAB3060H 911 13BAB3050H 15 17 19BAB1020 BAB1020 21BAB1020 BAB1020 23BAB1020 BAB1020	10 12	Main Device Main Termin Neutral Term Through-Fee Box Catalog Trim:	als: Mec binals: Mec od Lugs: Mec No.: EZB EZ 1	n Lugs Only - Top Cat hanical - (2) #4-500 k hanical - (2) #4-500 k hanical - (2) #4-500 k 2072R Frim, Door in Door, Co ace Mounted	ccmil (Cu/Al) ccmil (Cu/Al)	ZT2072S)
25BAB1020BAB102027BAB1020BAB102029BAB1020BAB1020Bus Support	26 28	Box Dimensi Min. Gutter S	Size: Top		0.00" [508.0mm]W x 5. tom = 5.5" [139.7mm] ht = 6.0" [152.4mm]	
31         BAB1020         BAB1020           33         BAB1020         BAB1020           35         BAB1020         BAB1020           37         BAB1020         BAB1020           39         BAB1020         BAB1020	32 34 36 38 40		<b>neplate:</b> tic, adhesive-ba æ with Black Let	( )	120V 3Ph 4W	
41 BAB1020 BAB1020	42	UL		***Non-In	terchangeable Main	Device***
43       BAB1020       BAB1020         45       BAB1020       BAB1020         47       BAB1020       BAB1020         49       BAB1020       BAB1020         51       BAB1020       BAB1020         55       BAB1020       BAB1020         56       BAB1020       BAB1020         57       BAB1020       BAB1020         59       BAB1020       BAB1020         Through-Feed Lugs         Blank Cover 3 inches		Circuit Directo	ory: Plastic Slee Vatts (Est.) = 25			
Device Modifications: Ref # Description		Branch Devi           Qty         Pole           1         3           42         1           3         3           1         3           1         3		Frame BAB BAB BAB BAB	<b>Amps</b> 100 100 100 100 100 100	<b>kAIC</b> 10 10 10 10 10
Notes:						
The information on this document is	PREPARED BY	DATE				
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disclosed in confidence and it is only to be used for the purpose in which it is	APPROVED BY	DATE	JOB NAME	North Stor	ington Schools	
supplied.			DESIGNATION	LV1-2	-	
	VER	SION	TYPE		DRAWING TYPE	
		0.22	PRL1a		Customer Approval	
NEG-ALT Number	REVISION	DWG SIZE	G.O.		ITEM	SHEET
V0880216X8K1-0006	0	A				1 of 1

		General Informatio	n	(Section 2 d	of 2)
Blank Cover 12 inches Blank Cover	$\left  \right $	Service Voltage: Bus Rating & Type Ground Bar: S.C. Rating:		4W Enclosure: Neutral Rating	Type 1
61         BAB2020         BAB1020           63         BAB1020         BAB1020           65         BAB1020         BAB1020           67         BAB1020         BAB1020           69         BAB1020         BAB1020           71         BAB1020         BAB1020           73         BAB1020         BAB1020	62 64 66 68 70 72 74	Main Device Type: Main Terminals: Neutral Terminals: Box Catalog No.: Trim:	Mechanical - (2) Mechanical - (2) EZB2072R	- Bottom Cable Entry #4-500 kcmil (Cu/Al) #4-500 kcmil (Cu/Al) Door, Concealed Hardware	e (EZT2072S)
75         BAB1020         BAB1020           77         BAB1020         BAB1020           79         BAB1020         BAB1020           81         BAB1020         BAB1020           83         BAB1020         BAB1020	76 78 80 82 84	Box Dimensions: Min. Gutter Size:	Top = 5.5" [139.	d m]H x 20.00" [508.0mm]W > 7mm] Bottom = 5.5" [139.7m 4mm] Right = 6.0" [152.4mm	ım]
85BAB1020BAB1020 87BAB1020BAB1020 89BAB1020BAB1020 Bus Support	86 88 90	Panel ID Nameplat Type: Plastic, adl Color: White with	e: nesive-backed	(1) LV1-2 (sec 2) (2) 208Y/120V 3Ph 4W (3)	1
91 BAB1020 BAB1020 93 BAB1020 BAB1020	92 94	UL	,	***Non-Interchangeable Ma	ain Device***
95         BAB1020         BAB1020           97         BAB1020         BAB1020           99         BAB1020         BAB1020           101         BAB1020         BAB1020           103         BAB1020         BAB1020           105         BAB1020         BAB1020           107         BAB1020         BAB1020           109         BAB1020         BAB1020           111         BAB1020         BAB1020           113         BAB1020         BAB1020           114         BAB1020         BAB1020           115         BAB1020         BAB1020           116         BAB1020         BAB1020           117         BAB1020         BAB1020           119         BAB1020         BAB1020           Main Lugs Only         400A	96 96 100 102 104 106 108 110 111 116 116 118				
Device Modifications: Ref # Description		Branch Devices Qty Poles Tr 1 2 20 58 1 20		ne Amps 100 100	<b>KAIC</b> 10 10
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The information on this decourse the	PREPARED BY	DATE			
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disclosed in confidence and it is only to	SEAN GOVEY				
be used for the purpose in which it is	APPROVED BY	DATE JOB NA		North Stonington Schools	
supplied.		DESIGN	ATION	LV1-2	
		SION TYPE		DRAWING TYPE	
		0.22 PRL1a		Customer Appro	val
NEG-ALT Number	REVISION	DWG SIZE G.O.		ITEM	SHEET
V0880216X8K1-0006	0	A			1 of 1
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1 B 3 B 5 B 7 B 9 B 11 B 13 B 15 B 17 B 19 B 21 B	Main Lugs Only 225A           AB1020         BAB1020	2 4 6 8 10 12 14		General Info Service Volta Bus Rating & Ground Bar: S.C. Rating: Main Device Main Termin. Neutral Term	age: & Type: Type:	10k A.I.C. Ful	Ph 4W m opper, Cu cable ly Rated ly - Top Cable E	Neutral Rating: only	Туре 1
1 B 3 B 5 B 7 B 9 B 11 B 13 B 15 B 17 B 19 B 21 B	225A AB1020 BAB1020 AB1020 BAB1020 AB1020 BAB1020 AB1020 BAB1020 AB1020 BAB1020 AB1020 BAB1020 AB1020 BAB1020 AB1020 BAB1020 AB1020 BAB1020	2 4 6 8 10 12 14		Bus Rating & Ground Bar: S.C. Rating: Main Device Main Termina	Type:	225A Aluminu Std. Bolted Co 10k A.I.C. Ful Main Lugs Or	m opper, Cu cable ly Rated ly - Top Cable E	Neutral Rating: only	
5 B. 7 B 9 B. 11 B. 13 B. 15 B. 17 B. 19 B. 19 B. 21 B.	AB1020BAB1020AB1020BAB1020AB1020BAB1020AB1020BAB1020AB1020BAB1020AB1020BAB1020AB1020BAB1020AB1020BAB1020AB1020BAB1020	6 8 10 12 14		Main Termin					
21 B.		18 18 20		Sub-Feed Br Box Catalog Trim:	eaker:	Mechanical - Mechanical - EZB2060R	(1) #6-300 kcmi (1) #4-4/0 (Cu/A	(Cu/Al)	EZT2060F)
25 B. 27 B.	AB1020BAB1020AB1020BAB1020AB1020BAB1020AB1020BAB1020AB1020BAB1020AB1020BAB1020	22 24 26 28		Box Dimensi Min. Gutter S		Top = 5.5" [13	0mm]H x 20.00' 9.7mm] Bottom	[508.0mm]W x 5 = 5.5" [139.7mm 6.0" [152.4mm]	5.75" [146.1mm]D ı]
	Bus Support AB1020 BAB1020 AB2020 BAB1020 BAB1020	32 34 36		Panel ID Nan Type: Plas Color: Whit	tic, adhes	ive-backed ick Letters	(1) LV1-3 (2) 208Y/120 (3)	/ 3Ph 4W	
37     B       33     B       41     B       43     B       45     B       47     B       51     B       53     B       57     B       57     B       59	AB1020         BAB1020           AB1020         PROV           PROV         PROV           PROV         PROV           Jb-Feed Breaker 125A           EDB3125	38 40 42 44 46 48 50 52 54 56 56 56 56	-		ory: Plastic Vatts (Est.		d WEM2)	hangeable Mair	n Device***
Device Modific Ref #	cations: Description			Branch Devi Qty Pole 55 1 1 2 3 1 Sub-Feed De Qty Pole 1 3	es Trip 20 20 evices	BA BA PF	AB ROV ame	<b>Amps</b> 100 100 <b>Amps</b> 225	<b>KAIC</b> 10 10 <b>KAIC</b> 10
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	n this document is			DATE					
	on this document is	PREPARED BY	•	DATE	Eaton				
created by Eaton	Corporation. It is	SEAN GOVEY		6/26/2018	Eaton				
created by Eaton disclosed in confi					Eaton JOB NAME		North Stoningto	on Schools	
created by Eaton disclosed in confi	Corporation. It is idence and it is only to	SEAN GOVEY		6/26/2018		DN	North Stoningto	on Schools	
created by Eaton disclosed in confi be used for the pu	Corporation. It is idence and it is only to	SEAN GOVEY	VERSION	6/26/2018	JOB NAME DESIGNATIC	DN	-		
created by Eaton disclosed in confi be used for the pu	Corporation. It is idence and it is only to	SEAN GOVEY APPROVED BY	VERSION	6/26/2018	JOB NAME DESIGNATIC TYPE	DN	-	DRAWING TYPE	
created by Eaton disclosed in confi be used for the pu supplied.	Corporation. It is idence and it is only to	SEAN GOVEY APPROVED BY	VERSION 1.0.0.22	6/26/2018 DATE	JOB NAME DESIGNATIC TYPE PRL1a	DN	-	DRAWING TYPE Customer Approva	
created by Eaton disclosed in confi be used for the pu	Corporation. It is idence and it is only to	SEAN GOVEY APPROVED BY		6/26/2018	JOB NAME DESIGNATIC TYPE PRL1a	DN	-	DRAWING TYPE	I SHEET

