



**OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT
FACILITIES DEVELOPMENT DIVISION**

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

OFFICE USE ONLY	
APPLICATION #:	OSP – 0052

OSHPD Special Seismic Certification Preapproval (OSP)

Type: New Renewal

Manufacturer Information

Manufacturer: Square D by Schneider Electric

Manufacturer's Technical Representative: Scott Littler, Principal Technical Expert

Mailing Address: 330 Weakley Lane, Smyrna, TN 37167

Telephone: 615-459-1255 Email: scott.littler@se.com

Product Information

Product Name: Model 6 Low Voltage Motor Control Center

Product Type: Motor Control Center – Low Voltage (600 Volts and Below)

Product Model Number: Model 6 Standard and Relay MCC Sections
(List all unique product identification numbers and/or part numbers)

General Description: Standard and relay MCC sections packaged in NEMA Type 1, 1A, 12, and 3R enclosures. Seismic enhancements made to the test units and modifications required to address anomalies observed during the tests shall be incorporated into the production units.

Mounting Description: Base mounted - rigid

Applicant Information

Applicant Company Name: TRU Compliance, by Structural Integrity Associates, Inc.

Contact Person: Galen Reid

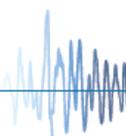
Mailing Address: 5215 Hellyer Ave., Suite 210, San Jose, CA 95138

Telephone: 541-604-7225 Email: greid@structint.com

I hereby agree to reimburse the Office of Statewide Health Planning and Development review fees in accordance with the California Administrative Code, 2016.

Signature of Applicant:  Date: 04/27/2022

Title: Director, TRU Compliance Company Name: TRU Compliance, by Structural Integrity Associates, Inc.





OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT FACILITIES DEVELOPMENT DIVISION

STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY
OSH-FD-759 (REV 12/16/15)

Page 2 of 3

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

Company Name: TRU Compliance, by Structural Integrity Associates, Inc.

Name: Andrew M. Coughlin California License Number: D6082

Mailing Address: 5215 Hellyer Ave., Suite 210, San Jose, CA 95138

Telephone: 844-878-0200 Email: acoughlin@structint.com

Supports and Attachments Preapproval

- Supports and attachments are preapproved under OPM-
(Separate application for OSHPD Preapproval of Manufacturer's Certification (OPM) of Supports and attachments is required)
- Supports and attachments are not preapproved

Certification Method

- Testing in accordance with: ICC-ES AC156
- Other (Please Specify): _____

BY: Timothy J. Piland

DATE: 08/08/2022

Testing Laboratory

Company Name: Environmental Testing Laboratory (ETL)

Contact Name: Jeremy Lange

Mailing Address: 11034 Indian Trail, Dallas, TX 75229

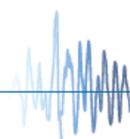
Telephone: 972-247-9657 Email: jeremy@etldallas.com

Company Name: NTS Huntsville

Contact Name: Greg Mason

Mailing Address: 7800 Highway 20 West, Huntsville, AL 35806

Telephone: 256-837-4411 Email: Greg.mason@nts.com





OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT FACILITIES DEVELOPMENT DIVISION

STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY
OSH-FD-759 (REV 12/16/15)

Page 2 of 3

Seismic Parameters

Design in accordance with ASCE 7-10 Chapter 13: Yes No

Design Basis of Equipment or Components (F_p/W_p) = 1.41 ($S_{DS} = 1.88$); 0.92 ($S_{DS} = 2.04$)

S_{DS} (Design spectral response acceleration at short period, g) = 1.88 (z/h = 1); 2.04 (z/h = 0)

a_p (In-structure equipment or component amplification factor) = 2.5

R_p (Equipment or component response modification factor) = 6.0

Ω_0 (System overstrength factor) = 2.0

I_p (Importance factor) = 1.5

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

Equipment or Component Natural Frequencies (Hz) = See Attachment

Overall dimensions and weight (or range thereof) = See Attachment

Equipment or Components @ grade designed in accordance with ASCE 7-10 Chapter 15: Yes No

Design Basis of Equipment or Components (V/W) = _____

S_{DS} (Design spectral response acceleration at short period, g) = _____

S_{D1} (Design spectral response acceleration at 1 second period, g) = _____

R (Response modification coefficient) = _____

Ω_0 (System overstrength factor) = _____

C_d (Deflection amplification factor) = _____

I_p (Importance factor) = 1.5

Height to Center of Gravity above base = _____

Equipment or Component Natural Frequencies (Hz) = _____

Overall dimensions and weight (or range thereof) = _____

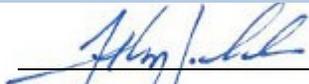
Tank(s) designed in accordance with ASME BPVC, 2015: Yes No

List of Attachments Supporting Special Seismic Certification

Test Report(s) Drawings Calculations Manufacturer's Catalog

Other(s) (Please Specify): Product Matrices

OSHPD Approval (For Office Use Only) – Approval Expires on August 08, 2028

Signature:  Date: August 8, 2022

Print Name: Timothy J. Piland Title: SSE

Special Seismic Certification Valid Up to: S_{DS} (g) = See Above z/h = See Above

Condition of Approval (if applicable): _____



SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENT MATRIX



1801105-CR-001 R0

Manufacturer: Square D by Schneider Electric	TABLE 1
Model Line: Model 6 Low Voltage Motor Control Center	

Certified Product Construction Summary:
Carbon Steel NEMA Type 1, 1A, 12, and 3R enclosures.

Certified Options Summary:
Horizontal bus ampacity ratings from 600A to 3200A, and vertical bus ampacity ratings from 300A to 1200A. See tables 3 - 12 for a complete listing of certified subcomponents.

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

Building Code: CBC 2019 **Seismic Certification Limits:** $S_{DS} = 1.88 g$ $z/h = 1.0$ $I_p = 1.5$
 $S_{DS} = 2.04 g$ $z/h = 0.0$

Model Line	Model ¹	Dimensions (in) ²			Weight (lb)	C.G. (in)	Notes	UUT
		Depth	Width	Height				
Model 6 (Standard & Relay)	20W15D	15	20	91.5	667	62	UUT1:524 lbs., UUT11:445 lbs.	1,2,11
	25W15D	15	25	91.5	680	62		Interp.
	30W15D	15	30	91.5	700	62		Interp.
	35W15D	15	35	91.5	775	62		Interp.
	20W20D	20	20	91.5	674	62	UUT3: 640 lbs., UUT6: 576 lbs. UUT12: 640 lbs.	3,6,7, 12
	25W20D	20	25	91.5	750	62		Interp.
	25W20D w/ EE/EX Transformer	20	25	91.5	854	52		17
	25W20D w/ EE/EX Transformer	20	25	91.5	875	52		Interp.
	30W20D	20	30	91.5	775	62		Interp.
	35W20D	20	35	91.5	825	62		Interp.
	20W15D 3R	26.6	27.5	91.5	900	62		Interp.
	25W15D 3R	26.6	32.5	91.5	925	62		Interp.
	30W15D 3R	26.6	37.5	91.5	1000	62		Interp.
	35W15D 3R	26.6	42.5	91.5	1025	62		Interp.
	20W20D 3R	31.6	27.5	91.5	975	62		Interp.
	25W20D 3R	31.6	32.5	91.5	970	62		5
	25W20D 3R w/ EE/EX Transformer	31.6	32.5	91.5	1375	52		20
	30W20D 3R	31.6	37.5	91.5	1150	62		Interp.
	35W20D 3R	31.6	42.5	91.5	1200	62		Interp.

