

Form 5500 Department of the Treasury Internal Revenue Service Department of Labor Employee Benefits Security Administration Pension Benefit Guaranty Corporation	Annual Return/Report of Employee Benefit Plan This form is required to be filed for employee benefit plans under sections 104 and 4065 of the Employee Retirement Income Security Act of 1974 (ERISA) and sections 6057(b) and 6058(a) of the Internal Revenue Code (the Code). <p style="text-align: center;">▶ Complete all entries in accordance with the instructions to the Form 5500.</p>	OMB Nos. 1210-0110 1210-0089 <div style="text-align: center; font-size: 24pt; font-weight: bold;">2017</div> This Form is Open to Public Inspection
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Part I	Annual Report Identification Information		
For calendar plan year 2017 or fiscal plan year beginning <u>12/01/2017</u> and ending <u>11/30/2018</u>			
A	This return/report is for:	☐ a multiemployer plan ☐ a multiple-employer plan (Filers checking this box must attach a list of participating employer information in accordance with the form instructions.)	
	☒ a single-employer plan ☐ a DFE (specify) ____		
B	This return/report is:	☐ the first return/report ☐ the final return/report ☐ an amended return/report ☐ a short plan year return/report (less than 12 months)	
C	If the plan is a collectively-bargained plan, check here. ▶ ☒		
D	Check box if filing under:	☒ Form 5558 ☐ automatic extension ☐ the DFVC program ☐ special extension (enter description)	

Part II	Basic Plan Information —enter all requested information		
1a	Name of plan <u>THOMAS & BETTS CORPORATION PENSION PLAN FOR BARGAINING UNIT EMPLOYEES</u>	1b	Three-digit plan number (PN) ▶ <u>003</u>
		1c	Effective date of plan <u>03/01/1971</u>
2a	Plan sponsor's name (employer, if for a single-employer plan) Mailing address (include room, apt., suite no. and street, or P.O. Box) City or town, state or province, country, and ZIP or foreign postal code (if foreign, see instructions) <u>ABB INSTALLATION PRODUCTS INC.</u> <u>860 RIDGE LAKE BOULEVARD</u> <u>MEMPHIS, TN 38120</u>	2b	Employer Identification Number (EIN) <u>22-1326940</u>
		2c	Plan Sponsor's telephone number <u>901-252-5000</u>
		2d	Business code (see instructions) <u>335900</u>

Caution: A penalty for the late or incomplete filing of this return/report will be assessed unless reasonable cause is established.

Under penalties of perjury and other penalties set forth in the instructions, I declare that I have examined this return/report, including accompanying schedules, statements and attachments, as well as the electronic version of this return/report, and to the best of my knowledge and belief, it is true, correct, and complete.

SIGN HERE	Filed with authorized/valid electronic signature.	09/12/2019	DANIEL HAGMANN
	Signature of plan administrator	Date	Enter name of individual signing as plan administrator
SIGN HERE			
	Signature of employer/plan sponsor	Date	Enter name of individual signing as employer or plan sponsor
SIGN HERE			
	Signature of DFE	Date	Enter name of individual signing as DFE

For Paperwork Reduction Act Notice, see the Instructions for Form 5500.

Form 5500 (2017)
v. 170203

3a Plan administrator's name and address ☒ Same as Plan Sponsor	3b Administrator's EIN 3c Administrator's telephone number <div style="background-color: #cccccc; height: 40px; width: 100%;"></div>
4 If the name and/or EIN of the plan sponsor or the plan name has changed since the last return/report filed for this plan, enter the plan sponsor's name, EIN, the plan name and the plan number from the last return/report: a Sponsor's name THOMAS & BETTS CORPORATION c Plan Name THOMAS & BETTS CORPORATION PENSION PLAN FOR BARGAINING UNIT EMPLOYEES	4b EIN 22-1326940 4d PN 003
5 Total number of participants at the beginning of the plan year	5 760
6 Number of participants as of the end of the plan year unless otherwise stated (welfare plans complete only lines 6a(1) , 6a(2) , 6b , 6c , and 6d).	
a(1) Total number of active participants at the beginning of the plan year	6a(1) 129
a(2) Total number of active participants at the end of the plan year	6a(2) 124
b Retired or separated participants receiving benefits	6b 400
c Other retired or separated participants entitled to future benefits	6c 140
d Subtotal. Add lines 6a(2) , 6b , and 6c	6d 664
e Deceased participants whose beneficiaries are receiving or are entitled to receive benefits.	6e 80
f Total. Add lines 6d and 6e	6f 744
g Number of participants with account balances as of the end of the plan year (only defined contribution plans complete this item)	6g 0
h Number of participants who terminated employment during the plan year with accrued benefits that were less than 100% vested	6h 0
7 Enter the total number of employers obligated to contribute to the plan (only multiemployer plans complete this item).....	7

8a If the plan provides pension benefits, enter the applicable pension feature codes from the List of Plan Characteristics Codes in the instructions:

1B 3H

b If the plan provides welfare benefits, enter the applicable welfare feature codes from the List of Plan Characteristics Codes in the instructions:

9a Plan funding arrangement (check all that apply)	9b Plan benefit arrangement (check all that apply)
(1) ☐ Insurance (2) ☐ Code section 412(e)(3) insurance contracts (3) ☒ Trust (4) ☐ General assets of the sponsor	(1) ☐ Insurance (2) ☐ Code section 412(e)(3) insurance contracts (3) ☒ Trust (4) ☐ General assets of the sponsor

10 Check all applicable boxes in 10a and 10b to indicate which schedules are attached, and, where indicated, enter the number attached. (See instructions)

a Pension Schedules

- (1)** ☒ **R** (Retirement Plan Information)
- (2)** ☐ **MB** (Multiemployer Defined Benefit Plan and Certain Money Purchase Plan Actuarial Information) - signed by the plan actuary
- (3)** ☒ **SB** (Single-Employer Defined Benefit Plan Actuarial Information) - signed by the plan actuary

b General Schedules

- (1)** ☒ **H** (Financial Information)
- (2)** ☐ **I** (Financial Information – Small Plan)
- (3)** ☐ 0 **A** (Insurance Information)
- (4)** ☒ **C** (Service Provider Information)
- (5)** ☒ **D** (DFE/Participating Plan Information)
- (6)** ☐ **G** (Financial Transaction Schedules)

Part III Form M-1 Compliance Information (to be completed by welfare benefit plans)

11a If the plan provides welfare benefits, was the plan subject to the Form M-1 filing requirements during the plan year? (See instructions and 29 CFR 2520.101-2.) ☐ Yes ☐ No

If "Yes" is checked, complete lines 11b and 11c.

11b Is the plan currently in compliance with the Form M-1 filing requirements? (See instructions and 29 CFR 2520.101-2.) ☐ Yes ☐ No

11c Enter the Receipt Confirmation Code for the 2017 Form M-1 annual report. If the plan was not required to file the 2017 Form M-1 annual report, enter the Receipt Confirmation Code for the most recent Form M-1 that was required to be filed under the Form M-1 filing requirements. (Failure to enter a valid Receipt Confirmation Code will subject the Form 5500 filing to rejection as incomplete.)

Receipt Confirmation Code _____

<div>SCHEDULE SB (Form 5500) Department of the Treasury Internal Revenue Service Department of Labor Employee Benefits Security Administration Pension Benefit Guaranty Corporation</div>	<div>Single-Employer Defined Benefit Plan Actuarial Information</div> <div>This schedule is required to be filed under section 104 of the Employee Retirement Income Security Act of 1974 (ERISA) and section 6059 of the Internal Revenue Code (the Code).</div> <div>▶ File as an attachment to Form 5500 or 5500-SF.</div>	<div>OMB No. 1210-0110</div> <div>2017</div> <div>This Form is Open to Public Inspection</div>
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For calendar plan year 2017 or fiscal plan year beginning 12/01/2017 and ending 11/30/2018

▶ Round off amounts to nearest dollar.
▶ Caution: A penalty of \$1,000 will be assessed for late filing of this report unless reasonable cause is established.

A Name of plan THOMAS & BETTS CORPORATION PENSION PLAN FOR BARGAINING UNIT EMPLOYEES	B Three-digit plan number (PN) ▶ 003
C Plan sponsor's name as shown on line 2a of Form 5500 or 5500-SF ABB INSTALLATION PRODUCTS INC.	D Employer Identification Number (EIN) 22-1326940

E Type of plan: ☒ Single ☐ Multiple-A ☐ Multiple-B	F Prior year plan size: ☐ 100 or fewer ☐ 101-500 ☒ More than 500
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Part I	Basic Information
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1 Enter the valuation date: Month 12 Day 01 Year 2017			
2 Assets:			
a Market value	2a	38566790	
b Actuarial value	2b	38566790	
3 Funding target/participant count breakdown	(1) Number of participants	(2) Vested Funding Target	(3) Total Funding Target
a For retired participants and beneficiaries receiving payment	486	23193379	23193379
b For terminated vested participants	145	4345592	4345592
c For active participants	129	4259492	4542268
d Total	760	31798463	32081239
4 If the plan is in at-risk status, check the box and complete lines (a) and (b)..... ☐			
a Funding target disregarding prescribed at-risk assumptions	4a		
b Funding target reflecting at-risk assumptions, but disregarding transition rule for plans that have been in at-risk status for fewer than five consecutive years and disregarding loading factor	4b		
5 Effective interest rate	5	5.81 %	
6 Target normal cost	6	260000	

Statement by Enrolled Actuary
To the best of my knowledge, the information supplied in this schedule and accompanying schedules, statements and attachments, if any, is complete and accurate. Each prescribed assumption was applied in accordance with applicable law and regulations. In my opinion, each other assumption is reasonable (taking into account the experience of the plan and reasonable expectations) and such other assumptions, in combination, offer my best estimate of anticipated experience under the plan.

SIGN HERE		
Signature of actuary	08/26/2019	Date
JOHN D STEELE	17-05326	Most recent enrollment number
WILLIS TOWERS WATSON US LLC	203-326-5400	Telephone number (including area code)
3001 SUMMER STREET FLOOR 5 STAMFORD, CT 06905		
Firm name		
Address of the firm		

If the actuary has not fully reflected any regulation or ruling promulgated under the statute in completing this schedule, check the box and see instructions ☐

Part II Beginning of Year Carryover and Prefunding Balances

	(a) Carryover balance	(b) Prefunding balance
7 Balance at beginning of prior year after applicable adjustments (line 13 from prior year)	0	5087921
8 Portion elected for use to offset prior year's funding requirement (line 35 from prior year)	0	191466
9 Amount remaining (line 7 minus line 8)	0	4896455
10 Interest on line 9 using prior year's actual return of <u>12.16</u> %	0	595409
11 Prior year's excess contributions to be added to prefunding balance:		
a Present value of excess contributions (line 38a from prior year)		0
b(1) Interest on the excess, if any, of line 38a over line 38b from prior year Schedule SB, using prior year's effective interest rate of <u>6.01</u> %		0
b(2) Interest on line 38b from prior year Schedule SB, using prior year's actual return		0
c Total available at beginning of current plan year to add to prefunding balance		0
d Portion of (c) to be added to prefunding balance		0
12 Other reductions in balances due to elections or deemed elections	0	0
13 Balance at beginning of current year (line 9 + line 10 + line 11d – line 12)	0	5491864

Part III Funding Percentages

14 Funding target attainment percentage	14	103.09%
15 Adjusted funding target attainment percentage	15	120.21%
16 Prior year's funding percentage for purposes of determining whether carryover/prefunding balances may be used to reduce current year's funding requirement	16	100.14%
17 If the current value of the assets of the plan is less than 70 percent of the funding target, enter such percentage.	17	%

Part IV Contributions and Liquidity Shortfalls**18** Contributions made to the plan for the plan year by employer(s) and employees:

(a) Date (MM-DD-YYYY)	(b) Amount paid by employer(s)	(c) Amount paid by employees	(a) Date (MM-DD-YYYY)	(b) Amount paid by employer(s)	(c) Amount paid by employees
Totals ▶			18(b)	0	18(c) 0

19 Discounted employer contributions – see instructions for small plan with a valuation date after the beginning of the year:

a Contributions allocated toward unpaid minimum required contributions from prior years.	19a	0
b Contributions made to avoid restrictions adjusted to valuation date	19b	0
c Contributions allocated toward minimum required contribution for current year adjusted to valuation date	19c	0

20 Quarterly contributions and liquidity shortfalls:

- a** Did the plan have a "funding shortfall" for the prior year? ☐ Yes ☒ No
- b** If line 20a is "Yes," were required quarterly installments for the current year made in a timely manner? ☐ Yes ☐ No
- c** If line 20a is "Yes," see instructions and complete the following table as applicable:

Liquidity shortfall as of end of quarter of this plan year			
(1) 1st	(2) 2nd	(3) 3rd	(4) 4th

Part V Assumptions Used to Determine Funding Target and Target Normal Cost

21 Discount rate:				
a Segment rates:	1st segment: 4.16 %	2nd segment: 5.72 %	3rd segment: 6.48 %	☐ N/A, full yield curve used
b Applicable month (enter code)				21b 4
22 Weighted average retirement age				22 63
23 Mortality table(s) (see instructions) ☐ Prescribed - combined ☒ Prescribed - separate ☐ Substitute				

Part VI Miscellaneous Items

24 Has a change been made in the non-prescribed actuarial assumptions for the current plan year? If "Yes," see instructions regarding required attachment	☒ Yes ☐ No
25 Has a method change been made for the current plan year? If "Yes," see instructions regarding required attachment	☐ Yes ☒ No
26 Is the plan required to provide a Schedule of Active Participants? If "Yes," see instructions regarding required attachment	☒ Yes ☐ No
27 If the plan is subject to alternative funding rules, enter applicable code and see instructions regarding attachment	27

Part VII Reconciliation of Unpaid Minimum Required Contributions For Prior Years

28 Unpaid minimum required contributions for all prior years	28	0
29 Discounted employer contributions allocated toward unpaid minimum required contributions from prior years (line 19a)	29	0
30 Remaining amount of unpaid minimum required contributions (line 28 minus line 29)	30	0

