



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

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

OFFICE USE ONLY

APPLICATION #: OSP-0682

OSHPD Special Seismic Certification Preapproval (OSP)

Type: New Renewal

Manufacturer Information

Manufacturer: Generac Power Systems

Manufacturer's Technical Representative: Joseph Gerovac

Mailing Address: S45W29290 Highway 59, Waukesha, WI 53189

Telephone: (262) 888-0796

Email: Joseph.Gerovac@generac.com

Product Information

Product Name: Emergency and Standby Power Systems

Product Type: Automatic Transfer Switches

Product Model Number: Generac Power Systems TX301 and TX611 Transfer Switches and Honeywell (Alternate Branding) HX301 and HX611 Transfer Switches

General Description: Generac Non-Service Entrance Rated and Service Entrance Rated, contactor type, open and delayed transition, 100A-400A automatic transfer switches.

Mounting Description: Rigid, Wall Mounted

Tested Seismic Enhancements: None

Applicant Information

Applicant Company Name: DCL Labs, LLC.

Contact Person: Kelly Laplace

Mailing Address: 1315 Greg St. Suite 109, Sparks, NV 89431

Telephone: (775) 358-5085

Email: kelly@shaketest.com

Title: Business Manager





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

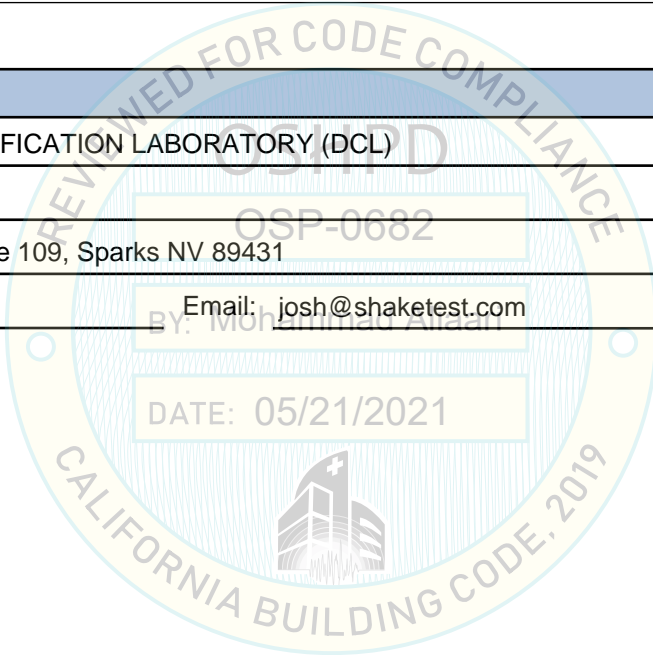
Company Name: THE VMC GROUP
Name: Kenneth Tarlow California License Number: S2851
Mailing Address: 980 9th Street, 16th Floor, Sacramento, CA 95814
Telephone: (832) 627-2214 Email: ken.tarlow@thevmcgroup.com

Certification Method

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

Testing Laboratory

Company Name: DYNAMIC CERTIFICATION LABORATORY (DCL)
Contact Person: Josh Sailer
Mailing Address: 1315 Greg St., Ste 109, Sparks NV 89431
Telephone: (775) 358-5085 Email: josh@shaketest.com





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Seismic Parameters

Design Basis of Equipment or Components (F_p/W_p) =	1.50 (Sds=2.0g, z/h=1.0) and 1.13 (Sds=2.5g, z/h=0.0)
SDS (Design spectral response acceleration at short period, g) =	2.0 (z/h=1), 2.5 (z/h=0)
a_p (Amplification factor) =	2.5
R_p (Response modification factor) =	6.0
Ω_0 (System overstrength factor) =	2.0
I_p (Importance factor) =	1.5
z/h (Height ratio factor) =	1 and 0
Natural frequencies (Hz) =	N/A
Overall dimensions and weight =	See Attachment

OSHPD Approval (For Office Use Only) - Approval Expires on 12/31/2025

Date:	5/21/2021		
Name:	Mohammad Aliaari	Title:	Senior Structural Engineer
Special Seismic Certification Valid Up to: SDS (g) =	See Above	z/h =	See Above
Condition of Approval (if applicable):	DATE: 05/21/2021		