			1				
			General Info	rmation		(Section 1 of	1)
	Main Lugs Only 125A		Service Volt Bus Rating Ground Bar S.C. Rating:	& Type: 225 : Std.	Y/120V 3Ph 4W A Aluminum . Bolted Aluminum, Al o A.I.C. Fully Rated	Enclosure: Neutral Rating: r Cu cable	Type 1 225A
13 57 9 11	BAB1020         BAB1020	2 4 6 8 10 12	Main Device Main Termir Neutral Term Box Catalog Trim:	nals: Mee ninals: Mee g No.: EZE	n Lugs Only - Top Cabl chanical - (1) #6-300 kc chanical - (1) #6-300 kc 32048R Trim, Door in Door, Cor	mil (Cu/Al) mil (Cu/Al)	EZT2048S)
13 15	BAB1020 BAB1020	14		Sur	face Mounted		
15 17 19 21	BAB1020         BAB1020           BAB1020         BAB1020           BAB1020         BAB1020           BAB1020         BAB1020           BAB1020         BAB1020	16 18 20 22	Box Dimens Min. Gutter	Size: Top	00" [1219.2mm]H x 20. = 5.5" [139.7mm] Botto : = 6.0" [152.4mm] Righ	om = 5.5" [139.7mn	י - ז
23 25 27	BAB1020BAB1020BAB1020BAB1020BAB1020BAB1020	24 26 28			(1) LV1-4 acked (2) 208Y/1	20V 3Ph 4W	
29	BAB1020 BAB1020 Bus Support	30	UL		***Non-Int	erchangeable Mai	n Device***
31 33 35 37 39 41 43 45 47 49 51 53	BAB1020         BAB1020           BAB1020         BAB1020           BAB1020         BAB1020           BAB1020         BAB1020           BAB3015H         BAB3015H           PROV         PROV           PROV         PROV           PROV         PROV           PROV         PROV           PROV         PROV           PROV         PROV           PROV         PROV	34 36 38	Circuit Direct	tory: Plastic Slee Watts (Est.) = 68			
Device Mo Ref #	difications: Description		Branch Dev           Qty         Pol           2         3           38         1           10         1		Frame BAB BAB PROV	<b>Amps</b> 100 100	<b>kAIC</b> 10 10
Notes:							
	on on this document is	PREPARED BY	DATE				
	ton Corporation. It is onfidence and it is only to	SEAN GOVEY		Eaton			
	e purpose in which it is	APPROVED BY	DATE		North Stonir LV1-4	ngton Schools	
			ERSION	DESIGNATION TYPE	LV 1-4	DRAWING TYPE	
			.0.0.22	PRL1a		Customer Approva	
NEG-ALT Number		REVISION	DWG SIZE	G.O.		ITEM	SHEET
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1       BAB3060H       BAB3060H       2         3       4       6         5       6         7       BAB2020       BAB1020       8         9       BAB1020       10         11       BAB1020       10         13       BAB1020       14         15       BAB1020       14         15       BAB1020       14         15       BAB1020       14         16       17       BAB1020       14         19       BAB1020       16         19       BAB1020       24         26       BAB1020       24         27       BAB1020       24         28       BAB1020       26         29       BAB1020       26         29       BAB1020       26         29       BAB1020       26         29       BAB1020       36	etters (3) ***Non-Interchangeable Main Device* Key (Keyed WEM2) eve with Card	6.1mm]D
400A       Service Voltage:       2087/         1       BAB3060H       BAB3060H       2         3       6       6         7       BAB2020       BAB1020       10         11       BAB1020       10       10         12       BAB1020       BAB1020       10         13       BAB1020       BAB1020       14         14       BAB1020       BAB1020       14         15       BAB1020       BAB1020       14         16       BAB1020       BAB1020       14         17       BAB1020       BAB1020       14         18       BAB1020       BAB1020       22         23       BAB1020       BAB1020       24         24       BAB1020       BAB1020       24         27       BAB1020       BAB1020       24         28       BAB1020       BAB1020       34         39       BAB1020       BAB1020       34         31       BAB1020       BAB1020       34         32       BAB1020       BAB1020       34         34       BAB1020       BAB1020       34         36       BAB1020	Neutral Rating: 400A           DA Aluminum         Neutral Rating: 400A           d. Bolted Aluminum, Al or Cu cable           k A.I.C. Fully Rated           thin Lugs Only - Top Cable Entry           echanical - (2) #4-500 kcmil (Cu/Al)           sechanical - (2) #4-500 kcmil (Cu/Al)           sechanical - (2) #4-500 kcmil (Cu/Al)           sechanical - (2) #4-500 kcmil (Cu/Al)           B2072R           Trim, Door in Door, Concealed Hardware (EZT2072:           rface Mounted           .00" [1828.8mm]H x 20.00" [508.0mm]W x 5.75" [146           p = 5.5" [139.7mm] Bottom = 5.5" [139.7mm]           ft = 6.0" [152.4mm] Right = 6.0" [152.4mm]           (1) LV2-1           wacked         (2) 208Y/120V 3Ph 4W           etters         (3)           ***Non-Interchangeable Main Device*           Key (Keyed WEM2)           evev with Card	6.1mm]D
7       BAB2020       BAB1020       8         9       BAB1020       10         11       BAB1020       BAB1020       10         12       BAB1020       BAB1020       14         13       BAB1020       BAB1020       14         15       BAB1020       BAB1020       14         15       BAB1020       BAB1020       14         16       BAB1020       BAB1020       14         17       BAB1020       BAB1020       14         18       BAB1020       BAB1020       22         23       BAB1020       BAB1020       24         24       BAB1020       BAB1020       24         25       BAB1020       BAB1020       24         26       BAB1020       BAB1020       24         27       BAB1020       BAB1020       24         33       BAB1020       BAB1020       34         34       BAB1020       BAB1020       34         35       BAB1020       BAB1020       34         36       BAB1020       BAB1020       34         37       BAB1020       BAB1020       34         38       BAB	echanical - (2) #4-500 kcmil (Cu/Al)         echanical - (2) #4-500 kcmil (Cu/Al)         echanical - (2) #4-500 kcmil (Cu/Al)         B2072R         Trim, Door in Door, Concealed Hardware (EZT2072:         rface Mounted         .00" [1828.8mm]H x 20.00" [508.0mm]W x 5.75" [146         p = 5.5" [139.7mm] Bottom = 5.5" [139.7mm]         ft = 6.0" [152.4mm] Right = 6.0" [152.4mm]         .00         .00         .01         LV2-1         .02         .03         ***Non-Interchangeable Main Device*	6.1mm]D
29       BAB1020       BAB1020       3d         Bus Support       3d       BAB1020       QBGFEP1020       3d         31       BAB1020       BAB1020       3d       BAB1020       3d         35       BAB1020       BAB1020       3d       BAB1020       3d         36       BAB1020       BAB1020       3d       Gold and an and an and an and an and an and and	p = 5.5" [139.7mm] Bottom = 5.5" [139.7mm] ft = 6.0" [152.4mm] Right = 6.0" [152.4mm] (1) LV2-1 packed (2) 208Y/120V 3Ph 4W etters (3) ***Non-Interchangeable Main Device*	-
35       DAB1020       DAB1020	acked (2) 208Y/120V 3Ph 4W etters (3) ****Non-Interchangeable Main Device* Key (Keyed WEM2) eeve with Card	**
41       BAB1020       BAB1020       42         43       BAB1020       BAB1020       44         45       BAB1020       BAB1020       46         47       BAB1020       BAB1020       46         49       BAB1020       BAB1020       50         51       BAB1020       BAB1020       52         53       BAB1020       BAB1020       54         55       BAB1020       BAB1020       56         57       BAB1020       BAB1020       56         59       BAB1020       BAB1020       56         59       BAB1020       58       60         Through-Feed Lugs         Blank Cover	Key (Keyed WEM2) eve with Card	***
Device Modifications: Ref # Description Branch Devices Qty Poles Trip 51 1 20 1 1 20 2 3 60 1 2 20	BAB         100         1           QBGFEP         100         1           BAB         100         1	<b>KAIC</b> 10 10 10 10
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created by Eaton Corporation. It is disclosed in confidence and it is only to be used for the purpose in which it is     SEAN GOVEY     6/26/2018     Eaton       APPROVED BY     DATE     JOB NAME	North Stonington Schools	
created by Eaton Corporation. It is disclosed in confidence and it is only to be used for the purpose in which it is supplied. SEAN GOVEY 6/26/2018 Eaton APPROVED BY DATE DESIGNATION	LV2-1	
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created by Eaton Corporation. It is disclosed in confidence and it is only to be used for the purpose in which it is supplied.     SEAN GOVEY     6/26/2018     Eaton       APPROVED BY     DATE     JOB NAME       VERSION       VERSION	LV2-1 DRAWING TYPE	SHEET 1 of 1

