



CASHIER'S CHECK CUSTOMER COPY

REMITTER: National Transformers Sales

DATE: 04/06/2020

PAYEE: City of Wilsom

TIME: 10:11 AM

AMOUNT: 4041.40

CENTER: 3767

FEE: 0.00

OPER ID: 28355

SERIAL NUMBER: 376703334

CASHBOX: 8395

MEMO: 15kV circuit breakers

CASHIER'S CHECK

376703334



DATE: 04/06/2020

Remitter: National Transformers Sales

Pay to the Order of: City of Wilsom

Four Thousand Forty One Dollars And 40/100 ¢

\$4041.40
DOLLAR FOUR ZERO FOUR ONE PER FOUR ZERO

MA07271
FORM #35-5U02

NTS
NATIONAL TRANSFORMER SALES

April 7, 2020

Booth & Associates
5811 Glenwood Ave, Suite 109
Raleigh, NC 27612

REF: "Bid for 15kV Breaker

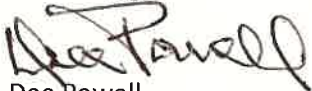
Dear Mr. Gillen

Attached you will find Siemens Proposal SF201619428 and certified check for the above reference proposal.

Should an order be received, the billing will be done by Siemens Industry and the order should be made out to Siemens Industry with the proposal #SF20119428 marked on the purchase order. The order should be emailed to NTS for order entry, dpowell@nationaltransformer.com.

If you have any questions or need additional information, do not hesitate to let us know.

Kindest regards,



Dee Powell
Inside Sales

Attachment

TERMS AND CONDITIONS

1. The undersigned (hereinafter called the "Bidder") hereby proposes to sell and deliver to the Owner upon the terms and conditions herein stated, the materials, equipment, and services (hereinafter called the "Material") specified in the Bid Schedule(s) attached hereto, and by this reference made a part hereof, for the Materials for the Owner, and:
 - a. These bid documents that include *Notice to Prospective Bidders*, *Instructions to Bidders*, *General Conditions*, and *Technical Specifications* for the circuit breaker.
 - b. Manufacturer's specifications, both as set forth herein and in Manufacturer's literature (two [2] sets) attached hereto, or furnished separately as provided for in the *Instructions to Bidders*;
 - c. Legal negotiations, with low bidder only, after bids are opened, for budgetary compliance.
2. The prices as quoted herein:
 - a. Are firm unless otherwise stated,
 - b. Are FOB to the location(s), as outlined in the *Instructions to Bidders*,
 - c. Do include the cost of delivery to the site at the Bidder's Risk, assuming unloading by Others, and
 - d. Have state sales tax shown as a separate item, if applicable.
3. The Material prices set forth herein do not include any sums which are or may be payable by the Bidder on account of State Sales Tax upon the sale, purchase or use of the material. If any such tax is applicable to the sale, purchase or use of the material hereunder, the amount thereof shall be added to the purchase price and paid by the Owner after the Bidder has ascertained the actual sales tax to be included in the purchase order price.
4. Invoice shall list the appropriate state sales tax as a separate item
5. The Bidder further declares that he has examined the site of the work and informed himself fully regarding all conditions pertaining to the location where the Material is to be delivered; that he has examined the *Technical Specifications* for the work and Bid Documents relative thereto; has read all special provisions furnished prior to the opening of the bids; and that he has satisfied himself relative to the work to be performed.
6. The Bidder proposes and agrees if the following Bid Schedule(s) in this Proposal is accepted, to contract with the Owner, in the form of a purchase order specified, to furnish all necessary equipment and materials, except materials and equipment specified to be furnished by the Owner, complete in accordance with the Bid Documents, to the full and entire satisfaction of the Owner, with a definite understanding that no money will be allowed for extra work except as set forth in the *General Conditions*, and as filed on Change Order Forms.
7. The Owner may accept any schedule or portion thereof.
8. A *Form of Exceptions* to the *Technical Specifications*, prepared in accordance with the *Instructions to Bidders*, is attached hereto. The Bidder shall document any exceptions with deviation from the bid documents and specifications in the *Form of Proposal*. Otherwise, the complete compliance is assumed.
9. Proposals shall include a complete bill of materials, identifying each item by catalog number, manufacturer, ratings, characteristics, types, sizes, etc., of all materials and equipment required for a complete and coordinated City of Wilson. A simple statement that all necessary materials and equipment will be provided is not acceptable.
10. The Bidder warrants the accuracy of all statements contained in the Bidders Qualifications, if any shall be submitted, and agrees that the Owner shall rely upon such accuracy as a condition of the Purchase Order in the event that this Proposal is accepted.
11. Title to the materials shall pass to the Owner upon delivery to the location(s) specified in the *Instructions to Bidders*.
12. The Bidder warrants that the Materials will conform to the performance data and guarantees which are attached hereto and by this reference made a part thereof.

13. The Bidder warrants the accuracy of all statements contained in the Bidder's Qualifications and agrees that the Owner will rely upon such accuracy as a condition of the award of Purchase Order in the event that this Proposal is accepted.
14. By the submission of this bid, the Bidder certifies that:
 - a. The bid has been arrived at by the Bidder independently and has been submitted without collusion with any other Bidder of materials, supplies, or equipment of the type described in the *Notice to Prospective Bidders* or the *Technical Specifications*, and
 - b. The contents of the bid have not been communicated by the Bidder, nor, to its best knowledge and belief, by any of its employees or agents, to any person not an employee or agent of the Bidder or its Surety on any Bond furnished herewith, and will not be communicated to any person prior to the official opening of the bid.
15. The Bidder further agrees that in case of failure on his part to accept said purchase order within ten (10) consecutive calendar days after written notice has been given of the award of the Purchase Order, the Bid Security accompanying this bid, and the monies payable thereon, shall be paid into the funds of the Owner account set aside for this project, as liquidated damages for such failure; otherwise the check or cash accompanying the *Form of Proposal* shall be returned to the Bidder.
16. If, in submitting this Proposal, the Bidder has made any change in the *Form of Proposal*, the Bidder understands that the Owner may evaluate the effect of such change as they see fit or they may exclude the Proposal from consideration in determining the issue of Purchase Order.

BID SCHEDULES

**15 kV CIRCUIT BREAKERS FOR
CITY OF WILSON**

BID SCHEDULE NO. 1 – Base Bid

<u>Description</u>	<u>Quantity</u>	<u>Total Cost</u>
Outdoor Power Vacuum Circuit Breaker, 15 kV Nominal, 25,000-ampere Interrupting, 60 Hertz, 1,200-ampere continuous all as per Specifications and attached Data Sheet	3	\$ 77,148.00
Delivery Charge	3	\$ 0 (Included)
Sales Tax (if applicable)	3	\$ 5,207.49
	BASE BID:	\$ 77,148.00

Manufacturer Siemens Industry, Inc. Type SDV7-MA-AR-15kV-25kA-1200A

BID SCHEDULE NO. 1 – Delivery Schedule

Instructions to Bidders, 6.0 Shipment and Delivery

The prices of the materials and equipment set forth herein shall include the cost of delivery to the site at the Bidder's risk. The time of delivery shall be as follows:

	<u>Delivery (Days)*</u>
Approval Drawings	28
Final Drawings**	63
Delivery of Material**	24 weeks (168 days) ARO

* Number of consecutive calendar days after receipt of written order from the Owner.

** Allow two (2) weeks for receipt and return of Approval Drawings.

BID SCHEDULE NO. 1 – Field Service Engineering (Per Day Rate)

Per Day Rate (including expenses) for field service engineering	\$ 1,680.00 /Day
Rate per one round trip (including expenses) to the site:	\$ 2,000.00 /Day

AFFIDAVIT OF BIDDER

The final payment of retained amount due the Bidder on account of the Purchase Order shall not become due until the Bidder has furnished to the Owner through the Engineer an affidavit signed, sworn, and notarized to the effect that all payments for Material, services, or any other reason in connection with this Purchase Order have been satisfied and that no claims or liens exist against the Bidder in connection with this Purchase Order. In the event that the Bidder cannot obtain similar affidavits from Subcontractors to protect the Bidder and the Owner from possible liens or claims against the Subcontractor, the Bidder shall state in his affidavit that no claims or liens exist against any Subcontractor, and if any liens or claims appear afterward, the Bidder shall save the Owner harmless on account thereof.