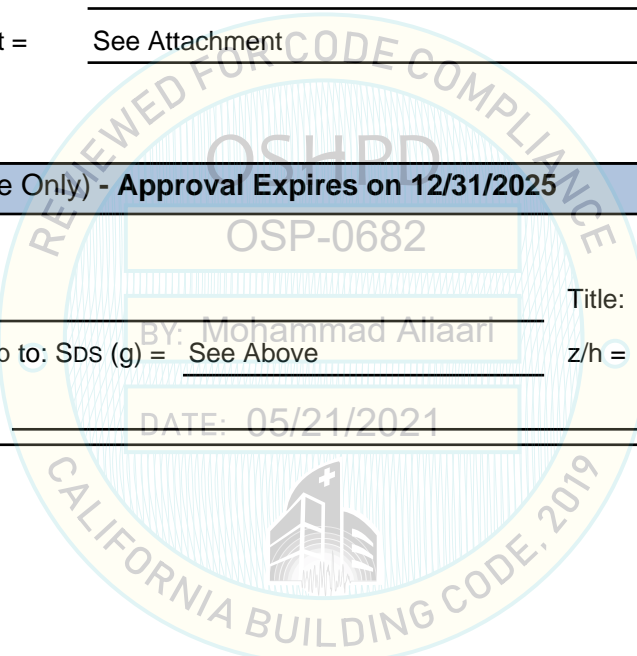


Table 1 - Certified Components

Manufacturer: Generac

Product Type: Transfer Switch

Product Line: TX301 and TX611

Mounting Configuration: Rigid Wall Mount

Test Levels: S_{D5}= 2.0g, z/h=1 (Horizontal); S_{D5}=2.5g (Vertical)



Unit Type	Generac Model Number	Honeywell (Alternate Branding) Model Number	Max. Dimensions [in]			Max. Weight [lb]	NEMA Rating	Unit
			Depth ¹	Width	Height ²			
Non- Service Entrance Rated	TX301NN0100A2AM	HX301NN0100A2AM	12.0	21.4	35.6	116	1	UUT1
	TX611xN0100xxAx	HX611xN0100xxAx	12.0	21.4	35.6	155	1	Interpolated
	TX611xN0100xxCx	HX611xN0100xxCx	12.0	21.4	35.6	155	3R	Interpolated
	TX301xN0150xxAx	HX301xN0150xxAx	12.0	21.4	35.6	165	1	Interpolated
	TX301xN0150xxCx	HX301xN0150xxCx	12.0	21.4	35.6	165	3R	Interpolated
	TX611xN0150xxAx	HX611xN0150xxAx	12.0	21.4	35.6	165	1	Interpolated
	TX611xN0150xxCx	HX611xN0150xxCx	12.0	21.4	35.6	165	3R	Interpolated
	TX301xN0200xxAx	HX301xN0200xxAx	12.0	21.4	35.6	165	1	Interpolated
	TX301xN0200xxCx	HX301xN0200xxCx	12.0	21.4	35.6	165	3R	Interpolated
	TX611xN0200xxAx	HX611xN0200xxAx	12.0	21.4	35.6	165	1	Interpolated
	TX611xN0200xxCx	HX611xN0200xxCx	12.0	21.4	35.6	165	3R	Interpolated
	TX301xN0300xxAx	HX301xN0300xxAx	12.0	24.4	51.4	185	1	Interpolated
	TX301xN0300xxCx	HX301xN0300xxCx	12.0	24.4	51.4	185	3R	Interpolated
	TX611xN0300xxAx	HX611xN0300xxAx	12.0	24.4	51.4	185	1	Interpolated
	TX611xN0300xxCx	HX611xN0300xxCx	12.0	24.4	51.4	185	3R	Interpolated
	TX301DN0400xxAx	HX301DN0400xxAx	12.0	24.4	51.4	185	1	Interpolated
TX611DN0400E4CM	HX611DN0400E4CM	12.0	24.4	51.4	185	3R	UUT2	
Service Entrance Rated	TX301DS0100E4AM	HX301DS0100E4AM	12.0	21.4	51.4	175	1	UUT3
	TX301xS0100xxCx	HX301xS0100xxCx	12.0	21.4	51.4	215	3R	Interpolated
	TX301xS0150xxAx	HX301xS0150xxAx	12.0	21.4	51.4	220	1	Interpolated
	TX301xS0200xxAx	HX301xS0200xxAx	12.0	21.4	51.4	220	1	Interpolated
	TX301xS0150xxCx	HX301xS0150xxCx	12.0	21.4	51.4	225	3R	Interpolated
	TX301xS0200xxCx	HX301xS0200xxCx	12.0	21.4	51.4	225	3R	Interpolated
	TX301xS0300xxAx	HX301xS0300xxAx	12.0	34.4	51.4	273	1	Interpolated
	TX301xS0400xxAx	HX301xS0400xxAx	12.0	34.4	51.4	273	1	Interpolated
	TX301xS0300xxCx	HX301xS0300xxCx	12.0	34.4	51.4	273	3R	Interpolated
TX301DS0400E4CM	HX301DS0400E4CM	12.0	34.4	51.4	273	3R	UUT4	