		General Information		(Section 2 of	3)
Blank Cover 3 inches Through-Feed Luge	s	Service Voltage: Bus Rating & Type: Ground Bar: S.C. Rating:	208Y/120V 3Ph 4W 400A Aluminum Std. Bolted Aluminur 10k A.I.C. Fully Rate	Neutral Rating: n, Al or Cu cable	Type 1 400A
61         BAB2020         BAB1020           63         BAB1020         BAB1020           65         BAB1020         BAB1020           67         BAB1020         BAB1020           69         BAB1020         BAB1020           71         BAB1020         BAB1020           73         BAB1020         BAB1020           75         BAB1020         BAB1020	64 66 77 77 74 76	Main Device Type: Main Terminals: Neutral Terminals: Through-Feed Lugs Box Catalog No.: Trim:	EZB2072R	500 kcmil (Cu/Al) 500 kcmil (Cu/Al)	EZT2072S)
77         BAB1020         BAB1020           79         BAB1020         BAB1020           81         BAB1020         BAB1020           83         BAB1020         BAB1020           85         BAB1020         BAB1020           87         BAB1020         BAB1020	80 82 84 86	Box Dimensions: Min. Gutter Size:	72.00" [1828.8mm]H Top = 5.5" [139.7mm	l x 20.00" [508.0mm]W x ı] Bottom = 5.5" [139.7mm ı] Right = 6.0" [152.4mm]	n]
89 BAB1020 BAB1020 Bus Support 91 BAB2020 BAB1020 93 BAB2020 BAB1020	90	Panel ID Nameplate: Type: Plastic, adhe Color: White with B	esive-backed (2) 2	V2-1 (sec 2) 08Y/120V 3Ph 4W	
95         BAB1020         BAB1020           97         BAB1020         BAB1020           98         BAB1020         BAB1020           101         BAB1020         BAB1020           103         BAB1020         BAB1020           105         BAB1020         BAB1020           107         BAB1020         BAB1020           109         BAB1020         BAB1020           111         BAB1020         BAB1020           113         BAB1020         BAB1020           116         BAB1020         BAB1020           117         BAB1020         BAB1020           119         BAB1020         BAB1020           Main Lugs Only         400A	98 100 102 104 106 108 110 112 114 118	UL Trim Lock: Standard I Circuit Directory: Plas Heat Loss - Watts (Es Weight - Ibs (Est.) = 2	Lock & Key (Keyed WEN stic Sleeve with Card st.) = 252	on-Interchangeable Mai	η μενιςε
Device Modifications: Ref # Description		Branch Devices Qty Poles Trij 56 1 20 2 2 20	b Frame BAB BAB	<b>Amps</b> 100 100	<b>KAIC</b> 10 10
		<b>Qty Poles Trij</b> 56 1 20	BAB	100	10
Ref # Description		Qty         Poles         Trij           56         1         20           2         2         20	BAB	100	10
Ref #     Description       Notes:	PREPARED BY	Qty         Poles         Trip           56         1         20           2         2         20	BAB BAB	100	10
Ref #     Description       Notes:	SEAN GOVEY	Qty         Poles         Trij           56         1         20           2         2         20	BAB BAB	100 100	10
Ref #     Description       Notes:		Qty         Poles         Trij           56         1         20           2         2         20	BAB BAB	100 100	10
Ref #     Description       Notes:	SEAN GOVEY APPROVED BY	Qty         Poles         Trij           56         1         20           2         2         20	BAB BAB	100 100	10
Ref #     Description       Notes:	SEAN GOVEY APPROVED BY VERS	Qty         Poles         Trij           56         1         20           2         2         20             Date         Eaton           6/26/2018         Eaton           Date         JOB NAMI           DATE         JOB NAMI           DATE         JOB NAMI	BAB BAB	100 100 n Stonington Schools 1 DRAWING TYPE	10 10
Ref #     Description         Notes:   The information on this document is created by Eaton Corporation. It is disclosed in confidence and it is only to be used for the purpose in which it is supplied.	SEAN GOVEY APPROVED BY VERS 1.0.0	Qty         Poles         Trij           56         1         20           2         2         20             Date         Eaton           6/26/2018         Date           Date         JOB NAMI           DESIGNATION         TYPE           0.22         PRL1a	BAB BAB	100 100 100 n Stonington Schools 1 DRAWING TYPE Customer Approva	10 10
Ref #     Description       Notes:	SEAN GOVEY APPROVED BY VERS	Qty         Poles         Trij           56         1         20           2         2         20             Date         Eaton           6/26/2018         Eaton           Date         JOB NAMI           DATE         JOB NAMI           DATE         JOB NAMI	BAB BAB	100 100 n Stonington Schools 1 DRAWING TYPE	10 10

		1				
		General Infor	mation		(Section 3 of 3	3)
Main Lugs Only 400A		Service Volta Bus Rating & Ground Bar: S.C. Rating:	Type: 400/ Std.	Y/120V 3Ph 4W A Aluminum Bolted Aluminum, Al A.I.C. Fully Rated	Neutral Rating: 4	⊽pe 1 00A
BAB1020         BAB1020           127         BAB1020         BAB1020           129         BAB1020         BAB1020           131         BAB1020         BAB1020           133         BAB1020         BAB1020           135         BAB1020         BAB1020           137         BAB1020         BAB1020	126 126 130 132 132 134 136	Main Device Main Termina Neutral Term Sub-Feed Bro Box Catalog Trim:	als: Mec inals: Mec eaker: Mec No.: EZB	h Lugs Only - Top Ca hanical - (2) #4-500 k hanical - (2) #4-500 k hanical - (1) #4-4/0 (f 2072R Frim, Door in Door, Ca	ccmil (Cu/Al) ccmil (Cu/Al)	ZT2072S)
139 BAB1020 BAB1020	140		Surf	ace Mounted		
141         BAB1020         BAB1020           143         BAB1020         BAB1020           145         BAB1020         BAB1020           147         BAB1020         BAB1020           149         BAB1020         BAB1020	144 146 148	Box Dimensi Min. Gutter S	ons: 72.0 iize: Top	0" [1828.8mm]H x 20	0.00" [508.0mm]W x 5. ttom = 5.5" [139.7mm] ght = 6.0" [152.4mm]	
Bus Support 151 BAB3020H BAB3020H 155	152 154 156		<b>teplate:</b> tic, adhesive-ba e with Black Let	( )	(sec 3) 120V 3Ph 4W	
157 BAB1020 BAB1020 159 BAB1020 BAB1020		UL		***Non-Ir	nterchangeable Main	Device***
161         BAB1020         BAB1020           183         BAB1020         BAB1020           185         BAB1020         BAB1020           187         BAB1020         BAB1020           189         BAB1020         BAB1020           189         BAB1020         BAB1020           171         BAB1020         BAB1020           173         BAB1020         BAB1020           175         BAB1020         BAB1020           176         BAB1020         BAB1020           177         BAB2015         BAB1015           179         BAB1015         EDB3125	164 166 170 172 174 176 176 180	Circuit Directo	ory: Plastic Slee /atts (Est.) = 25			
Device Modifications: Ref # Description		Branch Devic           Qty         Pole           46         1           3         3           1         1           2         2           Sub-Feed De         Qty           Qty         Pole           1         3	s Trip 20 20 15 15 vices	Frame BAB BAB BAB Frame EDB	<b>Amps</b> 100 100 100 100 <b>Amps</b> 225	<b>kAIC</b> 10 10 10 10 <b>kAIC</b> 10
Notes:						
he information on this document is	PREPARED BY	DATE				
reated by Eaton Corporation. It is lise lise lise lise lise lise lise l	SEAN GOVEY	6/26/2018				
e used for the purpose in which it is upplied.	APPROVED BY			North Stor LV2-1	nington Schools	
	VE		DESIGNATION TYPE	LVZ-1	DRAWING TYPE	
			PRL1a		Customer Approval	
IEG-ALT Number	REVISION	DWG SIZE	G.O.		ITEM	SHEET
	0	A				1 of 1

Main Breaker		General Information Service Voltage: Bus Rating & Type: Ground Bar:	208Y/120V 3Ph 4W	Neutral Rating: 4	Гуре 1
	IW1020       2         IW1020       4         IW1020       6         IW1020       10         IW1020       10         IW1020       12         IW1020       14         IW1020       14         IW1020       16         IW1020       20         IW1020       22         IW1020       22         IW1020       22         IW1020       26         ROV       28         ROV       30         er 125A       5         //er       1	S.C. Rating: Main Device Type: Main Terminals: Neutral Terminals: Sub-Feed Breaker: Box Catalog No.: Trim: Box Dimensions: Min. Gutter Size: Panel ID Nameplate Type: Plastic, adh Color: White with E UL Trim Lock: Standard Circuit Directory: Plas	22k A.I.C. Fully Rated Main Breaker - Top Cable Mechanical - (1) 2/0-500 Mechanical - (2) #4-500 H Mechanical - (2) #4-600 H EZB2072R EZ Trim, Door in Door, C Surface Mounted 72.00" [1828.8mm]H x 20 Top = 5.5" [139.7mm] Bo Left = 6.0" [152.4mm] Rig : (1) SBLV esive-backed (2) 208Y/ Black Letters (3) ***Non-Ir Lock & Key (Keyed WEM2) stic Sleeve with Card Trip Type: Thermal-Magnetic st.) = 252	e Entry kcmil (Cu/Al) kcmil (Cu/Al) Cu/Al) oncealed Hardware (E 0.00" [508.0mm]W x 5. ttom = 5.5" [139.7mm] ght = 6.0" [152.4mm] 'B-1 '120V 3Ph 4W nterchangeable Main	75" [146.1mm]D
Device Modifications: Ref # Description		Branch DevicesQtyPolesTri2712031Sub-Feed DevicesQtyPolesTri1312Main DevicesQtyPolesTri1340	p Frame 5 EDB p Frame	<b>Amps</b> 100 <b>Amps</b> 225 <b>Amps</b> 400	KAIC 22 KAIC 22 KAIC 22
Device Modifications: Ref # Description		QtyPolesTri2712031Sub-Feed DevicesQtyPolesTri1312Main DevicesQtyPolesTri	QBHW PROV PROV 5 EDB p Frame	100 Amps 225 Amps	22 KAIC 22 KAIC
Device Modifications: Ref # Description		QtyPolesTri2712031Sub-Feed DevicesQtyPolesTri1312Main DevicesQtyPolesTri	QBHW PROV PROV 5 EDB p Frame	100 Amps 225 Amps	22 KAIC 22 KAIC
Device Modifications:	PREPARED BY	Qty       Poles       Tri         27       1       20         3       1       Sub-Feed Devices         Qty       Poles       Tri         1       3       12         Main Devices       Qty       Poles       Tri         1       3       40         1       3       40	QBHW PROV p 5 EDB p Frame 0 DK	100 Amps 225 Amps	22 KAIC 22 KAIC
Device Modifications: Ref # Description	PREPARED BY	Qty       Poles       Tri         27       1       20         3       1       Sub-Feed Devices         Qty       Poles       Tri         1       3       12         Main Devices       Qty       Poles       Tri         1       3       40         1       3       40	QBHW PROV p 5 EDB p Frame 0 DK	100 Amps 225 Amps	22 KAIC 22 KAIC
Device Modifications: Ref # Description	PREPARED BY SEAN GOVEY	Qty     Poles     Tri       27     1     20       3     1       Sub-Feed Devices       Qty     Poles       Ti     3     12       Main Devices     Qty     Poles       Qty     Poles     Tri       1     3     40	PROV PROV p Frame 5 EDB p Frame 0 DK	100 Amps 225 Amps	22 KAIC 22 KAIC
Device Modifications: Ref # Description	PREPARED BY	Qty       Poles       Tri         27       1       20         3       1       Sub-Feed Devices         Qty       Poles       Tri         1       3       12         Main Devices       Qty       Poles       Tri         1       3       40         1       3       40	PROV PROV p Frame 5 EDB p Frame 0 DK	100 Amps 225 Amps 400	22 KAIC 22 KAIC
Device Modifications: Ref # Description	PREPARED BY SEAN GOVEY	Qty     Poles     Tri       27     1     20       3     1       Sub-Feed Devices       Qty     Poles       Tri     3     12       Main Devices     Qty     Poles       Qty     Poles     Tri       1     3     40	PROV PROV	100 Amps 225 Amps	22 KAIC 22 KAIC
Device Modifications: Ref # Description	PREPARED BY SEAN GOVEY	Qty     Poles     Tri       27     1     20       3     1       Sub-Feed Devices       Qty     Poles       Ti     3     12       Main Devices     Qty     Poles       Qty     Poles     Tri       1     3     40	PROV PROV	100 Amps 225 Amps 400	22 KAIC 22 KAIC
Device Modifications: Ref # Description	PREPARED BY SEAN GOVEY	Qty       Poles       Tri         27       1       20         3       1       Sub-Feed Devices         Qty       Poles       Tri         1       3       12:         Main Devices       Qty       Poles       Tri         1       3       40:         1       3       40:         1       3       40:         1       3       40:         1       3       40:         0       5       5         1       3       40:         0       5       5         1       3       40:         0       5       5         0       5       5         0       5       5         0       5       5         0       5       5         1       5       5         0       5       5         0       5       5         1       5       5         1       5       5         1       5       5         1       5       5         1       5       5	PROV PROV	100 Amps 225 Amps 400	22 KAIC 22 KAIC
Device Modifications: Ref # Description	PREPARED BY SEAN GOVEY APPROVED BY VERS	Qty     Poles     Tri       27     1     20       3     1     Sub-Feed Devices       Qty     Poles     Tri       1     3     12       Main Devices     Qty     Poles     Tri       1     3     40       1     3     40	PROV PROV	100 Amps 225 Amps 400	22 KAIC 22 KAIC
Device Modifications: Ref # Description	PREPARED BY SEAN GOVEY APPROVED BY VERS 1.0.0	Qty     Poles     Tri       27     1     20       3     1     Sub-Feed Devices       Qty     Poles     Tri       1     3     12       Main Devices     Qty     Poles     Tri       1     3     40       1     3     40	PROV PROV	100 Amps 225 Amps 400 nington Schools DRAWING TYPE Customer Approval	22 KAIC 22 KAIC 22
Device Modifications: Ref # Description	PREPARED BY SEAN GOVEY APPROVED BY VERS	Qty     Poles     Tri       27     1     20       3     1     Sub-Feed Devices       Qty     Poles     Tri       1     3     12       Main Devices     Qty     Poles     Tri       1     3     40       1     3     40	PROV PROV	100 Amps 225 Amps 400	22 KAIC 22 KAIC