Part VIII Minimum Required Contribution For Current Year

31 Target normal cost and excess assets (see instructions):			
a Target normal cost (line 6)	31a	260000	
b Excess assets, if applicable, but not greater than line 31a	31b	260000	
32 Amortization installments:	Outstanding Balance	Installment	
a Net shortfall amortization installment	0	0	
b Waiver amortization installment	0	0	
33 If a waiver has been approved for this plan year, enter the date of the ruling letter granting the approval (Month _____ Day _____ Year _____) and the waived amount	33		
34 Total funding requirement before reflecting carryover/prefunding balances (lines 31a - 31b + 32a + 32b - 33)	34	0	
	Carryover balance	Prefunding balance	Total balance
35 Balances elected for use to offset funding requirement	0	0	0
36 Additional cash requirement (line 34 minus line 35)	36	0	
37 Contributions allocated toward minimum required contribution for current year adjusted to valuation date (line 19c)	37	0	
38 Present value of excess contributions for current year (see instructions)			
a Total (excess, if any, of line 37 over line 36)	38a	0	
b Portion included in line 38a attributable to use of prefunding and funding standard carryover balances	38b	0	
39 Unpaid minimum required contribution for current year (excess, if any, of line 36 over line 37)	39	0	
40 Unpaid minimum required contributions for all years	40	0	

Part IX Pension Funding Relief Under Pension Relief Act of 2010 (See Instructions)

41 If an election was made to use PRA 2010 funding relief for this plan:			
a Schedule elected	☐ 2 plus 7 years ☐ 15 years		
b Eligible plan year(s) for which the election in line 41a was made	☐ 2008 ☐ 2009 ☐ 2010 ☐ 2011		
42 Amount of acceleration adjustment	42	0	
43 Excess installment acceleration amount to be carried over to future plan years	43	0	

SCHEDULE C (Form 5500) Department of the Treasury Internal Revenue Service Department of Labor Employee Benefits Security Administration Pension Benefit Guaranty Corporation	Service Provider Information This schedule is required to be filed under section 104 of the Employee Retirement Income Security Act of 1974 (ERISA). ▶ File as an attachment to Form 5500.	OMB No. 1210-0110
		2017
		This Form is Open to Public Inspection.

For calendar plan year 2017 or fiscal plan year beginning **12/01/2017** and ending **11/30/2018**

A Name of plan THOMAS & BETTS CORPORATION PENSION PLAN FOR BARGAINING UNIT EMPLOYEES	B Three-digit plan number (PN) ▶ 003
C Plan sponsor's name as shown on line 2a of Form 5500 ABB INSTALLATION PRODUCTS INC.	D Employer Identification Number (EIN) 22-1326940

Part I	Service Provider Information (see instructions)
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You must complete this Part, in accordance with the instructions, to report the information required for **each person** who received, directly or indirectly, \$5,000 or more in total compensation (i.e., money or anything else of monetary value) in connection with services rendered to the plan or the person's position with the plan during the plan year. If a person received **only** eligible indirect compensation for which the plan received the required disclosures, you are required to answer line 1 but are not required to include that person when completing the remainder of this Part.

1 Information on Persons Receiving Only Eligible Indirect Compensation

a Check "Yes" or "No" to indicate whether you are excluding a person from the remainder of this Part because they received only eligible indirect compensation for which the plan received the required disclosures (see instructions for definitions and conditions).. ☒ Yes ☐ No

b If you answered line 1a "Yes," enter the name and EIN or address of each person providing the required disclosures for the service providers who received only eligible indirect compensation. Complete as many entries as needed (see instructions).

(b) Enter name and EIN or address of person who provided you disclosures on eligible indirect compensation TRILANTIC CAPITAL MANAGEMENT LLC 26-4600829

(b) Enter name and EIN or address of person who provided you disclosures on eligible indirect compensation WELLINGTON TRUST COMPANY, NA 04-2755549

(b) Enter name and EIN or address of person who provided you disclosures on eligible indirect compensation HARBOURVEST PARTNERS LP 74-3130888
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(b) Enter name and EIN or address of person who provided you disclosures on eligible indirect compensation OAKTREE CAPITAL MANAGEMENT, LP 26-0189082

(b) Enter name and EIN or address of person who provided you disclosures on eligible indirect compensation

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2. Information on Other Service Providers Receiving Direct or Indirect Compensation. Except for those persons for whom you answered "Yes" to line 1a above, complete as many entries as needed to list each person receiving, directly or indirectly, \$5,000 or more in total compensation (i.e., money or anything else of value) in connection with services rendered to the plan or their position with the plan during the plan year. (See instructions).

(a) Enter name and EIN or address (see instructions)

ALIGHT

36-2235791

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
13 64 50	NONE	45558	Yes ☐ No ☒	Yes ☐ No ☐		Yes ☐ No ☐

(a) Enter name and EIN or address (see instructions)

PIMCO

33-0629048

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
27 52 28 51	NONE	30015	Yes ☒ No ☐	Yes ☒ No ☐	0	Yes ☐ No ☒

(a) Enter name and EIN or address (see instructions)

GRANT THORNTON

36-6055558

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
10 50	NONE	22600	Yes ☐ No ☒	Yes ☐ No ☐		Yes ☐ No ☐

2. Information on Other Service Providers Receiving Direct or Indirect Compensation. Except for those persons for whom you answered "Yes" to line 1a above, complete as many entries as needed to list each person receiving, directly or indirectly, \$5,000 or more in total compensation (i.e., money or anything else of value) in connection with services rendered to the plan or their position with the plan during the plan year. (See instructions).

(a) Enter name and EIN or address (see instructions)

TOWERS WATSON

53-0181291

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
11 17 50	NONE	21048	Yes ☐ No ☒	Yes ☐ No ☐		Yes ☐ No ☐

(a) Enter name and EIN or address (see instructions)

BNY MELLON

13-5160382

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
21 50	NONE	19271	Yes ☒ No ☐	Yes ☒ No ☐	0	Yes ☐ No ☒

(a) Enter name and EIN or address (see instructions)

DODGE & COX

94-1441976

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
27 52 28 51	NONE	12351	Yes ☒ No ☐	Yes ☒ No ☐	0	Yes ☐ No ☒

2. Information on Other Service Providers Receiving Direct or Indirect Compensation. Except for those persons for whom you answered "Yes" to line 1a above, complete as many entries as needed to list each person receiving, directly or indirectly, \$5,000 or more in total compensation (i.e., money or anything else of value) in connection with services rendered to the plan or their position with the plan during the plan year. (See instructions).

(a) Enter name and EIN or address (see instructions)

GMO EDO FUND

27-2982895

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
27 52 28 51	NONE	11730	Yes ☒ No ☐	Yes ☒ No ☐	0	Yes ☒ No ☐

(a) Enter name and EIN or address (see instructions)

ABB BUSINESS SERVICES

36-3100018

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
27 50	PLAN SPONSOR	10633	Yes ☐ No ☒	Yes ☐ No ☐		Yes ☐ No ☐

(a) Enter name and EIN or address (see instructions)

BROWN ADVISORY

46-1017637

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
27 28 51	NONE	9222	Yes ☐ No ☒	Yes ☐ No ☐		Yes ☐ No ☐

2. Information on Other Service Providers Receiving Direct or Indirect Compensation. Except for those persons for whom you answered "Yes" to line 1a above, complete as many entries as needed to list each person receiving, directly or indirectly, \$5,000 or more in total compensation (i.e., money or anything else of value) in connection with services rendered to the plan or their position with the plan during the plan year. (See instructions).

(a) Enter name and EIN or address (see instructions)

MACKAY SHIELDS HYAC FUND

26-4248749

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
27 28 51	NONE	7859	Yes ☐ No ☒	Yes ☐ No ☐		Yes ☐ No ☐

(a) Enter name and EIN or address (see instructions)

MARATHON ASSET MANAGEMENT

95-4328983

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
27 52 28 51	NONE	7540	Yes ☒ No ☐	Yes ☒ No ☐	0	Yes ☐ No ☒

(a) Enter name and EIN or address (see instructions)

DDJ CAPITAL MANAGEMENT LLC

04-3300754

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
27 28 51	NONE	6744	Yes ☐ No ☒	Yes ☐ No ☐		Yes ☐ No ☐

2. Information on Other Service Providers Receiving Direct or Indirect Compensation. Except for those persons for whom you answered "Yes" to line 1a above, complete as many entries as needed to list each person receiving, directly or indirectly, \$5,000 or more in total compensation (i.e., money or anything else of value) in connection with services rendered to the plan or their position with the plan during the plan year. (See instructions).

(a) Enter name and EIN or address (see instructions)

PARETO INVESTMENT MANAGEMENT

98-0437330

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
27 28 51	NONE	5742	Yes ☐ No ☒	Yes ☐ No ☐		Yes ☐ No ☐

(a) Enter name and EIN or address (see instructions)

NEUBERGER BERMAN

61-1591182

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
27 52 28 51	NONE	5260	Yes ☒ No ☐	Yes ☒ No ☐	0	Yes ☐ No ☒

(a) Enter name and EIN or address (see instructions)

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
			Yes ☐ No ☐	Yes ☐ No ☐		Yes ☐ No ☐

Part I Service Provider Information (continued)

3. If you reported on line 2 receipt of indirect compensation, other than eligible indirect compensation, by a service provider, and the service provider is a fiduciary or provides contract administrator, consulting, custodial, investment advisory, investment management, broker, or recordkeeping services, answer the following questions for (a) each source from whom the service provider received \$1,000 or more in indirect compensation and (b) each source for whom the service provider gave you a formula used to determine the indirect compensation instead of an amount or estimated amount of the indirect compensation. Complete as many entries as needed to report the required information for each source.

(a) Enter service provider name as it appears on line 2	(b) Service Codes (see instructions)	(c) Enter amount of indirect compensation
(d) Enter name and EIN (address) of source of indirect compensation	(e) Describe the indirect compensation, including any formula used to determine the service provider's eligibility for or the amount of the indirect compensation.	
(a) Enter service provider name as it appears on line 2	(b) Service Codes (see instructions)	(c) Enter amount of indirect compensation
(d) Enter name and EIN (address) of source of indirect compensation	(e) Describe the indirect compensation, including any formula used to determine the service provider's eligibility for or the amount of the indirect compensation.	
(a) Enter service provider name as it appears on line 2	(b) Service Codes (see instructions)	(c) Enter amount of indirect compensation
(d) Enter name and EIN (address) of source of indirect compensation	(e) Describe the indirect compensation, including any formula used to determine the service provider's eligibility for or the amount of the indirect compensation.	

Part II Service Providers Who Fail or Refuse to Provide Information

4 Provide, to the extent possible, the following information for each service provider who failed or refused to provide the information necessary to complete this Schedule.

(a) Enter name and EIN or address of service provider (see instructions)	(b) Nature of Service Code(s)	(c) Describe the information that the service provider failed or refused to provide
(a) Enter name and EIN or address of service provider (see instructions)	(b) Nature of Service Code(s)	(c) Describe the information that the service provider failed or refused to provide
(a) Enter name and EIN or address of service provider (see instructions)	(b) Nature of Service Code(s)	(c) Describe the information that the service provider failed or refused to provide
(a) Enter name and EIN or address of service provider (see instructions)	(b) Nature of Service Code(s)	(c) Describe the information that the service provider failed or refused to provide
(a) Enter name and EIN or address of service provider (see instructions)	(b) Nature of Service Code(s)	(c) Describe the information that the service provider failed or refused to provide
(a) Enter name and EIN or address of service provider (see instructions)	(b) Nature of Service Code(s)	(c) Describe the information that the service provider failed or refused to provide

Part III Termination Information on Accountants and Enrolled Actuaries (see instructions)
(complete as many entries as needed)

a Name:	b EIN:
c Position:	
d Address:	e Telephone:

Explanation:

a Name:	b EIN:
c Position:	
d Address:	e Telephone:

Explanation:

a Name:	b EIN:
c Position:	
d Address:	e Telephone:

Explanation:

a Name:	b EIN:
c Position:	
d Address:	e Telephone:

Explanation:

a Name:	b EIN:
c Position:	
d Address:	e Telephone:

Explanation:

Department of the Treasury
Internal Revenue Service

Department of Labor
Employee Benefits Security Administration

DFE/Participating Plan Information

This schedule is required to be filed under section 104 of the Employee Retirement Income Security Act of 1974 (ERISA).

► **File as an attachment to Form 5500.**

OMB No. 1210-0110

2017

This Form is Open to Public Inspection.

For calendar plan year 2017 or fiscal plan year beginning 12/01/2017 and ending 11/30/2018

A Name of plan
THOMAS & BETTS CORPORATION PENSION PLAN FOR BARGAINING UNIT EMPLOYEES

B Three-digit plan number (PN)	▶	003
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C Plan or DFE sponsor's name as shown on line 2a of Form 5500
ABB INSTALLATION PRODUCTS INC.

