



**DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION  
FACILITIES DEVELOPMENT DIVISION**

**APPLICATION FOR HCAI SPECIAL SEISMIC  
CERTIFICATION PREAPPROVAL (OSP)**

OFFICE USE ONLY

**APPLICATION #: OSP-0022**

**HCAI Special Seismic Certification Preapproval (OSP)**

Type:  New  Renewal

**Manufacturer Information**

Manufacturer: Schneider Electric

Manufacturer's Technical Representative: Scott Littler

Mailing Address: 6700 Tower Circle, Suite 700, Franklin, TN 37067

Telephone: (615) 267-9407

Email: scott.littler@se.com

**Product Information**

Product Name: Switchgear/Switchboards

Product Type: Switchboards

Product Model Number: Square D Power-Style™ QED-2 and Speed D (see Certified Product Listing tables)

General Description: Switchboards are integrated, low voltage, power and control systems and may include main switches, fusible and circuit breaker functions (see Certified Major Sub-Component tables). Sheet metal framed enclosures come in NEMA Type 1 and Type 3R ratings.

Mounting Description: Rigid, Floor Mounted

Tested Seismic Enhancements: Seismic enhancements made to the test units and/or modifications required to address anomalies during the tests shall be incorporated into the production units.

**Applicant Information**

Applicant Company Name: TRU Compliance

Contact Person: Daniel Zentner

Mailing Address: 233 SW Wilson Ave, Suite 101, Bend, OR 97702

Telephone: (541) 292-5839

Email: dzentner@structint.com

Title: Program Manager





DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION  
FACILITIES DEVELOPMENT DIVISION

California Licensed Structural Engineer Responsible for the Engineering and Test Report(s)

Company Name: STRUCTURAL INTEGRITY ASSOCIATES  
Name: Mehrshad Ketabdar California License Number: S6105  
Mailing Address: 316 E Dexter St, Covina, CA 91723  
Telephone: (669) 946-2838 Email: mketabdar@structint.com

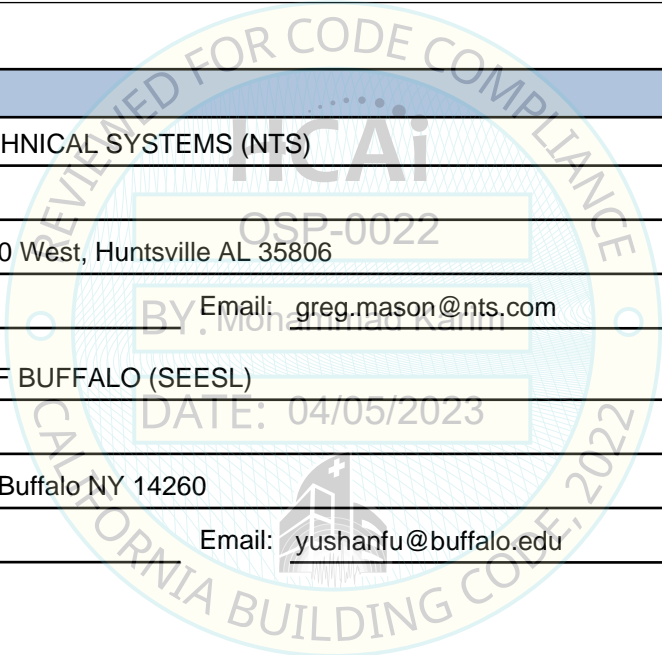
Certification Method

GR-63-Core  ICC-ES AC156  IEEE 344  IEEE 693  NEBS 3  
 Other (Please Specify):

Testing Laboratory

Company Name: NATIONAL TECHNICAL SYSTEMS (NTS)  
Contact Person: Greg Mason  
Mailing Address: 7800 Highway 20 West, Huntsville AL 35806  
Telephone: (256) 837-4411 Email: greg.mason@nts.com

Company Name: UNIVERSITY OF BUFFALO (SEESL)  
Contact Person: Yushan Fu  
Mailing Address: 212 Ketter Hall, Buffalo NY 14260  
Telephone: (716) 645-4377 Email: yushanfu@buffalo.edu





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FACILITIES DEVELOPMENT DIVISION**

**Seismic Parameters**

Design Basis of Equipment or Components ( $F_p/W_p$ ) = 1.22 (z/h = 1), 1.03 (z/h = 0)

SDS (Design spectral response acceleration at short period, g) = 1.63 (z/h = 1), 2.28 (z/h = 0)

$a_p$  (Amplification factor) = 2.5

$R_p$  (Response modification factor) = 6.0

$\Omega_0$  (System overstrength factor) = 2.0

$I_p$  (Importance factor) = 1.5

z/h (Height ratio factor) = 1 and 0

Natural frequencies (Hz) = See Attachment

Overall dimensions and weight = See Attachment

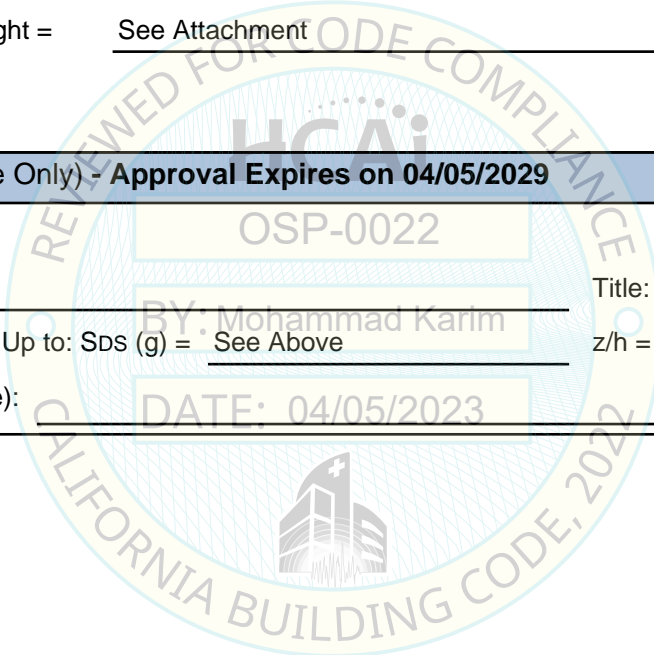
**HCAI Approval (For Office Use Only) - Approval Expires on 04/05/2029**

Date: 4/5/2023

Name: Mohammad Karim Title: Supervisor, Health Facilities

Special Seismic Certification Valid Up to: SDS (g) = See Above z/h = See Above

Condition of Approval (if applicable): DATE: 04/05/2023



# SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENT MATRIX

2001333-CR-001-R1



<b>Manufacturer:</b> Schneider Electric	<b>TABLE 1a</b>
<b>Model Line:</b> QED-2 and Speed D Low Voltage Switchboards	

**Certified Product Construction Summary:**  
Power distribution and control switchboard sections with circuit breakers. Copper and aluminum main bus. NEMA Enclosure Types 1 and 3R are constructed of carbon steel sheet with powdercoated finish.

**Certified Options Summary:**  
QED-2 Switchboard: MasterPact™ & PowerPact™ circuit breakers. Rated from 400A to 5000A.

**Mounting Configuration:**  
Base mounted - rigid (Standalone)  
Note: Installed mounting must be of similar configuration and equivalent strength and stiffness to those tested.