# **Technical Documents**

## Panelboards and Lighting Control

### Pow-R-Line C Panelboards

**Pow-R-Line C Panelboards** 



#### **Product Description**

#### **Lighting and Distribution Panelboards**

Eaton's assembled panelboards are designed for sequence phase connection of branch circuit devices. This allows complete flexibility of circuit arrangement (single-, two- or three-pole) to allow balance of the electrical load on each phase.

Sturdy, rigid chassis assembly ensures accurate alignment of interior with panel front; prevents flexing and minimizes possibility of loosening or damage to current carrying parts during and after installation.

Four-point in-and-out adjustment of panel interior is provided to meet critical depth dimensions on flush installations. This compensates for possible misalignment of box at installation.

Main lugs are mechanical solderless type and approved for copper or aluminum conductors.

#### Enclosures

Boxes are code-gauge galvanized steel, which include a painted box finished in ANSI-61 light gray to match the trim.

Standard panelboard cabinets are designed for indoor use. Alternate types are available for indoor and special purpose applications.

All enclosures are furnished in accordance with Underwriters Laboratories standards and include wiring gutters with proper wire bending space. Special cabinets can be provided at an additional charge.

The box dimensions shown are inside dimensions. For outside dimensions, add 1/4-inch (6.4 mm).

Standard panelboard boxes are supplied without knockouts (blank endwalls).

#### Fronts

Fronts (trims) for all panelboards are made of code-gauge steel and have a high durability ANSI-61 light gray finish applied by a bakedon polyester powder coating paint system.

The fronts for lighting and appliance branch circuit panelboards and small power distribution panelboards include a door with rounded corners and concealed hinges. A flush-type latch and lock assembly is included. All locks are keyed alike. These trims are available in both surface- and flushmounted designs.



EZ Trim Features Standard Door-in-Door with No Exposed Hardware or Sharp Edges (no Tools are Required for Installation)



The Three-Piece Trim for Larger Power Distribution Panelboards Provides for Easy Handling and Installation

Fronts for power distribution panelboards utilize a unique breaker front cover design in which each device has a dedicated bolt-on steel cover. The individual covers form a single deadfront for the panelboard that is used in conjunction with two wiring gutter covers to complete the trim. A door is not finished as part of the standard offering on these panelboards but can be provided, for an additional charge, using a deeper than standard box.

### **Application Description**

#### Panelboard Selection Factors

In selecting a panelboard, the following factors must be considered:

- Service (voltage and frequency)
- Interrupting capacity (fully or series rated)
- Ampere rating of main Ampere ratings of
- branches
- Environment

#### Panelboard Short-Circuit Rating

The short-circuit rating of Eaton's assembled panelboards are test verified by, and listed with, Underwriters Laboratories (UL). Generally, these ratings are that of the lowest interrupting rated device in the panel.

Certain exceptions to this rule exist where branch devices have been UL tested in combination with specific main devices having a higher interrupting rating. Where these defined main devices and branch breaker combinations are utilized, the series short-circuit rating of the assembled panelboard will be the same as the tested rating of the approved rated main device in series with the branches. Available main and branch breaker combinations are tabulated starting on Page V2-T3-16. All combinations shown are UL tested and listed.

These series ratings apply to panels having main devices, or main lug only panelboards fed remotely by the device listed in the series ratings chart as the main, for which UL listed tests were conducted.

#### **Service Entrance Equipment**

The National Electrical Code (NEC) requires that:

- A panel used as service entrance equipment must be located near the point where the supply conductors enter the building
- A panelboard having main lugs only shall have a maximum of six service disconnects to de-energize the entire panelboard from the supply conductors. Where more than six disconnects are required, a main service disconnect must be provided
- A disconnectable electrical bond must be provided between the neutral and ground
- A service entrance type UL label must be factory installed
- Ground fault protection of equipment shall be provided for each service disconnect rated 1000A or more if the electrical service is a solidly grounded wye system of more than 150V to ground, but not exceeding 600V phase-to-phase

**Note:** Service entrance panels must be identified as such on the order.

#### Panelboard Standards

In 2008, both the National Electrical Code (Article 408) and UL 67 were updated to remove the mandated 42-circuit limitation. Eaton offers panelboards with more than 42 circuits for those jurisdictions that have adopted the 2008 NEC or later.

For jurisdictions that have| not adopted the 2008 or later version of the National Electrical Code, the 42-circuit limitation for Lighting and Appliance Branch Panelboards remains in place. Check with your local code officials to determine specific jurisdiction status.

#### Panelboard Installation

NEC requires that the operating handle of the topmost mounted device be no more than 6 feet 7 inches (2006.6 mm) above the finished floor and should be installed per NEC and manufacturer's instructions.

Additional boxes and fronts are required when the components required for one panelboard exceed the standard box dimensions.

#### Multi-Section Panelboards

When two or more separate enclosures are required, separate fronts for each box are standard. A common front can be furnished at additional charge.

#### Interconnecting Multi-Section Panelboards

When a panelboard, for connection to one feeder, must be furnished in more than one section (Box), each section must be furnished with main bus and terminals of the same rating, unless a main overcurrent device is provided in each section.

Sub-feed or through-feed provisions must also be included (and priced) to provide connection capability to the second section.

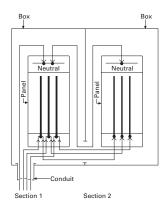
**Note:** Sub-feed or through-feed lugs cannot be used on any panelboard that is not protected by a single main overcurrent device either in the panelboard or immediately upstream, i.e., service entrance panelboards with main lugs only using the six disconnect rule.

#### **Sub-Feed Lugs**

Sub-feed lugs (see figure below) are one means of interconnecting multi-section panels. The sub-feed (second set of) lugs are mounted directly beside the main lugs. These are required in each section except the last panel in the lineup. The feeder cables are brought into the wiring gutter of the first section and connected to the main lugs. Another set of the same size cables are connected to the sub-feed lugs (Section 1) and are carried over to the main lugs of the adjacent panel. Cross connection cables are not furnished by Eaton. Sub-feed lugs are only available on main lug only panels.

**Note:** Sub-feed lugs may not be used on main lug only (six disconnect rule) service entrance panels.

#### Sub-Feed Lugs

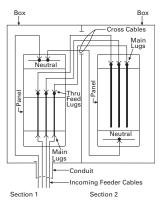


#### **Through-Feed Lugs**

Through-feed lugs (see figure below) are another method to interconnect multi-section panelboards. The incoming feeder cables are connected to the main lugs or main breaker at the bottom of panel (Section 1). Another set of lugs (through-feed) are located at the opposite end of the main bus. The interconnecting cables are connected to the throughfeed lugs in Section 1 and are carried over to the main lugs in Section 2. The connection arrangement could be reversed, i.e., main lugs at top; through-feed lugs at bottom end of panel. Cross cables are not furnished by Eaton.

**Note:** Through-feed lugs may not be used on main lug only (six disconnect rule) service entrance panels.

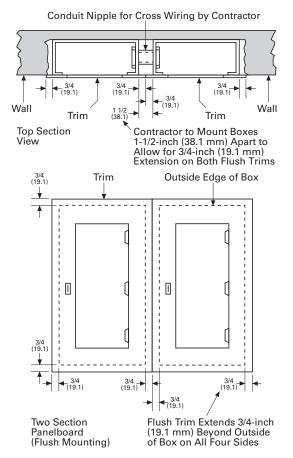
#### **Through-Feed Lugs**



#### Multiple Section Panelboard—Flush Mounted

Shown below is the standard method for flush mounting multiple section lighting and distribution panelboards using standard flush trims.

## Multiple Section Panelboard Flush Mounted – Dimensions in Inches (mm)



#### **Overcurrent Protection**

The following requirements will be found in the NEC:

Each lighting and appliance branch circuit panelboard shall be individually protected on the supply side by not more than two main circuit breakers or two sets of fuses having a combined rating not greater than that on the panelboard.

