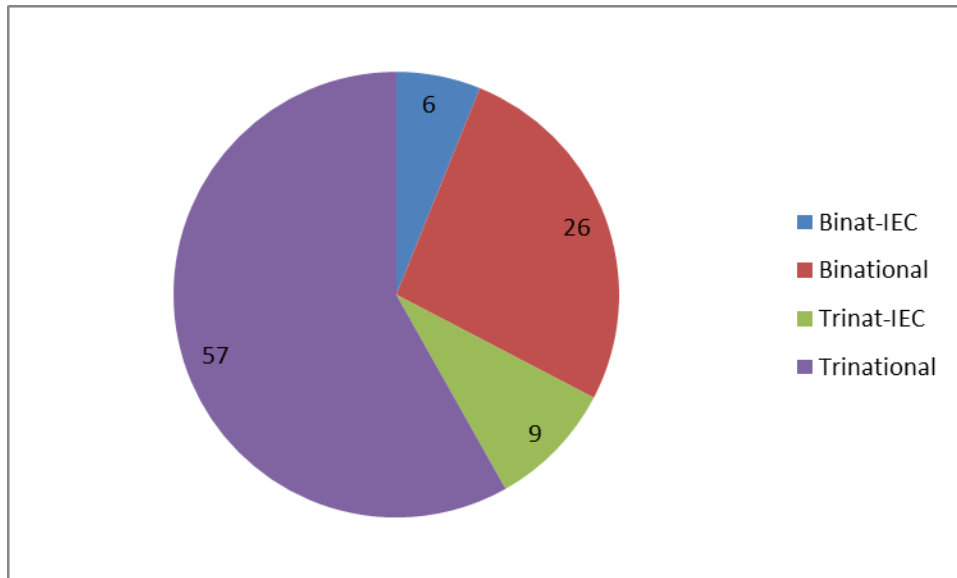


## CANENA Technical Programs



CANENA is a volunteer based organization focused on electrotechnical standards harmonization activities within the Americas, helping to facilitate trade. As of December 31, 2017, there were forty-three (43) electrotechnical standards harmonization committees operating under CANENA. Those committees have published fifty-seven (57) harmonized standards jointly by ANCE, CSA and UL; and an additional twenty-six (26) published jointly by CSA and UL. Regarding the publication of harmonized standards that used an IEC standard as the base document, there was a total of nine (9) harmonized standards published jointly by ANCE, CSA and UL; and an additional six (6) standards published jointly by CSA and UL. The publication of these standards brings the total number of harmonized standards jointly published to ninety-eight (98). The following are the most recent standards being pursued for harmonization under CANENA:

Binational: [Canada and U.S.]: EVSE DC Fast Charging Standards (CSA 22.2 No.107.1 IEC 61851 -1 and -23 UL 2202)

Binational: [Canada and U.S.]: Low-voltage AC and DC power circuit breakers (CSA 22.2 No. 268-16, UL 1066)

Binational: [Canada and U.S.]: Power Supplies (Adoption of IEC 62040-1 and 62477-1)

Binational: [Canada and U.S.]: LV Circuit Breakers (CSA 22.2 No. 268-16, UL 1066)

The publication of these documents reflects the continuing SDO commitment to the CANENA harmonization efforts.

UL Standard Number	CSA Standard Number	ANCE Standard Number	Standard Title	Harmonization Type
5A	62.1	N/A	Nonmetallic Surface Raceways and Fittings	Binational
6	45	534	Electrical Rigid Metal Conduit --Steel	Trinational
6A	22.2 No. 45.2-08	576	Electrical Rigid Metal Conduit -- Aluminum, Red Brass, and Stainless Steel	Trinational
20	111-10	N/A	General-Use Snap Switches	Binational
44	38	451	Thermoset-Insulated Wires and Cables	Trinational
50	94.1	235/1	Enclosures for Electrical Equipment, Non-Environmental Considerations	Trinational
50E	94.2	235/2	Enclosures for Electrical Equipment, Environmental Considerations	Trinational
62	49	436	Flexible Cord and Cables	Trinational
83	75	NMX-J-010	Thermoplastic-Insulated Wires and Cables	Trinational
98	4	162	Enclosed and Dead-Front Switches	Trinational
218	C22.2 No. 263	NMX-J-626-ANCE-2009	Fire Pump Controllers	Trinational
224	198.1	N/A	Extruded Insulating Tubing	Binational
248-1	N/A	009/248/1	Low-Voltage Fuses - Part 1: General Requirements	Trinational
248-10	248-10	009/248/10	Low-Voltage Fuses - Part 10: Class L Fuses	Trinational
248-11	248.11	009/248/11	Low-Voltage Fuses - Part 11: Plug Fuses	Trinational
248-12	248.12	009/248/12	Low-Voltage Fuses - Part 12: Class R Fuses	Trinational
248-13	248.13	009/248/13	UL 248-13 Low-Voltage Fuses - Part 13: Semiconductor Fuses	Trinational
248-14	248.14	009/248/14	Low-Voltage Fuses - Part 14: Supplemental Fuses	Trinational
248-15	248.15	009/248/15	Low-Voltage Fuses - Part 15: Class T Fuses	Trinational
248-16	248-16	009/248/16	Low-Voltage Fuses - Part 16: Test Limiters	Trinational
248-2	248.9	009/248/9	Low-Voltage Fuses - Part 9: Class K Fuses	Trinational
248-3	248.3	009/248/3	Low-Voltage Fuses - Part 2: Class C Fuses	Trinational
248-4	248.4	009/248/4	Low-Voltage Fuses - Part 4: Class CC Fuses	Trinational
248-5	248.5	009/248/5	Low-Voltage Fuses - Part 5: Class G Fuses	Trinational
248-6	248.6	009/248/6	Low-Voltage Fuses - Part 6: Class H Non-	Trinational