D	Employer Identification Number (EIN)	22-1326940
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Part I	Information on interests in MTIAs, CCTs, PSAs, and 103-12 IEs (to be completed by plans and DFEs) (Complete as many entries as needed to report all interests in DFEs)
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a Name of MTIA, CCT, PSA, or 103-12 IE: **ABB INC. MASTER TRUST**

b Name of sponsor of entity listed in (a): ABB INC.

c EIN-PN	36-3100018-050	d Entity code	M	e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions)	34892000
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a Name of MTIA, CCT, PSA, or 103-12 IE:

b Name of sponsor of entity listed in (a):

c EIN-PN	d Entity code	e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions)
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a Name of MTIA, CCT, PSA, or 103-12 IE:

b Name of sponsor of entity listed in (a):

c EIN-PN	d Entity code	e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions)
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a Name of MTIA, CCT, PSA, or 103-12 IE:

b Name of sponsor of entity listed in (a):

c EIN-PN	d Entity code	e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions)
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a Name of MTIA, CCT, PSA, or 103-12 IE:

b Name of sponsor of entity listed in (a):

c EIN-PN	d Entity code	e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions)
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a Name of MTIA, CCT, PSA, or 103-12 IE:

b Name of sponsor of entity listed in (a):

c EIN-PN	d Entity code	e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions)
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a Name of MTIA, CCT, PSA, or 103-12 IE:

b Name of sponsor of entity listed in (a):

c EIN-PN	d Entity code	e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions)
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a Name of MTIA, CCT, PSA, or 103-12 IE:**b** Name of sponsor of entity listed in (a):**c** EIN-PN**d** Entity
code**e** Dollar value of interest in MTIA, CCT, PSA, or
103-12 IE at end of year (see instructions)**a** Name of MTIA, CCT, PSA, or 103-12 IE:**b** Name of sponsor of entity listed in (a):**c** EIN-PN**d** Entity
code**e** Dollar value of interest in MTIA, CCT, PSA, or
103-12 IE at end of year (see instructions)**a** Name of MTIA, CCT, PSA, or 103-12 IE:**b** Name of sponsor of entity listed in (a):**c** EIN-PN**d** Entity
code**e** Dollar value of interest in MTIA, CCT, PSA, or
103-12 IE at end of year (see instructions)**a** Name of MTIA, CCT, PSA, or 103-12 IE:**b** Name of sponsor of entity listed in (a):**c** EIN-PN**d** Entity
code**e** Dollar value of interest in MTIA, CCT, PSA, or
103-12 IE at end of year (see instructions)**a** Name of MTIA, CCT, PSA, or 103-12 IE:**b** Name of sponsor of entity listed in (a):**c** EIN-PN**d** Entity
code**e** Dollar value of interest in MTIA, CCT, PSA, or
103-12 IE at end of year (see instructions)**a** Name of MTIA, CCT, PSA, or 103-12 IE:**b** Name of sponsor of entity listed in (a):**c** EIN-PN**d** Entity
code**e** Dollar value of interest in MTIA, CCT, PSA, or
103-12 IE at end of year (see instructions)**a** Name of MTIA, CCT, PSA, or 103-12 IE:**b** Name of sponsor of entity listed in (a):**c** EIN-PN**d** Entity
code**e** Dollar value of interest in MTIA, CCT, PSA, or
103-12 IE at end of year (see instructions)**a** Name of MTIA, CCT, PSA, or 103-12 IE:**b** Name of sponsor of entity listed in (a):**c** EIN-PN**d** Entity
code**e** Dollar value of interest in MTIA, CCT, PSA, or
103-12 IE at end of year (see instructions)**a** Name of MTIA, CCT, PSA, or 103-12 IE:**b** Name of sponsor of entity listed in (a):**c** EIN-PN**d** Entity
code**e** Dollar value of interest in MTIA, CCT, PSA, or
103-12 IE at end of year (see instructions)**a** Name of MTIA, CCT, PSA, or 103-12 IE:**b** Name of sponsor of entity listed in (a):**c** EIN-PN**d** Entity
code**e** Dollar value of interest in MTIA, CCT, PSA, or
103-12 IE at end of year (see instructions)

Part II Information on Participating Plans (to be completed by DFEs)

(Complete as many entries as needed to report all participating plans)

a Plan name**b** Name of
plan sponsor**c** EIN-PN**a** Plan name**b** Name of
plan sponsor**c** EIN-PN**a** Plan name**b** Name of
plan sponsor**c** EIN-PN**a** Plan name**b** Name of
plan sponsor**c** EIN-PN**a** Plan name**b** Name of
plan sponsor**c** EIN-PN**a** Plan name**b** Name of
plan sponsor**c** EIN-PN**a** Plan name**b** Name of
plan sponsor**c** EIN-PN**a** Plan name**b** Name of
plan sponsor**c** EIN-PN**a** Plan name**b** Name of
plan sponsor**c** EIN-PN**a** Plan name**b** Name of
plan sponsor**c** EIN-PN**a** Plan name**b** Name of
plan sponsor**c** EIN-PN**a** Plan name**b** Name of
plan sponsor**c** EIN-PN

SCHEDULE H (Form 5500) <small>Department of the Treasury Internal Revenue Service</small> <small>Department of Labor Employee Benefits Security Administration</small> <small>Pension Benefit Guaranty Corporation</small>	Financial Information This schedule is required to be filed under section 104 of the Employee Retirement Income Security Act of 1974 (ERISA), and section 6058(a) of the Internal Revenue Code (the Code). ► File as an attachment to Form 5500.	OMB No. 1210-0110 2017 This Form is Open to Public Inspection
For calendar plan year 2017 or fiscal plan year beginning <u>12/01/2017</u> and ending <u>11/30/2018</u>		
A Name of plan <u>THOMAS & BETTS CORPORATION PENSION PLAN FOR BARGAINING UNIT EMPLOYEES</u>	B Three-digit plan number (PN) ►	<u>003</u>
C Plan sponsor's name as shown on line 2a of Form 5500 <u>ABB INSTALLATION PRODUCTS INC.</u>	D Employer Identification Number (EIN) <u>22-1326940</u>	

Part I	Asset and Liability Statement		(a) Beginning of Year	(b) End of Year
1 Current value of plan assets and liabilities at the beginning and end of the plan year. Combine the value of plan assets held in more than one trust. Report the value of the plan's interest in a commingled fund containing the assets of more than one plan on a line-by-line basis unless the value is reportable on lines 1c(9) through 1c(14). Do not enter the value of that portion of an insurance contract which guarantees, during this plan year, to pay a specific dollar benefit at a future date. Round off amounts to the nearest dollar. MTIAs, CCTs, PSAs, and 103-12 IEs do not complete lines 1b(1), 1b(2), 1c(8), 1g, 1h, and 1i. CCTs, PSAs, and 103-12 IEs also do not complete lines 1d and 1e. See instructions.				
	Assets			
a	Total noninterest-bearing cash	1a		
b	Receivables (less allowance for doubtful accounts):			
	(1) Employer contributions	1b(1)		
	(2) Participant contributions	1b(2)		
	(3) Other.....	1b(3)		
c	General investments:			
	(1) Interest-bearing cash (include money market accounts & certificates of deposit)	1c(1)		
	(2) U.S. Government securities.....	1c(2)		
	(3) Corporate debt instruments (other than employer securities):			
	(A) Preferred	1c(3)(A)		
	(B) All other.....	1c(3)(B)		
	(4) Corporate stocks (other than employer securities):			
	(A) Preferred	1c(4)(A)		
	(B) Common	1c(4)(B)		
	(5) Partnership/joint venture interests	1c(5)		
	(6) Real estate (other than employer real property)	1c(6)		
	(7) Loans (other than to participants)	1c(7)		
	(8) Participant loans	1c(8)		
	(9) Value of interest in common/collective trusts.....	1c(9)		
	(10) Value of interest in pooled separate accounts.....	1c(10)		
	(11) Value of interest in master trust investment accounts	1c(11)	38516000	34892000
	(12) Value of interest in 103-12 investment entities	1c(12)		
	(13) Value of interest in registered investment companies (e.g., mutual funds).....	1c(13)		
	(14) Value of funds held in insurance company general account (unallocated contracts).....	1c(14)		
	(15) Other	1c(15)		

		(a) Beginning of Year	(b) End of Year
1d	Employer-related investments:		
(1)	Employer securities	1d(1)	
(2)	Employer real property	1d(2)	
e	Buildings and other property used in plan operation	1e	
f	Total assets (add all amounts in lines 1a through 1e)	1f	38516000 34892000
Liabilities			
g	Benefit claims payable	1g	
h	Operating payables	1h	
i	Acquisition indebtedness	1i	
j	Other liabilities	1j	
k	Total liabilities (add all amounts in lines 1g through 1j)	1k	0 0
Net Assets			
l	Net assets (subtract line 1k from line 1f)	1l	38516000 34892000

Part II Income and Expense Statement

2 Plan income, expenses, and changes in net assets for the year. Include all income and expenses of the plan, including any trust(s) or separately maintained fund(s) and any payments/receipts to/from insurance carriers. Round off amounts to the nearest dollar. MTIAs, CCTs, PSAs, and 103-12 IEs do not complete lines 2a, 2b(1)(E), 2e, 2f, and 2g.

		(a) Amount	(b) Total
a	Contributions:		
(1)	Received or receivable in cash from: (A) Employers	2a(1)(A)	
	(B) Participants	2a(1)(B)	
	(C) Others (including rollovers)	2a(1)(C)	
(2)	Noncash contributions	2a(2)	
(3)	Total contributions. Add lines 2a(1)(A) , (B) , (C) , and line 2a(2)	2a(3)	0
b	Earnings on investments:		
(1)	Interest:		
	(A) Interest-bearing cash (including money market accounts and certificates of deposit)	2b(1)(A)	
	(B) U.S. Government securities	2b(1)(B)	
	(C) Corporate debt instruments	2b(1)(C)	
	(D) Loans (other than to participants)	2b(1)(D)	
	(E) Participant loans	2b(1)(E)	
	(F) Other	2b(1)(F)	
	(G) Total interest. Add lines 2b(1)(A) through (F)	2b(1)(G)	0
(2)	Dividends: (A) Preferred stock	2b(2)(A)	
	(B) Common stock	2b(2)(B)	
	(C) Registered investment company shares (e.g. mutual funds)	2b(2)(C)	
	(D) Total dividends. Add lines 2b(2)(A) , (B) , and (C)	2b(2)(D)	0
(3)	Rents	2b(3)	
(4)	Net gain (loss) on sale of assets: (A) Aggregate proceeds	2b(4)(A)	
	(B) Aggregate carrying amount (see instructions)	2b(4)(B)	
	(C) Subtract line 2b(4)(B) from line 2b(4)(A) and enter result	2b(4)(C)	0
(5)	Unrealized appreciation (depreciation) of assets: (A) Real estate	2b(5)(A)	
	(B) Other	2b(5)(B)	
	(C) Total unrealized appreciation of assets. Add lines 2b(5)(A) and (B)	2b(5)(C)	0

		(a) Amount	(b) Total
(6) Net investment gain (loss) from common/collective trusts	2b(6)		
(7) Net investment gain (loss) from pooled separate accounts	2b(7)		
(8) Net investment gain (loss) from master trust investment accounts	2b(8)		-785000
(9) Net investment gain (loss) from 103-12 investment entities	2b(9)		
(10) Net investment gain (loss) from registered investment companies (e.g., mutual funds).....	2b(10)		
c Other income.....	2c		
d Total income. Add all income amounts in column (b) and enter total.....	2d		-785000

Expenses

e Benefit payment and payments to provide benefits:			
(1) Directly to participants or beneficiaries, including direct rollovers.....	2e(1)	2603000	
(2) To insurance carriers for the provision of benefits	2e(2)		
(3) Other	2e(3)		
(4) Total benefit payments. Add lines 2e(1) through (3).....	2e(4)		2603000
f Corrective distributions (see instructions)	2f		
g Certain deemed distributions of participant loans (see instructions).....	2g		
h Interest expense.....	2h		
i Administrative expenses: (1) Professional fees	2i(1)	48245	
(2) Contract administrator fees	2i(2)	45558	
(3) Investment advisory and management fees	2i(3)	97357	
(4) Other	2i(4)	44840	
(5) Total administrative expenses. Add lines 2i(1) through (4).....	2i(5)		236000
j Total expenses. Add all expense amounts in column (b) and enter total.....	2j		2839000

Net Income and Reconciliation

k Net income (loss). Subtract line 2j from line 2d	2k		-3624000
l Transfers of assets:			
(1) To this plan.....	2l(1)		
(2) From this plan	2l(2)		

Part III Accountant's Opinion

3 Complete lines 3a through 3c if the opinion of an independent qualified public accountant is attached to this Form 5500. Complete line 3d if an opinion is not attached.

a The attached opinion of an independent qualified public accountant for this plan is (see instructions):

(1) ☐ Unqualified (2) ☐ Qualified (3) ☒ Disclaimer (4) ☐ Adverse

b Did the accountant perform a limited scope audit pursuant to 29 CFR 2520.103-8 and/or 103-12(d)? ☒ Yes ☐ No

c Enter the name and EIN of the accountant (or accounting firm) below:

(1) Name: GRANT THORNTON LLP

(2) EIN: 36-6055558

d The opinion of an independent qualified public accountant is **not attached** because:

(1) ☐ This form is filed for a CCT, PSA, or MTIA. (2) ☐ It will be attached to the next Form 5500 pursuant to 29 CFR 2520.104-50.

Part IV Compliance Questions

4 CCTs and PSAs do not complete Part IV. MTIAs, 103-12 IEs, and GIAs do not complete lines 4a, 4e, 4f, 4g, 4h, 4k, 4m, 4n, or 5. 103-12 IEs also do not complete lines 4j and 4l. MTIAs also do not complete line 4l.

During the plan year:

a Was there a failure to transmit to the plan any participant contributions within the time period described in 29 CFR 2510.3-102? Continue to answer "Yes" for any prior year failures until fully corrected. (See instructions and DOL's Voluntary Fiduciary Correction Program.).....

b Were any loans by the plan or fixed income obligations due the plan in default as of the close of the plan year or classified during the year as uncollectible? Disregard participant loans secured by participant's account balance. (Attach Schedule G (Form 5500) Part I if "Yes" is checked.)

	Yes	No	Amount
4a		X	
4b		X	

		Yes	No	Amount
c Were any leases to which the plan was a party in default or classified during the year as uncollectible? (Attach Schedule G (Form 5500) Part II if "Yes" is checked.)	4c		X	
d Were there any nonexempt transactions with any party-in-interest? (Do not include transactions reported on line 4a. Attach Schedule G (Form 5500) Part III if "Yes" is checked.)	4d		X	
e Was this plan covered by a fidelity bond?	4e	X		10000000
f Did the plan have a loss, whether or not reimbursed by the plan's fidelity bond, that was caused by fraud or dishonesty?	4f		X	
g Did the plan hold any assets whose current value was neither readily determinable on an established market nor set by an independent third party appraiser?	4g		X	
h Did the plan receive any noncash contributions whose value was neither readily determinable on an established market nor set by an independent third party appraiser?	4h		X	
i Did the plan have assets held for investment? (Attach schedule(s) of assets if "Yes" is checked, and see instructions for format requirements.)	4i		X	
j Were any plan transactions or series of transactions in excess of 5% of the current value of plan assets? (Attach schedule of transactions if "Yes" is checked, and see instructions for format requirements.)	4j		X	
k Were all the plan assets either distributed to participants or beneficiaries, transferred to another plan, or brought under the control of the PBGC?	4k		X	
l Has the plan failed to provide any benefit when due under the plan?	4l		X	
m If this is an individual account plan, was there a blackout period? (See instructions and 29 CFR 2520.101-3.)	4m			
n If 4m was answered "Yes," check the "Yes" box if you either provided the required notice or one of the exceptions to providing the notice applied under 29 CFR 2520.101-3.	4n			

5a Has a resolution to terminate the plan been adopted during the plan year or any prior plan year? ☐ Yes ☒ No
 If "Yes," enter the amount of any plan assets that reverted to the employer this year _____.