**Building Code: CBC 2022**      **Seismic Certification Limits:**       $S_{DS} = 1.63g \quad z/h=1.0$        $I_p = 1.5$   
 $S_{DS} = 2.28g \quad z/h=0.0$

Model Line	Model	Dimensions (in)			Weight (lbs.)	Notes <sup>1</sup>	UUT
		Depth <sup>2</sup>	Width	Height			
QED-2 Power-Style	30W	24.0	30.0	91.5	428		7
		24.0	30.0	91.5	800		Interp.
		36.0	30.0	91.5	1,250		Interp.
		48.0	30.0	91.5	1,600		Interp.
		54.0	30.0	91.5	1,750		Interp.
		60.0	30.0	91.5	1,900		Interp.
		72.0	30.0	91.5	2,000		Interp.
	36W	24.0	36.0	91.5	895		10
		24.0	36.0	91.5	900		Interp.
		36.0	36.0	91.5	1,650		Interp.
		36.0	36.0	91.5	1,655		18
		48.0	36.0	91.5	1,950		Interp.
		48.0	36.0	91.5	1,960		19
		54.0	36.0	91.5	2,000		Interp.
	42W	60.0	36.0	91.5	2,000		Interp.
		72.0	36.0	91.5	2,050		Interp.
		24.0	42.0	91.5	1,050		Interp.
		36.0	42.0	91.5	1,800		Interp.
		48.0	42.0	91.5	2,050		Interp.
		54.0	42.0	91.5	2,050		Interp.
		60.0	42.0	91.5	2,100		Interp.
	72.0	42.0	91.5	2,150		Interp.	

**Notes:**  
**1.** Main bus ampacity rating is for both copper and aluminum bus (See Certified Major Sub-Components Table).  
**2.** NEMA 3R enclosure adds 11" to the depth of the NEMA 1 enclosure depths listed in Table 1a & Table 1b

# SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENT MATRIX

2001333-CR-001-R1



<b>Manufacturer:</b> Schneider Electric	<b>TABLE 1a</b>
<b>Model Line:</b> QED-2 and Speed D Low Voltage Switchboards	

**Certified Product Construction Summary:**  
Power distribution and control switchboard sections with circuit breakers. Copper and aluminum main bus. NEMA Enclosure Types 1 and 3R are constructed of carbon steel sheet with powdercoated finish.

**Certified Options Summary:**  
QED-2 Switchboard: MasterPact™ & PowerPact™ circuit breakers. Rated from 400A to 5000A.

**Mounting Configuration:**  
Base mounted - rigid (Standalone)  
Note: Installed mounting must be of similar configuration and equivalent strength and stiffness to those tested.

**Building Code: CBC 2022**      **Seismic Certification Limits:**       $S_{DS} = 1.63g$   $z/h=1.0$        $I_p = 1.5$   
 $S_{DS} = 2.28g$   $z/h=0.0$

Model Line	Model	Dimensions (in)			Weight (lbs.)	Notes <sup>1</sup>	UUT
		Depth <sup>2</sup>	Width	Height			
QED-2 Power-Style	48W	24.0	48.0	91.5	1,200		Interp.
		36.0	48.0	91.5	1,950		Interp.
		48.0	48.0	91.5	1,210		3
		48.0	48.0	91.5	2,100		Interp.
		54.0	48.0	91.5	2,150		Interp.
		60.0	48.0	91.5	2,176		13
	54W	60.0	48.0	91.5	2,176		Interp.
		72.0	48.0	91.5	2,176		Interp.
		24.0	54.0	91.5	1,375		Interp.
		36.0	54.0	91.5	1,421		17
		36.0	54.0	91.5	2,000		Interp.
		47.0	54.0	91.5	1,404	NEMA 3R Enclosure	6
		48.0	54.0	91.5	2,150		Interp.
		54.0	54.0	91.5	2,176		Interp.
		60.0	54.0	91.5	2,176		Interp.
		72.0	54.0	91.5	2,176		Interp.

**Notes:**  
**1.** Main bus ampacity rating is for both copper and aluminum bus (See Certified Major Sub-Components Table).  
**2.** NEMA 3R enclosure adds 11" to the depth of the NEMA 1 enclosure depths listed in Table 1a & Table 1b

# SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENT MATRIX



2001333-CR-001-R1

<b>Manufacturer:</b> Schneider Electric	<b>TABLE 1b</b>
<b>Model Line:</b> QED-2 and Speed D Low Voltage Switchboards	

**Certified Product Construction Summary:**  
Power distribution and control switchboard sections with circuit breakers. Copper and aluminum main bus. NEMA Enclosure Types 1 and 3R are constructed of carbon steel sheet with powdercoated finish.

**Certified Options Summary:**  
QED-2 Switchboard: MasterPact™ & PowerPact™ circuit breakers. Rated from 400A to 5000A.

**Mounting Configuration:**  
Base mounted - rigid (Ganged)  
Note: Installed mounting must be of similar configuration and equivalent strength and stiffness to those tested.

**Building Code: CBC 2022**      **Seismic Certification Limits:**       $S_{DS} = 1.63 g$      $z/h=1.0$        $I_p = 1.5$   
 $S_{DS} = 2.28 g$      $z/h=0.0$

Model Line	Model	Dimensions (in)			Weight (lbs.)	Notes	UUT
		Depth <sup>2</sup>	Width	Height			
QED-2 Power-Style	12W	24.0	12.0	91.5	750		Interp.
		36.0	12.0	91.5	750		Interp.
		48.0	12.0	91.5	750		Interp.
		54.0	12.0	91.5	750		Interp.
		60.0	12.0	91.5	750		Interp.
		72.0	12.0	91.5	750		Interp.
	24W	24.0	24.0	91.5	850		Interp.
		36.0	24.0	91.5	850		Interp.
		48.0	24.0	91.5	850		Interp.
		54.0	24.0	91.5	850		Interp.
		60.0	24.0	91.5	850		Interp.
		72.0	24.0	91.5	850		Interp.
	30W	24.0	30.0	91.5	800		Interp.
		36.0	30.0	91.5	1,250		Interp.
		48.0	30.0	91.5	1,600		Interp.
		54.0	30.0	91.5	1,750		Interp.
		60.0	30.0	91.5	2,000		15B
		72.0	30.0	91.5	2,000		Interp.
	36W	24.0	36.0	91.5	900		Interp.
		36.0	36.0	91.5	1,650		Interp.
		48.0	36.0	91.5	1,950		Interp.
		54.0	36.0	91.5	2,000		Interp.
		60.0	36.0	91.5	2,095		14B
		72.0	36.0	91.5	2,095		Interp.

**Notes:**  
1. Main bus ampacity rating is for both copper and aluminum bus (See Certified Major Sub-Components Table).  
2. NEMA 3R enclosure adds 11" to the depth of the NEMA 1 enclosure depths listed in Table 1a & Table 1b

# SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENT MATRIX



2001333-CR-001-R1

<b>Manufacturer:</b> Schneider Electric	<b>TABLE 1b</b>
<b>Model Line:</b> QED-2 and Speed D Low Voltage Switchboards	

**Certified Product Construction Summary:**  
Power distribution and control switchboard sections with circuit breakers. Copper and aluminum main bus. NEMA Enclosure Types 1 and 3R are constructed of carbon steel sheet with powdercoated finish.