1. The unit depth does not include the 3R cover depth of 2.1"

2. The unit height includes the mounting tab height of approximately 4"

Table 2 - Certified Options

Manufacturer: Generac

Product Type: Transfer Switch

Product Line: TX301 and TX611

Mounting Configuration: Rigid Wall Mount



Sample Part Number: AAUVWBCYYYYDZEF

Sample Value	Category	Allowable Value	Definition	Unit
AA	Branding	TX	Generac Branding	UUT1, UUT2, UUT3, UUT4
		HX	Honeywell Alternate Branding	Same as Tested UUTs
U	Series	3	Series 3	UUT1, UUT3, UUT4
		6	Series 6	UUT2
V	WCR & Cycle Rating	0	WCR Breaker Only	UUT1, UUT3, UUT4
		1	3 Cycle	UUT2
W	Controller	1	TXC100 Controller	UUT1, UUT2, UUT3, UUT4
B	Transition Type	N	Open Inphase (Only)	UUT1
		D	Open Inphase and Delayed	UUT2, UUT3, UUT4
C	Switch Type	N	Non-Service Entrance	UUT1, UUT2
		S	Service Entrance	UUT3, UUT4
YYYY	Amperage Rating	0100-0400	Amperage Measured in Amperes	UUT1, UUT2, UUT3, UUT4
D	Voltage Code	A	120/240 VAC 1P	UUT1
		B	120/208 VAC 1P	Interpolated
		E	480 VAC (Three Phase) Delta	UUT2, UUT3, UUT4
		G	120/208 VAC 3P Wye	Interpolated
		J	120/240 VAC 3P Delta	Interpolated
		K	277/480 VAC 3P Wye	Interpolated
Z	Number of Poles	2	2 Poles	UUT1
		3	3 Poles	Interpolated
		4	4 Poles	UUT2, UUT3, UUT4
E	Enclosure	A	NEMA 1	UUT1, UUT3
		C	NEMA 3R	UUT2, UUT4
F	Accessories	N	None	Extrapolated ¹
		H	Heater	Extrapolated ¹
		T	Transient Voltage Surge Suppressor (TVSS)	Extrapolated ¹
		M	Multiple Accessories	UUT1, UUT2, UUT3, UUT4

Notes:

1. Extrapolated units with superscripts are depopulated test units.

Table 3 - Certified Subcomponents - Enclosures



Product Type: Transfer Switch

Product Line: TX301 and TX611

Subcomponent	Manufacturer	Model Number ¹	NEMA Rating	Dimensions [in]			Weight [lb]	Unit
				Depth ²	Width	Height ³		
Enclosures	Generac	F1 SZ1-1	Type 1	12.0	21.4	31.7	63	UUT 1
		F1 SZ1-3R	Type 3R	12.0	21.4	31.7	63	Interpolated
		F1 SZ2-1	Type 1	12.0	21.4	47.5	86	UUT 3
		F1 SZ2-3R	Type 3R	12.0	21.4	47.5	86	Interpolated
		F2 SZ1-1	Type 1	12.0	24.4	47.5	92	Interpolated
		F2 SZ1-3R	Type 3R	12.0	24.4	47.5	92	UUT 2
		F3 SZ2-1	Type 1	12.0	34.4	47.5	122	Interpolated
		F3 SZ2-3R	Type 3R	12.0	34.4	47.5	122	UUT 4

Note:

1. "-1" and "-3R" ending added to enclosure model number to denote NEMA rating.
2. The enclosure depth does not include the 3R cover depth of 2.1"
3. The enclosure height does not include the mounting tab height of approximately 4"