5b If, during this plan year, any assets or liabilities were transferred from this plan to another plan(s), identify the plan(s) to which assets or liabilities were transferred. (See instructions.)

5b(1) Name of plan(s)	5b(2) EIN(s)	5b(3) PN(s)

5c If the plan is a defined benefit plan, is it covered under the PBGC insurance program (See ERISA section 4021.)? ☒ Yes ☐ No ☐ Not determined
 If "Yes" is checked, enter the My PAA confirmation number from the PBGC premium filing for this plan year 4153045. (See instructions.)

<div>SCHEDULE R (Form 5500) Department of the Treasury Internal Revenue Service Department of Labor Employee Benefits Security Administration Pension Benefit Guaranty Corporation</div>	<div>Retirement Plan Information</div> <div>This schedule is required to be filed under sections 104 and 4065 of the Employee Retirement Income Security Act of 1974 (ERISA) and section 6058(a) of the Internal Revenue Code (the Code).</div> <div>► File as an attachment to Form 5500.</div>	<div>OMB No. 1210-0110</div> <div>2017</div> <div>This Form is Open to Public Inspection.</div>
For calendar plan year 2017 or fiscal plan year beginning 12/01/2017 and ending 11/30/2018		
A Name of plan THOMAS & BETTS CORPORATION PENSION PLAN FOR BARGAINING UNIT EMPLOYEES		B Three-digit plan number (PN) ► 003
C Plan sponsor's name as shown on line 2a of Form 5500 ABB INSTALLATION PRODUCTS INC.		D Employer Identification Number (EIN) 22-1326940
Part I	Distributions	
All references to distributions relate only to payments of benefits during the plan year.		
1 Total value of distributions paid in property other than in cash or the forms of property specified in the instructions		1 0
2 Enter the EIN(s) of payor(s) who paid benefits on behalf of the plan to participants or beneficiaries during the year (if more than two, enter EINs of the two payors who paid the greatest dollar amounts of benefits): EIN(s): 04-3192613		
Profit-sharing plans, ESOPs, and stock bonus plans, skip line 3.		
3 Number of participants (living or deceased) whose benefits were distributed in a single sum, during the plan year		3 2
Part II	Funding Information (If the plan is not subject to the minimum funding requirements of section 412 of the Internal Revenue Code or ERISA section 302, skip this Part.)	
4 Is the plan administrator making an election under Code section 412(d)(2) or ERISA section 302(d)(2)? ☐ Yes ☒ No ☐ N/A If the plan is a defined benefit plan, go to line 8.		
5 If a waiver of the minimum funding standard for a prior year is being amortized in this plan year, see instructions and enter the date of the ruling letter granting the waiver. Date: Month Day Year If you completed line 5, complete lines 3, 9, and 10 of Schedule MB and do not complete the remainder of this schedule.		
6 a Enter the minimum required contribution for this plan year (include any prior year accumulated funding deficiency not waived)		6a
b Enter the amount contributed by the employer to the plan for this plan year		6b
c Subtract the amount in line 6b from the amount in line 6a. Enter the result (enter a minus sign to the left of a negative amount)		6c
If you completed line 6c, skip lines 8 and 9.		
7 Will the minimum funding amount reported on line 6c be met by the funding deadline? ☐ Yes ☐ No ☐ N/A		
8 If a change in actuarial cost method was made for this plan year pursuant to a revenue procedure or other authority providing automatic approval for the change or a class ruling letter, does the plan sponsor or plan administrator agree with the change? ☐ Yes ☐ No ☒ N/A		
Part III	Amendments	
9 If this is a defined benefit pension plan, were any amendments adopted during this plan year that increased or decreased the value of benefits? If yes, check the appropriate box. If no, check the "No" box. ☐ Increase ☐ Decrease ☐ Both ☒ No		
Part IV	ESOPs (see instructions). If this is not a plan described under section 409(a) or 4975(e)(7) of the Internal Revenue Code, skip this Part.	
10 Were unallocated employer securities or proceeds from the sale of unallocated securities used to repay any exempt loan? ☐ Yes ☐ No		
11 a Does the ESOP hold any preferred stock? ☐ Yes ☐ No		
b If the ESOP has an outstanding exempt loan with the employer as lender, is such loan part of a "back-to-back" loan? (See instructions for definition of "back-to-back" loan.) ☐ Yes ☐ No		
12 Does the ESOP hold any stock that is not readily tradable on an established securities market? ☐ Yes ☐ No		
For Paperwork Reduction Act Notice, see the Instructions for Form 5500.		
Schedule R (Form 5500) 2017 v. 170203		

Part V Additional Information for Multiemployer Defined Benefit Pension Plans

13 Enter the following information for each employer that contributed more than 5% of total contributions to the plan during the plan year (measured in dollars). See instructions. *Complete as many entries as needed to report all applicable employers.*

a Name of contributing employer

b EIN

c Dollar amount contributed by employer

d Date collective bargaining agreement expires (If employer contributes under more than one collective bargaining agreement, check box ☐ and see instructions regarding required attachment. Otherwise, enter the applicable date.) Month _____ Day _____ Year _____

e Contribution rate information (If more than one rate applies, check this box ☐ and see instructions regarding required attachment. Otherwise, complete lines 13e(1) and 13e(2).)

(1) Contribution rate (in dollars and cents) _____

(2) Base unit measure: ☐ Hourly ☐ Weekly ☐ Unit of production ☐ Other (specify): _____

a Name of contributing employer

b EIN

c Dollar amount contributed by employer

d Date collective bargaining agreement expires (If employer contributes under more than one collective bargaining agreement, check box ☐ and see instructions regarding required attachment. Otherwise, enter the applicable date.) Month _____ Day _____ Year _____

e Contribution rate information (If more than one rate applies, check this box ☐ and see instructions regarding required attachment. Otherwise, complete lines 13e(1) and 13e(2).)

(1) Contribution rate (in dollars and cents) _____

(2) Base unit measure: ☐ Hourly ☐ Weekly ☐ Unit of production ☐ Other (specify): _____

a Name of contributing employer

b EIN

c Dollar amount contributed by employer

d Date collective bargaining agreement expires (If employer contributes under more than one collective bargaining agreement, check box ☐ and see instructions regarding required attachment. Otherwise, enter the applicable date.) Month _____ Day _____ Year _____

e Contribution rate information (If more than one rate applies, check this box ☐ and see instructions regarding required attachment. Otherwise, complete lines 13e(1) and 13e(2).)

(1) Contribution rate (in dollars and cents) _____

(2) Base unit measure: ☐ Hourly ☐ Weekly ☐ Unit of production ☐ Other (specify): _____

a Name of contributing employer

b EIN

c Dollar amount contributed by employer

d Date collective bargaining agreement expires (If employer contributes under more than one collective bargaining agreement, check box ☐ and see instructions regarding required attachment. Otherwise, enter the applicable date.) Month _____ Day _____ Year _____

e Contribution rate information (If more than one rate applies, check this box ☐ and see instructions regarding required attachment. Otherwise, complete lines 13e(1) and 13e(2).)

(1) Contribution rate (in dollars and cents) _____

(2) Base unit measure: ☐ Hourly ☐ Weekly ☐ Unit of production ☐ Other (specify): _____

a Name of contributing employer

b EIN

c Dollar amount contributed by employer

d Date collective bargaining agreement expires (If employer contributes under more than one collective bargaining agreement, check box ☐ and see instructions regarding required attachment. Otherwise, enter the applicable date.) Month _____ Day _____ Year _____

e Contribution rate information (If more than one rate applies, check this box ☐ and see instructions regarding required attachment. Otherwise, complete lines 13e(1) and 13e(2).)

(1) Contribution rate (in dollars and cents) _____

(2) Base unit measure: ☐ Hourly ☐ Weekly ☐ Unit of production ☐ Other (specify): _____

a Name of contributing employer

b EIN

c Dollar amount contributed by employer

d Date collective bargaining agreement expires (If employer contributes under more than one collective bargaining agreement, check box ☐ and see instructions regarding required attachment. Otherwise, enter the applicable date.) Month _____ Day _____ Year _____

e Contribution rate information (If more than one rate applies, check this box ☐ and see instructions regarding required attachment. Otherwise, complete lines 13e(1) and 13e(2).)

(1) Contribution rate (in dollars and cents) _____

(2) Base unit measure: ☐ Hourly ☐ Weekly ☐ Unit of production ☐ Other (specify): _____

- 14** Enter the number of participants on whose behalf no contributions were made by an employer as an employer of the participant for:

a The current year	14a	
b The plan year immediately preceding the current plan year	14b	
c The second preceding plan year	14c	

- 15** Enter the ratio of the number of participants under the plan on whose behalf no employer had an obligation to make an employer contribution during the current plan year to:

a The corresponding number for the plan year immediately preceding the current plan year	15a	
b The corresponding number for the second preceding plan year	15b	

- 16** Information with respect to any employers who withdrew from the plan during the preceding plan year:

a Enter the number of employers who withdrew during the preceding plan year	16a	
b If line 16a is greater than 0, enter the aggregate amount of withdrawal liability assessed or estimated to be assessed against such withdrawn employers	16b	

- 17** If assets and liabilities from another plan have been transferred to or merged with this plan during the plan year, check box and see instructions regarding supplemental information to be included as an attachment. ☐

Part VI Additional Information for Single-Employer and Multiemployer Defined Benefit Pension Plans

- 18** If any liabilities to participants or their beneficiaries under the plan as of the end of the plan year consist (in whole or in part) of liabilities to such participants and beneficiaries under two or more pension plans as of immediately before such plan year, check box and see instructions regarding supplemental information to be included as an attachment ☐

- 19** If the total number of participants is 1,000 or more, complete lines (a) through (c)

- a** Enter the percentage of plan assets held as:
 Stock: _____% Investment-Grade Debt: _____% High-Yield Debt: _____% Real Estate: _____% Other: _____%
- b** Provide the average duration of the combined investment-grade and high-yield debt:
☐ 0-3 years ☐ 3-6 years ☐ 6-9 years ☐ 9-12 years ☐ 12-15 years ☐ 15-18 years ☐ 18-21 years ☐ 21 years or more
- c** What duration measure was used to calculate line 19(b)?
☐ Effective duration ☐ Macaulay duration ☐ Modified duration ☐ Other (specify): _____

Financial Statements and Report of
Independent Certified Public Accountants

Thomas & Betts Corporation
Pension Plan for Bargaining Unit Employees

November 30, 2018 and 2017

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REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

Trustees

Thomas & Betts Pension Plan for Bargaining Unit Employees

Report on the financial statements

We were engaged to audit the accompanying financial statements of the **Thomas & Betts Pension Plan for Bargaining Unit Employees** (the "Plan"), which comprise the statements of net assets available for benefits as of November 30, 2018 and 2017, and the related statement of changes in net assets available for benefits for the years ended November 30, 2018 and 2017, and the related notes to the financial statements.

Management's responsibility for the financial statements

Management is responsible for the preparation and fair presentation of these financial statements in accordance with accounting principles generally accepted in the United States of America; this includes the design, implementation, and maintenance of internal control relevant to the preparation and fair presentation of financial statements that are free from material misstatement, whether due to fraud or error.

Auditor's responsibility

Our responsibility is to express an opinion on these financial statements based on conducting the audit in accordance with auditing standards generally accepted in the United States of America. Because of the matter described in the Basis for Disclaimer of Opinion paragraph, however, we were not able to obtain sufficient appropriate audit evidence to provide a basis for an audit opinion.

Basis for disclaimer of opinion

As permitted by 29 CFR 2520.103-8 of the Department of Labor's Rules and Regulations for Reporting and Disclosure under the Employee Retirement Income Security Act of 1974, the Plan administrator instructed us not to perform, and we did not perform, any auditing procedures with respect to the certified information described in Note 3, except for comparing such information with the related information included in the financial statements. We have been informed by the Plan administrator that the certifying entity meets the requirements of 29 CFR 2520.103-8. The Plan administrator obtained certifications from this entity as of November 30, 2018 and 2017, and for the years ended November 30, 2018 and 2017, stating that the certified information provided to the Plan administrator is complete and accurate.

Disclaimer of opinion

Because of the significance of the matter described in the Basis for Disclaimer of Opinion paragraph, we have not been able to obtain sufficient appropriate audit evidence to provide a basis for an audit opinion. Accordingly, we do not express an opinion on these financial statements.

Report on form and content in compliance with DOL rules and regulations

The form and content of the information included in the financial statements, other than that derived from the certified information described in Note 3, have been audited by us in accordance with auditing standards generally accepted in the United States of America and, in our opinion, are presented in compliance with the Department of Labor's Rules and Regulations for Reporting and Disclosure under the Employee Retirement Income Security Act of 1974.



Raleigh, North Carolina
September 10, 2019

Statements of net assets available for benefits

(Amounts in thousands)

November 30	2018	2017
	\$	\$
Assets		
Interest in the ABB Inc. Master Trust, at fair value	34,892	38,516
Net assets available for benefits	34,892	38,516

The accompanying notes are an integral part of these financial statements.

Statements of changes in net assets available for benefits

(Amounts in thousands)

For the years ended November 30	2018	2017
	\$	\$
Additions to (deductions from) net assets attributed to:		
Interest in net investment income (loss) of the ABB Master Trust	(785)	4,502
Benefits paid	(2,603)	(3,160)
Administrative and other expenses	(236)	(387)
Net (decrease) increase	(3,624)	955
Net assets available for benefits:		
Beginning of year	38,516	37,561
End of year	34,892	38,516

The accompanying notes are an integral part of these financial statements.