¹35W sections are always less dense than 30W, and are utilized when more internal clearance is required.

²NEMA 3R enclosure option adds 7.5" to width and 11.6" to depth.

SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENT MATRIX



1801105-CR-001 R0

Manufacturer: Square D by Schneider Electric	TABLE 2
Model Line: Model 6 Low Voltage Motor Control Center	

Certified Product Construction Summary:
Carbon Steel NEMA Type 1, 1A, 12, and 3R enclosures.

Certified Options Summary:
Horizontal bus ampacity ratings from 600A to 3200A, and vertical bus ampacity ratings from 300A to 1200A. See tables 3 - 12 for a complete listing of certified subcomponents.

Mounting Configuration:
Base Mounted - Rigid (Bayed Together)
Note: Installed mounting configuration must be of similar configuration and equivalent strength and stiffness to those tested.

Building Code: CBC 2019 **Seismic Certification Limits:** $S_{DS} = 1.88 g$ $z/h = 1.0$ $I_p = 1.5$
 $S_{DS} = 2.04 g$ $z/h = 0.0$

Model Line	Model ¹	Dimensions (in) ²			Weight (lb)	C.G. (in)	Notes	UUT
		Depth	Width	Height				
Model 6 (Standard & Relay)	20W15D	15	20	91.5	667	62		Interp.
	25W15D	15	25	91.5	680	62		Interp.
	30W15D	15	30	91.5	700	62		Interp.
	35W15D	15	35	91.5	775	62		Interp.
	20W20D	20	20	91.5	674	62		Interp.
	25W20D	20	25	91.5	750	62		Interp.
	25W20D w/ EE/EX Transformer	20	25	91.5	875	52		Interp.
	30W20D	20	30	91.5	775	62		Interp.
	35W20D	20	35	91.5	825	62		Interp.
	20W15D 3R	26.6	27.5	91.5	900	62		Interp.
	25W15D 3R	26.6	32.5	91.5	925	62		Interp.
	30W15D 3R	26.6	37.5	91.5	1000	62		Interp.
	35W15D 3R	26.6	42.5	91.5	1025	62		Interp.
	20W20D 3R	31.6	27.5	91.5	975	62		Interp.
	25W20D 3R	31.6	32.5	91.5	970	62		Interp.
	25W20D 3R w/ EE/EX Transformer	31.6	32.5	91.5	1375	52		Interp.
	30W20D 3R	31.6	37.5	91.5	1150	62		Interp.
	35W20D 3R	31.6	42.5	91.5	1200	62		Interp.
	20W20D+20W20D	20	40	91.5	1206	62		8
	20W20D+20W20D	20	40	91.5	1336	62		21
20W20D+30W20D	20	50	91.5	1800	62		9	
20W20D+30W20D+35W20D	20	85	91.5	2274	62		14	

¹35W sections are always less dense than 30W, and are utilized when more internal clearance is required.

²NEMA 3R enclosure option adds 7.5" to width and 11.6" to depth.

SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

1801105-CR-001 R0



Manufacturer: Square D by Schneider Electric	Table Description: MasterPact Power Circuit Breakers	TABLE 4
Model Line: Model 6 Low Voltage Motor Control Center		

Building Code: CBC 2019	Seismic Certification Limits:	$S_{DS} = 1.88 g$ $z/h = 1.0$	$I_P = 1.5$
		$S_{DS} = 2.04 g$ $z/h = 0.0$	

Component Type	Manufacturer	Model	Description	Configuration	Weight	UUT
MTZ1 Breakers	Schneider Electric	MTZ1 08	800A T-Frame	3 Pole	40 lbs.	Extrap.
		MTZ1 12	1200A T-Frame		40 lbs.	Extrap.
		MTZ1 16	1600A T-Frame		40 lbs.	Extrap.
T-Frame Breakers	Schneider Electric	NT08	800A T-Frame	3 Pole	40 lbs.	Extrap.
		NT12	1200A T-Frame		40 lbs.	Extrap.
		NT16	1600A T-Frame		40 lbs.	Extrap.
MTZ2 Breakers	Schneider Electric	MTZ2 08	800A MTZ2 Frame	3 Pole	109 lbs.	Extrap.
		MTZ2 12	1200A MTZ2 Frame		109 lbs.	Extrap.
		MTZ2 16	1600A MTZ2 Frame		109 lbs.	Extrap.
		MTZ2 20	2000A MTZ2 Frame		109 lbs.	Extrap.
		MTZ2 25	2500A MTZ2 Frame		127 lbs.	Interp.
		MTZ2 30	3000A MTZ2 Frame		127 lbs.	Interp.
		MTZ2 32	3200A MTZ2 Frame		127 lbs.	10
W-Frame Breakers	Schneider Electric	NW08	800A W-Frame	3 Pole	109 lbs.	Interp.
		NW12	1200A W-Frame		109 lbs.	Interp.
		NW16	1600A W-Frame		109 lbs.	Interp.
		NW20	2000A W-Frame		109 lbs.	Interp.
		NW25	2500A W-Frame		127 lbs.	9
		NW30	3000A W-Frame		127 lbs.	Interp.
		NW32	3200A W-Frame		127 lbs.	10

Notes: Breaker configurations include H, H1, H2, H3, HA, HB HC, HF, L, L1, L1F, LF, N, N1, NA, and ArcBlok. Circuit Breakers, Automatic Switches and Non-Automatic Switches Rated 600 VAC maximum; 50/60 Hz

SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

1801105-CR-001 R0



Manufacturer: Square D by Schneider Electric	Table Description: Molded Case Circuit Breakers, Molded Case Switch, & Motor Circuit Protectors	TABLE 5
Model Line: Model 6 Low Voltage Motor Control Center		