Bidder: Siemens Industry, Inc.

By: Nowak Digitally signed by
Nowak Kimberly
Date: 2020.04.02 21:06:45 (Kimberly Nowak/Offers Engineering Manager)
Kimberly

Date: 4/2/2020

FORM OF EXCEPTIONS

Instructions to Bidders, Paragraph 2.6 and Section 7.0 Award of Purchase Order

BIDDER: Siemens Industry, Inc.

OWNER: City of Wilson
Wilson North Carolina

PROJECT DESCRIPTION: 15 kV CIRCUIT BREAKERS FOR THE
CITY OF WILSON

INSTRUCTIONS: The following is a list of exceptions to the Bidding Documents and/or Technical Specifications pertaining to the furnishing of the subject materials. Bidders shall identify each exception by Specification page and paragraph number on this form. The omission of exception implies complete compliance with Plans and Specifications.

**BID DOCUMENT/
SPECIFICATION
PAGE NO. AND
PARAGRAPH**

EXCEPTION/VARIATION

Please refer to attached pages from Siemens proposal # SF201619428

Table with 2 columns: Bid Document/Specification Page No. and Paragraph, and Exception/Variation. The first row contains the text 'Please refer to attached pages from Siemens proposal # SF201619428'. The remaining rows are empty.



List of Technical Clarifications / Deviations / Exceptions

Ref Item #	Section	Page #	Clarification	Deviation	Exception	Comment
General Conditions	7.0	GC-1	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Siemens is proposing the following Liquidated Damage clause: Seller fails to complete delivery of Goods within the time period as specified in the Purchase Order due to no fault of the Buyer, Seller shall pay to Buyer damages in the sum of .05% per complete week beyond the Goods delivery date until delivery is completed in accordance with the Purchase Order ("Liquidated Damages"). The parties acknowledge and agree that the Buyer's actual damages arising from a delay in delivery by the Seller would be difficult or impossible to calculate, and that in light of the circumstances, the amount of Liquidated Damages referenced herein represents a reasonable approximation of such damages and not a penalty. The Liquidated Damages referenced herein shall be in lieu of actual damages and shall constitute Buyer's sole remedy for any delay in the delivery of the goods. Aggregate Liquidated Damages shall not exceed 5% of the Purchase Order value of the Goods delayed. Liquidated Damages shall not apply in the following instances: 1. Goods delivered in a timely manner regardless of whether nonconformities are identified after delivery 2. Delay caused by Buyer not providing timely approval of drawings and commercial information 3. Events outside Seller's control
Technical Specifications	3.1.2	S-2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Remedies available to the customer will be as detailed in Siemens standard warranty clause. For details related to the specific guidelines of Siemens Warranty please refer to Section 7 of Standard Terms and Conditions of Sale for Products and Services at www.usa.siemens.com/mvterms .
Technical Specifications	3.1.3	S-2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Siemens standard warranty will apply, except that the coverage period will be extended from 12/18 months to 54/60 months.
Technical Specifications	4.1	S-2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Siemens standard construction meets all applicable ANSI, NEMA, and IEEE standards.
Technical Specifications	5.0	S2-S4	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Siemens Standard Drawing Package created in AutoCAD-2004 will be provided. Certified test reports will be provided for each breaker at time of shipment. Siemens Standard Instruction Manuals will be provided with each breaker. Operation and Maintenance manuals will not be submitted for approval.
Technical Specifications	7.7.2	S-5	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Two stainless steel ground pads will be provided at diagonally opposite bottom corners of the cabinet. The ground pads are designed for use with through hardware and do not have tapped holes. Breaker height is field adjustable. See Outline Drawings for dimensions.

Restricted Information

This proposal, including all of its attachments, exhibits, appendices, etc. ("Proposal"), is provided "as-is" for your evaluation of Siemens Industry, Inc. ("Siemens") as the provider of work discussed therein and contains information that is Restricted to and solely owned by Siemens. Your acceptance, viewing or storage of this Proposal is an acknowledgment of a Restricted relationship between you and Siemens. We require that this Proposal be returned or destroyed when no longer required for the purpose identified herein. This Proposal and any information obtained from this Proposal may not be re-produced, transmitted, disclosed or otherwise used, in whole or in part, without the prior written authorization of Siemens. THE ABOVE TERMS SUPERSEDE ANY CLICK-WRAP OR OTHER TERMS NOT EXPRESSLY SET FORTH IN A SIGNED AGREEMENT BETWEEN THE PARTIES COVERING THE PROPOSAL. ALL SUCH CLICK-WRAP OR OTHER TERMS ARE EXPRESSLY REJECTED BY SIEMENS.



List of Technical Clarifications / Deviations / Exceptions (Continued)

Ref Item #	Section	Page #	Clarification	Deviation	Exception	Comment
Technical Specifications	7.7.6	S-5	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Siemens paint system used for outdoor equipment provides a durable finish, which is highly resistant to fading. It is applied in a modern paint facility, to achieve a consistent gloss and uniform coverage, with excellent edge coverage. The procedure is as follows: Stage 1: Alkaline Cleaner Stage 2: Fresh Water Rinse Stage 3: Iron Phosphate Treatment Stage 4: Zinc Phosphate Treatment Stage 5: Fresh Water Rinse Stage 6: Non-Chromate Sealer The finish coat is a thermosetting polyester powder paint coating applied with electrostatic equipment at a nominal 2 mils dry film thickness, and cured at 425 degrees F for 20 minutes. Finish color is ANSI-70 Light Gray. Paint thickness will be extended to 5 mils for these proposed breakers.
Technical Specifications	7.8.3	S-5	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Motor cutoff switch is not required with the 3AH35-MA magnetic actuated mechanism.
Technical Specifications	7.8.4 7.8.13	S-6	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Latch check switch is not required with the 3AH35-MA magnetic actuated mechanism.
Technical Specifications	7.8.9	S-6	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Manual maintenance or "slow closing" of the proposed circuit breaker is not required by any recommended maintenance procedure. A manual maintenance device is not included in this proposal.
Technical Specifications	7.8.10	S-6	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Pull-out type Fused disconnect switches will be supplied with cut-out type as described in section 7.11.7.
Technical Specifications	7.10	S-7	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Wiring within the sub-assembled magnetic actuator operator mechanism housing will be #16 AWG wire.
Technical Specifications	7.10.f 7.10.j	S-7	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FastOn terminals as used in wiring some of the components in the sub-assembled magnetic actuator operator mechanism housing.