Notes to financial statements

(Amounts in thousands)

1 Plan Description and Benefits

The following summary discussion of Thomas & Betts Corporation Pension Plan for Bargaining Unit Employees (Plan) is provided for informational purposes only. Participants should refer to the Plan document for information regarding eligibility, vesting and the determination of Plan benefits.

The Plan is a defined benefit pension plan sponsored by ABB Installation Products Inc (the Corporation and Plan Sponsor). In 2018, Thomas & Betts Corporation changed its name to ABB Installation Products Inc. Participants in this Plan include substantially all employees of the Corporation covered by a collective bargaining agreement at its Athens, Tennessee and Mercer, Pennsylvania locations. The Board of Directors of the Corporation has delegated responsibility for the administration of the Plan to the ABB Inc. U.S. Benefits Committee. It is the responsibility of the Plan administrator to maintain records of Plan participants, authorize benefit payments and determine employee eligibility and benefit amounts. The Plan offers multiple options for payment including, lump-sum and various annuity options for participants which have satisfied the vesting requirements under the Plan.

The Corporation was acquired by ABB, Ltd. on May 16, 2012. Effective February 3, 2014, the Plan's investment assets were transferred to the ABB Master Trust (Master Trust) with Bank of New York Mellon (BNY Mellon) as trustee.

The Plan is divided into six parts (Parts A through F), each representing a previously merged plan. There are no active participants in Parts A, B, E or F. Part C of the Plan covers employees who are members of Local 175 of the International Brotherhood of Electrical Workers at the Corporation's Athens, Tennessee plant. Part D of the Plan covers employees who are members of Local 5306 of the United Steelworkers of America, AFL-CIO Technical Unit, Production and Maintenance Unit or Clerical Unit at the Corporation's Mercer, Pennsylvania plant.

During the second quarter of 2012, the Corporation and the union representing collectively bargained employees at the Mercer facility approved a plan to discontinue the future accrual of benefits for participants under Part D of the Plan after December 31, 2012. During the second quarter of 2011, the Corporation and the union representing collectively bargained employees at the Athens facility approved a plan to discontinue future accrual of benefits for participants under Part C of the Plan after December 31, 2011. As of December 31, 2012, all Parts of the Plan were frozen.

2 Summary of Significant Accounting Policies

Basis of Presentation

The accompanying financial statements have been prepared on the accrual basis of accounting in conformity with United States generally accepted accounting principles (US GAAP). The Plan is subject to the requirements of the Employee Retirement Income Security Act of 1974, as amended (ERISA).

Use of Estimates in Preparation of Financial Statements

The preparation of financial statements in conformity with US GAAP requires the Plan administrator to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities at the date of the financial statements and the reported amounts of changes in net assets during the reporting period. Actual results could differ from those estimates.

The Master Trust invests in various types of investment securities and in various companies and/or funds within various markets. The Plan's interest in the Master Trust is exposed to various risks, such as interest rate, market and credit. Due to the level of risk associated with certain investments and the level of uncertainty related to changes in the value of investments in the Master Trust, it is at least reasonably possible that changes in the values of investment securities will occur in the near term and that such changes could materially affect the amounts reported in the statements of net assets available for benefits.

The actuarial present value of accumulated plan benefits is reported based on certain assumptions including interest rates and employee demographics, which are subject to change. Due to uncertainties inherent in the estimations and assumptions process, it is at least reasonably possible that changes in these estimates and assumptions in the near term would be material to the financial statements.

Recent Accounting Pronouncements

In February 2017, the FASB issued ASU 2017-06, "*Plan Accounting: Employee Benefit Plan Master Trust Reporting*." The amendments in the ASU clarify presentation requirements for a plan's interest in a master trust and require more detailed disclosures of the Plan's interest in the Master Trust. The amendments also eliminate a redundancy relating to 401(h) account disclosures. The amendments in ASU 2017-06 are effective for plans for fiscal years beginning after December 15, 2018. Management does not expect the new accounting pronouncement to have a material impact on the financial statements.

Master Trust

Investment managers have been granted discretionary authority concerning all purchases and sales of investments in the Master Trust within the investment guidelines established by the ABB Inc. U.S. Benefits Committee. The Plan's interest in the Master Trust and the interest in the net investment income or loss of the Master Trust has been reported to the Plan administrator by BNY Mellon. Fair values of investments are allocated to the participating plans based upon each plan's proportionate interest in the Master Trust.

The Plan's interest in the Master Trust is stated at fair value as described in Note 4. Purchases and sales of securities by the Master Trust are recorded on a trade date basis. Dividend income is recorded on the ex-dividend date.

Interest income is recorded when earned. Net appreciation (depreciation) includes the Master Trust's gains and losses on investments bought, sold, and held during the year.

Funding Policy

The Corporation generally contributes such amounts as are necessary on an actuarial basis to provide the Plan with assets sufficient to meet the minimum funding requirements of ERISA.

It is the Company's intention to only make contributions that are tax-deductible. For each of the years ended November 30, 2018 and 2017, the Plan has satisfied the minimum funding requirements of ERISA.

Payment of Pension Benefits

Benefit payments to participants are recorded upon distribution.

Securities Lending

As of and for the years ended November 30, 2018 and 2017, the Master Trust participated in the BNY Mellon's securities lending program for securities held in custody at the trustee. These securities are lent to certain unrelated third-party brokers in exchange for collateral, usually in the form of cash. Collateralization levels are equal to a percentage of the market value of the borrowed securities. For U.S. securities, collateral shall not be less than 102% of the fair value of the loaned securities, and for non-U.S. securities, collateral shall not be less than 105% of the fair value of the loaned securities unless it is denominated in the same currency as the collateral, in which case it will be 102% of the fair value. Collateral received is invested in overnight cash deposits and US government securities managed by BNY Mellon. The value of loaned securities in the Master Trust amounted to \$36,747 and \$3,655 at November 30, 2018 and 2017, respectively. The realized gain from securities lending activities of \$26 and \$28 for the years ended November 30, 2018 and 2017, respectively, are included as a component of the net appreciation (depreciation) in fair value of investments in Note 4.

Derivatives

The Plan (through the Master Trust) may enter into foreign currency forward exchange contracts primarily to hedge against foreign currency exchange rate risks on its non-U.S. dollar denominated investment securities. When entering into a forward currency contract, the Plan agrees to receive or deliver a fixed quantity of foreign currency for an agreed-upon price on an agreed future date. The Plan's net equity therein, representing unrealized gain or loss on the contracts, as measured by the difference between the forward foreign exchanges rates at the dates of entry in the contracts and the forward rates at the reporting date is included in the Master Trust's net assets. Realized and unrealized gains and losses are included in the Master Trust's net investment gain (loss). These instruments involve market risk, credit risk or both kinds of risks in excess of the amount recognized in the statement of net assets. Risks arise from the possible inability of counterparties to meet the terms of their contracts and movement in currency and securities values and interest rates. The values of such derivative contracts are included net in the balance for each respective investment type with derivative contracts with the majority being included in the state and foreign bonds.

At November 30, 2018 and 2017, the Master Trust had the following foreign currency forward exchange contracts:

(Amounts in thousands)

FAIR VALUE OF OUTSTANDING FORWARD CONTRACTS

As of November 30, 2018

Counterparty Allocation of Unrealized Profit / (Loss)		Maturity Date	Total	CHF	EUR	GBP	HKD	JPY
			\$	\$	\$	\$	\$	\$
Australia and New Zealand Banking Group	ANZ	15-Feb-19	USD 439	USD 0	USD 0	USD 439	USD 0	USD 0
HSBC Bank plc	MDL	15-Feb-19	(USD 37)	(USD 37)	USD 0	USD 0	(USD 0)	USD 0
JP Morgan Chase	CML	15-Feb-19	(USD 15)	USD 0	USD 0	USD 0	USD 0	(USD 15)
Royal Bank of Canada	RBL	15-Feb-19	USD 76	USD 0	USD 78	(USD 2)	USD 0	USD 0
Westpac Banking Corporation	WPL	15-Feb-19	(USD 32)	USD 0	(USD 14)	USD 0	USD 0	(USD 18)
Total fair value of forward contracts as of November 30, 2018			USD 431	(USD 37)	USD 64	USD 437	(USD 0)	(USD 33)

(Amounts in thousands)

FAIR VALUE OF OUTSTANDING FORWARD CONTRACTS

As of November 30, 2017

Counterparty Allocation of Unrealized Profit / (Loss)	Maturity Date	Total	HKD	CHF	EUR	GBP	JPY
		\$	\$	\$	\$	\$	\$
Australia and New Zealand Banking Group	ANZ 20-Feb-18	(USD 109)	USD 0	USD 0	USD 0	USD 0	(USD 109)
Citibank NA	CTL 20-Feb-18	(USD 249)	USD 0	USD 0	USD 0	(USD 249)	USD 0
Goldman Sachs International	GSL 20-Feb-18	(USD 15)	USD 0	USD 0	(USD 5)	USD 0	(USD 10)
HSBC Bank plc	MDL 20-Feb-18	(USD 108)	USD 1	USD 0	USD 0	USD 0	(USD 109)
JP Morgan Chase	CML 20-Feb-18	(USD 57)	USD 0	(USD 57)	USD 0	USD 0	USD 0
Royal Bank of Canada	RBL 20-Feb-18	USD 3	USD 0	USD 3	USD 0	USD 0	USD 0
Westpac Banking Corporation	WPL 20-Feb-18	(USD 319)	USD 0	USD 0	(USD 319)	USD 0	USD 0
Total fair value of forward contracts as of November 30, 2017		(USD 854)	USD 1	(USD 54)	(USD 324)	(USD 249)	(USD 228)

The fair value of the foreign currency forward exchange contracts, none of which are accounted for as hedge instruments under FASB ASC 815, “*Derivatives and Hedging*,” are included in the Master Trust’s net assets under state and foreign bonds. The realized gain/(loss) from foreign currency forward exchange contracts of \$3,729 and \$285 for the years ended November 30, 2018 and 2017, respectively, are included as a component of the net appreciation (depreciation) in fair value of investments in Note 4.

The Master Trust may be required to post collateral on derivatives if the Master Trust is in a net liability position with the counterparty exceeding certain amounts. Additionally, counterparties may immediately terminate derivatives contracts if the Master Trust fails to maintain sufficient asset coverage for its contracts or its net assets decline by stated percentages.

Master Netting Agreements

The Master Trust is subject to master netting agreements, or netting arrangements, with certain counterparties. These agreements govern the terms of certain transactions and reduce the counterparty risk associated with relevant transactions by specifying offsetting mechanisms and collateral posting arrangements at pre-arranged exposure levels. Since different types of transactions have different mechanics and are sometimes traded out of different legal entities of a particular counterparty organization, each type of transaction may be covered by a different master netting arrangement, possibly resulting in the need for multiple agreements with a single counterparty. Master netting agreements are specific to each different asset type; therefore, they allow the company to close out and net its total exposure to a specified counterparty in the event of a default with respect to any and all the transactions governed under a single agreement with the counterparty.

The following is a summary by counterparty of the Master Trust’s net exposure to derivative assets and liabilities, available for offset and net of collateral under a netting agreement at November 30, 2018 and 2017.

As of November 30, 2018:

(Amounts in thousands)

Derivative Type	Fair Value of Derivative Assets	Fair Value of Derivative Liabilities	Net Exposure
Foreign Currency Contracts:	\$	\$	\$
Australia & New Zealand Banking Group	439	-	439
HSBC Bank plc	-	(37)	(37)
JP Morgan Chase	-	(15)	(15)
Royal Bank of Canada	78	(2)	76
Westpac Banking Corporation	-	(32)	(32)
Total	517	(86)	431

As of November 30, 2017:

(Amounts in thousands)

Derivative Type	Fair Value of Derivative Assets	Fair Value of Derivative Liabilities	Net Exposure
Foreign Currency Contracts:	\$	\$	\$
Australia & New Zealand Banking Group	-	(109)	(109)
Citibank NA	-	(249)	(249)
Goldman Sachs International	-	(15)	(15)
HSBC Bank plc	1	(109)	(108)
JP Morgan Chase	-	(57)	(57)
Royal Bank of Canada	3	-	3
Westpac Banking Corporation	-	(319)	(319)
Total	4	(858)	(854)

3 Financial Information Certified by Trustee

The Plan administrator has elected the method of compliance permitted by 29 CFR 2520.103-8 of the Department of Labor's Rules and Regulations for Reporting and Disclosure under ERISA. Accordingly, as permitted under such election, the Plan administrator has obtained certifications from BNY Mellon that all information relating to the Plan's and Master Trust's investments and related investment income (loss) as of and for the years ended November 30, 2018 and 2017 is complete and accurate. Information as to the Plan's interest in the Master Trust and the Plan's interest in the net investment income or loss of the Master Trust was also certified. The information was not audited by independent certified public accountants except for comparing the information to the related information included in the financial statements.

4 Interest in the Master Trust

The Plan's investment assets are held in the ABB Master Trust, established for the investment of the assets of the Plan and other retirement plans sponsored by ABB, Ltd. Each participating plan has an undivided interest in the Master Trust. The Master Trust assets are allocated among the participating plans by assigning to each plan those transactions (primarily contributions, benefit payments, and plan-specific expenses) that can be specifically identified and by allocating among all plans, in proportion to each plan's beneficial interest in the Master Trust, income and expenses resulting from the collective investment of the assets of the Master Trust.

At November 30, 2018, the Plan had a 2.8% interest in the net assets of the Master Trust, and at November 30, 2017, the Plan had a 2.8% interest in the net assets of the Master Trust.