## Panelboards and Lighting Control

### Pow-R-Line C Panelboards

#### Branch Circuit Loading for Lighting Panels

The size of mains and branches should be selected based on the following:

- Motor circuits: NEC Article 430
- Diversity factor
- Provision for future loading

#### **Exception Number 1:**

Individual protection for a lighting panelboard is not required when the panelboard feeder has overcurrent protection not greater than that of the panelboard.

#### **Exception Number 2:**

For existing installations, individual protection for lighting panelboards is not required where such panelboards are used as service equipment in supplying an individual residential occupancy and where any bus supplying 15 or 20A circuits is protected on the supply side by an overcurrent device.

#### Ambient Temperatures

The primary function of an overcurrent device is to protect the conductor and its insulation against overheating. In selecting the size of the devices and conductors, consideration should be given to the ambient temperature surrounding the conductors within and external to the panelboard. Cumulative heating within the panelboard may cause premature operation of the overcurrent protective devices.

Underwriters Laboratories test procedures are based, in part, on 80% loading of panelboard branch circuit devices. The NEC limits the loading of overcurrent devices in panelboards to 80% of rating where in normal operation the load will continue for three hours or more. Further derating may be required, depending on such factors as ambient temperature, duty cycle, frequency or altitude.

#### Exception: There is one

exception to this rule in both UL and NEC. It applies to assemblies and overcurrent devices that have been listed for continuous duty at 100% of its rating.

#### **Special Conditions**

Standard panelboards, assembled with standard components, are adequate for most applications. However, special consideration should be given to those required for application under special conditions such as:

- Excessive vibration or shock
- Frequencies above 60 cycles
- Altitudes above 6600 feet (2011.7m)
- Damp environment (possible fungus growth)
- Compliance with federal, state and municipal electrical codes and standards

#### **Seismic Considerations**

The Uniform Building Code<sup>®</sup> and the International Building Code, as well as local and state building codes, place an emphasis on seismic building design requirements. Electrical distribution systems are treated as attachments to the building and therefore, fall into this category.

All Eaton panelboards are seismic qualified at the highest possible level, and have been tested in accordance with ANSI C37.81. This standard quantifies actual earthquake conditions, as well as equipment seismic capability.

#### **Harmonic Currents**

Standard panelboard neutrals are rated for 100% of the panelboard current. However, since harmonic currents can cause overheated neutrals, an option is provided for neutrals to be rated at 200% (1200A maximum neutral for 600A main bus) of the panelboard phase current.

Panelboards with the 200% rated neutral are UL listed as suitable for use with non-linear loads.

Prior to specifying the 200% rated neutral, Eaton recommends a harmonic survey be conducted of the distribution system, be it new or existing.

#### **Surge Protective Devices**

The quality of power feeding sensitive electronic loads is critical to the reliable operation of any facility. In modern offices, hospitals, and manufacturing facilities, the most frequent causes of microprocessor-based equipment downtime and damage are voltage transients and electrical noise.

Electrical loads and microprocessor-based equipment are highly susceptible to both high and low energy transients. High energy transients include lightning induced surges and power company switching. These high energy transients can destroy components instantly.

More frequently the electrical system experiences low energy transients and high frequency noise.

The effects of continual low energy transients and high frequency noise can cause erratic equipment performance or sudden failure of electronic circuit board components. Eaton can provide protective and diagnostic systems integral to panelboards. The surge protective device (SPD) is integrated into the panelboards using a "zero lead length" direct bus bar connection.



Pow-R-Line 4

The SPD protects sensitive electronic equipment from the damaging effects of high and low energy transients, as well as high frequency noise.

#### Standards and Certifications

Eaton's panelboards are designed to meet the following applicable industry standards, except where noted:

- Underwriters Laboratories:
  Panelboards: UL 67
  - Cabinets and Boxes: UL 50

**Note:** Only panelboards containing UL listed devices can be UL labeled.

- National Electrical Code
- NEMA Standards: PB 1
- Federal Specification W-P-115c:
  - Circuit Breakers— Type I Class I
  - Fusible Switch— Type II Class I



### Pow-R-Line C Panelboards

#### **Panelboard Selection Guide**

		Maximum Voltage Rat	ing		num Main (Amperes)			AC Interrupting rms Symmetrica	
Panelboard Type	Device Type	AC	DC	MLO	Main Device	Branch Circuits Ampere Range	Sub-Feed Breaker Maximum Amperes	Fully Rated	Series Rated
PRL1a	Breaker	240	_	400	400	15–100	400	10–22	22–100
PRL1R	Breaker	240	_	225	225	15–100	_	10-22	22-100
PRL1aF	Fusible	240	_	400	400	15–30	400	200	_
PRL1a-LX	Breaker	240	_	225	225	15–100	_	10-22	22-100
PRL2a	Breaker	240	250	400	400	15–100	400	65	65–200
	Breaker	480Y/277	250	400	400	15–100	400	14	22-150
PRL2R	Breaker	240	_	225	225	15–100	_	10-22	22-200
	Breaker	480Y/277	_	225	225	15–100	_	14	22-100
PRL2aF	Fusible	480Y/277	_	400	400	15–30	400	200	_
PRL2a-LX	Breaker	240	250	225	225	15–100	_	65	65–200
	Breaker	480Y/277	250	225	225	15–100	_	14	22-150
PRL3a	Breaker	240	250	800	600	15–225	600	10-200	22-200
	Breaker	480	250	800	600	15–225	600	14–100	22–150
	Breaker	600	250	800	600	15–225	600	14–35	_
PRL3E	Breaker	240	250	600	600	15–125	400	25-100	100-200
	Breaker	480Y/277	250	600	600	15–125	400	18–65	65–100
	Breaker	480	250	600	600	15–125	400	18–65	65–100
PRL4B	Breaker	240	600	1200	1200	15-1200	_	10-200	22–200
	Breaker	480	600	1200	1200	15-1200	_	14-200	22–150
	Breaker	600	600	1200	1200	15-1200	_	14–200	_
PRL4D	Breaker	240	_	1200	1200 1	600	_	65–200	_
	Breaker	480	_	1200	1200 1	600	_	35-100	_
	Breaker	600	_	1200	1200 1	600	_	18–50	_
PRL4F	Fusible	240	250	1200	1200	30-1200	_	100-200	_
	Fusible	600	250	1200	1200	30-1200	_	100-200	_
PRL5P	Breaker	240	250	1200	1200	15-1200	_	10-200	22–200
	Breaker	480	250	1200	1200	15-1200	_	14–200	22–150
	Breaker	600	250	1200	1200	15-1200	_	14-200	_
PRC100 PRC25	Breaker	240	_	400	400	15–225	_	10–65	22–100
	Breaker	480Y/277	_	400	400	15–225	_	14	65–100
Elevator Control	Fusible	240	_	800	800	15-200	_	200	_
	Fusible	480Y/277	_	800	800	15-200	_	200	_
	Fusible	480	_	800	800	15-200	_	200	_

Note

1 Fixed mounted only.

#### Terminal Wire Ranges, Pressure-Type Al/Cu Terminals Except as Noted

**Note:** All terminal sizes are based on wire ampacities corresponding to those shown in NEC Table 310.16 under the 75°C insulation columns (75°C wire). The use of smaller size, (in circular mills), regardless of insulation temperature rating, is not permitted. Where copper-aluminum terminals are supplied on designated panelboard types, best results are obtained if a suitable joint compound is applied when aluminum conductors are used. Check Eaton's standard terminal sizes versus customer requirements. In particular, 400 and 800A breakers often require nonstandard lugs. Optional 750 kcmil mechanical screw-type terminals are available upon request. Panelboard dimensions may be affected, refer to Eaton.

# Panelboards and Lighting Control

### Pow-R-Line C Panelboards

#### **Standard Circuit Breaker Terminals**

Breaker Type	Ampere Rating	Wire Range
BAB, QBHW, BABRSP,	15–70	#14#4
HQP, QPHW	90–100	#8-1/0
EDB, EDS, ED, EDH, EDC	100-225	#4-4/0 or #6-300 kcmil
EGB, EGE, EGS, EGH	15–50	#14-3/0 AL/CU
	60–125	#6-3/0 AL/CU
EHD, FDB, FD,	15-100	#14-1/0
HFD, FDC, HFDDC 💿	125–225	#4-4/0
FCL	15–100	#14-1/0
GHB, HGHB, GHQ,	15–20	#14#10
GHQRSP	25-100	#10-1/0
EGB, EGS, EGH	15–50	#14-1/0
	60-125	#6-2/0
JD, HJD, JDC, HJDDC 💿	70–250	#4–350 kcmil
DK	250-350	250–500 kcmil
	400	(2) 3/0–250 kcmil or (1) 3/0–500 kcmil
KD,	225	(1) #3–350 kcmil
HKD, KDC, HKDDC, ② CKD, CHKD	350	(2) 3/0–250 kcmil or
	400	(2) 3/0–250 kcmil or (1) 3/0–500 kcmil
LHH	150-400	#2-500 kcmil
	150-400	(2) #2-500 kcmil
	150-400	(1) 500–750 kcmil
LGE, LGH, LGC,	250-400	(1) #2–500 kcmil
LGU, LHH ①	500-600	(2) #2–500 kcmil
LD, HLD, LDC, HLDDC @	300–500	(2) 250–350 kcmil
CLD, CHLD	600	(2) 400–500 kcmil
MDL, HMDL, HMDLDC <sup>(2)</sup>	400-600	(2) #1–500 kcmil
CMDL, CHMDL	700–800	(3) 3/0-400 kcmil
ND, HND, CND, CHND, NDC,	800-1000	(3) 3/0–400 kcmil
CNDC	1200	(4) 4/0–500 kcmil
LCL	125–225	(1) #6-350 kcmil
	250-400	(1) #4-250 kcmil and (1) 3/0-600 kcmil
FB-P	15–100	#14-1/0
LA-P	70–225	#6-350 kcmil
	250-400	(1) #4–250 kcmil and (1) 3/0–600 kcmil
NB-P, NBDC <sup>②</sup>	300-700	(2) #1-500 kcmil
	800	(3) 3/0–400 kcmil

#### **FDPW Switch Terminals**

Ampere Rating	Wire Range
30	#14–1/0
60	#14–1/0
100	#14–1/0
200	#4–300 kcmil
400	250–750 kcmil or (2) 3/0–250 kcmil
600	(2) #4–600 kcmil or (4) 3/0–250 kcmil
800	(3) 250–750 kcmil or (6) 3/0–250 kcmil
1200	(4) 250–750 kcmil or (8) 3/0–250 kcmil

#### **Elevator Control Panel Feeder Terminals**

Ampere Rating	Wire Range
30	#14–1/0
60	#14–1/0
100	#14–1/0
200	#4–300 kcmil

### Notes

① LHH is 400A maximum.