**Certified Options Summary:**  
QED-2 Switchboard: MasterPact™ & PowerPact™ circuit breakers. Rated from 400A to 5000A.

**Mounting Configuration:**  
Base mounted - rigid (Ganged)  
Note: Installed mounting must be of similar configuration and equivalent strength and stiffness to those tested.

**Building Code: CBC 2022**      **Seismic Certification Limits:**       $S_{DS} = 1.63g$   $z/h=1.0$        $I_p = 1.5$   
 $S_{DS} = 2.28g$   $z/h=0.0$

Model Line	Model	Dimensions (in)			Weight (lbs.)	Notes	UUT
		Depth <sup>2</sup>	Width	Height			
QED-2 Power-Style	42W	24.0	42.0	91.5	1,050		Interp.
		36.0	42.0	91.5	1,800		Interp.
		48.0	42.0	91.5	2,050		Interp.
		54.0	42.0	91.5	2,500		Interp.
		60.0	42.0	91.5	3,000		15A
		72.0	42.0	91.5	3,000		Interp.
	48W	24.0	48.0	91.5	1,200		Interp.
		36.0	48.0	91.5	1,950		Interp.
		48.0	48.0	91.5	2,100		Interp.
		54.0	48.0	91.5	2,500		Interp.
		60.0	48.0	91.5	3,000		14A
		72.0	48.0	91.5	3,000		Interp.
	54W	24.0	54.0	91.5	1,375		Interp.
		36.0	54.0	91.5	2,000		Interp.
		48.0	54.0	91.5	2,150		Interp.
		54.0	54.0	91.5	2,500		Interp.
		60.0	54.0	91.5	3,000		Interp.
		72.0	54.0	91.5	3,000		Interp.

**Notes:**  
**1.** Main bus ampacity rating is for both copper and aluminum bus (See Certified Major Sub-Components Table).  
**2.** NEMA 3R enclosure adds 11" to the depth of the NEMA 1 enclosure depths listed in Table 1a & Table 1b







# SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

2001333-CR-001-R1



<b>Manufacturer:</b> Schneider Electric	<b>Table Description:</b> Electrical Subcomponents	<b>TABLE 3</b>
<b>Model Line:</b> QED-2 and Speed D Low Voltage Switchboards		

<b>Building Code:</b> CBC 2022	<b>Seismic Certification Limits:</b>	$S_{DS} = 1.63 g$ $z/h = 1.0$	$I_p = 1.5$
		$S_{DS} = 2.28 g$ $z/h = 0.0$	

Component Type	Manufacturer	Model	Description <sup>1</sup>	Weight (lbs.)	Notes	UUT
Molded Case Circuit Breaker / Switch	Schneider Electric	B*	20-125 Amps	4		Interp.
		FHL 360	100 Amps	5	UUT: FHL36000M4200	10
		F*	15-100 Amps	5		Interp.
		HJ 150	150 Amps	5		13
		H*	15-150 Amps	5		Interp.
		JJ 250	250 Amps	5		13
		J*	30-250 Amps	5		Interp.
		QD70	70 Amps	5	UUT: QDA220702	6
		QD225	225 Amps	7	UUT: QDA32225	6
		Q*	70-225 Amps	7		Interp.
		LJ 400	400 Amps	16		13
		L*	30-600 Amps	16		Interp.
		MJ 800	800 Amps	29		12
		M*	30-800 Amps	29		Interp.
		PJ 400	400 Amps	32		13
		P*	250-1200 Amps	32		Interp.
		RJF3620	2500 Amps	52	UUT: RJF36200U44A	10
R*	600-2500 Amps	52		Interp.		
Power Switches (QMB)	Schneider Electric	QMB361TW	30 Amps	18		2
		QMB*	30-1200 Amps	18-136		Interp.
		QMB368W	1200 Amps	136		3

**Notes:**  
1. All components are 120-600 Volts rating.

# SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

2001333-CR-001-R1



<b>Manufacturer:</b> Schneider Electric <b>Model Line:</b> QED-2 and Speed D Low Voltage Switchboards		<b>Table Description:</b> Electrical Subcomponents			<b>TABLE 3</b>	
<b>Building Code:</b> CBC 2022		<b>Seismic Certification Limits:</b>			$S_{DS} = 1.63 g$ $z/h = 1.0$ $S_{DS} = 2.28 g$ $z/h = 0.0$	
					$I_P = 1.5$	
Component Type	Manufacturer	Model	Description <sup>1</sup>	Weight (lbs.)	Notes	UUT
Power Switches	Schneider Electric	FTL3100	100 Amps	5		5
		FTL*	100-200 Amps	5		Interp.
		FTL3200	200 Amps	5		5
Power Switches (QMJ)	Schneider Electric	QMJ361T	30 Amps	17		2
		QMJ*	30-600 Amps	17-88		Interp.
		QMJ366	600 Amps	88		3
Surge Protection Device	Schneider Electric	HL2IMA12C1	120 kA	22		6
		HL4IMA12C1	120 kA	22		17
		HR <sup>*2</sup> , HL <sup>*2</sup>	120-240 kA	22		Interp.
		TVS4IMA16B1	160 kA	8.5		15
		TVS*	120-480 kA	8.5-17		Interp.
		TVS4IMA48B	480 kA	17		10
		QMB4IMA12	120 kA	40		2
		QMB*	120-240 kA	40-41		Interp.
Smart Cell	Schneider Electric	QMB4IMA24	240 kA	41		3
		ICWL2422M01	Modbus Communication	10		6
		ICW*		10		Interp.
		ICWL263X5563	Power Meter	10		17
		ICWL242XPWR	24V Power Supply	10		17
		ICWR262XCMX2	Energy Server Data Logger	10		17

**Notes:**

- All components are 120-600 Volts rating.
- The HR and HL Surge Protection Devices are structurally identical, the only difference is rating and software.

# SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

2001333-CR-001-R1



<b>Manufacturer:</b> Schneider Electric	<b>Table Description:</b> Electrical Subcomponents	<b>TABLE 3</b>
<b>Model Line:</b> QED-2 and Speed D Low Voltage Switchboards		

<b>Building Code:</b> CBC 2022	<b>Seismic Certification Limits:</b>	$S_{DS} = 1.63 g$ $z/h = 1.0$	$I_P = 1.5$	
		$S_{DS} = 2.28 g$ $z/h = 0.0$		

Component Type	Manufacturer	Model	Description <sup>1</sup>	Weight (lbs.)	Notes	UUT
Control Power Transformers - Copper Windings	Schneider Electric	9070T150D1	0.15 kVA, Single Phase, Cu windings	5.5		17
		9070T*	0.5 - 5 kVA, Single Phase, Cu Windings	13-94		Interp.
		9070T500D1	0.5 kVA, Single Phase, Cu windings	13		10
		9070T1000D1	1 kVA, Single Phase, Cu windings	22		20
		9070T2000D1	2 kVA, Single Phase, Cu windings	49		Interp.
		9070T3000D1	3 kVA, Single Phase, Cu windings	66		9
		9070T5000D1	5 kVA, Single Phase, Cu windings	94		4
Dry Type Transformers - Single Phase - Aluminum	Schneider Electric	5S1HFOC	5 kVA, Single Phase, Al windings	66		11
		H* <sup>3</sup>	5-25 kVA, Single Phase, Al Windings	66-140		Interp.
		7S1HFOC	7.5 kVA, Single Phase, Al windings	80		9
		10S1HFOC	10 kVA, Single Phase, Al windings	140		Interp.
		EE15S3HOC	15 kVA, Single Phase, Al windings	140		4
HRGU - Neutral Grounding Resistor	Post Glover	U-NGD27CM-118000D	227V, Single Phase	66		19

**Notes:**

1. All components are 120-600 Volts rating.
2. The HR and HL Surge Protection Devices are structurally identical, the only difference is rating and software.
3. Single phase aluminum transformers are covered by this listing. Leading and/or trailing characters, as seen in the tested versions, will be present in the catalog #.

# SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

2001333-CR-001-R1



<b>Manufacturer:</b> Schneider Electric	<b>Table Description:</b> Electrical Subcomponents	<b>TABLE 4</b>
<b>Model Line:</b> QED-2 and Speed D Low Voltage Switchboards		

<b>Building Code:</b> CBC 2022	<b>Seismic Certification Limits:</b>	$S_{DS} = 1.63 g$ $z/h = 1.0$	$I_P = 1.5$
		$S_{DS} = 2.28 g$ $z/h = 0.0$	

Component Type	Manufacturer	Model	Description <sup>1</sup>	Weight (lbs.)	Notes	UUT
MTZ1 Breakers <sup>1</sup> (3-pole)	Schneider Electric	MTZ1 12	1200A, MTZ1 Frame	40	UUT: MTZ1-12L1	4
		MTZ1*	800-1600A, MTZ1 Frame	40		Interp.
T-Frame Breakers <sup>1</sup> (3-pole)	Schneider Electric	NT08	800A, T-Frame	40	UUT: NT08N1	4
		NT*	800-1600A, T-Frame	40		Interp.
MTZ2 Breakers <sup>1</sup> (3-pole)	Schneider Electric	MTZ2 32	3200A, MTZ2 Frame	127		20
		MTZ2*	800-4000A, MTZ2 Frame	109-127		Interp.
W-Frame Breakers <sup>1</sup> (3-pole)	Schneider Electric	NW08	800A, W-Frame	109	UUT15: NW08H UUT20: NW08H1, NW08H2	15, 20
		NW16	1600A, W-Frame	109	UUT14: NW16L, UUT15: NW16H	14, 15
		NW20	2000A, W-Frame	109	UUT4: NW20H1, UUT13: NW20H UUT14: NW20L	4, 13, 14
		NW*	800-4000A, W-Frame	109-127		Interp.
		NW32	3200A, W-Frame	127	UUTs: NW32H3	15, 20
MTZ2 Breakers <sup>1</sup>	Schneider Electric	MTZ2*	800-4000A, MTZ2 Frame	142-185		Interp.
W-Frame Breakers <sup>1</sup> (4-pole)	Schneider Electric	NW12	1600A, W-Frame	185	UUT: NW12F	18
		NW20	2000A, W-Frame	185	UUT: NW20HF	19
		NW*	800-3200A, W-Frame	142-185		Interp.
MTZ3 Breakers <sup>1</sup> (6-pole)	Schneider Electric	MTZ3 50	5000A, MTZ3 Frame	227	UUT: MTZ3-50H	20
		MTZ3*	4000-6000A, MTZ3 Frame	227		Interp.
Y-Frame Breakers <sup>1</sup> (6-pole)	Schneider Electric	NW50	5000A, Y-Frame	227	UUT4 & UUT9: NW50L1 UUT14: NW50H	4, 9, 14
		NW*	4000-6000A, Y-Frame	227		Interp.

**Notes:**  
**1.** Breaker configurations include H, H1, H2, H3, HA, HB HC, HF, L, L1, L1F, LF, N, N1, NA, L, LF, and ArcBlok. Circuit Breakers, Automatic Switches and Non-Automatic Switches Rated 254-635 VAC; 50/60 Hz

# UNIT UNDER TEST (UUT) SUMMARY SHEET

2001333-CR-001-R1



<b>Manufacturer:</b> Schneider Electric <b>Model Line:</b> QED-2 and Speed D Low Voltage Switchboards								
UUT	Unit Description (Mounting)	Report Number	Testing Lab	Year Tested	ISO 17025 Accredited?	S <sub>DS</sub> (g)	z/h	I <sub>p</sub>
1A	Speed D Power-Style LV Switchboard (base mounted - rigid (Ganged))	PR048901-TR-16 (UUT1)	NTS - Huntsville	2016	Yes	2.02 2.28	1.0 0.0	1.5
1B	Speed D Power-Style LV Switchboard (base mounted - rigid (Ganged))	PR048901-TR-16 (UUT1)	NTS - Huntsville	2016	Yes	2.02 2.28	1.0 0.0	1.5
2	36W QED-2 Power-Style LV Switchboard (base mounted - rigid (Standalone))	PR048901-TR-16 (UUT2)	NTS - Huntsville	2016	Yes	2.02 2.28	1.0 0.0	1.5
3	48W QED-2 Power-Style LV Switchboard (base mounted - rigid (Standalone))	PR048901-TR-16 (UUT3)	NTS - Huntsville	2016	Yes	2.02 2.28	1.0 0.0	1.5
4	PZ4 - Main & Feeder Lineup, 5kA (base mounted - rigid)	1900465-TR-001-R1 (UUT4)	SEESL	2019	Yes	1.63 2.50	1.0 0.0	1.5
5	36W CMM QED-2 Power-Style LV Switchboard (base mounted - rigid (Standalone))	PR051315-TR-16 (UUT1)	NTS - Huntsville	2016	Yes	2.02 2.28	1.0 0.0	1.5
6	54W I-Line QED-2 Power-Style LV Switchboard (base mounted - rigid (Standalone))	PR051315-TR-16 (UUT2)	NTS - Huntsville	2016	Yes	2.02 2.28	1.0 0.0	1.5
7	30W QED-2 Power-Style LV Switchboard (base mounted - rigid (Standalone))	PR051315-TR-16 (UUT3)	NTS - Huntsville	2016	Yes	2.02 2.28	1.0 0.0	1.5
8	NOT USED							
9	PZ4 - Main Section, 5kA, 3P	1900465-TR-001-R1 (UUT2)	SEESL	2019	Yes	1.83 2.96	1.0 0.0	1.5
10	36W QED-2 Power-Style LV Switchboard (base mounted - rigid (Standalone))	No. 55636R08 (UUT2)	NTS - Huntsville (formerly Wyle)	2008	Yes	1.73 2.96	1.0 0.0	1.5
<b>Notes:</b>								