The following information presents the net assets of the Master Trust as of November 30, 2018 and 2017:

(Amounts in thousands)

November 30	2018	2017
	\$	\$
Assets:		
<i>Investments:</i>		
Interest-bearing cash	1,558	1,578
U.S. government securities	196,852	211,433
Corporate bonds	478,347	489,518
Corporate stock - Preferred	4,450	6,723
Corporate stock - Common	1,211	1,752
Partnership / joint venture interests	154,654	198,841
State and foreign bonds	16,272	14,820
Collective trusts	353,166	338,835
103-12 investment entities	97	1,369
Registered investment companies	81,018	130,206
Short term investments	674	(141)
Collateral held under securities lending agreement	37,659	3,744
Total Investments	1,325,958	1,398,678
<i>Receivables:</i>		
Interest Receivables	5,915	-
Receivable for Investments Sold	10,021	-
Total Assets	1,341,894	1,398,678
Liabilities:		
Payable for Investment Purchased	43,570	-
Obligation to return securities lending collateral	37,659	3,744
Total Liabilities	81,229	3,744
Net Assets	1,260,665	1,394,934

The amounts reported for collateral held under securities lending agreement and obligation to return securities lending collateral as of December 31, 2017 have been reclassified in these financial statements to enhance consistency with reporting for 2018.

Investment income (loss) of the Master Trust is as follows:

(Amounts in thousands)

For the years ended November 30	2018	2017
	\$	\$
Net (depreciation) appreciation in fair value of investments	(60,013)	130,919
Interest	22,321	20,258
Dividends	9,847	11,444
Miscellaneous income	26	21
Net investment (loss) income	(27,819)	162,642

5 Fair Value Measurements

Investments held by the Master Trust are stated at fair value. Financial Accounting Standards Board (FASB) Accounting Standards Codification (ASC) 820, "Fair Value Measurements and Disclosures," requires enhanced disclosures about investments that are measured and reported at fair value. ASC 820 clarifies the definition of fair value for financial reporting, establishes a framework for measuring fair value and requires additional disclosures about the use of fair value measurements.

The hierarchy established under ASC 820 gives the highest priority to unadjusted quoted prices in active markets for identical assets or liabilities (Level 1) and the lowest priority to unobservable inputs (Level 3). As required by ASC 820, the Master Trust investments are classified within the fair value hierarchy based on the lowest level of input that is significant to the fair value measurement. The three levels of the fair value hierarchy under ASC 820, and its applicability to the Master Trust investments, are described below:

Level 1: Unadjusted quoted prices in active markets that are accessible at the measurement date for identical, unrestricted assets or liabilities.

Level 2: Quoted prices for similar assets or liabilities, or inputs that are observable, either directly or indirectly, for substantially the full term through corroboration with observable market data. Level 2 includes investments valued at quoted prices adjusted for legal and contractual restrictions specific to the security.

Level 3: Pricing inputs are unobservable for the asset or liability, that is, inputs that reflect the reporting entity's own assumptions about the assumptions market participants would use in pricing the asset or liability. Level 3 includes private investments that are supported by little or no market activity.

The determination of where an asset falls in the hierarchy requires significant judgment. The Plan evaluates its hierarchy disclosures each year and changes in economic conditions or valuation techniques may require the transfer of financial instruments from one fair value level to another. However, the Plan expects changes in classifications between levels will be rare. In such instances, the transfer is reported at the beginning of the reporting period.

The methods used to measure the fair value calculation may not be indicative of net realizable value or reflective of future fair values. Furthermore, while management believes the valuation methods are appropriate and consistent with other market participants, the use of different methodologies or assumptions to determine the fair value of certain financial instruments could result in a different fair value measurement at the reporting date.

Following is a description of the valuation methodologies used for assets and liabilities measured at fair value. There have been no changes in the methodologies used at November 30, 2018 and 2017:

- Corporate bonds are valued using pricing models maximizing the use of observable inputs for similar securities. This includes basing value on yields currently available on comparable section of issuers with similar credit ratings.
- State and foreign bonds valued at Level 1 are valued at the closing price reported on the active markets on which the individual securities are traded and securities valued at Level 2 are valued using pricing models maximizing the use of observable inputs for similar securities.
- U.S. government securities valued at Level 1 are valued at the closing price reported on the active markets on which the individual securities are traded and securities valued at Level 2 are valued using pricing models maximizing the use of observable inputs for similar securities.
- Corporate stocks valued at Level 1 are valued at the closing price reported on the active markets on which the individual securities are traded and securities valued at Level 2 are valued using closing price reported on the inactive market.
- Registered investment companies are valued at the net asset value (NAV), based on quoted market prices in active markets, of shares held by the Plan at year-end.
- Collective trusts, partnership/joint venture interests, and 103-12 investment entities are valued at net asset value as reported by the respective fund managers based upon the fair value of the underlying investments less liabilities.
- Short investments primarily consists of interest rate swaps which are valued using the income approach which takes into account contract terms as well as multiple inputs which may be observed in the marketplace.

The following table sets forth by level, within the fair value hierarchy, the Master Trust's financial instruments at fair value as of November 30, 2018:

	Instruments at Fair Value			Total
	(Level 1)	(Level 2)	(Level 3)	
	\$	\$	\$	\$
Investments in the fair value hierarchy:				
Interest-bearing cash	10	1,548	-	1,558
U.S. government securities	178,235	18,617	-	196,852
Corporate bonds	-	478,347	-	478,347
Corporate stock - preferred	-	4,450	-	4,450
Corporate stock - common	1,211	-	-	1,211
State and foreign bonds	345	15,927	-	16,272
Registered investment companies	81,018	-	-	81,018
Short investments	-	674	-	674
Collateral held under securities lending agreement	37,659	-	-	37,659
Total investments	298,478	519,563	-	818,041
Investments measured at NAV:				
Partnership / joint venture interests	-	-	-	154,654
Collective trusts	-	-	-	353,166
103-12 investment entities	-	-	-	97
Total investments measured at NAV	-	-	-	507,917
Total investments	-	-	-	1,325,958

The following table sets forth by level, within the fair value hierarchy, the Master Trust's financial instruments at fair value as of November 30, 2017:

	Instruments at Fair Value			Total
	(Level 1)	(Level 2)	(Level 3)	
	\$	\$	\$	\$
Investments in the fair value hierarchy:				
Interest-bearing cash	-	1,578	-	1,578
U.S. government securities	182,077	29,356	-	211,433
Corporate bonds	-	489,518	-	489,518
Corporate stock - preferred	-	6,723	-	6,723
Corporate stock - common	1,752	-	-	1,752
State and foreign bonds	662	14,158	-	14,820
Registered investment companies	130,206	-	-	130,206
Short investments	-	(141)	-	(141)
Collateral held under securities lending agreement	3,744	-	-	3,744
Total investments	318,441	541,192	-	859,633
Investments measured at NAV:				
Partnership / joint venture interests	-	-	-	198,841
Collective trusts	-	-	-	338,835
103-12 investment entities	-	-	-	1,369
Total investments measured at NAV	-	-	-	539,045
Total investments	-	-	-	1,398,678

In accordance with ASC 820, certain investments that were measured at net asset value per share (or its equivalent) have not been classified in the fair value hierarchy. The fair value amounts presented in this table are intended to permit reconciliation of the fair value hierarchy to the line items presented in Note 4.

There were no significant transfers among investment levels during the years ended November 30, 2018 and 2017.

The following table summarizes investments measured at fair value based on the NAV per share practical expedient as of November 30, 2018:

	Fair Value	Unfunded Commitments	Redemption Frequency	Redemption Notice Period
	\$	\$	\$	\$
Partnership / joint venture interests (a)	154,654	-	Monthly	30 - 60 days
Collective trusts (b)	353,166	-	Monthly	31 - 60 days
103-12 investment entities (c)	97	-	N/A	N/A
Total	507,917	-		

The following table summarizes investments measured at fair value based on the NAV per share practical expedient as of November 30, 2017:

	Fair Value	Unfunded Commitments	Redemption Frequency	Redemption Notice Period
	\$	\$	\$	\$
Partnership / joint venture interests (a)	198,841	-	Monthly	30 - 60 days
Collective trusts (b)	338,835	-	Monthly	31 - 60 days
103-12 investment entities (c)	1,369	-	N/A	N/A
Total	539,045	-		

- a) The partnership/joint venture interests investments are invested within alternative investments such as private equity and fund of funds. The investment objective of these investments is to achieve longer term growth of capital, which does so with limited liquidity. Within the limited partnerships, there is also a limited partnership that has an investment objective of seeking to outperform the S&P 500. This fund does require monthly notice to provide liquidity.
- b) The collective trust investments include an international equity fund and emerging market fixed income bond fund. The investment objective of the international equity fund is to seek capital appreciation through investments in a portfolio of securities issued by companies predominantly in companies contained in The MSCI EAFE Index. The investment objective of the emerging market fixed income fund is to seek long-term total return through investment in a diversified portfolio of emerging markets debt securities and currency instruments.
- c) The 103-12 investment entities are invested in alternative investments with specific requirements under ERISA. The investment objective of these investments is to achieve longer term growth of capital, which does so with limited liquidity.

6 Actuarial Present Value of Accumulated Plan Benefits

Accumulated Plan benefits are those periodic payments, including lump sum distributions, that are expected to be made in the future pursuant to the Plan's provisions for the years of service employees have rendered through the valuation date.

Willis Towers Watson & Company performs consulting and actuarial functions for the Plan. The actuarial present value of the accumulated Plan benefits as determined by Willis Towers Watson & Company is that amount that results from applying actuarial assumptions to adjust the accumulated Plan benefits to reflect the time value of money (through discounts for interest) and the probability of payment (by means of decrements such as for death, disability, withdrawal or retirement) between the valuation date and the expected date of payment. The significant actuarial assumptions used in the valuations were: (a) a discount rate of 5.3%; (b) mortality rates based on Blue Collar RP-2014 Mortality Tables with Scale MP-2018 generational projection; and (c) weighted average assumed retirement age at 65. Assumption changes totaling \$1,219 were primarily the result of the change in discount rate from 5.7% to 5.3%, and an update in the mortality table from Scale MP-2017 to Scale MP-2018.

The foregoing actuarial assumptions were based on the presumption that the Plan will continue. If the Plan is terminated, different actuarial assumptions and other factors might be applicable in determining the actuarial present value of accumulated Plan benefits.

The actuarial present values of accumulated Plan benefits as of November 30, 2017, the Plan's most recent measurement date, are presented below.

November 30	2017
	(in thousands)
	\$
Vested:	
Currently receiving payments	23,889
Other participants	9,809
	33,698
Non-Vested:	342
Total actuarial present value of accumulated plan benefits	34,040

Accumulated Plan benefits changed during the Plan year ended November 30, 2017, as a result of the following:

Year ended November 30	2017
	(in thousands)
	\$
Actuarial present value of accumulated plan benefits as of beginning of year	33,852
Interest	1,840
Actuarial losses	289
Assumption changes	1,219
Pension benefits paid	(3,160)
Total actuarial present value of accumulated plan benefits	34,040

7 Plan Termination

Although the Corporation has not expressed any intent to terminate the Plan, it may do so at any time, subject to the provisions set forth in ERISA. Upon termination of the Plan, each affected participant's accrued benefit as of the date of termination becomes fully vested to the extent funded. Under provisions of ERISA, if the Plan is terminated, the Corporation may be obligated to make termination payments to the Plan, and participants may be eligible for continuation of benefits under insurance provided by the Pension Benefit Guaranty Corporation (PBGC).

Refer to the Plan document for a detailed description of the order of allocation of Plan net assets among participants and beneficiaries of the Plan in the event of the termination of the Plan.

Certain benefits under the Plan are insured by the PBGC if the Plan terminates. Generally, the PBGC guarantees most vested normal age retirement benefits, early retirement benefits, and certain disability and survivor pensions. However, the PBGC does not guarantee all types of benefits and the amount of benefit protection is subject to certain limitations. Vested benefits under the Plan are guaranteed at the level in effect on the date of the Plan's termination. However, there is a statutory ceiling on the amount of an individual's monthly benefit that the PBGC guarantees that is adjusted periodically. That ceiling applies to those pensioners who elect to receive their benefits in the form of a single-life annuity and are at least 65 years old at the time of retirement or Plan termination (whichever comes later). For younger annuitants or for those who elect to receive their benefits in some form more valuable than a single-life annuity, the corresponding ceilings are actuarially adjusted downward.

Whether all participants receive their benefits should the Plan terminate at some future time will depend on the sufficiency, at that time, of the Plan's net assets to provide those benefits and may also depend on the level of benefits guaranteed by the PBGC.

8 Federal Income Taxes

The IRS has determined and informed the Company by a letter dated February 25, 2014, that the Plan and related trust are designed in accordance with applicable sections of the Internal Revenue Code (IRC). Although the Plan has been amended since receiving the determination letter, the Plan administrator believes that the Plan is designed, and is currently being operated, in compliance with the applicable requirements of the IRC and therefore, believes that the Plan is qualified, and the related trust is tax-exempt. The Commonwealth of Puerto Rico issued a determination letter dated February 24, 2014, stating that the Plan is a qualified plan in accordance with applicable sections of the Puerto Rico Internal Revenue Code.

Accounting principles general accepted in the United States of America require plan management to evaluate tax positions taken by the plan and recognize a tax liability if the plan has taken an uncertain position that more-likely-than-not would not be sustained upon examination by the Internal Revenue Service. As of November 30, 2018 and 2017, there are no uncertain positions taken or expected to be taken that would require recognition of a liability (or asset) or disclosure in the financial statements. The Plan is subject to routine audits by taxing jurisdictions; however, there are currently no audits for any tax periods in progress.

9 Party-in-Interest Transactions

Certain of the Plan's assets are invested in funds managed by BNY Mellon. These transactions qualify as party-in-interest transactions; however, they are exempt from the prohibited transactions rules under ERISA.

10 Subsequent Events

Plan management evaluated subsequent events through September 10, 2019, which is the date the Plan financial statements were available to be issued, and has concluded that, there were no subsequent events requiring recognition or disclosure in these financial statements.