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Design (Type) Test Data Summary

Type SDV7-MA – 15.5kV Outdoor Vacuum Circuit Breaker
1200A - 2000A continuous, 25kA short-circuit

Ratings:

Rated Maximum Voltage	15.5kV
Rated Power Frequency	60Hz
Rated Full Wave Lightning Impulse Voltage	110kV
Rated Continuous Current	1200A 2000A
Rated Short-Circuit & Short-Time Current	25kA
Short-Time Current Duration	3s
%dc Component	48%
Rated Interrupting Time	50ms/3-cycles
Rated Operating Duty Cycle	O – 0.3s – CO – 3min. –CO

Transient Recovery Voltage (IEEE C37.06-2009 and 37.011-2005): TRV peak value, u_c , terminal fault Time, t_3	29.2kV 32 μ s
Rated Closing & Latching Current Peak (260%) Equivalent rms (155%)	65kA 39kA
Capacitance Current Switching Isolated Bank Back-to-Back Line Charging Inrush Current (max peak) Inrush Current (max frequency) Switching Class	400A 400A 100A 10kA 4240Hz Class C2
Rated Out-of-Phase Switching Current	6.25kA

Test Description	ANSI / IEEE Standards Ref.	Test Requirement To Be Demonstrated	Result	Notes
Continuous current (Temperature rise)	C37.09-1999 ¶ 4.3	Temperature rise within limits in ANSI C37.04-1999 Table 1	Passed – 1200A	1
			Passed – 2000A	2
Withstand Voltage, Power Frequency	C37.09-1999 ¶ 4.4.3	50kV for 60s	Passed – 1200A	3
			Passed – 2000A	2
Withstand Voltage, Lightning Impulse (BIL)	C37.09-1999 ¶ 4.4.4; 4.4.6	110kV 1.2/50 μ s full wave(open or closed) 142kV 2 μ s chopped wave (closed)	Passed – 1200A	3
			Passed – 2000A	2
Short-Circuit Current Interrupting and Standard Operating Duty Cycle	C37.09-1999 ¶ 4.5, 4.8; 4.8.3.1; 4.8.3.2; 4.8.3.3; Table 1	2.5kA (10%) Three O's (TD 1) 7.5kA (30%) Three O's (TD 2) 15kA (60%) Three O's (TD 3) 25kA, O – 0.3s – CO - 3min – CO (TD 4) 25 kA Three O's (TD 5)	Passed	4
			Passed	
			Passed	
			Passed	
			Passed	
Closing and Latching	C37.09-1999 ¶ 4.8.4.1; Table 1	25kA sym, 10-cycles, 65kA peak	Passed	4
Single Phase Interrupting	C37.09-1999 ¶ 4.8.3.4; Table 1	25kA, symmetrical (TD 6) 25kA, asymmetrical (TD 7)	Passed	4
			Passed	4
Short Line Fault (Single Phase)	C37.09-1999 ¶ 4.8.1.6; 4.8.3.5; Table 1	17.5-20kA (70-80%), Three O's (TD 8) 22.5-23.8kA (90-95%), Three O's (TD 9)	Passed	4
			Passed	
Short Time Capability	C37.09-1999 ¶ 4.8.4.2; Table 1	25kA for 3s (TD 10)	Passed	4

Reference: 18-682-768-583

	01	Confidential Property of SIEMENS	Name: Certified Test Data	
	02/16/2012 TMO	DR: _____	Similar to:	
		CH: _____	Scale: NTS	Sheet 1 of 2
		AP: <u>TWO 02/12</u>	Part No. 18-682-768-483	Bulletin 02/12 Issue 01

Test Description	Standards Reference	Test Requirement To Be Demonstrated	Result	Notes
Service Capability	C37.09-1999 ¶ 4.8.4.3	800% of asymmetrical interrupting capability without maintenance	Passed	4
Load Current Switching	C37.09-1999 ¶ 4.9	3-7% and 95-100% of rated continuous current	Passed – 1200A Passed – 2000A	4
Capacitance Current Switching	C37.09a-2005	Line-charging, 3.7A and 33A Test duties LC1/CC1 and LC2/CC2 Class C2 (no restriks)	Passed (0 restriks)	4
		Capacitor switching, 400A Test duties BC1 and BC2 Class C2 (no restriks)	Passed (0 restriks)	4
Out-of-Phase Switching	C37.09-1999 ¶ 4.12	6.25kA (25% of rated short-circuit current)	Passed	4
Mechanical Endurance	C37.06-2009 Table 17	2000 operations	Passed (10,000 operations)	4
Seismic Analysis (Finite element model and Computer code SAP90)	IEEE 693-2005	(Optional) IEEE 693-2005 "high loading": 0.5g horizontal, 0.4g vertical (with added cross bracing) (inherently acceptable)	Passed	5
		(Optional) IBC-2006 with $S_S = 3.0g$ and $S_{DS} = 2.0g$ (highest values for continental US) (with added cross bracing) (static coefficient analysis)	Passed	5
		(Optional) Wind loading per IBC-2006 and ASCE 7-02, exposure C, 135mph wind load (with added cross bracing).	Passed	5
Rain Test	C37.20.2-1999 ¶ 6.2.10	7.1 gal/min. water at 60psi pressure per nozzle for 5 minutes	Passed	1

Notes:

- 1 Test conducted on SDV7-SE, 15.5kV, 25kA, 1200A (same current path and dielectric structure as SDV7-MA)
- 2 Test conducted on SDV7-SE, 15.5kV, 25kA, 2000A (same current path and dielectric structure as SDV7-MA)
- 3 Test conducted on SDV7-SE, 15.5kV, 25kA, 2000A unit, as the member of the family with the smallest dielectric clearances, and hence the worst case for testing.
- 4 TD4-TD10, close & latch, short-time (TD10), capacitance current switching (BC1 and BC2), mechanical endurance, and service capability demonstration conducted on 3AH35-MA operator, as enclosure structure is irrelevant to these tests. TD1-TD3, TD10 (short-time), capacitance current switching (LC1/CC1 and LC2/CC2), load current switching, out-of-phase switching conducted on SDV7-SE. Differences from SDV7-SE to SDV7-MA are not deemed material to these tests. TD10 (short-time) conducted on both variants as a conservative approach.
- 5 Analysis performed on SDV7, 27.6kV, 25kA, 1200A, considered weakest structure in the family.

Certificate: The data in this report is an accurate compilation based upon reading and interpretation of test log sheets and oscillographic records. Actual performance during test equals or exceeds that shown in this report.

T. W. Olsen

T. W. Olsen 16-February-2012

Reference: 18-682-768-583

	01	Confidential Property of		Name:	
	02/16/2012 TWO	SIEMENS		Certified Test Data	
		DR: _____	Similar to:		Bulletin 02/12
		CH: _____	Scale: NTS	Sheet 2 of 2	Part No. 18-682-768-483
		AP: <u>TWO 02/12</u>			Issue 01

Design (Type) Test Data Summary
Type SDV7-AR – 15.5kV Outdoor Vacuum Circuit Breaker

Rated Maximum Voltage	15.5kV
Rated Power Frequency	60Hz
Rated Full Wave Lightning Impulse Voltage	110kV
Rated Continuous Current	1200A 2000A 3000A
Rated Short-Circuit & Short-Time Current	20kA 25kA 31.5kA 40kA
Short-Time Current Duration	3s
%dc Component	48%
Rated Interrupting Time	58ms/3.5-cycles Optional 50ms/3-cycles
Rated Operating Duty Cycle	O – 0.3s – CO – 3min. – CO

Transient Recovery Voltage (IEEE C37.06-2009) TRV peak value, u_c , terminal fault Time, t_3	29.2kV 32 μ s
Rated Closing & Latching Current Peak (260%) Equivalent rms (155%)	52, 65, 82, 104kA 31, 39, 49, 62kA
Capacitance Current Switching Isolated Bank Back-to-Back Line Charging Inrush Current (max peak) Inrush Current (max frequency) Switching Class	400A 400A 100A 10kA 4240Hz Class C2
Internal Arc Resistance Accessibility Type Arcing Duration	2B 0.5s

Test Description	ANSI / IEEE Standards Ref.	Test Requirements To Be Demonstrated	Result
Internal Arc Fault	C37.20.7-2007	<ul style="list-style-type: none"> - Testing is performed with the low-voltage control or instrument compartment cover/door(s) removed. - Properly latched or secured doors, covers, and so on, do not open. - No fragmentation of the enclosure occurs within the time specified for the test. - Arcing does not cause holes in the freely accessible front, sides, and rear of the enclosure or in the walls isolating the low-voltage control or instrument compartment(s) - No vertically mounted indicators ignite as a result of escaping gases. - All the grounding connections remain effective. 	Passed

Notes:

1. Tests were performed using a 15.5kV, 40kA, 1200A, SDV7-AR unit which represents the worst case arcing conditions because the 1200A bus spacing has largest phase clearances of the 15.5kV SDV7 family resulting in the longest arcing length and the 40kA ratings is the highest of the 15.5kV SDV7 family.
2. Tests performed using a 15.5kV, 40kA, 1200A, SDV7-AR unit are considered representative of the 15.5kV SDV7 family as the other elements affecting performance are equivalent.
3. For design (type) test data un-related to internal arcing resistance for the 15.5kV, SDV7 family, refer to the appropriate certified test data sheet.