# UNIT UNDER TEST (UUT) SUMMARY SHEET



2001333-CR-001-R1

<b>Manufacturer:</b> Schneider Electric <b>Model Line:</b> QED-2 and Speed D Low Voltage Switchboards								
UUT	Unit Description (Mounting)	Report Number	Testing Lab	Year Tested	ISO 17025 Accredited?	S <sub>DS</sub> (g)	z/h	I <sub>P</sub>
11	Model 6 LV Motor Control Center (LVMCC Section (25W20D 3R))	No. 71437R13 (UUT3)	NTS - Huntsville (formerly Wyle)	2013	Yes	2.27 2.57	1.0 0.0	1.5
12	Speed D Power-Style LV Switchboard (base mounted - rigid (Standalone))	No. 55636R08 (UUT1)	NTS - Huntsville (formerly Wyle)	2008	Yes	1.70 2.83	1.0 0.0	1.5
13	Single Section QED-2 Switchboard (Combo 2kA I-Line)	1800444-TR-001 (UUT1)	SEESL	2018	Yes	1.68 2.69	1.0 0.0	1.5
14	Two Section QED-2 Switchboard (5kA Main & Feeder)	1800444-TR-001 (UUT2)	SEESL	2018	Yes	1.68 2.69	1.0 0.0	1.5
15	Two Section QED-2 Switchboard (3.2kA Main-Tie & Feeder)	1800444-TR-001 (UUT3)	SEESL	2018	Yes	1.78 2.84	1.0 0.0	1.5
16	NOT USED							
17	QED-2 LV Switchboard, 3 kA I-Line Distribution Section (base mounted - rigid)	2200538-TR-001 (UUT1a)	SEESL	2022	Yes	2.05 2.73	1.0 0.0	1.5
18	QED-2 LV Switchboard, 1200A Transfer Switch (base mounted - rigid)	2200538-TR-001 (UUT2a)	SEESL	2022	Yes	2.05 2.73	1.0 0.0	1.5
19	QED-2 LV Switchboard, 2000A Transfer Switch (base mounted - rigid)	2200538-TR-001 (UUT3a)	SEESL	2022	Yes	2.05 2.73	1.0 0.0	1.5
20	Arc Resisting PZ4 - Main & Feeder Lineup, 5kA (base mounted - rigid)	1900465-TR-001 (UUT7)	SEESL	2019	Yes	2.06 2.78	1.0 0.0	1.5
<b>Notes:</b>								

# UNIT UNDER TEST (UUT) SUMMARY SHEET

2001333-CR-001-R1



<b>Manufacturer:</b>	Schneider Electric	<b>UUT 1A</b>
<b>Model Line:</b>	QED-2 and Speed D Low Voltage Switchboards	
<b>Model Number:</b>	Speed D Power-Style LV Switchboard	
<b>Serial Number:</b>	SF344IR	
<b>Test Report:</b>		PR048901-TR-16 (UUT1)

UUT Properties						
Weight (lbs.)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
633	30.0	36.0	91.5	6.2	10.5	>33.3

UUT Highest Passed Seismic Run Information									
Building Code	Test Criteria	S <sub>DS</sub> (g)	z/h	I <sub>p</sub>	A <sub>FLX-H</sub> (g)	A <sub>RIG-H</sub> (g)	A <sub>FLX-V</sub> (g)	A <sub>RIG-V</sub> (g)	
CBC 2022	ICC-ES AC156	2.02	1.0	1.5	3.23	2.42	1.52	0.61	
		2.28	0.0						

**Product Construction Summary:**  
Low voltage (480V – 400A) switchboard lineup consisting of a 36” wide x 30” deep Speed D, Distribution Section (UUT1A) with copper bus connected to an 11.5” wide x 14” deep Speed D Loadside Wireway Section (UUT-1B). The switchboard distribution section (UUT-1A) is packaged as NEMA Type 3R outdoor enclosure and the switchboard wireway section (UUT-1B) is packaged as NEMA Type 1 indoor enclosure. The NEMA Type 3R and Type 1 enclosures are constructed of carbon steel sheet, with powder-coated finish.

**Test Mounting Details:**



**Options/Subcomponent Summary:**

Description	Part Number	Weight (lbs.)
Switch Molded Case 400A / 600V (Square D by Schneider Electric)	LHF36000M8076	15
Copper Bus 400A (Square D by Schneider Electric)	-	-

UUT1A was base mounted - rigid (Ganged) using six (6) 3/8"-16 Grade 5 bolts and flat washers secured at 25 lbf-ft torque. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.



# UNIT UNDER TEST (UUT) SUMMARY SHEET

2001333-CR-001-R1



<b>Manufacturer:</b>	Schneider Electric	<b>UUT 1B</b>
<b>Model Line:</b>	QED-2 and Speed D Low Voltage Switchboards	
<b>Model Number:</b>	Speed D Power-Style LV Switchboard	
<b>Serial Number:</b>	SA10LW	
<b>Test Report:</b>		PR048901-TR-16 (UUT1)

UUT Properties						
Weight (lbs.)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
157	14.0	11.5	91.5	6.2	10.5	>33.3

UUT Highest Passed Seismic Run Information									
Building Code	Test Criteria	S <sub>DS</sub> (g)	z/h	I <sub>P</sub>	A <sub>FLX-H</sub> (g)	A <sub>RIG-H</sub> (g)	A <sub>FLX-V</sub> (g)	A <sub>RIG-V</sub> (g)	
CBC 2022	ICC-ES AC156	2.02	1.0	1.5	3.23	2.42	1.52	0.61	
		2.28	0.0						

**Product Construction Summary:**  
Low voltage (480V – 400A) switchboard lineup consisting of a 36” wide x 30” deep Speed D, Distribution Section (UUT1A) with copper bus connected to an 11.5” wide x 14” deep Speed D Loadside Wireway Section (UUT-1B). The switchboard distribution section (UUT-1A) is packaged as NEMA Type 3R outdoor enclosure and the switchboard wireway section (UUT-1B) is packaged as NEMA Type 1 indoor enclosure. The NEMA Type 3R and Type 1 enclosures are constructed of carbon steel sheet, with powder-coated finish.

**Test Mounting Details:**



**Options/Subcomponent Summary:**

Description	Part Number	Weight (lbs.)
Copper Bus 400A (Square D by Schneider Electric)	-	-

UUT1B was base mounted - rigid (Ganged) using six (6) 3/8"-16 Grade 5 bolts and flat washers secured at 25 lbf-ft torque. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.



# UNIT UNDER TEST (UUT) SUMMARY SHEET

2001333-CR-001-R1



<b>Manufacturer:</b>	Schneider Electric	<b>UUT 3</b>
<b>Model Line:</b>	QED-2 and Speed D Low Voltage Switchboards	
<b>Model Number:</b>	48W QED-2 Power-Style LV Switchboard	
<b>Serial Number:</b>	37983649-002	
<b>Test Report:</b>		PR048901-TR-16 (UUT3)

**UUT Properties**

Weight (lbs.)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
1,210	48.0	48.0	91.5	10.5	5.0	17.0

**UUT Highest Passed Seismic Run Information**

Building Code	Test Criteria	S <sub>DS</sub> (g)	z/h	I <sub>p</sub>	A <sub>FLX-H</sub> (g)	A <sub>RIG-H</sub> (g)	A <sub>FLX-V</sub> (g)	A <sub>RIG-V</sub> (g)
CBC 2022	ICC-ES AC156	2.02	1.0	1.5	3.23	2.42	1.52	0.61
		2.28	0.0					

**Product Construction Summary:** **Test Mounting Details:**

Low voltage QED-2 switchboard distribution with aluminum bus packaged as NEMA Type 1 indoor enclosure. The NEMA Type 1 enclosure is constructed of carbon steel sheet, with powder-coated finish.



**Options/Subcomponent Summary:**

Description	Part Number	Weight (lbs.)
Surge Protective Device (SPD) 240kVA (Square D by Schneider Electric)	QMB41MA24	41
Switch QMJ Branch 600A / 600V (Square D by Schneider Electric)	QMJ366	88
Switch QMB Branch 1200A / 600V (Square D by Schneider Electric)	QMB368W	136
Aluminum Bus 3200A (Square D by Schneider Electric)	-	-

UUT3 was base mounted - rigid (Standalone) using six (6) 1/2"-13 Grade 5 bolts and flat washers secured at 60 lbf-ft torque. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.