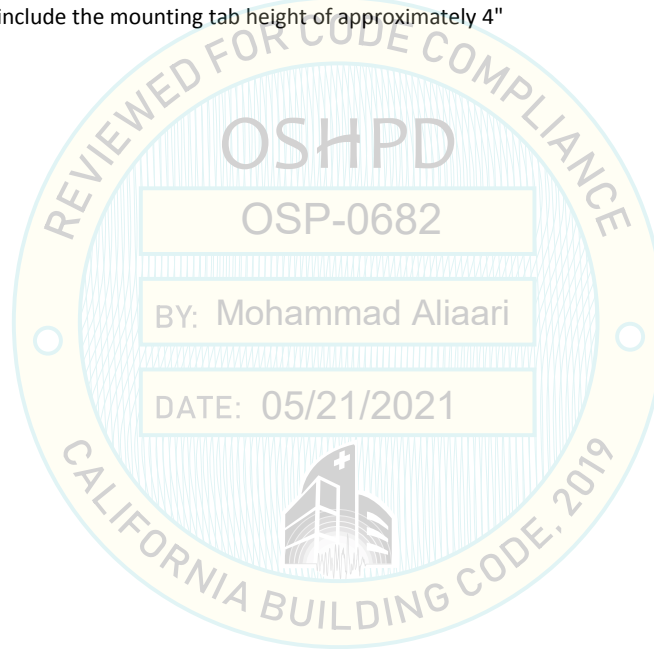


Table 4 - Certified Subcomponents

Product Type: Transfer Switch
 Product Line: TX301 and TX611



Subcomponent	Manufacturer	Model Number	Description	Material	Weight [lb]	Mounting Configuration	Unit
Enclosure Accessories	Generac	A0000486891	ASSY COVER CB 3R TX SERIES BLACK	Plastic, 304 Stainless Steel, Carbon Steel	2	Door	UUT4
		A0000486856	ASSY COVER HMI 3R TX SERIES BLACK	Plastic, 304 Stainless Steel, Carbon Steel	3	Door	UUT2, UUT4
		10000047273	ST02 BRKT,MOUNTING,WM	Carbon Steel	2	Enclosure Body	UUT1, UUT2, UUT3, UUT4
Controller	Generac	TX100	Switch Controller	Plastic, PCB	7	Bracket on Back Panel	UUT1, UUT2, UUT3, UUT4
		A0000382550	Controller Option Board	Plastic, PCB	<1	Controller	UUT1, UUT2, UUT3, UUT4
Battery	Tenergy	A0000214872	Li-ION 18650 BATTERY	Aluminum, Li Oxide, Copper	<1	Controller	UUT1, UUT2, UUT3, UUT4
Wiring Connector	Molex	A0000347514	CONN MOLEX-FLEX 3.50 EHP-14 POS	Plastic, Copper	<1	Controller	UUT1, UUT2, UUT3, UUT4
		A0000347513	CONN MOLEX-FLEX 3.50 EHP-4 POS	Plastic, Copper	<1	Controller	UUT1, UUT2, UUT3, UUT4
		A0000347512	CONN MOLEX-FLEX 3.50 EHP-3 POS	Plastic, Copper	<1	Controller	UUT1, UUT2, UUT3, UUT4
		A0000347511	CONN MOLEX-FLEX 3.50 EHP-2 POS	Plastic, Copper	<1	Controller	UUT1, UUT2, UUT3, UUT4
Circuit Breaker	Siemens	10000047213	CB 0100 3P 480V S3VA05TM0B0J	Aluminum, Plastic, Copper	2	Bracket on Back Panel	UUT3
		A0000019077	CB 0100 3P 600V S3VA06TM0A0J	Aluminum, Plastic, Copper	4	Bracket on Back Panel	Interpolated
		A0000019074	CB 0150 2P 600V S3VA06TM0A0J	Aluminum, Plastic, Copper	4	Bracket on Back Panel	Interpolated
		A0000019079	CB 0150 3P 600V S3VA06TM0A0J	Aluminum, Plastic, Copper	4	Bracket on Back Panel	Interpolated
		A0000019081	CB 0200 3P 600V S3VA06TM0A0J	Aluminum, Plastic, Copper	4	Bracket on Back Panel	Interpolated
		A0000019083	CB 0400 3P 600V S3VA06ELOA0J	Aluminum, Plastic, Copper	11	Bracket on Back Panel	UUT4
Lugs	Siemens	A0000385308	CB ACC S(3VA51) LUG AL 14-3/0	Aluminum	<1	Circuit Breaker	UUT3
		A0000385310	CB ACC S(3VA51) LUG AL 4-300 w/TC	Aluminum & Plastic	<1	Circuit Breaker	Interpolated
		A0000385311	CB ACC S(3VA52) LUG AL 6-350	Aluminum	<1	Circuit Breaker	Interpolated
		A0000385312	CB ACC S(3VA52) LUG AL 2-350 w/TC	Aluminum & Plastic	1	Circuit Breaker	Interpolated
		A0000385313	CB ACC S(3VA52) LUG AL 2(4-300) w/TC	Aluminum & Plastic	1	Circuit Breaker	Interpolated
		A0000385314	CB ACC S(3VA63,64) LUG AL 1-600	Aluminum	<1	Circuit Breaker	Interpolated
		A0000385315	CB ACC S(3VA63,64) LUG AL 2(2/0-600) TC	Aluminum & Plastic	2	Circuit Breaker	UUT4
Nut Keepers	Siemens	A0000385319	CB ACC S(3VA51) NUT KEEPER 3P	Carbon Steel & Plastic	<1	Circuit Breaker	UUT3
		A0000385320	CB ACC S(3VA52) NUT KEEPER 3P	Carbon Steel & Plastic	<1	Circuit Breaker	Interpolated
		A0000385321	CB ACC S(3VA63,64) NUT KEEPER 3P	Carbon Steel & Plastic	<1	Circuit Breaker	UUT4
Terminal Covers	Siemens	A0000385322	CB ACC S(3VA51) STD TERMINAL COVER	Plastic	<1	Circuit Breaker	UUT3
		A0000385323	CB ACC S(3VA52) STD TERMINAL COVER	Plastic	<1	Circuit Breaker	Interpolated
		A0000385324	CB ACC S(3VA63,64) STD TERMINAL COVER	Plastic	<1	Circuit Breaker	UUT4