Certificate: The data in this report is an accurate summary of data from the original test log sheets and reports.



T. Woodyard
02-November-2011

01	SIEMENS		Name: Certified Test Data	
	DR: <u>TAW 11/2</u>	Similar to: 18-682-768-495, 18-682-768-496		Bulletin 11/11
	CH: _____	Scale: NONE	Sheet 1 of 1	Part No. 18-682-768-494



Siemens Industry, Inc.
7000 Siemens Road, Wendell, NC 27591 United States of America

City of Wilson
Booth & Associates

Name Kerry Fuller
Department RC-US SI DS OFF AE3
Application Engineer
Telephone 919-594-9117
E-mail kerry.fuller@siemens.com
Date April 2, 2020

Project Name: City of Wilson/Booth & Associates - 15kV 1200A SDV7 Breakers
Siemens Reference: SF201619428

Thank you for the opportunity afforded to Siemens Industry, Inc. to quote on this project.

Please find the attached Siemens technical and commercial proposal, which will remain in effect for 90 days from date of issue.

Should you have any questions or require additional clarification, please do not hesitate to contact the undersigned.

With kind regards,

Kerry Fuller

Rev #	Date	Description
0	4/3/2020	Initial firm offering.

Restricted information

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Scope of Supply

Item	Designation	Quantity	Unit price	Total price
1	SDV7-MA-AR-15kV-25kA-1200A	3.00	\$25,716.00	\$77,148.00
Offer Amount:				\$77,148.00

Item	Optional Pricing	Price
2	Optional Recommended Spare Parts	See Below

Item	Spare parts pricing above valid only if parts are purchased with circuit breakers. Customer may select any or all of these based on their requirement	Unit Price
Optional Recommended Spare Parts for Magnetic Actuator Breaker		
2a	Controller 160V/24-60V DC	\$1,171.00
2b	Capacitor board complete 160V	\$1,075.00
2c	Power supply assembly, 48VDC-MA	\$156.00
2d	Primary Bushing 15kV, 1200A	\$650.00

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General Specifications:

Outdoor Vacuum Circuit Breaker Details: Item 1 - SDV7-MA-AR-15kV-25kA-1200A	
Customer Name	City of Wilson
Project Name	City of Wilson/Booth & Associates - 15kV 1200A SDV7 Breakers
Siemens Proposal ID#	SF201619428
Customer Item Designation	SDV7-MA-AR-15kV-20kA-1200A
System	
Rated Voltage	15.5kV
Rated Current	1200 A (ANSI)
Frequency	60Hz
Breaker Rating Basis	25kA
Rated Closing and Latching Current	65 peak kA
Enclosure	
Cabinet material	Carbon Steel
Roof material	Stainless Steel
Internal Ground bar	One Ground bar required
High Seismic	Not provided
Exterior Paint	ANSI 70 (5 mils)
Control Panel	Relay Panel
ARC Vented	Required
Connections	
Stud Connector	1.25" Tin-Plated Bronze to 4 Hole Pad
Ground Connector	Bronze 2 hole to Cable #6-800 MCM
Control Terminal Blocks	General Electric – EB-25
Shorting Terminal blocks	General Electric – EB-27
Wiring Lug	Insulated Ring Tongue / AMP "Diamond-Grip" (PIDG)
Heaters	
Heater Application	Heater ½ Voltage, 600 W
Controls	
Release Combinations	Magnetic Actuator
Control voltage - MAG ACT	DC 48 V
Control voltage - closing - MAG ACT	DC 48 V
Control voltage - trip - MAG ACT	DC 48 V (3 cycle)
Auxiliary Switch, Plug Connector	22NO_22NC
Control Disconnect	Disconnect Fuse 3KN 3FU

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General Specifications (Continued):

Outdoor Vacuum Circuit Breaker Details: Item 1 - SDV7-MA-AR-15kV-25kA-1200A					
Specials					
Selection of Outlet and Light			Convenience Outlet / Light and Switch Required		
Convenience Outlet with Light Switch			GFCI RCPT 20A DOOR SW MCCB		
Loss of Control DC Voltage Alarm (27DC)			Required		
SDV7 Breaker Certified Test Report			Required		
Hand Crank for Manual Charging of the closing spring of BRKR			Not provided		
Emergency Stop			Pull to Trip		
Touch Up Paint			Not provided		
Accessories					
Qty	Description				
6	Stud Connector, 1.25" Tin-Plated Bronze to 4 Hole Pad				
2	Ground Connector, 1-500Kcmil				
Circuit Breaker					
Type	Current Rating	MVA/KA Rating	Trip Coil	Close & Latch Rating	Qty
SDV7-MA	1200A	25kA	Magnetic Actuator	65 peak kA	1
Current Transformers					
Type	Ratio	Accuracy	Thermal Rating Factor	Qty	
Bushing Mounted Current Transformer 1-3-5 X	1200:5A	C400	2.0	3	
Bushing Mounted Current Transformer 2-4-6 X	1200:5A	C400	2.0	3	
Bill of Material					
Qty	Part Number	Catalog	Description		
2	15172239084	8349K11	PLASTIC LAMP GUARD		
1	77910000775	5SJ4118-7HG41	MINIATURE CIRCUIT BREAKER,1P,15A (Heaters)		
1	77704000243	5SJ4120-7HG41	MINIATURE CIRCUIT BREAKER,1P,20A (LT & RCPT)		
1	77907100001	KRPA-11DG-48V	AUX.RLY,48VDC,2DPDT (27DC)		
1	77905627286	27E891	SOCKET,KRPA RELAY,120VAC,DPDT		
1	15171666085	837A407G01	TEST SWITCH, 2V/8C,FT-1		
1	77820000032	991AM28G01	TEST SWITCH, 10P, FT-1, Black Cover, Screw Terminals		
1	15171666075	129A528G01	TEST SWITCH, 10P, FT-1		
1	15172555144	2457D (W/18B-2B23)	CONTROL SWITCH,PIST		
1	77101000010	116B6708G42R52R4	IND LIGHT,RED,48VDC,RES,LED		
1	77101000011	116B6708G42G52G4	IND LIGHT,GREEN,48VDC,RES,LED		
1	77KF0000117	751502CCCCC7085A671	Feeder Protection Relay		

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Product Description:

SDV7 non-arc-resistant and SDV7-AR arc-resistant medium-voltage, outdoor distribution circuit breakers features and benefits:

- 15.5 kV, 27.6 kV and 38 kV ratings available
- Meets or exceeds the latest ANSI, IEEE and NEMA standards
- ANSI/IEEE "rain tested" enclosure (C37.20.2-1999)
- Large relay and control compartment
- Stainless steel exterior hardware
- Porcelain dry-type bushings with extended creep
- Highly reliable vacuum interrupters - MTTF over 57,000 years
- Moderate and high seismic qualification (Zones 1-4) available
- Extended capacitor switching (optional)
- Tested for out-of-phase switching ratings (ANSI/IEEE C37.09-1999).
- Enclosure types offered:
 - Standard: non-arc-resistant enclosure SDV7
 - Optional: arc-resistant, accessibility type 2B, tested to ANSI/IEEE C37.20.7 SDV7-AR.
- SDV7 distribution circuit breaker family includes:
 - SDV7-SE: SDV7 non-arc-resistant with stored-energy operator
 - SDV7-MA: SDV7 non-arc-resistant with magnetic-actuator operator
 - SDV7-SE-AR: SDV7-AR arc-resistant with stored-energy operator
 - SDV7-MA-AR: SDV7-AR arc-resistant with magnetic-actuator operator.
- Stored-energy operator features:
 - Time-proven type 3AH3 operator derived from operators introduced in 1977 (over 60,000 produced)
 - Common operator for all ratings
 - Short-circuit tested to ANSI/IEEE C37.09.
- Magnetic-actuator operator features:
 - Design adapted from type 3AH3 stored-energy operator configuration
 - High-voltage compartment configuration identical to stored-energy version
 - Short-circuit tested to ANSI/IEEE C37.09
 - Built-in fast discharge circuit for electronic controller power capacitors
- Manual opening handle requires very modest force for operation
- Electronic controller life estimated at 30 years.



