

STANDARDS UPDATE NOTICE (SUN) ISSUED: September 2, 2022

STANDARD INFORMATION

Standard: CSA C22.2 No.76

Standard ID: Splitters [CSA C22.2#76:2014 Ed.4]

Previous Standard ID: Splitters (R2012) [CSA C22.2#76:1992 Ed.3+G1]

EFFECTIVE DATE OF NEW/REVISED REQUIREMENTS

Effective Date: September 1, 2023

IMPACT, OVERVIEW, AND ACTION REQUIRED

Impact Statement: Per our accreditation, Intertek is required to review reports against the standard revisions to confirm compliance. Once compliance is confirmed, the standard reference in the report is updated to show continued compliance to the technical requirements of the standard. Reports not updated to this version by the effective date above will be withdrawn.

Overview of Changes:

- Addition of requirements for enclosures
- Revised requirements for current carrying parts
- New requirements for temperature markings
- New requirements for temporary connections

Specific details of new/revised requirements are found in table below.

Current Listings Not Active? – Please immediately identify any current Listing Reports or products that are no longer active and should be removed from our records. We will do this at no charge as long as Intertek is notified in writing prior to the review of your reports.



STANDARD INFORMATION

CLAUSE	VERDICT	COMMENT
		Additions to existing requirements are <u>underlined</u> and deletions are shown lined out below.
4	Info	Construction
4.1	Info	Enclosures
4.1.1	Info	General purpose
		Each cover shall conform with the following:
4.1.1.2		a) it shall be not longer than 1830 mm and shall be hinged if it weighs more than 34 kg; b) a captive screw fastening shall be considered equivalent to the cover latch required by CSA C22.2 No. 40; and c) for cover sealing other than captive screws, provision for locking shall be provided.
		Note: Covers may be provided with means for sealing.
4.2	Info	Current-carrying parts
4.2.1	Info	General
4.2.1.3		New clause added; Plating shall meet the requirements of CAN/CSA-C22.2 No. 0.
4.2.3	Info	Wire connectors
4.2.3.2		Permanent and temporary connection Each wire connector for permanent connection shall meet the requirements of CSA C22.2 No. 65.
		Connectors for temporary connection of portable generators or load banks shall meet the requirements of CSA C22.2 No. 182.1 or C22.2 No. 1691.
		Note: Equipment connected by the use of temporary connections must include the overcurrent requirements of Canadian Electrical Code, Part I.
		New clause added;
400		Temperature marking
4.2.3.4		When 75 °C rated conductors are the basis for the splitter design, the splitter shall be marked in accordance with Clause 5.1 m). When 90 °C rated conductors are the basis for the splitter design, the splitter shall be marked in accordance with Clause 5.1 n).



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4.2.3.8	Info	Wire connector kits
		The wire connector kits, in the form of either individual terminals or an assembly, shall be constructed so that
4.2.3.8.2		 a) installation can be easily accomplished without the use of special tools; b) reliable connections to terminal plates or busbars will be afforded; c) each kit can be installed without disassembly of factory-assembled parts other than the connectors being replaced; and d) with the kit installed, spacings will be maintained.
4.4	Info	Electrical spacings
4.4.5		Approved insulating tubing having a minimum thickness of 0.51 mm after application may be used on a busbar to achieve the required spacing. Approved insulating tape lapped to give a minimum thickness of 0.51 mm may alternatively be used. The tubing or tape shall be suitable for the temperatures involved and not less than 80 °C for 75 °C rated splitters, and not less than 95 °C for 90 °C rated splitters.
4.5	Info	Wiring space and wire bending space
4.5.3		New clause added; Knockouts, pryouts, twistouts Knockouts, pryouts, twistouts, and clearance holes for conduit connection shall meet the requirements of CAN/CSA-C22.2 No. 0, Clause 5.17.
4.5.5	Info	Space at terminations
4.5.5.2		Wiring and wire bending spaces for field-installed conductors shall be determined on the basis of the following assumptions:
		a) Conductors shall be Type RW75 for 75 °C rated splitters and Type RW90 for 90 °C rated splitters. The minimum size shall be No. 12 AWG. Conductor dimensions shall be as shown in Table 10A of the Canadian Electrical Code, Part I. b) Where a splitter is marked as suitable for use with copper or aluminum wire, the conductors shall be aluminum. c) Where it is intended that a splitter may be connected by a single conductor or by two or more conductors in parallel, wiring and wire bending spaces shall be provided for the arrangement requiring the largest space.
4.5.5.2		New clause added; In applications where terminals for all three phases are mounted separately, the wire bending space for the phase wire being inserted into the terminal that is nearest to the knockout opening in the enclosure wall may be less than shown in Table 2 or 3 of CSA C22.2 No. 0.12, provided a) the wire enters straight into the terminal without having any bend; and
		Page 3 of 4



CLAUSE	VERDICT	COMMENT
		b) the wiring space and wire bending space shall be not less than shown in Table 4 of CSA C22.2 No. 0.12.
		Note: See Figure A.4 of this Standard for additional explanation.
5	Info	Marking
5.1		Information to be marked
		Each splitter shall be marked, in accordance with the requirements of CAN/CSA-C22.2 No. 0, with the information detailed as follows:
		l) where the splitter includes temporary connections per Clause 4.2.3, the temporary connections shall be marked with the following words: FOR TEMPORARY CONNECTION OF A PORTABLE GENERATOR OR LOAD BANK ONLY; m) where required by Clause 4.2.3.4, the splitter shall be marked to indicate the conductor ampacity permitted with the following words or equivalent: 75 °C CONDUCTOR AMPACITY PERMITTED; and n) where required by Clause 4.2.3.4, the splitter shall be marked to indicate the conductor ampacity permitted, with the following words or equivalent: 90 °C CONDUCTOR AMPACITY PERMITTED.
6	Info	Tests
6.3	Info	Mechanical strength
6.3.3	Info	Strength of bases for the mounting of live parts
		New clause added; For temporary connectors
6.3.3.2		Bases supporting wire connectors, terminal plates, or busbars on which wire connectors are mounted shall not be permanently deformed or ruptured when the tightening torque is applied in accordance with the requirements of
		a) CSA C22.2 No. 1691, Clause 5.8; or b) CSA C22.2 No. 182.1, Clause 4.11.