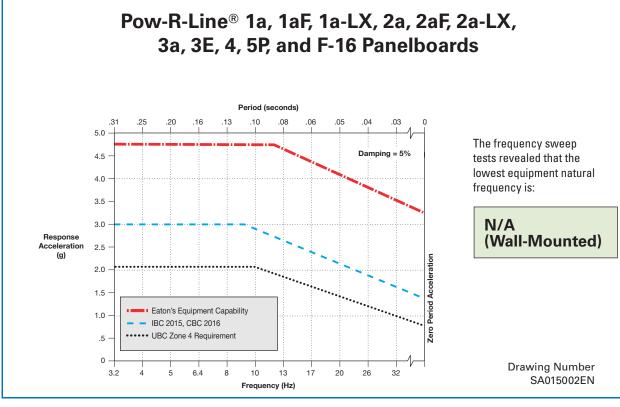
<sup>(2)</sup> Suitable for DC applications only.



# Seismic qualified



Eaton's equipment identified below was tested for seismic withstand capability and tested in accordance with the combined requirements specified in the International Building Code, the California Building Code, and the Uniform Building Code. As required by the codes, the equipment demonstrated its ability to function after the seismic tests. The seismic capability of the equipment exceeds the worst-case required levels, as illustrated in the figure below.



William V. Joerger, S.E. *ISAT* 

**TESTED BY** *Wyle Laboratories* April, 2013–70566R12

3RD PARTY TEST ENGINEER IN CHARGE

For interpretation of testing data, refer to Eaton Publication SA12501SE

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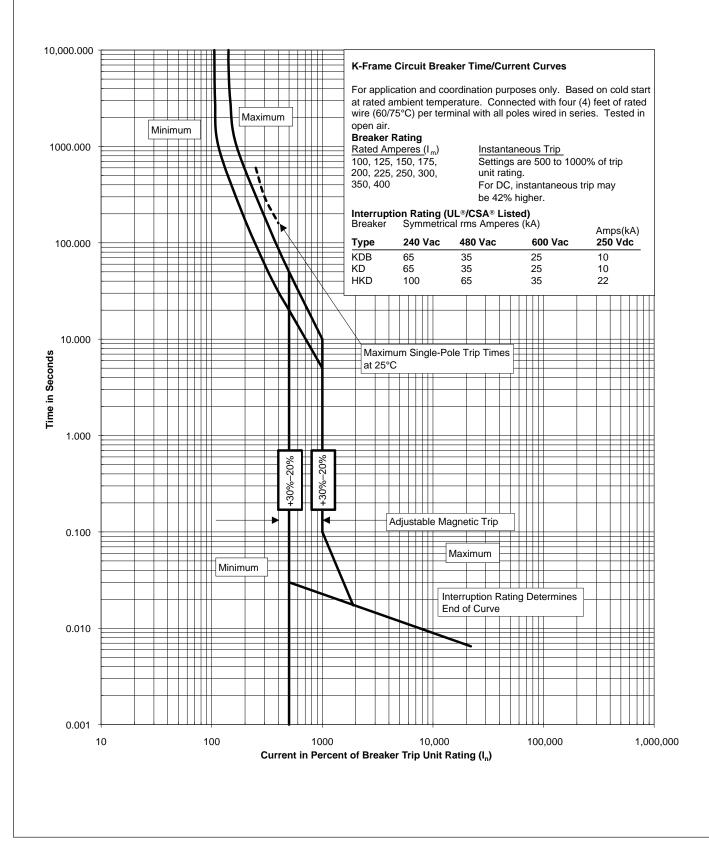


Figure 2. Series C Types KDB, KD, HKD Circuit Breakers Equipped with Type KT Thermal-Magnetic Trip Unit

### Application Data AD29167K Effective February 2014

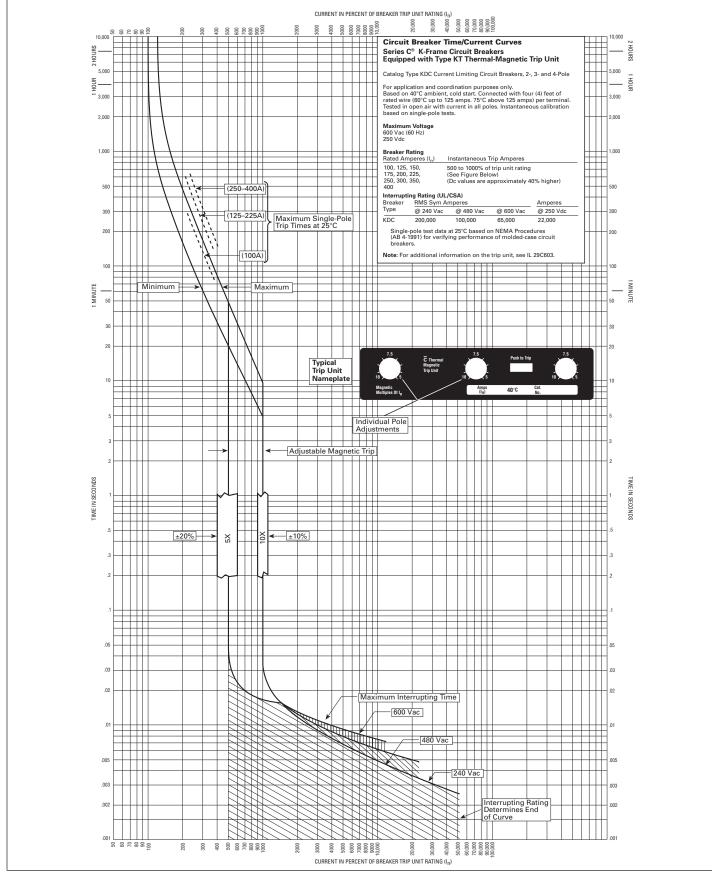


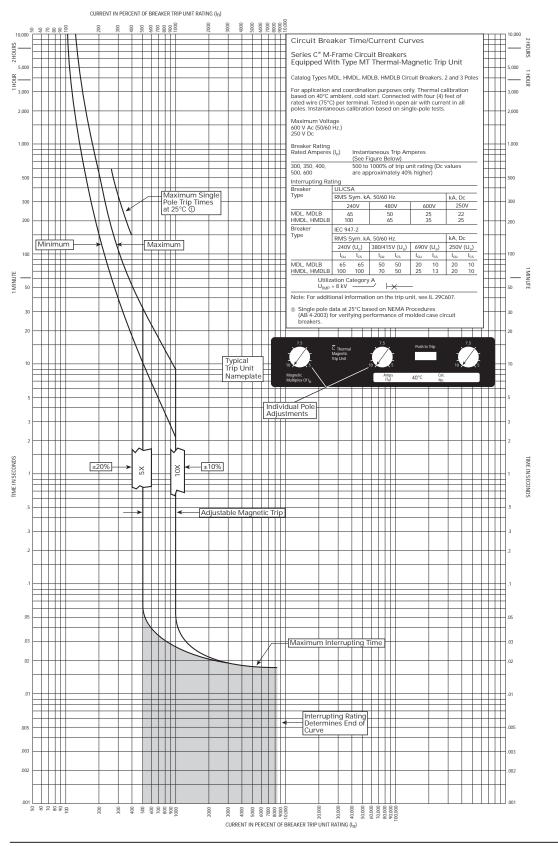
Figure 3. Series C Type KDC Circuit Breakers Equipped with Type KT Thermal-Magnetic Trip Unit