Building Code: CBC 2019	Seismic Certification Limits:	$S_{DS} = 1.88 g$ $z/h = 1.0$	$I_p = 1.5$
		$S_{DS} = 2.04 g$ $z/h = 0.0$	

Component Type	Manufacturer	Model	Description	Notes	UUT
G-Frame	Schneider Electric	G*	3A, 208-600V; 2 lbs.		Extrap.
		...	...		Extrap.
		GJL36050M05	50A, 480V; 2 lbs.		2
		...	OSP-0052 ...		Interp.
B-Frame	Schneider Electric	G*	100A, 208-600V; 2 lbs.		Interp.
		B*	15A, 208-600V; 4 lbs.		Interp.
		...	...		Interp.
		BV4T25J	25A, 480V; 4 lbs.		Interp.
		...	...		Interp.
H-Frame	Schneider Electric	B*	125A, 208-600V; 4 lbs.		Interp.
		H*	15A, 208-600V; 5 lbs.		Interp.
		...	...		Interp.
		HJL36030M74	30A, 480V; 5 lbs.		1
		...	...		Interp.
		HJL36070	70A, 480V; 5 lbs.		20
		HJL36100	100A, 480V; 5 lbs.		20
J-Frame	Schneider Electric	...	...		Interp.
		H*	150A, 208-600V; 5 lbs.		Interp.
		J*	70A, 208-600V; 5 lbs.		Interp.
		...	...		Interp.
		J*	250A, 208-600V; 5 lbs.		Interp.
		...	...		Interp.
		JLL36200	200A, 480V; 5 lbs.		1

SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

1801105-CR-001 R0



Manufacturer: Square D by Schneider Electric	Table Description: Molded Case Circuit Breakers, Molded Case Switch, & Motor Circuit Protectors	TABLE 5
Model Line: Model 6 Low Voltage Motor Control Center		

Building Code: CBC 2019 **Seismic Certification Limits:** $S_{DS} = 1.88 g$ $z/h = 1.0$ $I_P = 1.5$
 $S_{DS} = 2.04 g$ $z/h = 0.0$

Component Type	Manufacturer	Model	Description	Notes	UUT
J-Frame	Schneider Electric	...	...		Interp.
		JJL36250M75	250A, 480V; 5 lbs.		1
L-Frame	Schneider Electric	L*	70A, 208-600V; 14 lbs.		Interp.
		...	OSP-0052 ...		Interp.
		L*	600A, 208-600V; 14 lbs.		Interp.
M-Frame	Schneider Electric	M*	300A, 208-600V; 29 lbs.		Interp.
		...	...		Interp.
		M*	800A, 208-600V; 29 lbs.		Interp.
P-Frame	Schneider Electric	P*	100A, 208-600V; 32 lbs.		Interp.
		...	...		Interp.
		P*	1200A, 208-600V; 32 lbs.		Interp.
		PLM34120	1200A, 480V; 32 lbs.		7
R-Frame	Schneider Electric	R*	240-1600A, 208-600V; 52 lbs.		Interp.
		...	...		Interp.
		R*	2000A, 208-600V; 74 lbs.		Interp.
		RLF36200	2000A, 480V; 74 lbs.		8

SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

1801105-CR-001 R0



Manufacturer: Square D by Schneider Electric Model Line: Model 6 Low Voltage Motor Control Center		Table Description: Contactors			TABLE 7	
Building Code: CBC 2019		Seismic Certification Limits:			$S_{DS} = 1.88 g$ $z/h = 1.0$ $S_{DS} = 2.04 g$ $z/h = 0.0$	
					$I_p = 1.5$	
Component Type	Manufacturer	Model	Description	Notes	UUT	
TeSys N Contactors (NEMA Rated)	Schneider Electric	T02BN13	18A, 208-600V; 1 lb.	Same as TeSys D	Extrap.	
		T02CN13	27A, 208-600V; 2 lbs.	Same as TeSys D	Extrap.	
		T02DN13	45A, 208-600V; 5 lbs.	Same as TeSys D	Extrap.	
IEC-TeSys D Contactors (IEC Rated)	Schneider Electric	LC*D*	18A, 208-600V; 1 lb.		Extrap.	
		...	...		Extrap.
		LC1D25G7	25A, 480V; 1 lb.		5	
		...	...		Interp.
		LC1D50AG7	50A, 480V; 5 lbs.		2	
		...	...		Interp.
		LC1D150G7	150A, 208-600V; 5 lbs.		21	
NEMA Type S Contactors	Schneider Electric	S*O*	27A, 208-600V; 5 lbs.		Interp.	
		8502SCO2V06	27A, 480V; 5 lbs.		1,20	
		...	...		Interp.
		8502SEO2V06	90A, 480V; 14 lbs.		1	
		...			Interp.	
		8502SFO2V06	135A, 480V; 18 lbs.		1	
		...			Interp.	
		S*O*	540A, 208-600V; 80 lbs.		Interp.	
8502SHO2V06	540A, 480V; 80 lbs.		6			

SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

1801105-CR-001 R0



Manufacturer: Square D by Schneider Electric	Table Description: Solid State Overload Relays	TABLE 8
Model Line: Model 6 Low Voltage Motor Control Center		

Building Code: CBC 2019	Seismic Certification Limits:	$S_{DS} = 1.88 g$ $z/h = 1.0$	$I_p = 1.5$
		$S_{DS} = 2.04 g$ $z/h = 0.0$	

Component Type	Manufacturer	Model	Description	Notes	UUT
Motor Logic	Schneider Electric	SF*	9A, 208-600V; 1 lb.	Same as ST420. Electronic settings	Interp.
		ST*	45A, 208-600V; 1 lb.	Same as ST420. Electronic settings	Interp.
		...	...		Interp.
		ST320	90A, 480V; 3 lbs.		1
		...	...		Interp.
		ST420	135A, 480V; 4 lbs.		1
		...	...		Interp.
		SF*	270A, 208-600V; 3 lbs.	Same as ST420. Electronic settings	Interp.
ST*	540A, 208-600V; 2 lbs.	Same as ST420. Electronic settings	Interp.		
TeSys T	Schneider Electric	LTMR*	0.4A, 208-600V; 1 lb.	Identical to LTMR08MFM	Interp.
		...	...		Interp.
		LTMR08MFM	8A, 480V; 1 lb.		11
		...	...		Interp.
		LTMR*	100A, 208-600V; 1 lb.	Identical to LTMR08MFM	Interp.

SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

1801105-CR-001 R0



Manufacturer: Square D by Schneider Electric		Table Description: Bi Metallic & Melting Alloy Thermal Overload Relays			TABLE 9
Model Line: Model 6 Low Voltage Motor Control Center					
Building Code: CBC 2019		Seismic Certification Limits: $S_{DS} = 1.88 g$ $z/h = 1.0$ $S_{DS} = 2.04 g$ $z/h = 0.0$			$I_p = 1.5$
Component Type	Manufacturer	Model	Description	Notes	UUT
TeSys D	Schneider Electric	LRD*	0.10A, 208-600V; 0.27 lbs.	Identical to LRD350	Extrap.
		...	...		Extrap.
		LRD350	50A, 480V; 1 lb.		2
		...	OSP-0052 ...		Interp.
NEMA Thermal Overloads (SZ 1-6)	Schneider Electric	LR9D5369	150A, 208-600V; 2 lbs.		21
		S*	27A, 208-600V, SZ1; 1 lb.		Interp.
		...	...		Interp.
		SDO5	27A, 480V, SZ1; 1 lb.		20
		...	...		Interp.
		SDO6B	27A, 480V, SZ1; 1 lb.		1
		...	...		Interp.
		S*	540A, 208-600V, SZ6; 4 lbs.		Interp.
SE05	540A, 480V, SZ6; 4 lbs.		6		

SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

1801105-CR-001 R0



Manufacturer: Square D by Schneider Electric	Table Description: ATV Variable Frequency Drives	TABLE 10
Model Line: Model 6 Low Voltage Motor Control Center		

Building Code: CBC 2019	Seismic Certification Limits:	$S_{DS} = 1.88 g$ $z/h = 1.0$	$I_p = 1.5$
		$S_{DS} = 2.04 g$ $z/h = 0.0$	

Component Type	Manufacturer	Model	Description	Notes	UUT
ATV312 Variable Frequency Drives	Schneider Electric	ATV312H*	2.3A, 208-600V; 1.3 lbs.		Extrap.
		...	...		Extrap.
		ATV312HU40N4	9.5A, 208-600V; 4 lbs.		3
		...	OSP-0052 ...		Interp.
		ATV312H*	32A, 208-600V; 11 lbs.		Interp.
ATV320	Schneider Electric	ATV312HD15N4	33A, 480V; 11 lbs.		3
		ATV320U15N4C	2.2A, 480V; 3 lbs.		21
		...	...		Interp.
ATV630	Schneider Electric	ATV320D15N4B	35.5A, 480V; 15 lbs.		21
		ATV630*	2.2A, 208-600V; 10 lbs.		Interp.
		ATV630U07N4	2.2A, 480V; 10 lbs.		21
		...	...		Interp.
ATV930	Schneider Electric	ATV630D90N4	145A, 480V; 129 lbs.		21
		ATV930*	2.2A, 208-600V; 10 lbs.	Identical to ATV630	Interp.
		...	...		Interp.
		ATV930D90N4	145A, 208-600V; 129 lbs.	Identical to ATV630	Interp.

SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

1801105-CR-001 R0



Manufacturer: Square D by Schneider Electric	Table Description: Input/Output Reactors	TABLE 11
Model Line: Model 6 Low Voltage Motor Control Center		

Building Code: CBC 2019 **Seismic Certification Limits:** $S_{DS} = 1.88 g$ $z/h = 1.0$ $I_p = 1.5$
 $S_{DS} = 2.04 g$ $z/h = 0.0$

Component Type	Manufacturer	Model	Description	Notes	UUT
MTE RLW Reactor	MTE	RLW-*	2.1A, 208-600V; 1.5 lbs.	Copper	Extrap.
		...	...	Copper	Extrap.
		RLW02P103	3.4A, 480V; 1.7 lbs.	Copper	21
		...	OSP-0052 ...	Copper	Interp.
		RLW002803	28A, 480V; 9 lbs.	Copper	21
		...	...	Copper	Interp.
MTE RL Reactor	MTE	RL-*	3A, 208-600V; 3 lbs.	Copper	Interp.
		...	...	Copper	Interp.
		RL-60002	840A, 208-600V; 175 lbs.	Copper	14
Accusine PCS Reactor	Schneider Electric	PCS050D5*	50A, 480V; 250 lbs.		Extrap.
		...	...		Extrap.
		PCS100D5N1	100A, 480V; 350 lbs.		15
		...	...		Interp.
		PCS300D5CE545	300A, 480V; 480 lbs.		16

SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

1801105-CR-001 R0



Manufacturer: Square D by Schneider Electric Model Line: Model 6 Low Voltage Motor Control Center		Table Description: Dry-type Power Transformers			TABLE 12	
Building Code: CBC 2019		Seismic Certification Limits:			$S_{DS} = 1.88 g$ $z/h = 1.0$ $S_{DS} = 2.04 g$ $z/h = 0.0$	
					$I_p = 1.5$	
Component Type	Manufacturer	Model	Description	Notes	UUT	
Distribution Transformer (NE)	Schneider Electric	*S*HFOC	5kVA, 208-600V, Aluminum; 66 lbs.		Extrap.	
		...	...		Extrap.
		5S1HFOC	5kVA, 240V, Aluminum; 66 lbs.		5	
		...	OSP-0052 ...		Interp.	
		*S*HFOC	25kVA, 208-600V, Aluminum; 200 lbs.		Interp.	
Distribution Transformer (EE)	Schneider Electric	*T*HOC	25kVA, 208-600V, Aluminum; 200 lbs.		Interp.	
		EE*	15kVA, 208-600V, Aluminum; 245 lbs.		Interp.	
		...	...		Interp.
		EE45*	45kVA, 208-600V, Aluminum; 415 lbs.		Interp.	
Distribution Transformer (EX)	Schneider Electric	EE45T3H	45kVA, 480V, Aluminum; 415 lbs.		18	
		EX*	15kVA, 208-600V, Aluminum; 245 lbs.		Interp.	
		...	...		Interp.
		EX45T3H	45kVA, 480V, Aluminum; 485 lbs.		17	
		...	...		Interp.
		EX45T3HOC	45kVA, 480V, Aluminum; 490 lbs.		20	

