

3. CSA Approved Equipment

CSA is a semi-governmental organization established in Canada for the purpose of assuring the safety to life and property of equipment which uses electrical devices, such as machine tools, electrical machines, electronic equipment, medical facilities and business machines.

Magnetic starters, push-button switches and other products are also subject to this standard. Therefore, to be exported, these products must be CSA approved.

On the other hand, when these products are installed in panels or equipment, the assemblies may be dangerous depending on the installation method even if all the parts used are CSA approved. To avoid this, additional standards have been established, besides those applicable to unit products, regarding the structure and wiring of panels and equipment, and the insulation distance and mounting methods for installing these products in narrow places. Assemblies must conform to these standards as well.

When non-approved parts are used, tests will be made to see whether they are suitable for the panel or equipment in which they are to be installed, and then their use will be approved only as part of said panel or equipment.



However, it is more advantageous to use CSA approved parts because non-approved parts require extra time and labor in obtaining CSA approval for panel or equipment. Besides, even in using non-approved products after obtaining CSA approval for panel or equipment, power cords, internal wires, plugs and fuse holders must be CSA approved.

Further, in some U.S. states, CSA standard is regarded as equivalent to UL standard. Therefore, using CSA approved equipment is advantageous also in U.S. markets.

■ Contactors and Starters

CSA approved products are the same as UL approved ones. For details, see the following documents:

	NEW SC and NEO SC series Magnetic contactors and starters	NEW SC series Auxiliary relays	NEW SC and NEO SC series Thermal overload relays	NEW SC series Optional units	SJ series High-sensitivity contactors	FC series Magnetic contactors	SB series DC magnetic contactors	SC-M series magnetic contactors
CSA File No.	Acquisition in				LR20479	Acquisition in	LR20479	Acquisition in
Reference page	11	14	17	19	24	24	25	20

■ Solid-state Contactors

CSA approved products are the same as UL approved ones. For details, see the following documents:

	3-pole Solid-state contactors	Single-pole Solid-state contactors
CSA File No.	LR20479-245	LR20479-165
Reference page	27	27

■ Molded Case Circuit Breakers/Earth Leakage Circuit Breakers/Manual Motor Starters

CSA approved products are the same as UL approved ones. For details, see the following documents:

	BU□A, BU□B series	α-TWIN series	SG-UL, EG-UL series	SA-UL series	Manual motor starters
CSA File No.	LR66856		Acquisition in		
Reference page	32	30	30	28	33

■ Circuit Protectors

CSA approved products are as follows. For their types and rating, see Catalog No. EH450.

	Type CP-P/B	Type CP-F/T	Type CP-E	Type CP-V	Type CP-R	Type CP-H	Type CP-Q	Type CP-E dedicated socket
CSA File No.	LR63868							LR67978
Reference page	33							

■ Super-rapid Fuses

CR2LS series products of 10A, 20A, 30A, 50A or 75A rating are CSA approved based on the following specifications. When they are used in semiconductor power supplies which require CSA approval, CSA approval shall be applied for, with the following CSA File No. indicated in the application form.

	CR2LS-10/UL	CR2LS-20/UL	CR2LS-30/UL	CR2LS-50/UL	CR2LS-75/UL
CSA File No.	LO4000-4090				
Reference page	34				

■ Pushbuttons, Selector Switches, Pilot Lights, Buzzers

Standard products are CSA approved. For details, see the following documents.

	AR22, DR22, AR30, DR30, AM22, DM22 series	AG28, DG28 series	AH25 series	AH164, AH165 (except AH165-ZM) series	AH165-2 (without pilot light) AH225, AG225, AH16P, AH16P-2, AH22P series	AH165-2 (with pilot light) series AM165-ZM
CSA File No.	LR20479					LR84365
Reference page	34					

■ Control Relays

CSA approved products are the same as UL approved ones. For details, see the following documents:

	Miniature control relays	Power relays			Control relays		Card relays	Terminal relays
	HH52□, 53□, 54□	HH62□	HH63P	HH64P	HH22P□-UL	HH23P□-UL	RB104, 105	RS4N, 6N(P), 16(P)
CSA File No.	LR20479	LR20479	LR35144	LR35144	LR20479	LR20479	LR20479	LR20479
Reference page	43							

■ Timers

CSA approved products are the same as UL approved ones. For details, see the following documents:

	Super timers MS7S1	Digital timers MD4E
CSA File No.	LR20479	LR20479
Reference page	45	45

■ Terminal Blocks

● Combination terminal blocks

Type	Withstand voltage [V]	Rated current [A]	Connecting wire size	CSA File No.
LT2F-010	600	15	20-16 AWG-Cu	LR702989
LT2F-020		19	16-14 AWG-Cu	
LT2F-030		27	14-10 AWG-Cu	
LT2F-040		35	12-10 AWG-Cu	
LT2F-080		68	6-8 AWG-Cu	
LT2F-020W		19	18-14 AWG-Cu	
LT2E-020		20	20-14 AWG-Cu	
LT2E-030		30	18-12 AWG-Cu	
LT2E-040		40	18-10 AWG-Cu	
LT2E-080		75	10-6 AWG-Cu	
LT2E-090		95	8-4 AWG-Cu	
LT2E-150		150	4-2/0 AWG-Cu	
LT2E-200		200	2-4/0 AWG-Cu	
LT2E-300		300	2/0-300 AWG-Cu	
LT2E-400		400	4/0-350 AWG-Cu	
LT2E-600		550	300-600 AWG-Cu	

● Relaying connector terminal blocks

CSA approved products are the same as UL approved ones. For details, see the following documents:

	LP5W series
CSA File No.	E45457
Reference page	46