Type SDV7
non-arc-resistant
distribution circuit breaker



Type SDV7-AR
arc-resistant
distribution circuit breaker

Internet page and documentation: <http://w3.usa.siemens.com/powerdistribution/us/en/product-portfolio/SDV7-Distribution-Circuit-Breaker/Pages/SDV7.aspx>

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Commercial considerations

Terms and conditions

Terms and Conditions as described in **City of Wilson, North Carolina, Specifications and Bid documents for 15kV Circuit Breakers prepared by Booth & Associates dated March 2020** will apply. Siemens hereby takes exception to any additional or different terms set forth in purchaser's request for proposal, specification, purchase order or any other document of purchaser. Acceptance of additional or different terms must be specifically agreed to in writing by Siemens.

Quotation validity

This proposal will remain in effect for **90** days, unless changed in the interim upon written notice from Siemens. Documents and related correspondence shall be sent to the local Siemens office or an authorized Siemens distributor. The proposal is based upon Siemens interpretation of the plans and specifications and is subject for correction for errors. This document and any other document specifically referred to as being a part hereof constitute the entire agreement on the subject matter, and shall not be modified except in writing signed by both parties.

Conditions of sale

Price policy	Prices are firm for quoted shipment. In the event shipment is delayed for any reason that is beyond the control of Siemens Industry, Inc., prices shall be increased ½ % of total purchase order price for each full month or fraction thereof that shipment is delayed beyond the specified shipping date. In case of customer delays, price escalation on material/services supplied by our sub-suppliers will have to be reconfirmed separately.
Payment terms	Progress payment per schedule in this offer, which is subject to credit approval. All payments are due NET 30 days from date of each invoice.
INCO & Delivery:	2010 - FOB Destination. Freight prepaid and allowed to continental USA. Additional freight charges will apply for destinations outside the continental USA.
Other terms	No taxes are included in the quoted price.
Back charges:	Siemens will only accept reasonable back charges if notified in writing within five days of customer identifying a repair is needed and afforded an opportunity to cure within a commercially reasonable time.

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Conditions of Sale (Continued)

<p>Purchase Order:</p>	<p>In the event a purchase order is generated based on the scope of supply described in this proposal, the purchase order must have the following information included to process the order and eliminate delays during the order entry process.</p> <p>For NEW customers to Siemens please provide a tax certificate and W-9 form prior to or upon submission of a purchase order.</p> <ol style="list-style-type: none"> The customer's Purchase Order must be made payable to: <p style="text-align: center;">Siemens Industry, Inc.</p> <p style="text-align: center;">7000 Siemens Road</p> <p style="text-align: center;">Wendell, NC 27591</p> The correct proposal/revision number should be referenced on the purchase order. PO must refer to the Siemens Industry, Inc. Standard Terms and Conditions of Sale for Products and Services or any pre-negotiated terms with Siemens Industry, Inc., as the case may be, to be the applicable terms for the order. The purchase order net price must match the proposal price as outlined in the proposal summary.
<p>Storage</p>	<p>In the event shipment is delayed for any reason that is beyond the control of Siemens Industry, Inc., and the equipment needs to be kept in storage, a storage fee in the amount of 1.5% of the equipment value shall be charged per month on the first day of each month.</p> <p>In the event that shipment is delayed for reasons beyond our control, payment shall be effected against shipping agent's confirmation that the material is ready for shipment or storage.</p>
<p>Warranty</p>	<p>The warranty period will be 60 months from the date of shipment (bill of lading) or 54 months from date of commissioning, whichever event may occur first. For details related to the specific guidelines of Siemens Warranty please refer to Standard Terms and Conditions of Sale for Products and Services www.usa.siemens.com/mvterms</p>

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Conditions of Sale (Continued)

<p>Export Control</p>	<p>Buyer agrees to comply with all applicable export laws and regulations relating to the resale, exportation, transfer, assignment, disposal or use of the goods, including any Purchaser acknowledges that [SOC/Seller/Contractor/Consortium] is required to comply with applicable export laws and regulations relating to the sale, exportation, transfer, usage of the [Work/Equipment/Services] provided under the Contract, including any export license requirements. Purchaser agrees that such [Work/Equipment/Services] shall not indirectly be used, exported, sold, transferred, assigned or otherwise disposed of in a manner which will result in non-compliance with such applicable export laws and regulations of the continuing performance by [SOC/Seller/Contractor/Consortium] of its obligations hereunder that compliance with such export laws and regulations be maintained at all times</p> <p>PURCHASER AGREES TO INDEMNIFY AND HOLD [SOC/SELLER/CONTRACTOR/CONSORTIUM] HARMLESS FROM ANY AND ALL COSTS, LIABILITIES, PENALTIES, SANCTIONS AND FINES RELATED TO NON-COMPLIANCE WITH APPLICABLE EXPORT LAWS AND REGULATIONS.</p>										
<p>Conflict Minerals</p>	<p>Siemens will make commercially reasonable efforts to comply with the Dodd-Frank Wall Street Reform and Consumer Protection Act's provisions requirements concerning conflict minerals. Conflict minerals as defined herein mean tin, tantalum, tungsten and gold ("Materials"). Specifically, Siemens will exercise reasonable efforts to identify, through Siemens AG's global supply system, the source and chain of custody of the Materials used in the Products to the extent of the information available to Siemens; and will, upon reasonable advance written request, provide Buyer with a complete and accurate conflict mineral report detailing the source and chain of custody of Materials (in a format that is as comprehensive as called for by the Industry Electronic Citizenship Coalition ("EICC") and the Global e-Sustainability Initiative ("GeSI") reporting template.</p>										
<p>Cancellation Schedule</p>	<p>In the event that Buyer cancels the purchase order, or portions of the purchase order in writing, the following charges, as a percentage of the total purchase order price for the order, or applicable portions thereof, will apply:</p> <table border="0" style="width: 100%;"> <tr> <td style="padding-left: 40px;">After receipt of order, or before approval drawings are completed</td> <td style="text-align: right; vertical-align: bottom;">15%</td> </tr> <tr> <td style="padding-left: 40px;">After approval drawing completion, but before release to manufacturing</td> <td style="text-align: right; vertical-align: bottom;">30%</td> </tr> <tr> <td style="padding-left: 40px;">Before start of fabrication, but after major component purchase</td> <td style="text-align: right; vertical-align: bottom;">60%</td> </tr> <tr> <td style="padding-left: 40px;">After start of fabrication, but before start of assembly</td> <td style="text-align: right; vertical-align: bottom;">80%</td> </tr> <tr> <td style="padding-left: 40px;">After assembly has started</td> <td style="text-align: right; vertical-align: bottom;">100%</td> </tr> </table>	After receipt of order, or before approval drawings are completed	15%	After approval drawing completion, but before release to manufacturing	30%	Before start of fabrication, but after major component purchase	60%	After start of fabrication, but before start of assembly	80%	After assembly has started	100%
After receipt of order, or before approval drawings are completed	15%										
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After assembly has started	100%										

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Schedule

The table(s) below provides typical project lead times for projects requiring approval drawings (Approval)

- The project cycle starts after receipt of a technically and commercially clear purchase order.
- **The quoted lead times are based on current engineering and factory production capacity. Actual lead times are dependent on available production capacity at time of order entry and return of approved drawings.**

Description	Submission of approval drawing package ¹	Customer review	Equipment ready for shipment (after release to manufacture)	Factory Acceptance Testing (FAT), if applicable (additional charges may apply)	Total cycle time to shipment from factory
SDV7-MA-AR 15	4	2	18	XX	24 (weeks)

¹Submission of approval drawing package consists of:

- General arrangement and floor plan with primary one-line diagram
- General information
- Three-line diagram
- Schematic
- Panel arrangement
- Accessories list
- Nameplate engraving
- Electrical bill of materials

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Comments and clarifications

The quoted price is based on the following documents, which are received with the request for quote:

Commercial Documents

1. City of Wilson, North Carolina, Specifications and Bid documents for 15kV Circuit Breakers prepared by Booth & Associates dated March 2020.