UNIT UNDER TEST (UUT) SUMMARY SHEET

1801105-CR-001 R0



Manufacturer:		Square D by Schneider Electric				
Model Line:		Model 6 Low Voltage Motor Control Center				
UUT	Unit Description	Report Number	Testing Laboratory	S _{DS}	z/h	I _p
1	LVMCC Section FO# 046-22098122-007	53850-1 (UUT1)	Wyle Laboratories	2.11	1	1.5
				3.06	0	
2	LVMCC Section FO# 046-19522283-002	51551-1 (UUT2)	Wyle Laboratories	2.13	1	1.5
				3.41	0	
3	LVMCC Section FO # 046-30365750-013	70354R12 (UUT3)	Wyle Laboratories	2.01	1	1.5
				3.19	0	
4	LVIPC2 Section FO# 2013SEISMIC001	71437R13 (UUT1)	Wyle Laboratories	2.25	1	1.5
				2.55	0	
5	LVMCC Section FO# 32678983-010	71437R13 (UUT3)	Wyle Laboratories	2.28	1	1.5
				2.58	0	
6	LVMCC Section FO# 30398173-023	71437R13 (UUT4)	Wyle Laboratories	2.28	1	1.5
				2.58	0	
7	LVMCC Section FO# 046-24360379-001	55117R08 (UUT1)	Wyle Laboratories	2.03	1	1.5
				3.03	0	
8	LVMCC Section FO# 046-24360379-002	55117R08 (UUT2)	Wyle Laboratories	1.88	1	1.5
				2.97	0	
9	LVMCC Section FO# 046-24360379-003	55117R08 (UUT3)	Wyle Laboratories	2.02	1	1.5
				2.85	0	
10	PZ4 Arc Resistant Section	1800451-TR-001 R0 (UUT9)	SEESL	2.00	1	1.5
				2.75	0	
11	LVMCC Section FO# 046-2521242-001	55901R08 (UUT1)	Wyle Laboratories	2.15	1	1.5
				2.92	0	
12	LVMCC Section FO # 046-33151969-001	D198484 (UUT8)	ATS	2.04	1	1.5
				2.04	0	
13	Not Used					
14	LVMCC Section FO # 046-20560722	52651-1 (UUT1)	Wyle Laboratories	1.92	1	1.5
				3.03	0	
15	Accusine N1 Section 10DEN010299	54786R07 (UUT5)	Wyle Laboratories	2.63	1	1.5
				3.04	0	
16	Accusine N1 Section 300CES45010016	54786R07 (UUT6)	Wyle Laboratories	2.13	1	1.5
				2.86	0	
Notes:						

UNIT UNDER TEST (UUT) SUMMARY SHEET



1801105-CR-001 R0

Manufacturer: Square D by Schneider Electric	UUT 1
Model Line: Model 6 Low Voltage Motor Control Center	
Model Number: LVMCC Section (20W15D) Serial Number: FO# 046-22098122-007	

Product Construction Summary:
 1. The UUT is a single 20" wide x 15" deep LVMCC section containing a size 4 NEMA starter, size 3 NEMA starter, NEMA size 1 Starter and two 150A branch feeder units packaged in a NEMA Type 1 enclosure.
 2. NEMA Type 1 enclosure is constructed of carbon steel sheet with powder-coated finish.

Options/Subcomponent Summary:
 Enclosure - NEMA Type 1 - Carbon Steel Sheet(91.5H x 20W x 15D), Aluminum Horizontal Bus(600/800A), Copper Vertical Bus(600A), Circuit Breaker(HJL36150), Circuit Breaker(JJL36250M75), Circuit Breaker(HJL36030M74), Circuit Breaker(HJL36100M73), Circuit Breaker(JJL36250M75), Type S Contactor(8502SCO2V06), Type S Contactor(8502SEO2V06), Type S Contactor(8502SFO2V06), Motor Logic Overload Relay(ST320), Motor Logic Overload Relay(ST420), NEMA Thermal Overloads SZ 1(SD06B).

UUT Properties						
Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
524	15	20	91.5	10.5	5.9	>33.3

UUT Highest Passed Seismic Run Information									
Building Code	Test Criteria	S _{DS} (g)	z/h	I _p	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)	
CBC 2019	ICC-ES AC156 (2004)	2.11	1.0	1.5	3.38	2.53	2.05	0.83	
		3.06	0.0						

Test Mounting Details:



Rigid floor mount with (4) 1/2-13 grade 5 bolts and Bellville conical spring washers at 70 ft-lbs 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



1801105-CR-001 R0

Manufacturer: Square D by Schneider Electric	UUT 2
Model Line: Model 6 Low Voltage Motor Control Center	
Model Number: LVMCC Section (20W15D) Serial Number: FO# 046-19522283-002	

Product Construction Summary:
 1. The UUT is a single 20" wide x 15" deep standard LVMCC section with (12) 25HP FVNR starter units packaged in a NEMA Type 1 enclosure.
 2. NEMA Type 1 enclosure is constructed of carbon steel sheet with powder-coated finish.

Options/Subcomponent Summary:
 Enclosure - NEMA Type 1 - Carbon Steel Sheet(91.5H x 20W x 15D), Copper Horizontal Bus(800A), Copper Vertical Bus(600A), TeSys Contactor(LC1D50AG7), TeSys D Overload Relay(LRD350), Circuit Breaker(GJL36050M05).

<i>UUT Properties</i>						
Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
667	15	20	91.5	8.1	5.9	>33.3

<i>UUT Highest Passed Seismic Run Information</i>									
Building Code	Test Criteria	S _{DS} (g)	z/h	I _p	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)	
CBC 2019	ICC-ES AC156 (2004)	2.13 3.41	1.0 0.0	1.5	3.41	2.56	2.28	0.92	

Test Mounting Details:



Rigid floor mount with (4) 1/2-13 grade 5 bolts and Bellville conical spring washers at 70 ft-lbs 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



1801105-CR-001 R0

Manufacturer: Square D by Schneider Electric	UUT 3
Model Line: Model 6 Low Voltage Motor Control Center	
Model Number: LVMCC Section (20W20D) Serial Number: FO # 046-30365750-013	

Product Construction Summary:
 1. The UUT is a single 20" wide x 20" deep Model 6 LVMCC section with a 5 HP ATV312 Drive with FS disconnect and of a 20HP ATV312 drive with a circuit breaker disconnect and a separately mounted line reactor packaged in a NEMA Type 1 enclosure.
 2. NEMA Type 1 enclosure is constructed of carbon steel sheet with powder-coated finish.

Options/Subcomponent Summary:
 Enclosure - NEMA Type 1 - Carbon Steel Sheet(103.5H x 20W x 20D), Copper Horizontal Bus(2500A), Copper Vertical Bus(600A), Circuit Breaker(HLL36070), ATV Drive(ATV312HD15N4), ATV Drive(ATV312HU40N4), Line reactor(RL-03502), 12" Top Mounted Enclosure Extension.