# UNIT UNDER TEST (UUT) SUMMARY SHEET



2001333-CR-001-R1

<b>Manufacturer:</b>	Schneider Electric	<b>UUT 4</b>
<b>Model Line:</b>	Power-Zone 4 (PZ-4) Switchgear Systems	
<b>Model Number:</b>	PZ4 - Main & Feeder Lineup, 5kA	
<b>Serial Number:</b>	41324718-004	
<b>Test Report:</b>		1900465-TR-001-R1 (UUT4)

**UUT Properties**

Weight (lbs.)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
5,955	80.0	66.0	91.5	9.3	6.4	27.1

**UUT Highest Passed Seismic Run Information**

Building Code	Test Criteria	S <sub>DS</sub> (g)	z/h	I <sub>P</sub>	A <sub>FLX-H</sub> (g)	A <sub>RIG-H</sub> (g)	A <sub>FLX-V</sub> (g)	A <sub>RIG-V</sub> (g)
CBC 2022	ICC-ES AC156	1.63	1.0	1.5	2.61	1.96	1.67	0.67
		2.50	0.0					

<b>Product Construction Summary:</b>	<b>Test Mounting Details:</b>
Carbon steel enclosure with powder coated finish	

<b>Options/Subcomponent Summary:</b>		
Description	Part Number	Weight (lbs.)
Masterpact NT 800A, 3P, T-Frame Breakers (Schneider Electric)	NT08N1	40
Masterpact MTZ1 1200A, 3P, MTZ1 Breakers (Schneider Electric)	MTZ1-12L1	40
5kVA Control Power Transformer (Cu) (Schneider Electric)	9070T5000D1	94
Masterpact NW 2kA, 3P, W-Frame Breakers (Schneider Electric)	NW20H1	109
15kVA Single-Phase Transformer (Al) (Schneider Electric)	EE15S3HOC	140
Masterpact NW 5kA, 6P, Y-Frame Breakers (Schneider Electric)	NW50L1	227



UUT4 was base mounted - rigid using twelve (12) 1/2"-13 Grade 5 bolts and washers. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.

# UNIT UNDER TEST (UUT) SUMMARY SHEET


2001333-CR-001-R1



<b>Manufacturer:</b>	Schneider Electric	<b>UUT 5</b>
<b>Model Line:</b>	QED-2 and Speed D Low Voltage Switchboards	
<b>Model Number:</b>	36W CMM QED-2 Power-Style LV Switchboard	
<b>Serial Number:</b>	38064461-002	
<b>Test Report:</b>		PR051315-TR-16 (UUT1)

UUT Properties						
Weight (lbs.)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
642	24.0	36.0	91.5	11.0	12.0	>33.3

UUT Highest Passed Seismic Run Information									
Building Code	Test Criteria	S <sub>DS</sub> (g)	z/h	I <sub>p</sub>	A <sub>FLX-H</sub> (g)	A <sub>RIG-H</sub> (g)	A <sub>FLX-V</sub> (g)	A <sub>RIG-V</sub> (g)	
CBC 2022	ICC-ES AC156	2.02	1.0	1.5	3.23	2.42	1.52	0.61	
		2.28	0.0						

<b>Product Construction Summary:</b>	<b>Test Mounting Details:</b>
Low voltage QED-2, Commercial Multi Metering with copper bus packaged as NEMA Type 1 indoor enclosure. The NEMA Type 1 enclosure is constructed of carbon steel sheet, with powder-coated finish.	

Options/Subcomponent Summary:		
Description	Part Number	Weight (lbs.)
Circuit breaker - Powerpact (x2) (Square D by Schneider Electric)	HJL36060	5
Circuit breaker - Powerpact (Square D by Schneider Electric)	HJL36150	5
	JJL36200	5
Fused switch 100A (Square D by Schneider Electric)	FTL3100	5
Fused switch 200A (Square D by Schneider Electric)	FTL3200	5
Copper Bus 800A (Square D by Schneider Electric)	-	-

UUT5 was base mounted - rigid (Standalone) using four (4) 1/2"-13 Grade 5 bolts and flat washers secured at 65 lbf-ft torque. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.





# UNIT UNDER TEST (UUT) SUMMARY SHEET

2001333-CR-001-R1



<b>Manufacturer:</b>	Schneider Electric	<b>UUT 9</b>
<b>Model Line:</b>	Power-Zone 4 (PZ-4) Switchgear Systems	
<b>Model Number:</b>	PZ4 - Main Section, 5kA, 3P	
<b>Serial Number:</b>	41324718-002	
<b>Test Report:</b>		1900465-TR-001-R1 (UUT2)

UUT Properties						
Weight (lbs.)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
3,040	72.0	36.0	91.5	10.4	5.8	32.1

UUT Highest Passed Seismic Run Information									
Building Code	Test Criteria	S <sub>DS</sub> (g)	z/h	I <sub>P</sub>	A <sub>FLX-H</sub> (g)	A <sub>RIG-H</sub> (g)	A <sub>FLX-V</sub> (g)	A <sub>RIG-V</sub> (g)	
CBC 2022	ICC-ES AC156	1.83	1.0	1.5	2.96	2.20	1.97	0.79	
		2.96	0.0						

**Product Construction Summary:**  
Carbon steel enclosure with powder coated finish

**Test Mounting Details:**

**Options/Subcomponent Summary:**

Description	Part Number	Weight (lbs.)
3kVA Control Power Transformer (Cu) (Schneider Electric)	9070T3000D1	66
7.5kVA Single Phase Transformer (Al) (Schneider Electric)	7S1HFOC	80
Masterpact NW ACB, 5kA, 6P, Y-Frame Breaker (Schneider Electric)	NW50L1	227



UUT9 was base mounted - rigid using six (6) 1/2"-13 Grade 5 bolts and washers.  
Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.



# UNIT UNDER TEST (UUT) SUMMARY SHEET



2001333-CR-001-R1

<b>Manufacturer:</b> Schneider Electric	<b>UUT 10</b>
<b>Model Line:</b> QED-2 and Speed D Low Voltage Switchboards	
<b>Model Number:</b> 36W QED-2 Power-Style LV Switchboard	
<b>Serial Number:</b> FO# 085-24861930-001	
<b>Test Report:</b> No. 55636R08 (UUT2)	

### UUT Properties

Weight (lbs.)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
895	24.0	36.0	91.5	7.3	7.7	7.8

### UUT Highest Passed Seismic Run Information

Building Code	Test Criteria	S <sub>DS</sub> (g)	z/h	I <sub>P</sub>	A <sub>FLX-H</sub> (g)	A <sub>RIG-H</sub> (g)	A <sub>FLX-V</sub> (g)	A <sub>RIG-V</sub> (g)
CBC 2022	ICC-ES AC156	1.73	1.0	1.5	2.96	2.08	1.97	0.79
		2.96	0.0					

**Product Construction Summary:**  
Low voltage QED-2 switchboard containing a mid-located 2000A PowerPact R circuit breaker connected to a top located copper bus with lugs on bottom, packaged as a NEMA Type 1 indoor enclosure. The NEMA Type 1 enclosure is constructed of carbon steel sheet, with powder-coated finish.