Effective: June 2007

## Series C<sup>®</sup> Molded Case Circuit Breakers M-Frame 300-800 Amperes

# Types MDL, HMDL, MDLB, and HMDLB Equipped with Type MT Thermal-Magnetic Trip Unit, 300 to 600 Amperes

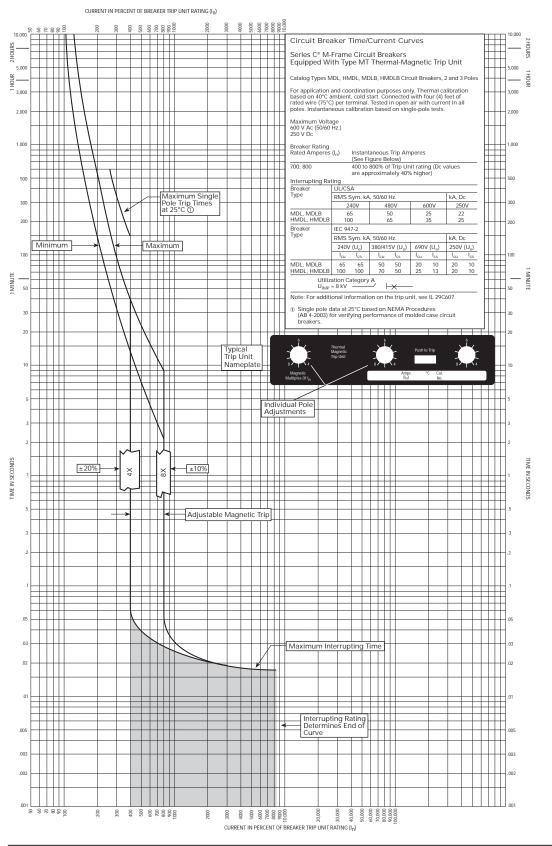


Curve No. SC-6911-98

## Series C<sup>®</sup> Molded Case **Circuit Breakers M-Frame 300-800 Amperes**

Page 3

### Types MDL, HMDL, MDLB, and HMDLB Equipped with Type MT Thermal-Magnetic Trip Unit, 700 and 800 Amperes



Curve No. SC-6912-98





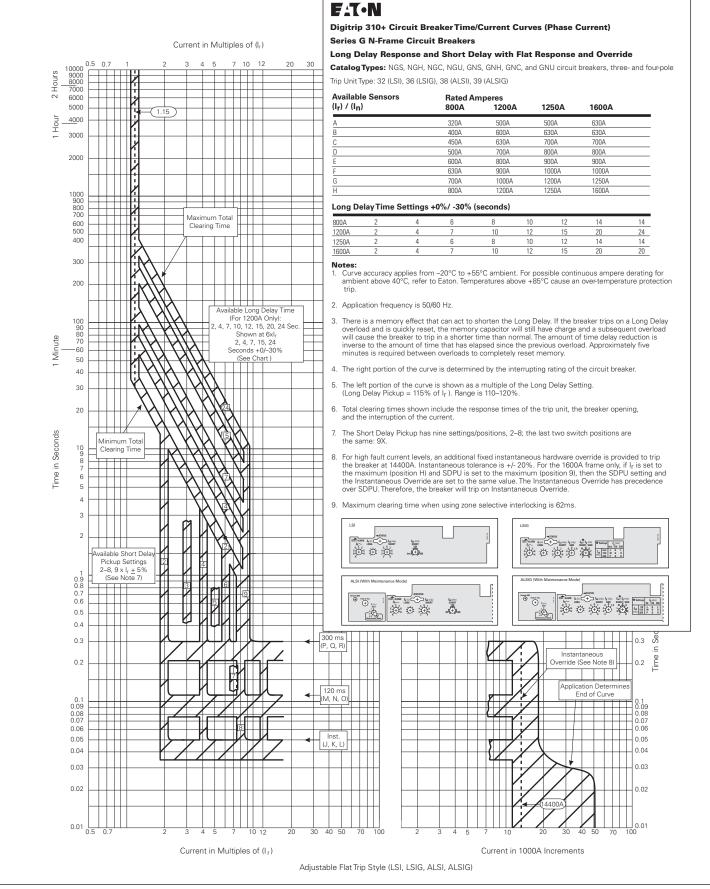


Figure 2. Digitrip 310+ Long Delay Response and Short Delay with Flat Response and Override Curve (LSI, LSIG, ALSI, ALSIG) - Curve Number TC01210010E, March 2012



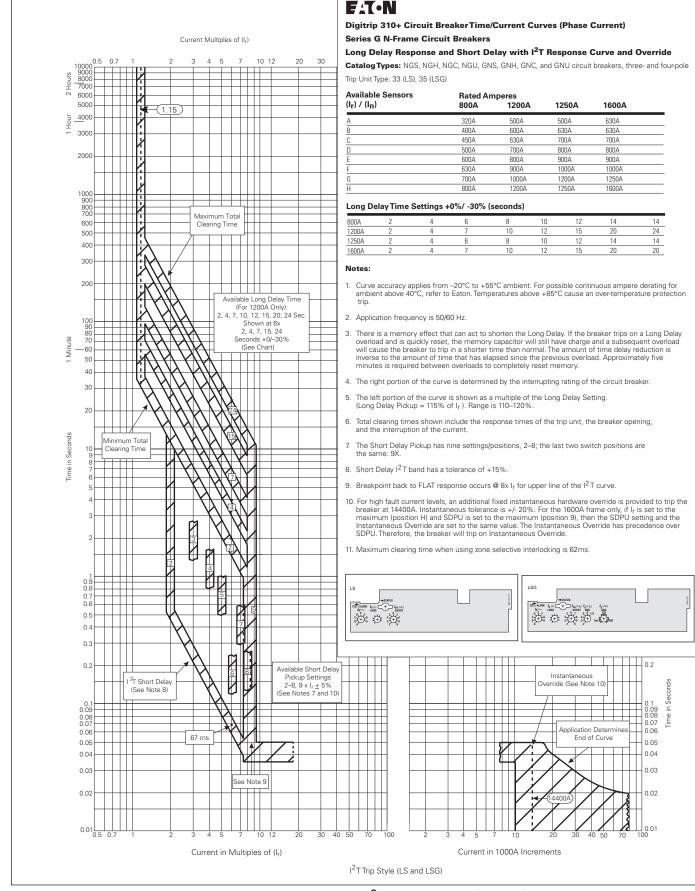


Figure 3. Digitrip 310+ Long Delay Response and Short delay with I<sup>2</sup>T Response Curve (LS, LSG) - Curve Number TC01210011E, March 2012

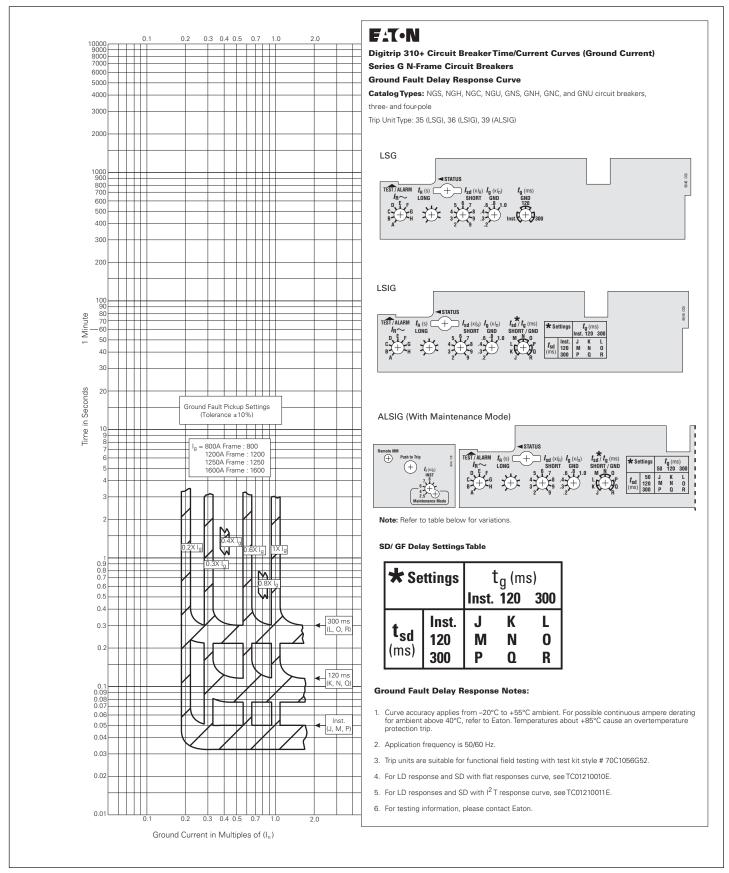


Figure 4. Ground Fault Delay Reponse Curve (LSG, LSIG, ALSIG) Curve Number TC01210012E, March 2012

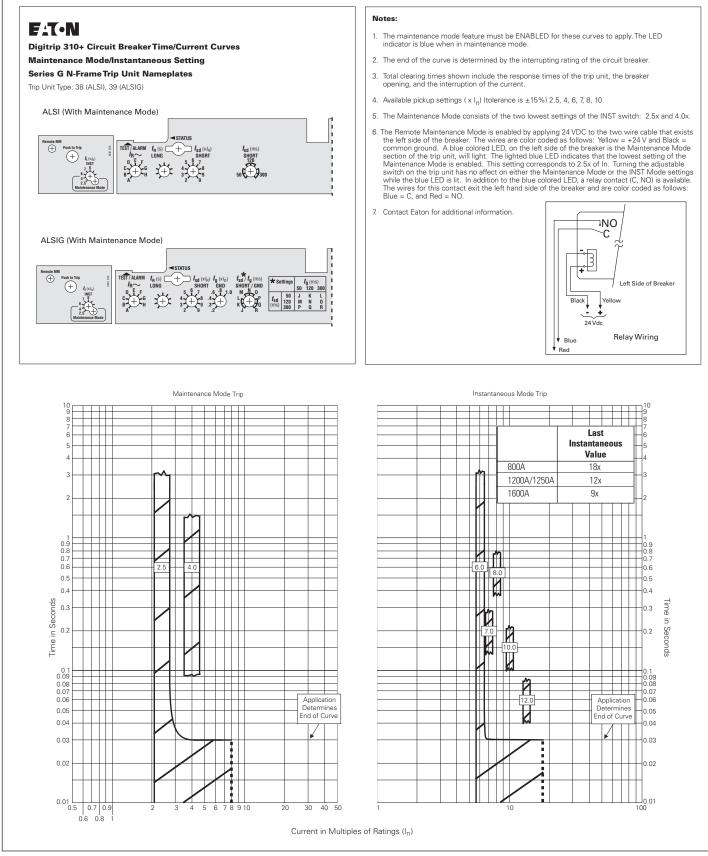


Figure 5. Maintenance Mode/Instantaneous Setting (ALSI, ALSIG) Curve Number TC01210016E ,TC01210017E, and TC 01210018E, March 2012



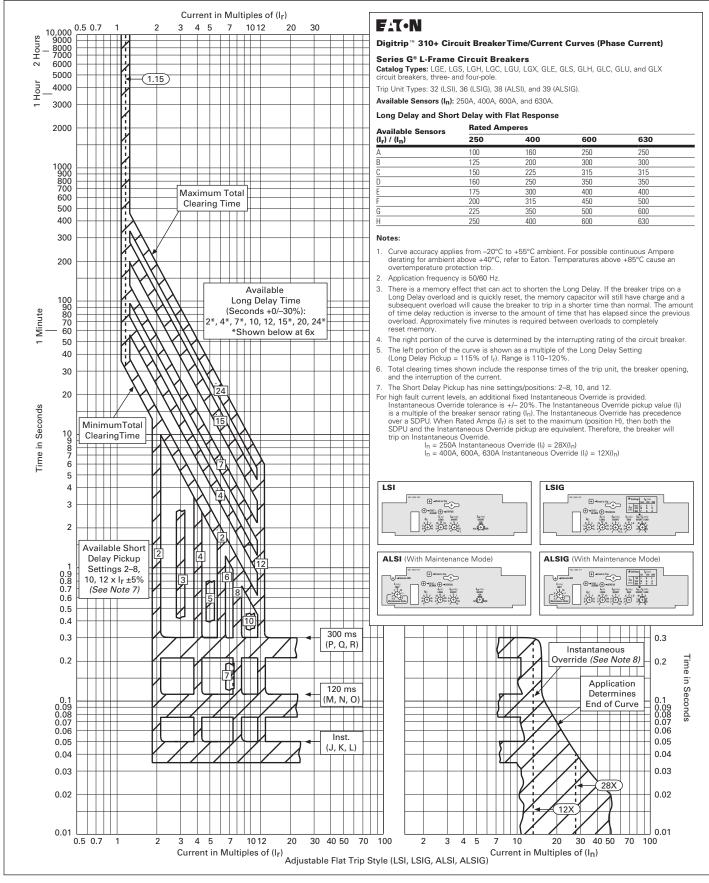


Figure 2. Digitrip 310+ Long Delay Response and Short Delay with Flat Response Curve (LSI, LSIG, ALSI, ALSIG)— Curve Number TC01207004E, May 2008