<i>UUT Properties</i>						
Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
640	20	20	103.5	6.4	5.0	>33.3

<i>UUT Highest Passed Seismic Run Information</i>									
Building Code	Test Criteria	S _{DS} (g)	z/h	I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)	
CBC 2019	ICC-ES AC156 (2004)	2.01	1.0	1.5	3.22	2.41	2.14	0.86	
		3.19	0.0						

Test Mounting Details:



Rigid floor mount with (4) 1/2-13 grade 5 bolts and Bellville conical spring washers at 70 ft-lbs 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



1801105-CR-001 R0

Manufacturer: Square D by Schneider Electric	UUT 4
Model Line: IPC2	
Model Number: LVIPC2 Section	
Serial Number: FO# 2013SEISMIC001	

Product Construction Summary:
Low Voltage, Integrated Power Center 2 distribution section w/I-line and NQ panels. Carbon steel NEMA 3R enclosure

Options/Subcomponent Summary:
600A Main Bus, 400A I-line panelboard interior, 15A H-frame breaker, 225A NQ panelboard interior, 15A QO breaker, 30A QO Breaker, 150A QO Breaker, SPD, 50VA CPT, 500VA CPT, 250V 10A relay, 300V 10A relay, 30A L contactor, 30A LX contactor

UUT Properties

Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
1026	51	48	91.5	16.0	8.6	>33.3

UUT Highest Passed Seismic Run Information

Building Code	Test Criteria	S _{DS} (g)	z/h	I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
CBC 2019	ICC-ES AC156 (2004)	2.25	1.0	1.5	3.60	2.70	1.70	0.68
		2.55	0.0					

Test Mounting Details:



Rigid floor mount with (6) 1/2" grade 5 bolts and flat washers at 65 ft-lbs. 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



1801105-CR-001 R0

Manufacturer: Square D by Schneider Electric	UUT 5
Model Line: Model 6 Low Voltage Motor Control Center	
Model Number: LVMCC Section (25W20D 3R)	
Serial Number: FO# 32678983-010	

Product Construction Summary:
Low Voltage Model 6 MCC section. Carbon steel NEMA 3R enclosure

Options/Subcomponent Summary:
800A Horizontal Bus, 600A vertical Bus, 10" Drip Hood, ATS48 Soft Start, 5kVA distribution transformer, IEC Size D contactors, (2) H-Frame breakers, TeSys D Overload Relay

UUT Properties

Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
970	32	31	102	13.8	7.2	>33.3

UUT Highest Passed Seismic Run Information

Building Code	Test Criteria	S _{DS} (g)	z/h	I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
CBC 2019	ICC-ES AC156 (2004)	2.28	1.0	1.5	3.65	2.74	1.72	0.69
		2.58	0.0					

Test Mounting Details:



Rigid floor mount with (6) 1/2" grade 5 bolts and Belleville conical spring washers at 70 ft-lbs. 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



1801105-CR-001 R0

Manufacturer: Square D by Schneider Electric	UUT 6
Model Line: Model 6 Low Voltage Motor Control Center	
Model Number: LVMCC Section (20W20D) Serial Number: FO# 30398173-023	

Product Construction Summary:
Low Voltage Model 6 MCC section. Carbon steel NEMA 12 enclosure

Options/Subcomponent Summary:
1200A Horizontal Bus, Type S NEMA size 6 contactor, Overload Relay

UUT Properties

Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
576	20	20	91.5	12.0	8.7	>33.3

UUT Highest Passed Seismic Run Information

Building Code	Test Criteria	S _{DS} (g)	z/h	I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
CBC 2019	ICC-ES AC156 (2004)	2.25	1.0	1.5	3.65	2.74	1.72	0.69
		2.55	0.0					

Test Mounting Details:



Rigid floor mount with (4) 1/2" grade 5 bolts and Belleville conical spring washers at 70 ft-lbs. 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



1801105-CR-001 R0

Manufacturer: Square D by Schneider Electric	UUT 7
Model Line: Model 6 Low Voltage Motor Control Center	
Model Number: LVMCC Section (20W20D) Serial Number: FO# 046-24360379-001	

Product Construction Summary:
 1. The UUT is a single 20" wide x 20" deep LVMCC section containing a 1200A Main Circuit Breaker and eight six inch starter units packaged in a NEMA Type 1 enclosure.
 2. NEMA Type 1 enclosure is constructed of carbon steel sheet with powder-coated finish.

Options/Subcomponent Summary:
 Enclosure - NEMA Type 1 - Carbon Steel Sheet (91.5H x 20W x 20D), Copper Horizontal Bus (1200A), Copper Vertical Bus (600A), Circuit Breaker (PLM34120), NEMA SZ 1 Contactor (8502SCO2V06), Circuit Breaker (GJL36050), Melting Alloy Overload Relay (SD04).

UUT Properties

Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
674	20	20	91.5	7.2	5.8	>33.3

UUT Highest Passed Seismic Run Information

Building Code	Test Criteria	S _{DS} (g)	z/h	I _p	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
CBC 2019	ICC-ES AC156 (2004)	2.03	1.0	1.5	3.25	2.44	2.03	0.82
		3.03	0.0					

Test Mounting Details:



Rigid floor mount with (4) 1/2-13 grade 5 bolts and Bellville conical spring washers at 70 ft-lbs 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



1801105-CR-001 R0

Manufacturer: Square D by Schneider Electric	UUT 8
Model Line: Model 6 Low Voltage Motor Control Center	
Model Number: LVMCC Sections (20W20D + 20W20D) Serial Number: FO# 046-24360379-002	

Product Construction Summary:
 1. The UUT is a two section LVMCC line up with a 20" wide x 20" deep 2000A Circuit Breaker Disconnect Main section connected to a 20" wide x 20" deep standard section containing 12 six inch feeder units.
 2. The two sections in the MCC line up are NEMA Type 1 enclosures constructed of carbon steel sheet with powder-coated finish.

Options/Subcomponent Summary:
 Enclosure - NEMA Type 1 - Carbon Steel Sheet (91.5 H x 20W x 20D), Enclosure - NEMA Type 1 - Carbon Steel Sheet (91.5 H x 20W x 20D), Copper Horizontal Bus (2000A), Copper Vertical Bus (600A), Circuit Breaker (RLF36200).

<i>UUT Properties</i>						
Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
1206	20	40	91.5	7.5	8.7	>33.3

<i>UUT Highest Passed Seismic Run Information</i>									
Building Code	Test Criteria	S _{DS} (g)	z/h	I _p	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)	
CBC 2019	ICC-ES AC156 (2004)	1.88	1.0	1.5	3.01	2.26	1.99	0.8	
		2.97	0.0						

Test Mounting Details:



Rigid floor mount with (8) 1/2-13 grade 5 bolts and Bellville conical spring washers at 70 ft-lbs 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



1801105-CR-001 R0

Manufacturer: Square D by Schneider Electric	UUT 9
Model Line: Model 6 Low Voltage Motor Control Center	
Model Number: LVMCC Section (30W20D + 20W20D) Serial Number: FO# 046-24360379-003	

Product Construction Summary:
 1. The UUT is a two section LVMCC line up with a 30" wide x 20" deep Main 2500A circuit breaker disconnect section connected to a 20" wide x 20" deep standard section containing 12 six inch feeder units.
 2. The two sections in the MCC line up are NEMA Type 1 enclosures constructed of carbon steel sheet with powder-coated finish.