### Test Mounting Details:



### Options/Subcomponent Summary:

Description	Part Number	Weight (lbs.)
3P FH Molded Case Switch (Square D)	FHL36000M4200	5
0.5kVA Control Power Transformer (Cu) (Schneider Electric)	9070T500D1	13
TVSS 480V 3P-4W 480KA (Square D by Schneider Electric)	TVS41MA48B	17
PowerPact Molded Case Circuit Breaker, R-frame 2000A (Square D by Schneider Electric)	RJF36200U44A	52

UUT10 was base mounted - rigid (Standalone) using four (4) 1/2"-13 Grade 5 bolts and Belleville conical washers secured at 70 lbf-ft torque. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.





# UNIT UNDER TEST (UUT) SUMMARY SHEET


2001333-CR-001-R1



<b>Manufacturer:</b>	Schneider Electric	<b>UUT 13</b>
<b>Model Line:</b>	QED-2 and Speed D Low Voltage Switchboards	
<b>Model Number:</b>	Single Section QED-2 Switchboard (Combo 2kA I-Line)	
<b>Serial Number:</b>	R7L05301	
<b>Test Report:</b>		1800444-TR-001-R0 (UUT1)

UUT Properties						
Weight (lbs.)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
2,176	60.0	48.0	91.5	8.6	4.0	21.0

UUT Highest Passed Seismic Run Information									
Building Code	Test Criteria	S <sub>DS</sub> (g)	z/h	I <sub>p</sub>	A <sub>FLX-H</sub> (g)	A <sub>RIG-H</sub> (g)	A <sub>FLX-V</sub> (g)	A <sub>RIG-V</sub> (g)	
CBC 2022	ICC-ES AC156	1.68	1.0	1.5	2.69	2.02	1.79	0.72	
		2.69	0.0						

<b>Product Construction Summary:</b>	<b>Test Mounting Details:</b>
NEMA Type 1 Rated Enclosure	

Options/Subcomponent Summary:		
Description	Part Number	Weight (lbs.)
Molded Case Breakers (Schneider Electric)	HG 060	5
	HJ 060 (x7)	5
	HJ 150	5
	JJ 250	5
	LJ 400	16
	PJ 400	32
Masterpact NW 2kA, 3P, W-Frame Breakers (Schneider Electric)	NW20H	109

UUT13 was base mounted - rigid using six (6) 1/2"-13 Grade 5 bolts, 1.25" OD, and Belleville washers secured at 65 lbf-ft torque. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.

# UNIT UNDER TEST (UUT) SUMMARY SHEET


2001333-CR-001-R1



<b>Manufacturer:</b> Schneider Electric	<b>UUT 14</b>
<b>Model Line:</b> QED-2 and Speed D Low Voltage Switchboards	
<b>Model Number:</b> Two Section QED-2 Switchboard (5kA Main & Feeder)	
<b>Serial Number:</b> 4002718-001; R7L05301	
<b>Test Report:</b> 1800444-TR-001-R0 (UUT2)	

UUT Properties						
Weight (lbs.) <sup>1</sup>	Dimension (in) <sup>1</sup>			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
5,095	60.0	84.0	91.5	7.6	5.2	14.8

UUT Highest Passed Seismic Run Information									
Building Code	Test Criteria	S <sub>DS</sub> (g)	z/h	I <sub>p</sub>	A <sub>FLX-H</sub> (g)	A <sub>RIG-H</sub> (g)	A <sub>FLX-V</sub> (g)	A <sub>RIG-V</sub> (g)	
CBC 2022	ICC-ES AC156	1.68	1.0	1.5	2.69	2.02	1.79	0.72	
		2.69	0.0						

<b>Product Construction Summary:</b> NEMA Type 1 rated enclosure	<b>Test Mounting Details:</b> 
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Options/Subcomponent Summary:		
Description	Part Number	Weight (lbs.)
Masterpact NW 1600A, 3P, W-Frame Breakers (Schneider Electric)	NW16L	109
Masterpact NW 2000A, 3P, W-Frame Breakers (Schneider Electric)	NW20L (x2)	109
Masterpact NW ACB, 5000A, 6P, Y-Frame Breaker (Schneider Electric)	NW50H	227

<b>Test Mounting Details:</b>
<p><sup>1</sup>Weight and Dimensions listed are total for Ganged (36W &amp; 48W). Individual details are as follows:</p> <p>36W - 2,095 lbs., 36.0" Wide 48W - 3,000 lbs., 48.0" Wide</p>

UUT14 was base mounted - rigid using eleven (11) 1/2"-13 Grade 5 bolts, 1.25" OD, and Belleville washers secured at 65 lbf-ft torque. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.

# UNIT UNDER TEST (UUT) SUMMARY SHEET

2001333-CR-001-R1



<b>Manufacturer:</b>	Schneider Electric	<b>UUT 15</b>
<b>Model Line:</b>	QED-2 and Speed D Low Voltage Switchboards	
<b>Model Number:</b>	Two Section QED-2 Switchboard (3.2kA Main-Tie & Feeder)	
<b>Serial Number:</b>	R7L05301; R7L05302	
		<b>Test Report:</b> 1800444-TR-001-R0 (UUT3)

UUT Properties						
Weight (lbs.) <sup>1</sup>	Dimension (in) <sup>1</sup>			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
5,000	60.0	72.0	91.5	8.2	5.3	18.7

UUT Highest Passed Seismic Run Information									
Building Code	Test Criteria	S <sub>DS</sub> (g)	z/h	I <sub>p</sub>	A <sub>FLX-H</sub> (g)	A <sub>RIG-H</sub> (g)	A <sub>FLX-V</sub> (g)	A <sub>RIG-V</sub> (g)	
CBC 2022	ICC-ES AC156	1.78	1.0	1.5	2.85	2.14	1.89	0.76	
		2.84	0.0						

<b>Product Construction Summary:</b>	<b>Test Mounting Details:</b>
NEMA Type 1 rated enclosure	

Options/Subcomponent Summary:		
Description	Part Number	Weight (lbs.)
Powerpact HL 60A (Schneider Electric)	HL 060	5
Surge Protective Device (SPD) 160kVA (Schneider Electric)	TVS41MA16B1	8.5
Masterpact NW 800A, 3P, W-Frame Breakers (Schneider Electric)	NW08H (x2)	109
Masterpact NW 1600A, 3P, W-Frame Breakers (Schneider Electric)	NW16H	109
Masterpact NW 3200A, 3P, W-Frame Breakers (Schneider Electric)	NW32H3	127

<b>Test Mounting Details:</b>
<p><sup>1</sup>Weight and Dimensions listed are total for Ganged (30W &amp; 42W). Individual details are as follows:</p> <p>30W - 2,000 lbs., 30.0" Wide 42W - 3,000 lbs., 42.0" Wide</p>

UUT15 was base mounted - rigid using twelve (12) 1/2"-13 Grade 5 bolts, 1.25" OD, and Belleville washers secured at 65 lbf-ft torque. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.