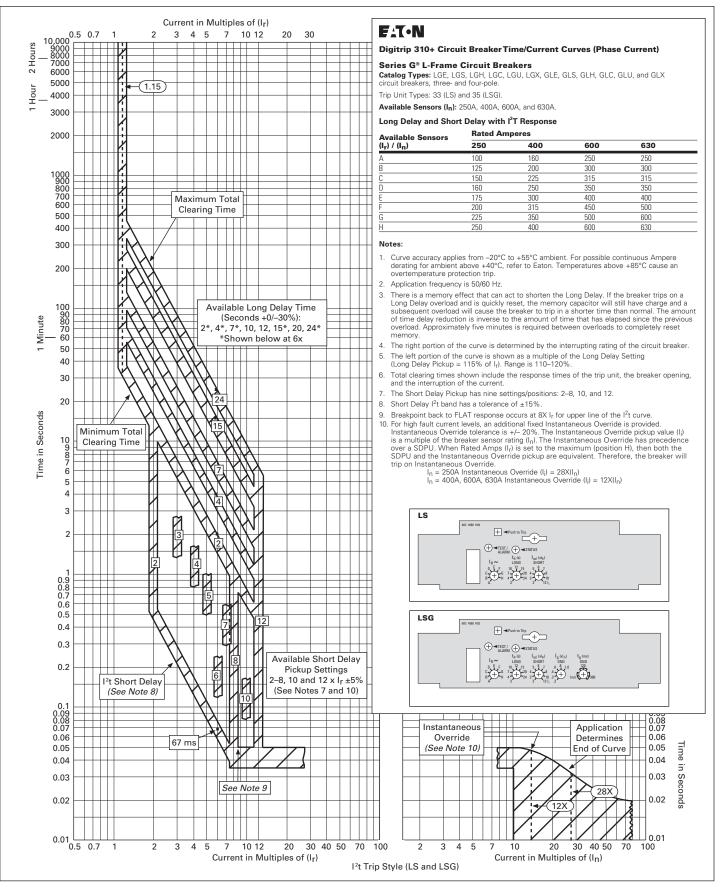
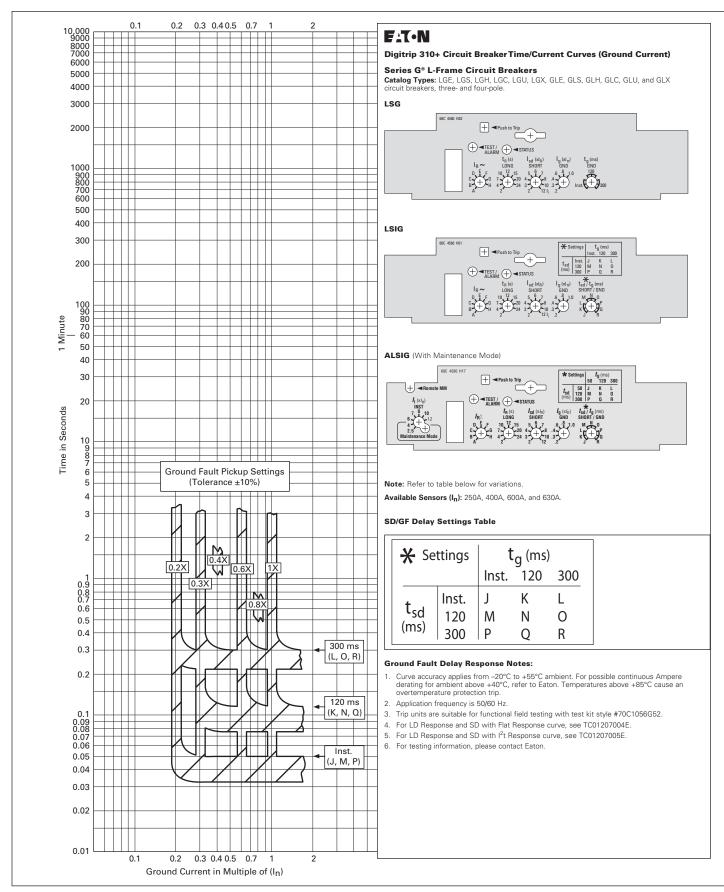


Figure 3. Digitrip 310+ Long Delay Response and Short Delay with I<sup>2</sup>t Response Curve (LS, LSG)— Curve Number TC01207005E, May 2008



Series G

L-Frame

Figure 4. Ground Fault Delay Response Curve (LSG, LSIG, ALSIG) – Curve Number TC01207006E, May 2008

### Time Current Curves **TD012019EN** Effective March 2014

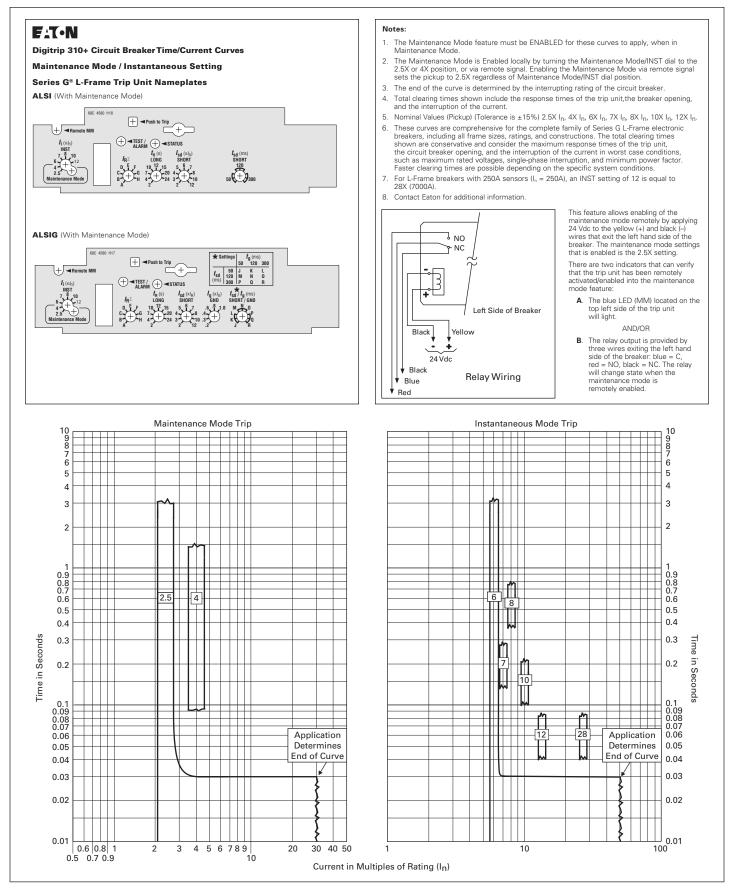


Figure 5. Maintenance Mode / Instantaneous Setting (ALSI, ALSIG) – Curve Number TC01207014E, May 2008

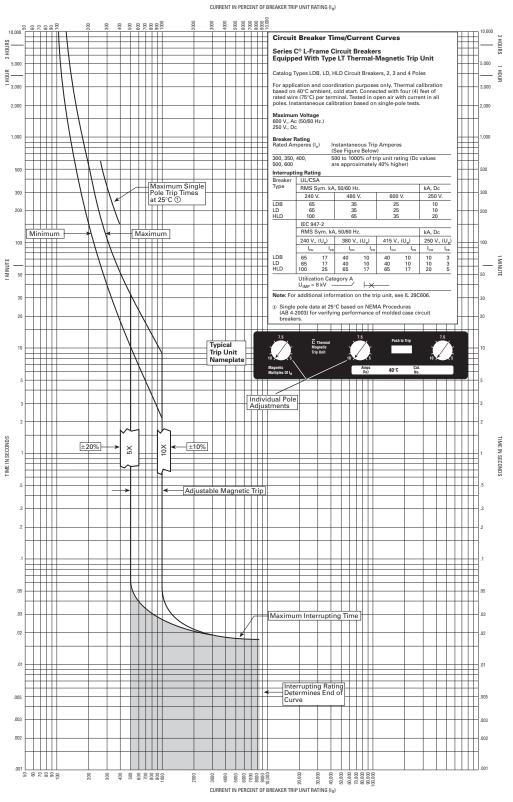


Page 2

# **E:T·N** Cutler-Hammer

## **AB DE-ION Circuit Breakers**

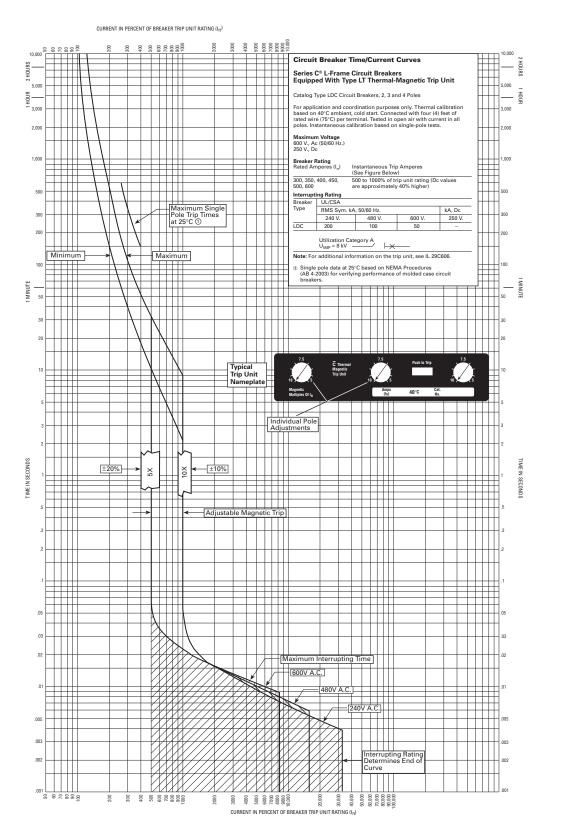
#### Types LDB, LD, HLD Equipped With Type LT Thermal-Magnetic Trip Unit



Curve No. SC-4547-89B

# **E:T·N** Cutler-Hammer

AB DE-ION Circuit Breakers



#### Type LDC Equipped With Type LT Thermal-Magnetic Trip Unit

Curve No. SC-5760-94

F:T•N