Options/Subcomponent Summary:
 Enclosure - NEMA Type 1 - Carbon Steel Sheet (91.5H x 30W x 20D), Enclosure - NEMA Type 1 - Carbon Steel Sheet (91.5H x 20W x 20D), Copper Horizontal Bus (2500A), Copper Vertical Bus(600A), Circuit Breaker (NW25HF), 5" Enclosure Extension.

<i>UUT Properties</i>						
Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
1800	20	50	91.5	5.9	6.2	>33.3

<i>UUT Highest Passed Seismic Run Information</i>									
Building Code	Test Criteria	S _{DS} (g)	z/h	I _p	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)	
CBC 2019	ICC-ES AC156 (2004)	2.02	1.0	1.5	3.23	2.24	1.91	0.77	
		2.85	0.0						

Test Mounting Details:



Rigid floor mount with (8) 1/2-13 grade 5 bolts and Bellville conical spring washers at 70 ft-lbs 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



1801105-CR-001 R0

Manufacturer: Square D by Schneider Electric	UUT 10
Model Line: PowerZone 4 LV Switchgear	
Model Number: PZ4 Arc Resistant Section Serial Number: FO# 32816854-001	

Product Construction Summary:
Two-section PZ-4 Arc Resistant LV Switchgear Lineup (Main & Feeder). Carbon steel enclosure.

Options/Subcomponent Summary:
Masterpact MTZ3 5000A Breaker (MTZ3-50 H), Masterpact MTZ2 3200A Breaker (MTZ2-32-H3), (2) Masterpact NW 3200A Breakers (NW 32 H1), Masterpact NW ArcBlok 800A Breaker (NW 08 H2), Masterpact NW 800A Breaker (NW 08 H1), 1 kVA CPT (9070T1000D3)

UUT Properties

Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
6023	72	58	91.5	11.4	6.2	30.8

UUT Highest Passed Seismic Run Information

Building Code	Test Criteria	S _{DS} (g)	z/h	I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
CBC 2019	ICC-ES AC156 (2015)	2.0	1.0	1.5	3.20	2.40	1.83	0.73
		2.75	0.0					

Test Mounting Details:



Rigid floor mount with (11) 1/2-13 grade 5 bolts and Bellville conical spring washers at 65 ft-lbs 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



1801105-CR-001 R0

Manufacturer: Square D by Schneider Electric	UUT 11
Model Line: Model 6 Low Voltage Motor Control Center	
Model Number: LVMCC Section (20W15D) Serial Number: FO# 046-2521242-001	

Product Construction Summary:
 1. The UUT is a single 20" wide x 15" deep LVMCC section containing a NEMA size 4 FVNR Motor Starter and a TeSys T Overload Relay packaged in a NEMA Type 1 enclosure.
 2. NEMA Type 1 enclosure is constructed of carbon steel sheet with powder-coated finish.

Options/Subcomponent Summary:
 Enclosure - NEMA Type 1 - Carbon Steel Sheet(91.5 H x 20W x 15D), Copper Horizontal Bus(600/800A), Copper Vertical Bus(600A), Circuit Breaker(JJL36250M75), NEMA Size 4 Contactor(8502SFO2V06), TeSys T Overload(LTMR08MFM), Surge Suppressor(SDSA3650).

UUT Properties

Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
445	15	20	91.5	5.9	6.8	>33.3

UUT Highest Passed Seismic Run Information

Building Code	Test Criteria	S _{DS} (g)	z/h	I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
CBC 2019	ICC-ES AC156 (2004)	2.15	1.0	1.5	3.44	2.58	1.96	0.79
		2.92	0.0					

Test Mounting Details:



Rigid floor mount with (4) 1/2-13 grade 5 bolts and Bellville conical spring washers at 70 ft-lbs 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



1801105-CR-001 R0

Manufacturer: Square D by Schneider Electric	UUT 12
Model Line: Model 6 Low Voltage Motor Control Center	
Model Number: LVMCC Section (20W20D) Serial Number: FO # 046-33151969-001	

Product Construction Summary:
 1. UUT-8 and UUT-9 are contained within a single 20" wide x 20" deep Model 6 LVMCC section with a NEMA 1 (1/4) HP FVR combo starter and a 5 HP FVR combo starter packaged in a NEMA Type 1 enclosure.
 2. NEMA Type 1 enclosure is constructed of carbon steel sheet with powder-coated finish.

Options/Subcomponent Summary:
 Enclosure – NEMA Type 1 - Carbon Steel Sheet (91.5H x 20W x 20D), Copper Horizontal Bus(2500A), Copper Vertical Bus(600A), TeSys U Integrated Starter(LUB32NR), TeSys U Integrated Starter(LUB32).

<i>UUT Properties</i>						
Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
640	20	20	91.5	4.0	4.0	>33.3

<i>UUT Highest Passed Seismic Run Information</i>									
Building Code	Test Criteria	S _{DS} (g)	z/h	I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)	
CBC 2019	ICC-ES AC156 (2004)	2.04	1.0	1.5	3.26	2.45	1.36	0.55	
		2.04	0.0						

Test Mounting Details:



Rigid floor mount with (4) 1/2-13 grade 5 bolts and Bellville conical spring washers at 70 ft-lbs 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



1801105-CR-001 R0

Manufacturer:	Square D by Schneider Electric	UUT 14
Model Line:	Model 6 Low Voltage Motor Control Center	
Model Number:	LVMCC Sections (30W20D + 35W20D + 20W20D)	
Serial Number:	FO# 046-20921253	

Product Construction Summary:
 1. The UUT is a three section LVMCC line up with a 30" wide x 20" deep 2000A Main lug section, a 35" wide x 20" deep 450HP CT drive section and a 20" wide x 20" deep distribution section containing a 40HP CT Drive.
 2. The three sections in the MCC line up are NEMA Type 1 enclosures constructed of carbon steel sheet with powder-coated finish.

Options/Subcomponent Summary:
 Enclosure - NEMA Type 1 - Carbon Steel Sheet(91.5H x 30W x 20D), Enclosure - NEMA Type 1 - Carbon Steel Sheet(91.5H x 35W x 20D), Enclosure - NEMA Type 1 - Carbon Steel Sheet(91.5H x 20W x 20D), Copper Horizontal Bus(2000A), Copper Vertical Bus(600A), Circuit Breaker(HLL36040), Circuit Breaker(MHL368008041), CT Variable Drive(ATV71HC28N4), CT Variable Drive(ATV71HD30N4), RL Line Reactor(RL60002).