# UNIT UNDER TEST (UUT) SUMMARY SHEET


2001333-CR-001-R1



<b>Manufacturer:</b>	Schneider Electric	<b>UUT 17</b>
<b>Model Line:</b>	QED-2 and Speed D Low Voltage Switchboards	
<b>Model Number:</b>	QED-2 LV Switchboard, 3 kA I-Line Distribution Section	
<b>Serial Number:</b>	44383040-001	
<b>Test Report:</b>		2200538-TR-001 (UUT1a)

UUT Properties						
Weight (lbs.)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
1,421	36.0	54.0	91.5	10.10	7.98	20.90

UUT Highest Passed Seismic Run Information									
Building Code	Test Criteria	S <sub>DS</sub> (g)	z/h	I <sub>p</sub>	A <sub>FLX-H</sub> (g)	A <sub>RIG-H</sub> (g)	A <sub>FLX-V</sub> (g)	A <sub>RIG-V</sub> (g)	
CBC 2022	ICC-ES AC156	2.05	1.0	1.5	3.28	2.46	1.82	0.73	
		2.73	0.0						

<b>Product Construction Summary:</b>	<b>Test Mounting Details:</b>
Carbon steel enclosure with powder coated finish	

Options/Subcomponent Summary:		
Description	Part Number	Weight (lbs.)
FA MCCB – 20A, 1P	FY14020A	1.5
FA MCCB – 20A, 2P	FA26020AB	2
PowerPacT H MCCB – 15A, 2P	HDA260152	3
PowerPacT H MCCB – 110A, 2P	HDA261102	3
	HDA261104	3
FA MCCB – 20A, 3P	FA34020	4
PowerPacT H MCCB – 15A, 3P	HDA36015	5
	HDA360152	5
0.15kVA Control Power Transformer (Cu)	9070T150D1	5.5
PowerPacT Q MCCB – 225A, 3P	QBA32225	7
Smart Cell – 24V Power Supply	ICNL242XPWR	10
Smart Cell - PM5563 Power Meter	ICWL263X5563	10
Smart Cell – Com X210 Energy Server Data Logger	ICWR262XCMX2	10
PowerPact L MCCB – 300A, 3P	LC36300	16
SurgeLogic HL SPD – 120kA, 3Ph-4W	HL41MA12C1	22

UUT17 was base mounted - rigid using six (6) 1/2"-13 Grade 5 bolts and Belleville washers secured at 65 lbf-ft torque. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.

# UNIT UNDER TEST (UUT) SUMMARY SHEET


2001333-CR-001-R1



<b>Manufacturer:</b>	Schneider Electric	<b>UUT 18</b>
<b>Model Line:</b>	QED-2 and Speed D Low Voltage Switchboards	
<b>Model Number:</b>	QED-2 LV Switchboard, 1200A Transfer Switch	
<b>Serial Number:</b>	TS01	
<b>Test Report:</b>		2200538-TR-001 (UUT2a)

UUT Properties						
Weight (lbs.)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
1,655	36.0	36.0	91.5	10.0	4.75	25.4

UUT Highest Passed Seismic Run Information									
Building Code	Test Criteria	S <sub>DS</sub> (g)	z/h	I <sub>p</sub>	A <sub>FLX-H</sub> (g)	A <sub>RIG-H</sub> (g)	A <sub>FLX-V</sub> (g)	A <sub>RIG-V</sub> (g)	
CBC 2022	ICC-ES AC156	2.05	1.0	1.5	3.28	2.46	1.82	0.73	
		2.73	0.0						

<b>Product Construction Summary:</b>	<b>Test Mounting Details:</b>
Carbon steel enclosure with powder coated finish	

Options/Subcomponent Summary:		
Description	Part Number	Weight (lbs.)
Masterpact NW 1600A, 4P, W-Frame Breakers (Schneider Electric)	NW12F	185

UT18 was base mounted - rigid using six (6) 1/2"-13 Grade 5 bolts and Belleville washers secured at 65 lbf-ft torque. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.



# UNIT UNDER TEST (UUT) SUMMARY SHEET

2001333-CR-001-R1



<b>Manufacturer:</b>	Schneider Electric	<b>UUT 19</b>
<b>Model Line:</b>	QED-2 and Speed D Low Voltage Switchboards	
<b>Model Number:</b>	QED-2 LV Switchboard, 2000A Transfer Switch	
<b>Serial Number:</b>	42095667-059	
<b>Test Report:</b>		2200538-TR-001 (UUT3a)

UUT Properties						
Weight (lbs.)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
1,960	48.0	36.0	91.5	9.96	5.04	24.71

UUT Highest Passed Seismic Run Information									
Building Code	Test Criteria	S <sub>DS</sub> (g)	z/h	I <sub>p</sub>	A <sub>FLX-H</sub> (g)	A <sub>RIG-H</sub> (g)	A <sub>FLX-V</sub> (g)	A <sub>RIG-V</sub> (g)	
CBC 2022	ICC-ES AC156	2.05	1.0	1.5	3.28	2.46	1.82	0.73	
		2.73	0.0						

<b>Product Construction Summary:</b>	<b>Test Mounting Details:</b>
Carbon steel enclosure with powder coated finish	

Options/Subcomponent Summary:		
Description	Part Number	Weight (lbs.)
HRGU - Neutral Grounding Resistor, 1Ph, 277V (Post Glover)	U-NGD27CM-118000D	65.5
Masterpact NW 2000A, 4P, W-Frame Breakers (Schneider Electric)	NW20HF	185



UUT19 was base mounted - rigid using six (6) 1/2"-13 Grade 5 bolts and Belleville washers secured at 65 lbf-ft torque. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.

# UNIT UNDER TEST (UUT) SUMMARY SHEET




2001333-CR-001-R1

<b>Manufacturer:</b>	Schneider Electric	<b>UUT 20</b>
<b>Model Line:</b>	Power-Zone 4 (PZ-4) Switchgear Systems	
<b>Model Number:</b>	Arc Resisting PZ4 - Main & Feeder Lineup, 5kA	
<b>Serial Number:</b>	32816854-001	
<b>Test Report:</b>		1900465-TR-001-R1 (UUT7)

UUT Properties						
Weight (lbs.)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
6,023	72.0	58.0	91.5	8.5	4.0	20.4

UUT Highest Passed Seismic Run Information									
Building Code	Test Criteria	S <sub>DS</sub> (g)	z/h	I <sub>P</sub>	A <sub>FLX-H</sub> (g)	A <sub>RIG-H</sub> (g)	A <sub>FLX-V</sub> (g)	A <sub>RIG-V</sub> (g)	
CBC 2022	ICC-ES AC156	2.06	1.0	1.5	3.30	2.47	1.85	0.74	
		2.78	0.0						

<b>Product Construction Summary:</b>	<b>Test Mounting Details:</b>
Carbon steel enclosure with powder coated finish	

Options/Subcomponent Summary:		
Description	Part Number	Weight (lbs.)
1kVA Control Power Transformer (Cu) (Schneider Electric)	9070T1000D1	22
Masterpact NW 800A, 3P, W-Frame Breakers (Schneider Electric)	NW08H1	109
	NW08H2	109
Masterpact NW 3200A, 3P, W-Frame Breakers (Schneider Electric)	NW32H3	127
Masterpact MTZ2 3200A, 3P, MTZ2 Breakers (Schneider Electric)	MTZ2-32	127
Masterpact MTZ3 5000A, 6P, MTZ3 Breakers (Schneider Electric)	MTZ3-50H	127

UUT20 was base mounted - rigid using eight (8) 1/2"-13 Grade 5 bolts and washers.  
Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.