Technical Documents

1. Drawing:
 - a. No drawing submitted.
2. Specification:
 - a. Technical Specifications

Commercial Comments

1. The **Customer Visual Inspection (CVI)** is an opportunity for the Customer Representative to visit our manufacturing facility for the purpose of visually inspecting their equipment. This includes a general survey of such things as the number of sections, general configuration, components used, shipping plans/splits, etc. Inspection does not include any type of powering up of the gear or any functionality test. An inspection does not include the support of the testing personnel on the floor. The factory will not charge the customer for a CVI visit. Food, travel, lodging, permits and miscellaneous expenses are to be borne by the customer.
2. The **Factory Acceptance Test (FAT)** is an opportunity for the Customer Representative to witness the testing of their equipment. A FAT will include a review of the engineered drawings prior to the floor visit to ensure understanding of functionality/sequence of operations, etc. The floor testing will consist of a functionality test of the overall gear as well as any testing required by applicable (ANSI/IEEE or NEMA/UL) codes or standards. Siemens encourages all customers to visit and tour our facility. If a FAT is required, a price adder of \$2,500.00 for the first day and \$1,000.00 per day until the FAT is complete applies for individuals or a group. FAT prices shown are only valid when conducted at the respective manufacturing facilities for the equipment. Food, travel, lodging, permits and miscellaneous expenses are not included in the above and are to be borne by the customer.
3. Field service, start-up, testing, commissioning, training and analysis/studies are to be supplied by others unless explicitly outlined in the scope of supply.
4. Relay settings, relay programming, system studies, coordination, interfacing and installation are to be supplied by others unless explicitly outlined in the scope of supply. Should this scope be required please refer to the "System Engineering Service" rate sheet at the end of the proposal.
5. Certificates for items such as seismic ratings are available for the standard product design. Project-specific certificates are not included in this proposal unless explicitly listed in the scope of supply.
6. This proposal is based on our best interpretation of the single line drawing and specification, and Siemens reserves the rights to revise the quotation if our interpretation differs from actual requirements.

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7. Additional technical comments and clarifications may be generated during the detailed engineering phase of the project.
8. This document and any other document specifically referred to as being a part hereof constitute the entire agreement on the subject matter, and shall not be modified except in writing signed by both parties
9. Siemens' obligation to fulfill this agreement is subject to the proviso that the fulfillment is not prevented by any impediments arising out of national and international foreign trade and customs requirements or any embargos (or any sanctions).
10. Goods quoted in this proposal are manufactured in Mexico, a NAFTA country. Any applicable Buy American provisions must be reviewed by Siemens to determine compliance. Customer must notify Siemens of any applicable Buy American requirements and provide Siemens with a complete and accurate copy of the applicable Buy American provisions. Siemens reserves the right to reject any order where compliance with Buy American requirements is not possible or cannot be determined.
11. Siemens takes exception to external Codes of Conduct, Quality, Drug and Safety programs and policies. This offer is based on Siemens Code of Conduct, Quality, Drug and Safety programs and policies.
12. Insurance endorsements, bonds and all other forms of surety, if required, shall be provided in accordance with Siemens guidelines using Siemens standard forms and rates.
13. Hard copies of the Siemens standard Installation, Operation and Maintenance manuals will be included in the accessories of the shipment. An electronic copy of the standard manual can be provided, upon request, by the Project Manager or Contract Administrator assigned to the project. Requirement for Special Operation and Maintenance Manuals will require a separate line item on the purchase order. Additional fees & time will apply to provide such special manuals, unless explicitly stated as included in our proposal.
14. The worldwide outbreak of the coronavirus disease ("COVID-19"), affects or is likely to affect usual business activities and/or the execution of work under this offer. As the impacts from COVID-19 are unknown and unknowable at this time, Siemens commitments regarding the scope contemplated hereunder including procurement lead-time, delivery date, resources, and schedule are provided without consideration of such potential impacts from COVID-19. Siemens is closely monitoring the development of COVID-19 and its associated impacts, and will endeavor to inform City of Wilson of the impacts that COVID-19 has or may have on Siemens' manufacturing, supply chain, operations, logistics, and personnel relating to Siemens' scope of supply contemplated hereunder. If required to overcome the consequences directly or indirectly caused by COVID-19, Siemens shall be entitled to relief of its obligations in schedule, price, or any other reasonably required adjustment of this offer. In the event equipment delivery is contemplated hereunder, Siemens shall be entitled to postpone or provide partial deliveries to the extent Siemens' ability to supply or deliver is impacted by COVID-19.

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List of Technical Clarifications / Deviations / Exceptions

Ref Item #	Section	Page #	Clarification	Deviation	Exception	Comment
General Conditions	7.0	GC-1	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Siemens is proposing the following Liquidated Damage clause: Seller fails to complete delivery of Goods within the time period as specified in the Purchase Order due to no fault of the Buyer, Seller shall pay to Buyer damages in the sum of .05% per complete week beyond the Goods delivery date until delivery is completed in accordance with the Purchase Order ("Liquidated Damages"). The parties acknowledge and agree that the Buyer's actual damages arising from a delay in delivery by the Seller would be difficult or impossible to calculate, and that in light of the circumstances, the amount of Liquidated Damages referenced herein represents a reasonable approximation of such damages and not a penalty. The Liquidated Damages referenced herein shall be in lieu of actual damages and shall constitute Buyer's sole remedy for any delay in the delivery of the goods. Aggregate Liquidated Damages shall not exceed 5% of the Purchase Order value of the Goods delayed. Liquidated Damages shall not apply in the following instances: 1. Goods delivered in a timely manner regardless of whether nonconformities are identified after delivery 2. Delay caused by Buyer not providing timely approval of drawings and commercial information 3. Events outside Seller's control
Technical Specifications	3.1.2	S-2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Remedies available to the customer will be as detailed in Siemens standard warranty clause. For details related to the specific guidelines of Siemens Warranty please refer to Section 7 of Standard Terms and Conditions of Sale for Products and Services at www.usa.siemens.com/myterms .
Technical Specifications	3.1.3	S-2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Siemens standard warranty will apply, except that the coverage period will be extended from 12/18 months to 54/60 months.
Technical Specifications	4.1	S-2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Siemens standard construction meets all applicable ANSI, NEMA, and IEEE standards.
Technical Specifications	5.0	S2-S4	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Siemens Standard Drawing Package created in AutoCAD-2004 will be provided. Certified test reports will be provided for each breaker at time of shipment. Siemens Standard Instruction Manuals will be provided with each breaker. Operation and Maintenance manuals will not be submitted for approval.
Technical Specifications	7.7.2	S-5	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Two stainless steel ground pads will be provided at diagonally opposite bottom corners of the cabinet. The ground pads are designed for use with through hardware and do not have tapped holes. Breaker height is field adjustable. See Outline Drawings for dimensions.