Table 5 - Certified Subcomponents, Continued

Product Type: Transfer Switch
 Product Line: TX301 and TX611



Subcomponent	Manufacturer	Model Number	Description	Material	Weight [lb]	Mounting Configuration	Unit
Neutral Bars	Generac	0K0108	ASSY NEUT BLK 100A W/TAP 5POS	Aluminum, Carbon Steel, Plastic	<1	Back Panel	UUT1, UUT3
		0k0108a	ASSY NEUT BLK 200-400A W/TAP	Aluminum, Carbon Steel, Plastic	<1	Back Panel	Interpolated
		10000036956	NEUTRAL ASSEMBLY 400A WITH MTG PLATE	Aluminum, Carbon Steel, Plastic	1	Back Panel	UUT2,UUT4
Ground Bar	Generac	A0000349637	ASSY GROUND 400A WITH MTG PLATE	Aluminum, Carbon Steel	<1	Back Panel	UUT3,UUT4
Ground Lugs	Illsco	0k5469	LUG SLDLSS 1/0-14 (2) CONN	Aluminum	<1	Back Panel	UUT1
		G062707	LUG SLDLSS 250-#6 X 11MM AL/CU	Aluminum	<1	Back Panel	UUT2
Transformers	Siemens	A0000426315	XFMR 600/480:277 200VA TX	Carbon Steel, Copper	9	Back Panel	UUT2, UUT3, UUT4
Transformers	Amran	0J0481A	XFMR CURRENT 100A W/O BRKT UL	Copper, Plastic	<1	Load Wire	UUT1, UUT3
		0J0481B	XFMR CURRENT 150A W/O BRKT UL	Copper, Plastic	<1	Load Wire	Interpolated
		0J0481C	XFMR CURRENT 200A W/O BRKT UL	Copper, Plastic	<1	Load Wire	Interpolated
		0J0481D	XFMR CURRENT 300A W/O BRKT UL	Copper, Plastic	3	Load Wire	Interpolated
		0J0481E	XFMR CURRENT 400A W/O BRKT UL	Copper, Plastic	3	Load Wire	UUT2, UUT4
Fuse Block	Bussmann	G073591	FUSEBLOCK 30A 600V 1POS W/SQ	Plastic, Copper, Carbon Steel	<1	Transformer	UUT2, UUT3, UUT4
		0D2572	FUSEBLOCK 30A 600V 3POS W/SQ	Plastic, Copper, Carbon Steel	<1	Bracket on Back Panel	UUT1, UUT2, UUT3, UUT4
Heater	Generac	A0000136603	HEATER ASSY 100W 2 RESISTOR	Aluminum, Copper, Carbon Steel	2	Back Panel	UUT1, UUT2, UUT3, UUT4
Heater Guard	Generac	A0000313170	SSOR GUARD HEATER TX SERIES	304 Stainless steel	1	Back Panel	UUT1, UUT2, UUT3, UUT4
Relay	TE Connectivity	A0000139215	RELAY 12VDC 3PDT FLANGE MNT	Plastic, Copper	<1	Bracket	UUT1, UUT2, UUT3, UUT4
Fuse	Bussmann	073590A	FUSE 5A X BUSS	Copper	<1	Fuse Holder	UUT1, UUT2, UUT3, UUT4
Transfer Switch Mechanism Accessories (Lug)	Illsco	G062684	SLDLSS 2/0-#12 X 11/32 CU	Aluminum	<1	Mechanism	UUT1, UUT3
		0E3375	SLDLSS 250-#6 AL/CU	Aluminum	<1	Mechanism	Interpolated
		0A7822	SLDLSS 600/250-1/0X1/4-28	Aluminum	<1	Mechanism	UUT2, UUT4
Transfer Switch Mechanism Accessories (Micro Switch)	Omron	A0000204472	V-10G4-1C25-K	Stainless Steel	<1	Mechanism	UUT1, UUT2, UUT3, UUT4
		A0000317679	VX-014-3A3	Stainless Steel	<1	Mechanism	UUT1, UUT2, UUT3, UUT4
Transfer Switch Mechanism Accessories (Terminal Block)	Wago	0D7393T	3P UL 12-20AWG	Plastic, Copper, Carbon Steel	<1	Mechanism	UUT1, UUT2, UUT3, UUT4
Transient Voltage Surge Suppressor (TVSS)	Eaton	0L5698C	TVSS MODULE 3PH 277/480V	Carbon Steel, Silica, Copper	5	Back Panel	UUT1, UUT4
		0L5698A	TVSS MODULE 3PH 120/208V	Carbon Steel, Silica, Copper	5	Back Panel	Interpolated
		0L5698B	TVSS MODULE 3PH 120/240V	Carbon Steel, Silica, Copper	5	Back Panel	Interpolated
		10000035940	TVSS MODULE SPLIT 120/240V	Carbon Steel, Silica, Copper	6	Back Panel	UUT2, UUT3
TVSS Accessories (Terminal Block)	Molex / Tyco	G046689	BLOCK TERM 20A 4 X 6 X 1100V	Plastic, Copper, Carbon Steel	<1	Bracket on Back Panel	UUT1, UUT4
TVSS Accessories (Mounting Track)	Generac	0E6002	MTG TRACK BQ SIEMENS CB 3P	Carbon Steel	<1	Bracket on Back Panel	UUT1, UUT2, UUT3, UUT4
TVSS Accessories	Siemens	0E5997D	CB 0030A 3P 240V S BQ3 LL	Aluminum, Plastic, Copper	1	Bracket on Back Panel	UUT1, UUT2, UUT3, UUT4