UL Standard Number	CSA Standard Number	ANCE Standard Number	Standard Title	Harmonization Type
			Renewable Fuses	
248-7	248.7	009/248/7	Low-Voltage Fuses - Part 7: Class H Renewable Fuses	Trinational
248-8	248.8	009/248/8	Low-Voltage Fuses - Part 8: Class J Fuses	Trinational
248-9	248.9	009/248/9	Low-Voltage Fuses - Part 9: Class K Fuses	Trinational
310	153	N/A	Electrical Quick-Connect Terminals	Binational
347	253	564/106	Alternating Current Contactors and Contactor-Based Controllers Rated 150-1 to 7200 V	Trinational
467	41	590	Grounding and Bonding Equipment	Trinational
486	41	590	Grounding and Bonding Equipment	Binational
486A-486B	C22.2 No. 65	543	Wire Connectors	Trinational
486C	C22.2 No. 188	548	Splicing Wire Connectors	Trinational
486D	198.2	NMX-J-519	Sealed Wire Connector Systems	Trinational
486F	291	N/A	Bare and Covered Ferrules	Binational
489	5	NMX-J-266	Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures	Trinational
489B	305	NA	Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures for use with Photovoltaic (PV) Systems	Binational
496	43	N/A	Lampholders	Binational
514A	18.1	023/1	Metallic Outlet Boxes	Trinational
514B	18.3	NMX-J-017	Conduit, Tubing and Cable Fittings	Trinational
514D	42.1	N/A	Cover Plates for Flush-Mounted Wiring Devices	Binational
568	126.2	N/A	Nonmetallic Cable Tray Systems	Binational
674	145	652	Electric Motors and Generators for Use in Hazardous (Classified) Locations	Trinational
773A	284-16	NMX-J-715	Nonindustrial Photoelectric Switches for Lighting Control	Trinational
797	22.2 No.83.1	NMX-J-536	Electric Metallic Tubing -- Steel	Trinational
845	254	353	Motor Control Centers	Trinational
857	27	NMX-J-148	Busways	Trinational
891	244	118/2	Switchboards	Trinational

<b>UL Standard Number</b>	<b>CSA Standard Number</b>	<b>ANCE Standard Number</b>	<b>Standard Title</b>	<b>Harmonization Type</b>
943	144.1	NMX-J-520-ANCE-2006	Ground-Fault Circuit-Interrupters	Trinational
1008	178.1	NMX-J-672	Transfer Switch Equipment	Trinational
1441	198.3	N/A	Coated Electrical Sleeving	Binational
1472	184.1	N/A	Solid-State Dimming Controls	Binational
1565	C22.2 18.5	N/A	Positioning Device	Binational
1598	250.0	307/1	Luminaires	Trinational
1653	227.1	N/A	Electrical Nonmetallic Tubing	Binational
1660	227.2.1	N/A	Liquid-Tight Flexible Nonmetallic Conduit	Binational
1682	182.1	N/A	Standard for Plugs, Receptacles, and Cable Connectors, of the Pin and Sleeve Type	Binational
1691	1691	N/A	Single Conductor Pin and Sleeve Devices Intended for Theater, Stage and Studio Applications	Binational
1696	227.3	N/A	Nonmetallic Mechanical Protection Tubing	Binational
1786	256	N/A	Direct Plug-In Nightlights	Binational
1993	1993	578	Self-Ballasted Lamps and Lamp Adapters	Trinational
1995	236	N/A	Heating and Cooling Equipment	Binational
2157	169-15	N/A	Electric Clothes Washing Machines and Extractors	Binational
2158	112-15	N/A	Electric Clothes Dryer	Binational
2231-1	281.1	NMX-J-668/1	Personal Protection Systems for Electric Vehicles (EV) Supply Circuits – Part 1: General Requirements	Trinational
2231-2	281.2	NMX-J-668/2	Personal Protection Systems for Electric Vehicles (EV) Supply Circuits – Part 2: Particular Requirements for Protection Devices for use in Charging	Trinational
2239	18.4	N/A	Hardware for the Support of Conduit, Tubing, and Cable	Binational
2251	282	NMX-J-678	Plugs Receptacles, and Couplers for Electric Vehicles	Trinational
2420	2420	N/A	Belowground Reinforced Thermosetting Resin Conduit (RTRC) and Fittings	Binational
2459	2459	N/A	Insulated Multi-pole Splicing Wire Connectors	Binational
2515	2515	N/A	Aboveground Reinforced Thermosetting Resin Conduit (RTRC) and Fittings	Binational
2556	2556	556	Wire and Cable Test Methods	Trinational