<i>UUT Properties</i>						
Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
2,274	20	85	91.5	8.8	9.2	>33.3

<i>UUT Highest Passed Seismic Run Information</i>									
Building Code	Test Criteria	S _{DS} (g)	z/h	I _p	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)	
CBC 2019	ICC-ES AC156 (2004)	1.92	1.0	1.5	3.07	2.30	2.03	0.82	
		3.03	0.0						

Test Mounting Details:



Rigid floor mount with (12) 1/2-13 grade 5 bolts and Bellville conical spring washers at 70 ft-lbs 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



1801105-CR-001 R0

Manufacturer: Square D by Schneider Electric	UUT 16
Model Line: Accusine N1	
Model Number: PCS300D5CE54 Serial Number: 300CES45010016	

Product Construction Summary:
300A Harmonic Filter section packaged in NEMA 12 enclosure with Rittal 8099 Series plinth constructed of carbon steel.

Options/Subcomponent Summary:
Active Harmonic Filter (PCS300D5CE545), Plinth

UUT Properties

Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
1,172	31.7	34.9	90.7	6.2	6.3	>33.3

UUT Highest Passed Seismic Run Information

Building Code	Test Criteria	S _{DS} (g)	z/h	I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
CBC 2019	ICC-ES AC156 (2004)	2.13	1.0	1.5	3.41	2.56	1.92	0.77
		2.86	0.0					

Test Mounting Details:



Rigid floor mount with (4) 7/16-20 grade 5 bolts and Bellville conical spring washers at 46 ft-lbs 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



1801105-CR-001 R0

Manufacturer: Square D by Schneider Electric	UUT 17
Model Line: Model 6 Low Voltage Motor Control Center	
Model Number: LVMCC Section (25W20D) Serial Number: 37226686	

Product Construction Summary:
Model 6 LVMCC section in carbon steel NEMA type 1 enclosure

Options/Subcomponent Summary:
800A Horizontal Bus, 600A Vertical Bus, 45kVA transformer (EX45T3H), (3) H-frame breakers, CDO Brick, 6" LVMCC Saddle, 12" LVMCC Saddle, 18" LVMCC Saddle

UUT Properties

Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
854	20	25	91.5	15.0	9.6	>33.3

UUT Highest Passed Seismic Run Information

Building Code	Test Criteria	S _{DS} (g)	z/h	I _p	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
CBC 2019	ICC-ES AC156 (2004)	2.20	1.0	1.5	3.52	2.64	1.47	0.59
		2.20	0.0					

Test Mounting Details:



Rigid floor mount with (4) 1/2-13 grade 5 bolts and Bellville conical spring washers at 60 ft-lbs 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



1801105-CR-001 R0

Manufacturer: Square D by Schneider Electric	UUT 18
Model Line: IPC2	
Model Number: LVIPC2 Section	
Serial Number: IPC224X2445KVAE-979867	

Product Construction Summary:
LV IPC2 section in a carbon steel NEMA 1 enclosure

Options/Subcomponent Summary:
400A NF Panelboard Interior, E-Frame Mini circuit breaker, 45kVA Transformer (EE45T3H)

UUT Properties

Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
680	24	24	91.5	7.8	15.0	11.0

UUT Highest Passed Seismic Run Information

Building Code	Test Criteria	S _{DS} (g)	z/h	I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
CBC 2019	ICC-ES AC156 (2004)	1.98	1.0	1.5	3.17	2.38	1.33	0.53
		3.24	0.0	1.5	3.24	1.3	2.17	0.87

Test Mounting Details:



Rigid floor mount with (4) 1/2-13 grade 5 bolts and Bellville conical spring washers at 70 ft-lbs 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



1801105-CR-001 R0

Manufacturer: Square D by Schneider Electric	UUT 20
Model Line: Model 6 Low Voltage Motor Control Center	
Model Number: Model 6 - 2000A Main with Feeder (25W20D 3R) Serial Number: 41981491-001	

Product Construction Summary:
NEMA Type 3R enclosure constructed of carbon steel sheet metal.

Options/Subcomponent Summary:
45kVA Transformer EX45T3HOC, PowerPact HJL36070, PowerPact HJL36100, PowerPact PLM34120LUYP, NEMA Type S Contactor 8502SCO2V06, NEMA Thermal Overload SDO5

<i>UUT Properties</i>						
Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
1,375	31.6	32.5	92	12.2	10.5	>33.3

<i>UUT Highest Passed Seismic Run Information</i>									
Building Code	Test Criteria	S _{DS} (g)	z/h	I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)	
CBC 2019	ICC-ES AC156 (2015)	2.0	1.0	1.5	3.2	2.4	1.67	0.67	
		2.5	0.0						

Test Mounting Details:



Rigid floor mount with (9) 1/2-13 grade 5 bolts and Bellville conical spring washers at 70 ft-lbs 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



1801105-CR-001 R0

Manufacturer: Square D by Schneider Electric	UUT 21
Model Line: Model 6 Low Voltage Motor Control Center	
Model Number: Model 6-2000A Feeder (20W20D + 20W20D) Serial Number: 41981491-001, 41621362-001, 41621362-002	

Product Construction Summary:
NEMA Type 1 enclosure constructed of carbon steel sheet metal.

Options/Subcomponent Summary:
PowerPact JLL36200, PowerPact HJL36015LV, PowerPact HLL36015, PowerPact HLL36045LV, Size 5 125HP VFD ATV630D90N4, Size 1 1HP VFD ATV630U07N4, Size 2C 2HP VFD ATV320D15N4B, Size 5B 20HP VFD ATV320U15N4C, TeSys Contactor LC1D150G7, TeSys Overload LR9D5369, MTE Line Reactor RLW-013003, (2) MTE Line Reactor RLW-02P103, MTE Line Reactor RLW-002803

<i>UUT Properties</i>						
Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
1,336	20	40	91.5	10.6	7.8	26.0

<i>UUT Highest Passed Seismic Run Information</i>									
Building Code	Test Criteria	S _{DS} (g)	z/h	I _p	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)	
CBC 2019	ICC-ES AC156 (2015)	2.0	1.0	1.5	3.2	2.4	1.67	0.67	
		2.5	0.0						

Test Mounting Details:



Rigid floor mount with (8) 1/2-13 grade 5 bolts and Bellville conical spring washers at 70 ft-lbs torque.
Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test.
Contents were included in testing per operating conditions.