SCHEDULE SB ATTACHMENTS

Schedule SB, Line 26 Schedule of Active Participant Data as of December 1, 2017

Attained Age	Years of Credited Service									
	Under 1	1 to 4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	40 & Over
	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.
Under 25	0	0	0	0	0	0	0	0	0	0
25 - 29	0	0	0	0	0	0	0	0	0	0
30 - 34	0	1	1	1	0	0	0	0	0	0
35 - 39	0	2	8	4	0	0	0	0	0	0
40 - 44	0	1	4	3	6	0	0	0	0	0
45 - 49	0	0	5	0	8	0	0	0	0	0
50 - 54	0	1	2	2	10	1	2	0	0	0
55 - 59	0	1	6	8	6	4	5	8	0	0
60 - 64	0	1	5	1	1	1	0	7	2	2
65 - 69	0	0	1	1	3	1	0	1	0	1
70 & Over	0	0	0	0	0	0	0	0	0	1

Plan Name: The Thomas & Betts Corporation Pension Plan for Bargaining Unit Employees
 EIN / PN: 22-1326940 / 003
 Plan Sponsor: ABB Installation Products Inc.
 Valuation Date: December 1, 2017

SCHEDULE SB ATTACHMENTS

Schedule SB, Part V Statement of Actuarial Assumptions/Methods

Economic Assumptions

Interest rate basis:

■ Applicable month	August
■ Interest rate basis	3-Segment Rates

Interest rates:

	Reflecting Corridors	Not Reflecting Corridors
■ First segment rate	4.16%	1.73%
■ Second segment rate	5.72%	3.78%
■ Third segment rate	6.48%	4.69%
■ Effective interest rate	5.81%	3.96%

Annual rates of increase

■ Compensation	N/A
■ Future Social Security wage bases	N/A
■ Statutory limits on compensation and benefits	N/A

Plan-related expenses \$260,000

Plan Name:	The Thomas & Betts Corporation Pension Plan for Bargaining Unit Employees
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Valuation Date	December 1, 2017

SCHEDULE SB ATTACHMENTS

Demographic Assumptions

Inclusion date The valuation date coincident with or next following the date on which the employee becomes a participant.

New or rehired employees It was assumed there will be no new or rehired employees.

Mortality

- **Healthy mortality rates** The prescribed mortality assumption under IRC §430(h)(3)(A) using static tables with separate mortality rates for annuitants and non-annuitants.
- **Disabled mortality rates** The prescribed mortality assumption under IRC §430(h)(3)(A) using static tables with separate mortality rates for annuitants and non-annuitants.

Termination Rates varying by age

Representative Termination Rates (not due to disability or retirement)

Percentage leaving during the year	
Thomas & Betts Corporation Pension Plan for Bargaining Unit Employees	
Attained Age	Males & Females
20	4.3%
25	3.4%
30	2.7%
35	2.2%
40	1.7%
45	1.4%
50	1.1%
55	0.8%
60	0.6%
65 and older	Not Applicable

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SCHEDULE SB ATTACHMENTS

Retirement

Percentage retiring during the year	
Age	Percentage
60	10%
61	5%
62	50%
63	10%
64	10%
65 - 69	50%
70 and older	100%

All former employees are assumed to commence at age 65.

Disability Rates

The rates at which participants become disabled by age and gender are shown below:

Percentage becoming disabled during the year		
Attained Age	Males	Females
25	0.03%	0.03%
35	0.04%	0.07%
45	0.16%	0.24%
55	0.69%	0.64%
60	1.15%	0.90%
65 and older	0.00%	0.00%

Benefit commencement dates for current employees

- Preretirement death benefit The later of the death of the active participant or the date the participant would have attained early retirement eligibility
- Deferred vested benefit The later of age 65 or termination of employment
- Disability benefit Upon disablement
- Retirement benefit Upon termination of employment

Plan Name: The Thomas & Betts Corporation Pension Plan for Bargaining Unit Employees
EIN / PN: 22-1326940 / 003
Plan Sponsor: ABB Installation Products Inc.
Valuation Date: December 1, 2017

SCHEDULE SB ATTACHMENTS

Form of Payment

Form of Payment Assumed

50% of eligible active participant are assumed to elect lump sum benefits. The remaining participants are assumed to elect the following annuity benefits.

Location

All Employees

Athens

Life Annuity

Mercer (Reznor)

10 year Certain & Life Annuity

Percent married

For purposes of valuing the pre-retirement surviving spouse's benefit, 70% of eligible participants are assumed to be married.

Spouse age

Male spouses are assumed to be three years older than female spouses.

Timing of benefit payments

Annuity payments are payable monthly at the beginning of the month.

Methods

Valuation date

December 1, 2017

Funding target

Present value of accrued benefits as required by regulations under IRC §430.

Target normal cost

Present value of benefits expected to accrue during the plan year plus plan-related expenses expected to be paid from plan assets during the plan year as required by regulations under IRC §430.

Actuarial value of assets

The actuarial value of assets is equal to the market value of assets as of the valuation date plus the discounted present value of contributions made after the valuation date for the 2016 plan year, discounted using the effective interest rate for the 2016 plan year.

Benefits not valued

All benefits described in the Plan Provisions section of this report were valued.

Plan Name: The Thomas & Betts Corporation Pension Plan for Bargaining Unit Employees
EIN / PN: 22-1326940 / 003
Plan Sponsor: ABB Installation Products Inc.
Valuation Date: December 1, 2017

SCHEDULE SB ATTACHMENTS

Sources of Data and Other Information

The plan sponsor through its third party administrator (Alight), furnished participant data as of 12/1/2017. Information on assets, contributions and plan provisions was supplied by the plan sponsor. Data and other information were reviewed for reasonableness and consistency, but no audit was performed. Based on discussions with the plan sponsor, assumptions or estimates were made when data were not available, and the data was adjusted to reflect any significant events that occurred between the date the data was collected and the measurement date.

Please refer to the 12/1/2017 Pension Valuation Census Date Report for documentation of assumptions made for missing or apparently inconsistent data elements.

We are not aware of any errors or omissions in the data that would have a significant effect on the results of our calculations.

Assumptions Rationale - Significant Economic Assumptions

Discount rate	The basis chosen was selected by the plan sponsor from among choices prescribed by law, all of which are based on observed market data over certain periods of time.
Lump sum conversion rate	As required by IRC §430(h), lump sum benefits are valued using "annuity substitution", so that the interest rates assumed are effectively the same as described above for the discount rate.
Plan-related expenses	As required by regulations, plan-related expenses are calculated by estimating the expenses to be paid from the trust during the coming year (including, for example, expected PBGC premiums and actuarial, accounting, legal, administration and trustee fees to be paid from the trust).

Assumptions Rationale - Significant Demographic Assumptions

Mortality (Healthy & Disabled)	Assumptions used for funding purposes are as prescribed by IRC §430(h).
Termination	Termination rates were selected based on a published table for pension participants believed to have similar characteristics to the plan population.
Disability	This assumption was selected based on plan sponsor expectations for the future with periodic monitoring of observed gains and losses caused by disability patterns different than assumed.

Plan Name:	The Thomas & Betts Corporation Pension Plan for Bargaining Unit Employees
EIN / PN:	22-1326940 / 003
Plan Sponsor:	ABB Installation Products Inc.
Valuation Date	December 1, 2017

SCHEDULE SB ATTACHMENTS

Retirement	Retirement rates were selected based on plan sponsor expectations for the future with periodic monitoring of observed gains and losses caused by retirement patterns different than assumed.
Percent married	The assumed percentage married was selected based on general population statistics on the marital rates of individuals of retirement age.
Form of payment	The percentage of terminating participants assumed to take lump sums is based on observed experience over the period 2014 through 2015.

Source of Prescribed Methods

Funding methods	The methods used for funding purposes as described in Appendix A, including the method of determining plan assets, are “prescribed methods set by law”, as defined in the actuarial standards of practice (ASOPs). These methods are required by IRC §430, or were selected by the plan sponsor from a range of methods permitted by IRC §430.
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Changes in Assumptions and Methods

Change in assumptions since prior valuation	<p>In addition to the prescribed change in the mortality table, the following changes in assumptions and methods were made as part of this valuation:</p> <ul style="list-style-type: none">■ The assumed plan-related expenses added to the target normal cost were changed from \$240,000 to \$260,000.■ The plan’s effective interest rate decreased 20 basis points compared to the prior year (5.81% vs. 6.01%).
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Plan Name:	The Thomas & Betts Corporation Pension Plan for Bargaining Unit Employees
EIN / PN:	22-1326940 / 003
Plan Sponsor:	ABB Installation Products Inc.
Valuation Date	December 1, 2017

SCHEDULE SB (Form 5500) <small>Department of the Treasury Internal Revenue Service</small> <small>Department of Labor Employee Benefits Security Administration</small> <small>Pension Benefit Guaranty Corporation</small>	Single-Employer Defined Benefit Plan Actuarial Information This schedule is required to be filed under section 104 of the Employee Retirement Income Security Act of 1974 (ERISA) and section 6059 of the Internal Revenue Code (the Code). ► File as an attachment to Form 5500 or 5500-SF.	OMB No. 1210-0110 2017 This Form is Open to Public Inspection
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For calendar plan year 2017 or fiscal plan year beginning 12/01/2017 and ending 11/30/2018

► Round off amounts to nearest dollar.

► Caution: A penalty of \$1,000 will be assessed for late filing of this report unless reasonable cause is established.

A Name of plan THOMAS & BETTS CORPORATION PENSION PLAN FOR BARGAINING UNIT EMPLOYEES	<table style="width:100%;"> <tr> <td style="width:60%;">B Three-digit plan number (PN) ►</td> <td style="width:40%; text-align: center;">003</td> </tr> <tr> <td colspan="2" style="height: 20px;"></td> </tr> </table>	B Three-digit plan number (PN) ►	003		
B Three-digit plan number (PN) ►	003				
C Plan sponsor's name as shown on line 2a of Form 5500 or 5500-SF ABB INSTALLATION PRODUCTS INC.	D Employer Identification Number (EIN) 22-1326940				
E Type of plan: ☒ Single ☐ Multiple-A ☐ Multiple-B					
F Prior year plan size: ☐ 100 or fewer ☐ 101-500 ☒ More than 500					

Part I Basic Information				
1 Enter the valuation date: Month <u>12</u> Day <u>01</u> Year <u>2017</u>				
2 Assets:				
a Market value.....	2a		38,566,790	
b Actuarial value.....	2b		38,566,790	
3 Funding target/participant count breakdown	(1) Number of participants	(2) Vested Funding Target	(3) Total Funding Target	
a For retired participants and beneficiaries receiving payment	486	23,193,379	23,193,379	
b For terminated vested participants	145	4,345,592	4,345,592	
c For active participants	129	4,259,492	4,542,268	
d Total	760	31,798,463	32,081,239	
4 If the plan is in at-risk status, check the box and complete lines (a) and (b) ☐				
a Funding target disregarding prescribed at-risk assumptions	4a			
b Funding target reflecting at-risk assumptions, but disregarding transition rule for plans that have been in at-risk status for fewer than five consecutive years and disregarding loading factor	4b			
5 Effective interest rate	5	5.81%		
6 Target normal cost	6	260,000		

Statement by Enrolled Actuary

To the best of my knowledge, the information supplied in this schedule and accompanying schedules, statements and attachments, if any, is complete and accurate. Each prescribed assumption was applied in accordance with applicable law and regulations. In my opinion, each other assumption is reasonable (taking into account the experience of the plan and reasonable expectations) and such other assumptions, in combination, offer my best estimate of anticipated experience under the plan.

SIGN HERE	John D Steele _____ Signature of actuary	<div style="text-align: right; margin-bottom: 10px;"> <u>8/26/2019</u> Date </div> <div style="text-align: right; margin-bottom: 10px;"> 1705326 Most recent enrollment number </div> <div style="text-align: right;"> 203-326-5400 Telephone number (including area code) </div>
John D Steele _____ Type or print name of actuary		
Willis Towers Watson US LLC _____ Firm name		
3001 Summer Street Floor 5 Stamford CT 06905 _____ Address of the firm		

If the actuary has not fully reflected any regulation or ruling promulgated under the statute in completing this schedule, check the box and see instructions ☐

Part II Beginning of Year Carryover and Prefunding Balances

	(a) Carryover balance	(b) Prefunding balance
7 Balance at beginning of prior year after applicable adjustments (line 13 from prior year).....	0	5,087,921
8 Portion elected for use to offset prior year's funding requirement (line 35 from prior year).....	0	191,466
9 Amount remaining (line 7 minus line 8).....	0	4,896,455
10 Interest on line 9 using prior year's actual return of <u>12.16%</u>	0	595,409
11 Prior year's excess contributions to be added to prefunding balance:		
a Present value of excess contributions (line 38a from prior year).....		0
b(1) Interest on the excess, if any, of line 38a over line 38b from prior year Schedule SB, using prior year's effective interest rate of <u>6.01%</u>		0
b(2) Interest on line 38b from prior year Schedule SB, using prior year's actual return.....		0
c Total available at beginning of current plan year to add to prefunding balance.....		0
d Portion of (c) to be added to prefunding balance.....		0
12 Other reductions in balances due to elections or deemed elections.....	0	0
13 Balance at beginning of current year (line 9 + line 10 + line 11d – line 12).....	0	5,491,864

Part III Funding Percentages

14 Funding target attainment percentage.....	14	103.09%
15 Adjusted funding target attainment percentage.....	15	120.21%
16 Prior year's funding percentage for purposes of determining whether carryover/prefunding balances may be used to reduce current year's funding requirement.....	16	100.14%
17 If the current value of the assets of the plan is less than 70 percent of the funding target, enter such percentage.	17	%

Part IV Contributions and Liquidity Shortfalls**18** Contributions made to the plan for the plan year by employer(s) and employees:

(a) Date (MM-DD-YYYY)	(b) Amount paid by employer(s)	(c) Amount paid by employees	(a) Date (MM-DD-YYYY)	(b) Amount paid by employer(s)	(c) Amount paid by employees
Totals ▶			18(b)	0	18(c) 0

19 Discounted employer contributions – see instructions for small plan with a valuation date after the beginning of the year:

a Contributions allocated toward unpaid minimum required contributions from prior years.....	19a	0
b Contributions made to avoid restrictions adjusted to valuation date.....	19b	0
c Contributions allocated toward minimum required contribution for current year adjusted to valuation date.....	19c	0