Restricted information

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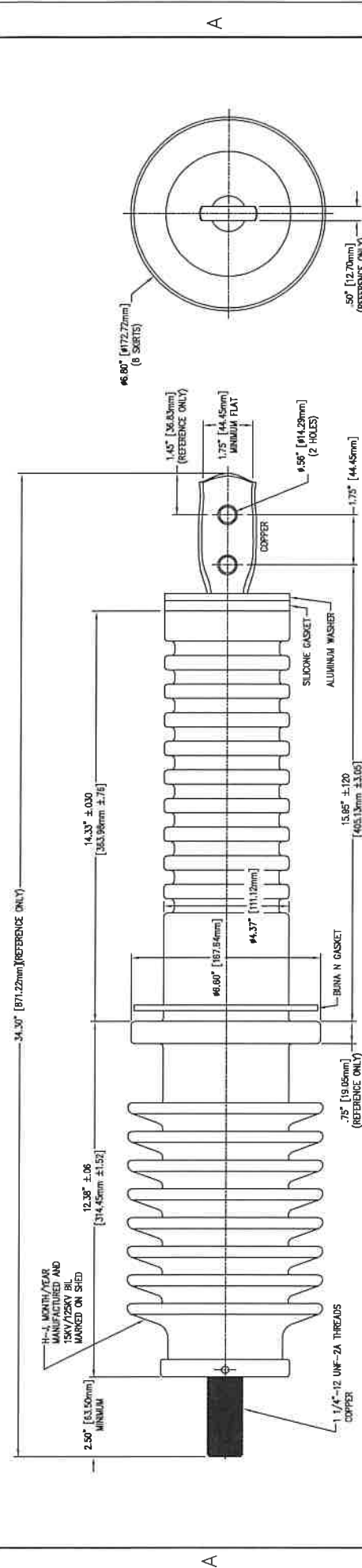
List of Technical Clarifications / Deviations / Exceptions (Continued)

Ref Item #	Section	Page #	Clarification	Deviation	Exception	Comment
Technical Specifications	7.7.6	S-5	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Siemens paint system used for outdoor equipment provides a durable finish, which is highly resistant to fading. It is applied in a modern paint facility, to achieve a consistent gloss and uniform coverage, with excellent edge coverage. The procedure is as follows: Stage 1: Alkaline Cleaner Stage 2: Fresh Water Rinse Stage 3: Iron Phosphate Treatment Stage 4: Zinc Phosphate Treatment Stage 5: Fresh Water Rinse Stage 6: Non-Chromate Sealer The finish coat is a thermosetting polyester powder paint coating applied with electrostatic equipment at a nominal 2 mils dry film thickness, and cured at 425 degrees F for 20 minutes. Finish color is ANSI-70 Light Gray. Paint thickness will be extended to 5 mils for these proposed breakers.
Technical Specifications	7.8.3	S-5	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Motor cutoff switch is not required with the 3AH35-MA magnetic actuated mechanism.
Technical Specifications	7.8.4 7.8.13	S-6	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Latch check switch is not required with the 3AH35-MA magnetic actuated mechanism.
Technical Specifications	7.8.9	S-6	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Manual maintenance or "slow closing" of the proposed circuit breaker is not required by any recommended maintenance procedure. A manual maintenance device is not included in this proposal.
Technical Specifications	7.8.10	S-6	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Pull-out type Fused disconnect switches will be supplied with cut-out type as described in section 7.11.7.
Technical Specifications	7.10	S-7	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Wiring within the sub-assembled magnetic actuator operator mechanism housing will be #16 AWG wire.
Technical Specifications	7.10.f 7.10.j	S-7	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FastOn terminals as used in wiring some of the components in the sub-assembled magnetic actuator operator mechanism housing.

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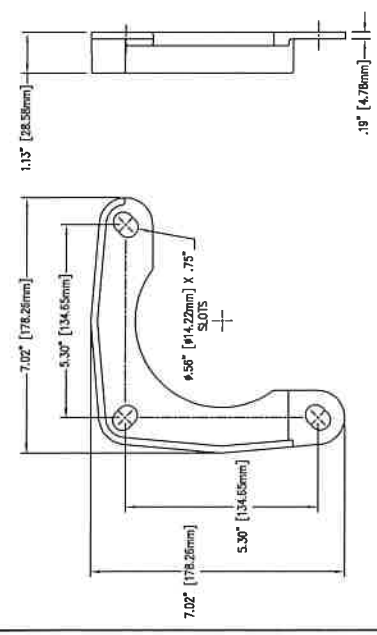
2



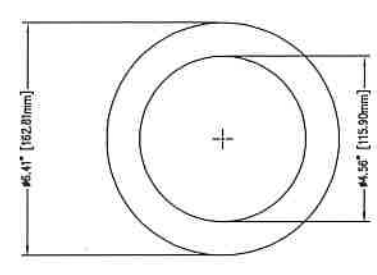
NOTES:

1. BUSHING MATERIAL IS WET PROCESS ELECTRICAL PORCELAIN
2. GRAY GLAZE ANSI 70 SKY GREY - MUNSELL 5B6 7.0/0.4
4. 60HZ WITHSTAND: 50KV DRY
45KV WET
5. CREEPAGE: > 25.20" TOP
> 18.30" BOTTOM
6. STRIKE: 11.00"
7. TOP AND BOTTOM TERMINALS ARE TIN PLATED
8. BILL: 125KV
9. CANTILEVER STRENGTH: REQUIRED: 1250 NEWTONS
TESTED: 1349 NEWTONS

ROOF MOUNTING FLANGE
TWO PIECES REQUIRED PER ASSEMBLY
MATERIAL: ALUMINUM TENZALLOY



BUSHING TO ROOF GASKET
ONE REQUIRED PER ASSEMBLY
MATERIAL: .19\"/>



STANDARD DRAWING
DO NOT DESTROY, CHANGE OR
ADD MARK NOT'S W/O APPROVAL
OF DESIGN ENGINEERING.

USED ON: SDV

MFG. PROJ. VARIOUS

CAD GENERATED, DO NOT CHANGE MANUALLY.

LINE	ITEM	DESCRIPTION	QUANTITY	UNIT
01	11-21-08	ADDED NOTE 9.		DLC
02	10-13-2010	DEFINED STUD MATERIAL		DND
03	10-04-2012	REVISED SDVS & SDV7 TO SDV.		DLC
04	10-08-2013	REVISED PART NUMBER OF DRAWING WAS A7EQ32406116002		DND

SIEMENS Siemens Industry Inc. Raleigh, NC		PRODUCT TYPE SDV		DOCUMENT NO. BUSHING, 15KV-1200A-SDV		DATE 	
PRELIMINARY APPROVAL CERTIFIED		SCALE NTS		DRAWN 		BY 	
CUSTOMER PROJECT 		CUSTOMER ORDER 		DATE 		BY 	
1-PLACE DECIMAL ± .05 2-PLACE DECIMAL ± .01 3-PLACE DECIMAL ± .01		ANGLE 		SIMILAR TO 		DR D/C 	
MATERIAL 		PART NUMBER A7E32406116002		SCALE 3.5X		SHEET NO. 01-F	
WEIGHT (LBS) 48		PART NAME BUSHING, 15KV-1200A-SDV		CHARACTERISTICS 			

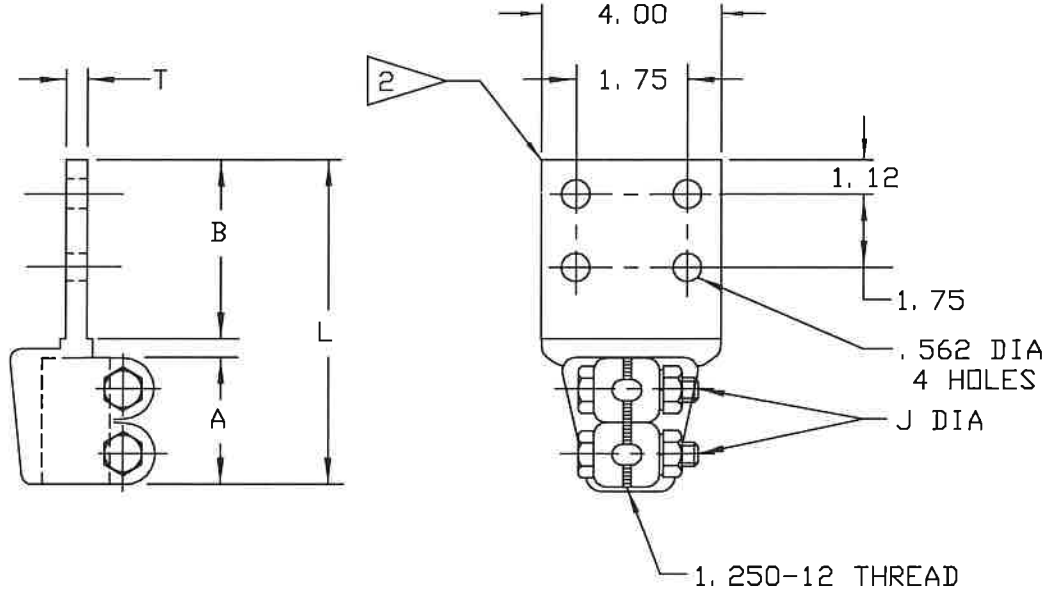
2

REV'D 04/02/2012

APPROVED VENDORS	CATALOG NO.	A	B	J	L	T	ALTERNATE
BURNDY	FD66D6W	1.75	4.00	.38	6.84	.38	
DELTA	PM58C12-1-412-E	1.50	4.50	.38	6.38	.38	
H.J. ENTERPRISES	BHDSF40-005TP	2.38	4.25	.50	7.00	.38	