Table 6 - Certified Subcomponents - Transfer Switch Mechanisms



Product Type: Transfer Switch

Product Line: TX301 and TX611

Subcomponent	Manufacturer	Model Number	Description	Material	Tested Voltage (VAC)	Certified Voltage (VAC)	Weight [lb]	Mounting Configuration	Unit
Transfer Switch Mechanism	Generac	A0000357600	100A INPHASE 2P	Copper, Carbon Steel, Plastic	120/240	120-480	25	Back Panel	UUT1
		A0000357606	200A INPHASE 2P	Copper, Carbon Steel, Plastic	N/A	120-480	25	Back Panel	Interpolated
		A0000357597	100A TDN 2P	Copper, Carbon Steel, Plastic		120-480	27	Back Panel	Interpolated
		A0000357603	200A TDN 2P	Copper, Carbon Steel, Plastic		120-480	27	Back Panel	Interpolated
		A0000357601	100A INPHASE 3P	Copper, Carbon Steel, Plastic		120-480	27	Back Panel	Interpolated
		A0000357607	200A INPHASE 3P	Copper, Carbon Steel, Plastic		120-480	27	Back Panel	Interpolated
		A0000357598	100A TDN 3P	Copper, Carbon Steel, Plastic		120-480	29	Back Panel	Interpolated
		A0000357604	200A TDN 3P	Copper, Carbon Steel, Plastic		120-480	29	Back Panel	Interpolated
		A0000357602	100A INPHASE 4P	Copper, Carbon Steel, Plastic		120-480	30	Back Panel	Interpolated
		A0000357608	200A INPHASE 4P	Copper, Carbon Steel, Plastic		120-480	30	Back Panel	Interpolated
		A0000357599	100A TDN 4P	Copper, Carbon Steel, Plastic		480	120-480	32	Back Panel
		A0000357605	200A TDN 4P	Copper, Carbon Steel, Plastic	N/A	120-480	32	Back Panel	Interpolated
		A0000522457	HD 400A INPHASE 2P	Copper, Carbon Steel, Plastic		120-480	37	Back Panel	Interpolated
		A0000357612	400A INPHASE 2P	Copper, Carbon Steel, Plastic		120-480	37	Back Panel	Interpolated
		A0000522454	HD 400A TDN 2P	Copper, Carbon Steel, Plastic		120-480	39	Back Panel	Interpolated
		A0000357609	400A TDN 2P	Copper, Carbon Steel, Plastic		120-480	39	Back Panel	Interpolated
		A0000522458	HD 400A INPHASE 3P	Copper, Carbon Steel, Plastic		120-480	44	Back Panel	Interpolated
		A0000357613	400A INPHASE 3P	Copper, Carbon Steel, Plastic		120-480	44	Back Panel	Interpolated
		A0000522455	HD 400A TDN 3P	Copper, Carbon Steel, Plastic		120-480	46	Back Panel	Interpolated
		A0000357610	400A TDN 3P	Copper, Carbon Steel, Plastic		120-480	46	Back Panel	Interpolated
A0000522459	HD 400A INPHASE 4P	Copper, Carbon Steel, Plastic	120-480	52		Back Panel	Interpolated		
A0000357614	400A INPHASE 4P	Copper, Carbon Steel, Plastic	120-480	52	Back Panel	Interpolated			
A0000522456	HD 400A TDN 4P	Copper, Carbon Steel, Plastic	120-480	54	Back Panel	Interpolated			
A0000357611	400A TDN 4P	Copper, Carbon Steel, Plastic	480	120-480	54	Back Panel	UUT2, UUT4		