20 Quarterly contributions and liquidity shortfalls:

- a** Did the plan have a "funding shortfall" for the prior year? ☐ Yes ☒ No
- b** If line 20a is "Yes," were required quarterly installments for the current year made in a timely manner? ☐ Yes ☐ No
- c** If line 20a is "Yes," see instructions and complete the following table as applicable:

Liquidity shortfall as of end of quarter of this plan year

(1) 1st	(2) 2nd	(3) 3rd	(4) 4th

Part V Assumptions Used to Determine Funding Target and Target Normal Cost

21 Discount rate:			
a Segment rates:	1st segment: 4.16 %	2nd segment: 5.72 %	3rd segment: 6.48 %
			☐ N/A, full yield curve used
b Applicable month (enter code)			21b 4
22 Weighted average retirement age			22 63
23 Mortality table(s) (see instructions) ☐ Prescribed - combined ☒ Prescribed - separate ☐ Substitute			

Part VI Miscellaneous Items

24 Has a change been made in the non-prescribed actuarial assumptions for the current plan year? If "Yes," see instructions regarding required attachment.		☒ Yes ☐ No
25 Has a method change been made for the current plan year? If "Yes," see instructions regarding required attachment.		☐ Yes ☒ No
26 Is the plan required to provide a Schedule of Active Participants? If "Yes," see instructions regarding required attachment.		☒ Yes ☐ No
27 If the plan is subject to alternative funding rules, enter applicable code and see instructions regarding attachment	27	

Part VII Reconciliation of Unpaid Minimum Required Contributions For Prior Years

28 Unpaid minimum required contributions for all prior years	28	0
29 Discounted employer contributions allocated toward unpaid minimum required contributions from prior years (line 19a)	29	0
30 Remaining amount of unpaid minimum required contributions (line 28 minus line 29)	30	0

Part VIII Minimum Required Contribution For Current Year

31 Target normal cost and excess assets (see instructions):			
a Target normal cost (line 6)		31a	260,000
b Excess assets, if applicable, but not greater than line 31a		31b	260,000
32 Amortization installments:	Outstanding Balance	Installment	
a Net shortfall amortization installment	0	0	
b Waiver amortization installment	0	0	
33 If a waiver has been approved for this plan year, enter the date of the ruling letter granting the approval (Month _____ Day _____ Year _____) and the waived amount		33	
34 Total funding requirement before reflecting carryover/prefunding balances (lines 31a - 31b + 32a + 32b - 33)		34	0
	Carryover balance	Prefunding balance	Total balance
35 Balances elected for use to offset funding requirement	0	0	0
36 Additional cash requirement (line 34 minus line 35)		36	0
37 Contributions allocated toward minimum required contribution for current year adjusted to valuation date (line 19c)		37	0
38 Present value of excess contributions for current year (see instructions)			
a Total (excess, if any, of line 37 over line 36)		38a	0
b Portion included in line 38a attributable to use of prefunding and funding standard carryover balances		38b	0
39 Unpaid minimum required contribution for current year (excess, if any, of line 36 over line 37)		39	0
40 Unpaid minimum required contributions for all years		40	0

Part IX Pension Funding Relief Under Pension Relief Act of 2010 (See Instructions)

41 If an election was made to use PRA 2010 funding relief for this plan:			
a Schedule elected		☐ 2 plus 7 years ☐ 15 years	
b Eligible plan year(s) for which the election in line 41a was made		☐ 2008 ☐ 2009 ☐ 2010 ☐ 2011	
42 Amount of acceleration adjustment		42	0
43 Excess installment acceleration amount to be carried over to future plan years		43	0

SCHEDULE SB ATTACHMENTS

Schedule SB – Statement by Enrolled Actuary

Plan Sponsor	ABB Installation Products Inc.
EIN/PN	22-1326940 / 003
Plan Name	The Thomas & Betts Corporation Pension Plan for Bargaining Unit Employees
Valuation Date	December 1, 2017
Enrolled Actuary	John D. Steele
Enrollment Number	17-05326

The actuarial assumptions that are not mandated by IRC § 430 and regulations, represent the enrolled actuary's best estimate of anticipated experience under the plan, subject to the following conditions:

The actuarial valuation, on which the information in this Schedule SB is based, has been prepared in reliance upon the employee and financial data furnished by the plan administrator and the trustee. The enrolled actuary has not made a rigorous check of the accuracy of this information but has accepted it after reviewing it and concluding it is reasonable in relation to similar information furnished in previous years. The amounts of contributions and dates paid shown in Item 18 of Schedule SB were listed in reliance on information provided by the plan administrator and/or trustee.

Plan Name:	The Thomas & Betts Corporation Pension Plan for Bargaining Unit Employees
EIN / PN:	22-1326940 / 003
Plan Sponsor:	ABB Installation Products Inc.
Valuation Date	December 1, 2017

SCHEDULE SB ATTACHMENTS

Schedule SB, Line 22
Description of Weighted Average Retirement Age
as of December 1, 2017

The average retirement age for Line 22 was calculated by determining the average age at retirement for those current active participants expected to reach retirement, based on all current decrements assumed.

Age of Retirement (A)	Rates of Retirement (B)	% Retiring (C)	Weighted Ages (A)*(C)
60	10.00%	10.00%	6.0000
61	5.00%	4.50%	2.7450
62	50.00%	42.75%	26.5050
63	10.00%	4.28%	2.6933
64	10.00%	3.85%	2.4624
65	50.00%	17.31%	11.2539
66	50.00%	8.66%	5.7135
67	50.00%	4.33%	2.9001
68	50.00%	2.16%	1.4717
69	50.00%	1.08%	0.7467
70	100.00%	1.08%	0.7575
Retirement Age =====>			63

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Schedule SB, Part V Summary of Plan Provisions

Benefit Structures

The following summarizes important information about the different benefit structures in the Thomas & Betts Corporation Pension Plan for Bargaining Unit Employees. The plan was restated effective 12/1/2015. There have been no plan amendments since the restatement and before the valuation date.

Five different bargaining agreements have been merged to form The Thomas & Betts Corporation Pension Plan for Bargaining Unit Employees and are referred to as Parts A, B, C, D, and E. Parts A, B, and E cover only former employees from these bargaining agreements.

Former employees from Parts A, B, and E are valued using their previously determined accrued benefits (or actual benefits being paid).

Plan Provisions for Parts C and D are outlined below. Part C applies to employees at the Athens, Tennessee plant and Part D applies to the employees at the Mercer, Pennsylvania plant, also referred to as Reznor participants.

Athens Hourly Participants (Part C)

Plan Provisions

The plan was originally effective January 1, 1973 and was most recently restated as of December 1, 2015.

Coverage and Participation	Employees represented by Local 175, International Brotherhood of Electrical Workers at the plant in Athens, Tennessee prior to the participation freeze date. Participation was frozen effective July 17, 2006.
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Definitions

Vesting service	One year of service is credited for each calendar year during which the participant works at least 1,000 hours.
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Credited service	One year of Credited Service is earned for each calendar year prior to 2012 in which the participant completes 1,000 or more hours of service. No partial years of Credited Service are granted for a calendar year in which the participant works less than 1,000 hours. No Credited Service is provided after 2011.
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Eligibility for Benefits

Normal retirement	Retirement as of Age 65
Early retirement	Retirement before NRD and on or after both attaining age 60 and completing ten years of vesting service
Postponed retirement	Retirement after NRD
Deferred vested termination	Termination for reasons other than death or retirement after completing five years of vesting service
Disability	Permanent and total disability prior to NRD, and participant is age 50 with 15 years of vesting service
Preretirement death benefit	Death with vested benefit and eligible spouse

Benefits Paid Upon the Following Events

Normal retirement	\$24.00 per month per year of Credited Service up to a maximum of 40 years of Credited Service
Early retirement	The monthly accrued benefit as of Early Retirement, reduced by 5/8 of 1% for each month by which the commencement of benefits precedes the normal retirement date. If a participant has at least 30 years of Credited Service, the benefit is reduced by 5/8 of 1% for each month by which commencement of benefits precedes age 62. If participant's age plus Credited Service is at least 100, the normal retirement benefit is unreduced.
Postponed retirement	The monthly pension benefit determined as of the actual retirement date
Deferred vested termination	The monthly accrued benefit as of the date of termination with payments beginning at age 65. The benefit is available for early retirement with 10 years of service.
Disablement	The monthly accrued benefit as of the date of the disablement unreduced for early retirement. Offsets for Workers Compensation benefits may apply if they are not already deducted from Social Security Disability benefit payable.

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Preretirement death

The eligible spouse will be entitled to a monthly lifetime pension equal to 50% of the pension the participant would have received had he retired the day prior to his death and elected a joint and survivor annuity with 50% continuation to his or her spouse. If the participant was not at early retirement age at the time of his death, the pre-retirement survivor annuity will be deferred until the date of which he would have qualified for early retirement had he lived.

Other Plan Provisions

Form of payment

Normal Form of Payment:

The normal form of payment is a monthly life annuity. However, a married participant shall normally receive an actuarially reduced joint annuity with a 50% continuation after the participant's death to his or her spouse, if surviving.

Optional Forms of Retirement Income in Lieu of Normal Form:

A participant may elect one of the following forms of payment of equivalent value:

- Life Annuity
- Joint and Survivor Annuity (50%, 66 2/3%, 75%, and 100%)
- Period certain and Life Benefit (5 years, 10 years, and 15 years)
- Lump sum (available for 6 months following termination)

Maximum limits on benefits and pay

All benefits and pay for any calendar year may not exceed the maximum limitations for that year as defined in the Internal Revenue Code. The plan provides for increasing the dollar limits automatically as such changes take effect. Increases in the dollar limits are not assumed for funding or AFTAP purposes.

Future Plan Changes

No future plan changes were recognized in determining funding requirements. Willis Towers Watson is not aware of any future plan changes that are required to be reflected.

Changes in Benefits Valued Since Prior Year

There have been no changes in benefits valued since the prior year.

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Mercer (Reznor) Hourly Participants (Part D)

Plan Provisions

The plan was originally effective March 1, 1966 and was most recently restated as of 12/1/2015.

Coverage and Participation

Employees represented by Local 5306 of the United Steelworkers of America, AFL-CIO (Technical Unit, Production and Maintenance Unit and Clerical Unit) become participants in the plan upon attaining age 21 and completing at least one year of service. Participation was frozen for all employees effective May 21, 2008.

Definitions

Credited Service

For employment after June 1, 1973, one year of Credited Service is earned for each calendar year prior to 2013 in which the participant completes 1,680 or more hours of service. Participants receive one tenth of a year of Credited Service for each 168 hours that are worked during a calendar year in which they complete less than 1,680 hours of service. Prior to June 1, 1973, one year of Credited Service was granted for each year of employment. No credited service is provided after 2012.

Vesting service

One year of service is credited for each calendar year during which the participant works at least 1,000 hours or is on an authorized leave of absence.

Eligibility for Benefits

Normal retirement

Retirement as of age 65 with 5 years of vesting service.

Early retirement

Retirement before NRD and on or after both attaining age 60 with 20 years of Vesting Service.

Deferred vested termination

Termination for reasons other than death or retirement after completing five years of vesting service

Disability

Permanent and total disability prior to NRD, and participant is age 50 with 15 years of vesting service

Preretirement death benefit

Death with vested benefit and eligible spouse.

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Benefits Paid Upon the Following Events

Normal retirement

Participants receive an accrual based on a multiplier per month per year of Credited Service. The multipliers for each year of Credited Service are shown below for terminations on or after June 1, 2008.

Credited Service	Multipliers
Prior to May 31, 1963	\$5.00
June 1, 1963 – June 30, 1990	16.25
July 1, 1990 and Later	23.00

Early retirement

The monthly accrued benefit as of Early Retirement, reduced by 1/180th for each month by which the commencement of benefits precedes the earlier of the normal retirement date or the attainment of age 62 with 40 years of service. If a participant is at least age 62 with at least 40 years of service, the monthly accrued benefit is unreduced.

Deferred vested termination

The monthly accrued benefit as of the date of termination with payments beginning at age 65. The benefit is available for early retirement as described above with 20 years of Vesting Service at termination.

Disablement

The monthly accrued benefit as of the date of disablement unreduced for early retirement. If a participant is awarded an Employer-provided Public Disability benefit, then the disability benefit under the plan is reduced by the Public Disability benefit.

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Preretirement death

The eligible spouse will be entitled to a monthly lifetime pension equal to 50% of the pension the participant would have received had he retired the day prior to his death and elected a joint and survivor annuity with 50% continuation to his or her spouse. If the participant was not at early retirement age at the time of his death, the pre-retirement survivor annuity will be deferred until the date on which he would have qualified for early retirement had he lived.

Charge for Coverage: Active participants are charged 1% for each year that death benefit coverage is in effect beginning at age 60. Terminated vested participants are charged for each year coverage is in effect after their termination date based on the following table. Coverage can be waived with spousal consent for each year that a charge applies.

Age	Reduction Per Year
40 and earlier	0.10%
40 – 49	0.20
50 – 54	0.30
55 – 59	0.50
60 and later	1.00

Other Plan Provisions

Form of Payment

Normal Form of Payment:

The normal form of payment is a monthly 10 year certain and life annuity. However, a married participant shall normally receive an actuarially equivalent joint annuity with a 50% continuation after the participant's death to his or her spouse, if surviving.

Optional Forms of Retirement Income in Lieu of Normal Form:

A participant may elect one of the following forms of payment of equivalent value:

- Life Annuity
- Joint and Survivor Annuity (50%, 75%, and 100%)
- 10 Year Certain and Life Annuity

Maximum limits on benefits and pay

All benefits and pay for any calendar year may not exceed the maximum limitations for that year as defined in the Internal Revenue Code. The plan provides for increasing dollar limits automatically as such changes take effect. Increases in the dollar limits are not assumed for funding or AFTAP purposes.

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Changes in Benefits Valued Since Prior Year

There have been no changes in benefits valued since the prior year.

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Schedule SB, Line 24 Change in Actuarial Assumptions

In addition to the prescribed change in the mortality table, the following changes in assumptions and methods were made as part of this valuation:

- The assumed plan-related expenses added to the target normal cost were changed from \$240,000 to \$260,000.

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