NOTES:

- DIM. SHOWN ARE VENDOR REF DIM.
- ROUNDED OR SQUARED CORNERS, VENDOR'S OPTION.
- TIN PLATE PER ACP5-631B



SIEMENS SALES ORDER:	PRELIMINARY APPROVAL:	PRODUCT TYPE	SIEMENS Siemens Industry Inc. Raleigh, NC
LINE ITEM:	CERTIFIED:	SDV7-***	
CUSTOMER:	SCALE NTS		DOCUMENT NAME:
CUSTOMER PROJECT:	DRAWN:		STUD CONNECTOR, BRONZE, TIN PLATED
GROUP:	APPRV:		1.25 STUD TO 4 HOLE FLAT PAD
CUSTOMER ORDER:	DATE:	DATE:	SDV7-*** 27.6-25-1200
			QTY:

STANDARD DRAWING
DO NOT DESTROY, CHANGE OR ADD MARK NO'S W/O APPROVAL OF DESIGN ENGINEERING.

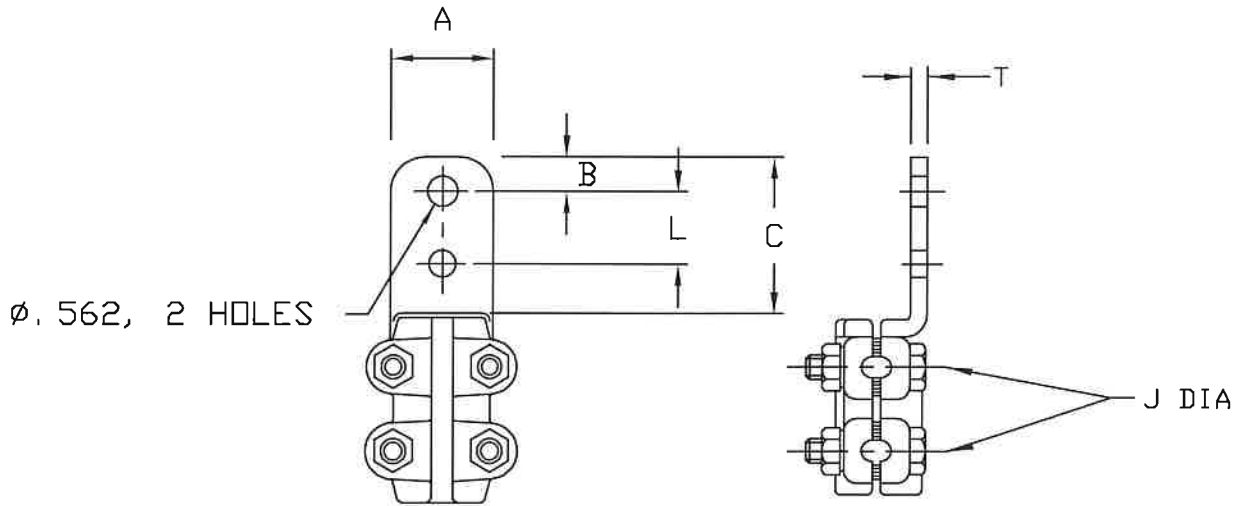
USED ON: SDV 2R: * CAD GENERATED, DO NOT CHANGE MANUALLY.

01 01/27/99		BAAN SYNC RTG E_SDV-010207C		SIEMENS Siemens Industry Inc. Raleigh, NC		1-PLACE DECIMAL ±		ANGULAR	SIMILAR TO	
02 01/12/01		ADDED NEW VENDOR E_SDV-010418A RTG		DATA BASE 721\62432101		2-PLACE DECIMAL ±		MACHINED SURFACE TEXTURE	DR DLC BULLETIN	
03 05/09/01		REVISED APPROVED VENDORS LIST. DMJ		CURRENT DATE 10/08/2013		3-PLACE DECIMAL ±			CH DLC 10/13	
04 01/21/10		REVISED *USED DN* REFERENCE TO SDV. WAS SDV4. DKD		PART NUMBER 9-19 72-162-432-101				ISS 20-21 05		
05 10/08/13		MATERIAL MAKE FROM: 72-112-054-042		N-C 2 N 10/08/2013				SCALE NTS		SHEET NO. 1 OF F

APPROVED VENDORS	CATALOG NO.	A	B	C	J	L	T	ALTERNATE
BURNDY	NAH342NW	2.06	.62	3.00	.50	1.75	.25	
DELTA	HZRD19-2N-E	1.75	.62	3.25	.38	1.75	.38	
HJ	BSWL10-005TP	1.50	.62	3.00	.38	1.75	.38	

NOTES:

1. TERMINAL CONNECTOR, FLAT PAD WITH (2) TWO .562 DIA HOLES ON 1.75 CENTERS, #6 TO 800 MCM CABLE. DIM. SHOWN ARE VENDOR REF DIM.
2. BRONZE, TIN PLATED



SIEMENS SALES ORDER:	PRELIMINARY APPROVAL CERTIFIED X	PRODUCT TYPE SDV7-***	SIEMENS Siemens Industry Inc. Raleigh, NC
LINE ITEM:		SCALE NTS	DOCUMENT NAME: TERMINAL CONNECTOR SDV7-*** 27.6-20-2000-RP
CUSTOMER:		DRAWN: DKD	
CUSTOMER PROJECT:		APPRV: DKD	
GROUP:		DATE: DATE	QTY:
CUSTOMER ORDER:			

STANDARD DRAWING
DO NOT DESTROY, CHANGE OR ADD MARK NO'S W/O APPROVAL OF DESIGN ENGINEERING.

USED ON: SDV

2R:

* CAD GENERATED, DO NOT CHANGE MANUALLY.

07	06	05	04	03	02	SIEMENS Siemens Industry Inc. Raleigh, NC			
REVISD 'USED ON' REFERENCE TO SDV, WAS SDVG. DKD	REVISED APPROVED VENDORS LIST. DMJ	REVISED BORDER HJ ONLY APPROVED VENDOR. DKD	ADDED 'HJ' AS APPROVED VENDOR.	REPLACED TITLE-BLOCK WITH STD. TITLEBLOCK. DLC	WJJ/11-10-86	1-PLACE DECIMAL ±	ANGULAR	SIMILAR TO	
10/08/13	01/22/10	02/09/09	02/22/07 JE	01/27/99		2-PLACE DECIMAL ±		DR BF	BULLETIN
						3-PLACE DECIMAL ±		CH BF	10 / 13
MATERIAL						DATA BASE	721/62438001	MACHINED SURFACE TEXTURE	APP WKM
TYPE 22		REP. 23	PART NAME 24-43		N.M. 44-48	CURRENT DATE 3-8	PART NUMBER 9-19	ISS 20-21	
D	P	TERMINAL CONNECTOR				10/08/2013	72-162-438-001	07	
						49-53	SCALE NTS	CHARACTERISTICS	SHEET NO. 1