Notes:

1. HD: Heavy Duty.
2. TDN: Time-Delay Neutral. Source 1, Source 2, and Off-Configuration.
3. INPHASE: No TDN option. Source 1 or Source 2, no Off-Configuration.

Table 7 - Tested Units

Manufacturer: Generac

Product Type: Transfer Switch

Product Line: TX301 and TX611

Mounting Configuration: Rigid Wall Mount

Test Levels: $S_{DS}=2.0g$, $z/h=1.0$ (Horizontal); $S_{DS}=2.5g$ (Vertical)



Model Number	Dimensions [in]			Weight [lb]	NEMA Rating	Unit
	Depth	Width	Height			
TX301NN0100A2AM	12.0	21.4	35.6	116	1	UUT1
TX611DN0400E4CM	12.0	24.4	51.4	185	3R	UUT2
TX301DS0100E4AM	12.0	21.4	51.4	175	1	UUT3
TX301DS0400E4CM	12.0	34.4	51.4	273	3R	UUT4



UNIT UNDER TEST - Summary Sheet



UUT1

Manufacturer: Generac

Product Type: Non-Service Entrance Rated Transfer Switch

Product Line: TX301 Transfer Switches

Model Number: TX301NN0100A2AM

Mounting: Rigid Wall Mount

Product Construction Summary: Type 1 NEMA Rated Enclosure

Options / Subcomponent Summary: Enclosures, enclosure accessories, controllers, batteries, wiring connectors, circuit breakers, lugs, nut keepers, terminal covers, neutral bars, ground bars, ground lugs, transformers, fuse blocks, heater, heater guard, relays, fuses, transfer switch mechanisms, Transient Voltage Surge Suppressor (TVSS), TVSS accessories, and transfer switch mechanism

Unit Mounting Description:

UUT1 was rigidly wall mounted to the wall fixture using (4) 5/16" Grade 5 bolts, 3"x3"x1/4" Carbon Steel plate washers, channel nuts, and round washers. The bolts were spaced approximately 13-3/4" apart on center width-wise and approximately 34" apart on center height-wise.

UUT Properties

UUT1	Operating Weight (lb.)	Dimensions (in.)			Lowest Natural Frequency (Hz)		
		Depth	Width	Height	Front-Back	Side-Side	Vertical
	116	12.0	21.4	35.6	N/A	N/A	N/A

Seismic Test Parameters

Building Code	Test Criteria	S _{DS} (g)	z/h	I _p	Aflx-H (g)	Arig-H (g)	Aflx-V (g)	Arig-V (g)
CBC 2019	ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	N/A	N/A
		2.50	0.0	1.5	N/A	N/A	1.67	0.67



Figure 1. UUT1 Exterior View



Figure 2. UUT1 Interior View

Note: The UUT was operational before and after shaking and was full of operating content during the tests. The structural integrity of the component and attachment system and force-resisting systems were maintained.

UNIT UNDER TEST - Summary Sheet



UUT2

Manufacturer: Generac

Product Type: Non-Service Entrance Rated Transfer Switch

Product Line: TX611 Transfer Switches

Model Number: TX611DN0400E4CM

Mounting: Rigid Wall Mount

Product Construction Summary: Type 3R NEMA Rated Enclosure

Options / Subcomponent Summary: Enclosures, enclosure accessories, controllers, batteries, wiring connectors, circuit breakers, lugs, nut keepers, terminal covers, neutral bars, ground bars, ground lugs, transformers, fuse blocks, heater, heater guard, relays, fuses, transfer switch mechanisms, Transient Voltage Surge Suppressor (TVSS), TVSS accessories, and transfer switch mechanism

Unit Mounting Description:

UUT2 was rigidly wall mounted to the wall fixture using (4) 5/16" Grade 5 bolts, 3"x3"x1/4" Carbon Steel plate washers, channel nuts, and round washers. The bolts were spaced approximately 13-3/4" apart on center width-wise and approximately 50" apart on center height-wise.