UL Standard Number	CSA Standard Number	ANCE Standard Number	Standard Title	Harmonization Type
2594	280	NMX-J-677	Electric Vehicle Supply Equipment	Trinational
4248-1	4248.1	009-4248/1	Fuseholders - Part 1: General Requirements	Trinational
4248-11	4248.11	009/4248/11	Fuseholders - Part 11: Type C (Edison Base) and Type S Plug Fuse	Trinational
4248-12	4248.12	009/4248/12	Fuseholders - Part 12: Class R	Trinational
4248-15	4248.15	009/4248/15	Fuseholders - Part 15: Class T	Trinational
4248-4	4248.4	009-4248/4	Fuseholders - Part 4: Class CC	Trinational
4248-5	4248-5	009-4248/5	Fuseholders - Part 5: Class G	Trinational
4248-6	4248.6	009/4248/6	Fuseholders - Part 6: Class H	Trinational
4248-8	4248.8	009/4248/8	Fuseholders - Part 8: Class J	Trinational
4248-9	4248.9	009/4248/9	Fuseholders - Part 9: Class K	Trinational
60320-1	60320-1	60320-1	Appliance Couplers for Household and Similar General Purposes – Part 1: General Requirements	Trinat-IEC
60335-1	60335-1	521	Household and Similar Electrical Appliances, Part 1: General Requirements	Trinat-IEC
60335-2-24	60335-2-24	521-2-24	Household and Similar Electrical Appliances, Part 2: Particular Requirements for Refrigerating Appliances, Ice-Cream Appliances, and Ice-Makers	Trinat-IEC
60335-2-34	60335-2-34	60335-2-34	Household and Similar Electrical Appliances, Part 2: Particular Requirements for Motor-Compressors	Trinat-IEC
60335-2-40	60335-2-40	60335-2-40	Household and Similar Electrical Appliances - Safety - Part 2-40: Particular requirements for electrical heat pumps, air-conditioners and dehumidifiers	Trinat-IEC
60335-2-89	60335-2-89	60335-2-89	Household and Similar Electrical Appliances – Safety – Part 2-89: Particular requirements for Commercial Refrigerating Appliances with an Incorporated or Remote Refrigerant Unit or Compressor	Trinat-IEC
60947-1	60947-1	TBD	Low-Voltage Switchgear and Controlgear - Part 1: General rules	Trinat-IEC
60947-4-1	60947-4-1	290	Low-Voltage Switchgear and Controlgear - Part 4-1: Contactors and motor-starters - Electromechanical contactors and motor-starters	Trinat-IEC
60947-4-2	60947-4-2	N/A	Low-Voltage Switchgear and Controlgear - Part 4-2: Contactors and motor-starters – AC Semiconductor Motor Controllers and	Binat-IEC

UL Standard Number	CSA Standard Number	ANCE Standard Number	Standard Title	Harmonization Type
			Starters	
60947-5-1	60947-5-1	N/A	Low-Voltage Switchgear and Controlgear - Part 5-1: Control Circuit Devices and Switching Elements – Electromechanical Control Circuit Devices	Binat-IEC
60947-5-2	60947-5-2	N/A	Low-Voltage Switchgear and Controlgear - Part 5-2: Control Circuit Devices and Switching Elements – Proximity Switches	Binat-IEC
60947-7-1	60947-7-1		Low-Voltage Switchgear And Controlgear - Part 7-1: Ancillary Equipment - Terminal Blocks for Copper Conductors	Binat-IEC
60947-7-2	60947-7-2	N/A	Low-Voltage Switchgear and Controlgear - Part 7-2: Ancillary Equipment - Protective Conductor Terminal Blocks for Copper Conductors	Binat-IEC
60947-7-3	60947-7-3	N/A	Low-Voltage Switchgear and Controlgear - Part 7-3: Ancillary Equipment - Safety Requirements for Fuse Terminal Blocks	Binat-IEC
62275	18.5	623	Cable management systems - Cable ties for electrical installations	Trinat-IEC