

SUMMARY OF TOPICS

The following topics for the Standard for Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures, UL 489, are being recirculated (this is an updated recirculation document with an additional change to Topic 7):

2. Revision to the Requirements for Draw-out Circuit Breakers

3. Revisions to the Calibration Requirements for Supplement SB

7. Addition of Requirements from UL 489G into UL 489

COMMENTS DUE: November 5, 2018

For your convenience in review, proposed additions to the previously proposed requirements dated (2018-05-11) are shown underlined and proposed deletions are shown ~~lined-out~~.

2. Revision to the Requirements for Draw-out Circuit Breakers

Responses to comments have been posted within the 489 Proposal Review Work Area dated (2018-05-11). No changes have been made to the previously proposed revision. Note that the purpose of a recirculation of comments only is intended solely to provide STP members the opportunity to review the comments and responses, and to either reconsider their vote or cast a first-time vote. New comments on the previously proposed revision for this Topic will not be provided with a specific response. Any additionally desired changes should be submitted as a new proposal request via CSDS.

3. Revisions to the Calibration Requirements for Supplement SB

Responses to comments have been posted within the 489 Proposal Review Work Area dated (2018-05-11). No changes have been made to the previously proposed revision. Note that the purpose of a recirculation of comments only is intended solely to provide STP members the opportunity to review the comments and responses, and to either reconsider their vote or cast a first-time vote. New comments on the previously proposed revision for this Topic will not be provided with a specific response. Any additionally desired changes should be submitted as a new proposal request via CSDS.

7. Addition of Requirements from UL 489G into UL 489

RATIONALE

While no STP comments were received in the 489 Proposal Review Work Area dated (2018-05-11), an inadvertent error was discovered and is now being corrected. In addition, a comment was received by CSA and the Technical Harmonization Subcommittee has agreed to an additional change in Table 7.1.7.1 to clarify the voltage ratings.

PROPOSAL

7.1.9.1 A circuit breaker shall be capable of withstanding for 1 minute without breakdown the application of a 48 – 62 Hz essentially sinusoidal potential of 1000 V plus twice the voltage that is to be applied between the parts in question, when the breaker is connected in accordance with its maximum voltage rating:

- a) Between line and load terminals with the breaker open – with the breaker in the tripped and off positions. The test voltages shall be based on the voltage rating of the circuit breaker. The test voltage for a circuit breaker rated for a wye-connected system shall be based on the phase-to-phase voltage;
- b) Between terminals of opposite polarity with the breaker closed. The test voltages shall be based on the voltage rating of the circuit breaker. The test voltage for a circuit breaker rated for a wye-connected system shall be based on the phase-to-phase ~~phase-to-neutral~~ voltage; and
- c) Between live parts and the overall enclosure, as described in 7.1.1.25, with the breaker both open and closed. The test voltage for a circuit breaker rated for a wye connected system shall be based on the phase-to-neutral voltage.

Table 7.1.7.1
Interrupting test operations^a

Poles	Frame rating	Circuit breaker AC voltage rating	Letters indicate diagram in Figure 7.1.7.1						Total number of operations
			Operations on each pole			Common operations			
			O	CO	O	O	CO	O	
1	All	120, 127, 208, 240, 277, 347, 480, 600, <u>650, 690, 700</u> or 1000	A	A	A	–	–	–	3
1	All	120/240 (tested in pairs)	–	–	–	B	B	B	3
		~~240, 480, 600, or 1000 or any wye connected system ratings~~ <u>or any delta connected (wye connected) system rating between 600V and 1000V.</u>							
2	All		E	E	–	D	–	–	5
2	All	120/240	–	–	–	C	C	C	3
		~~208Y/120, 480Y/277, or 600Y/347 or any wye connected system ratings~~ <u>or any delta connected (wye connected) system rating between 600V and 1000V.</u>							
2	0 – 1200 A		L	L	–	C	–	–	5
2	All	1ø – 3ø	E	E	–	H	–	–	5
		~~240, 480, 600, or 1000 or any wye connected system ratings~~ <u>or any delta connected (wye connected) system rating between 600V and 1000V.</u>							
3	0 – 1200 A		G	G	–	F	–	–	7

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Table 7.1.7.1 Continued on Next Page



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