UUT Properties

UUT2	Operating Weight (lb.)	Dimensions (in.)			Lowest Natural Frequency (Hz)		
		Depth	Width	Height	Front-Back	Side-Side	Vertical
	185	12.0	24.4	51.4	N/A	N/A	N/A

Seismic Test Parameters

Building Code	Test Criteria	S _{DS} (g)	z/h	I _p	Aflx-H (g)	Arig-H (g)	Aflx-V (g)	Arig-V (g)
CBC 2019	ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	N/A	N/A
		2.50	0.0	1.5	N/A	N/A	1.67	0.67



Figure 1. UUT2 Exterior View



Figure 2. UUT2 Interior View

Note: The UUT was operational before and after shaking and was full of operating content during the tests. The structural integrity of the component and attachment system and force-resisting systems were maintained.

UNIT UNDER TEST - Summary Sheet

UUT3



Manufacturer: Generac

Product Type: Service Entrance Rated Transfer Switch

Product Line: TX301 Transfer Switches

Model Number: TX301DS0100E4AM

Mounting: Rigid Wall Mount

Product Construction Summary: Type 1 NEMA Rated Enclosure

Options / Subcomponent Summary: Enclosures, enclosure accessories, controllers, batteries, wiring connectors, circuit breakers, lugs, nut keepers, terminal covers, neutral bars, ground bars, ground lugs, transformers, fuse blocks, heater, heater guard, relays, fuses, transfer switch mechanisms, Transient Voltage Surge Suppressor (TVSS), TVSS accessories, and transfer switch mechanism

Unit Mounting Description:

UUT3 was rigidly wall mounted to the wall fixture using (4) 5/16" Grade 5 bolts, 3"x3"x1/4" Carbon Steel plate washers, channel nuts, and round washers. The bolts were spaced approximately 13-3/4" apart on center width-wise and approximately 50" apart on center height-wise.

UUT Properties

UUT3	Operating Weight (lb.)	Dimensions (in.)			Lowest Natural Frequency (Hz)		
		Depth	Width	Height	Front-Back	Side-Side	Vertical
	175	12.0	21.4	51.4	N/A	N/A	N/A

Seismic Test Parameters

Building Code	Test Criteria	S _{DS} (g)	z/h	I _p	Aflx-H (g)	Arig-H (g)	Aflx-V (g)	Arig-V (g)
CBC 2019	ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	N/A	N/A
		2.50	0.0	1.5	N/A	N/A	1.67	0.67



Figure 1. UUT3 Exterior View



Figure 2. UUT3 Interior View

Note: The UUT was operational before and after shaking and was full of operating content during the tests. The structural integrity of the component and attachment system and force-resisting systems were maintained.

UNIT UNDER TEST - Summary Sheet

UUT4



Manufacturer: Generac

Product Type: Service Entrance Rated Transfer Switch

Product Line: TX301 Transfer Switches

Model Number: TX301DS0400E4CM

Mounting: Rigid Wall Mount

Product Construction Summary: Type 3R NEMA Rated Enclosure

Options / Subcomponent Summary: Enclosures, enclosure accessories, controllers, batteries, wiring connectors, circuit breakers, lugs, nut keepers, terminal covers, neutral bars, ground bars, ground lugs, transformers, fuse blocks, heater, heater guard, relays, fuses, transfer switch mechanisms, Transient Voltage Surge Suppressor (TVSS), TVSS accessories, and transfer switch mechanism

Unit Mounting Description:

UUT4 was rigidly wall mounted to the wall fixture using (4) 5/16" Grade 5 bolts, 3"x3"x1/4" Carbon Steel plate washers, channel nuts, and round washers. The bolts were spaced approximately 13-3/4" apart on center width-wise and approximately 50" apart on center height-wise.

UUT Properties

UUT4	Operating Weight (lb.)	Dimensions (in.)			Lowest Natural Frequency (Hz)		
		Depth	Width	Height	Front-Back	Side-Side	Vertical
	273	12.0	34.4	51.4	N/A	N/A	N/A

Seismic Test Parameters

Building Code	Test Criteria	S _{DS} (g)	z/h	I _p	Aflx-H (g)	Arig-H (g)	Aflx-V (g)	Arig-V (g)
CBC 2019	ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	N/A	N/A
		2.50	0.0	1.5	N/A	N/A	1.67	0.67



Figure 1. UUT4 Exterior View



Figure 2. UUT4 Interior View

Note: The UUT was operational before and after shaking and was full of operating content during the tests. The structural integrity of the component and attachment system and force-resisting systems were maintained.