

Subject 845

August 24, 2018

SUMMARY OF TOPICS

The following topics for the Standard for Motor Control Centers, UL 845, are being recirculated:

2. Insulating Materials

COMMENTS DUE: September 24, 2018

For your convenience in review, proposed additions to the previously proposed requirements dated March 23, 2018 are shown underlined and proposed deletions are shown ~~lined-out~~.

2. Insulating Materials

RATIONALE

Responses to comments have been posted within the UL 845 Proposal Review Work Area opened March 23, 2018.

PROPOSAL

8.2.7.1 Material for the support of an uninsulated live part shall be acceptable for the support of such a part and shall be capable of withstanding the most severe conditions likely to be met in service.

A material that is used for the direct support of an uninsulated live part shall comply with the Relative Thermal Index (RTI), Hot Wire Ignition (HWI), High-Current Arc Resistance to Ignition (HAI), and Comparative Tracking Index (CTI) values indicated in Table 41. A material is in direct support of an uninsulated live part when:

- a) it is in direct physical contact with the uninsulated live part; and
- b) it serves to physically support or maintain the relative position of the uninsulated live part.

~~NOTE: No additional evaluation of the material's RTI is required for the direct support of uninsulated live parts rated 600 V or less when the generic materials used comply with Table 42.~~

8.2.27.10 In applications rated 600 V or less, no additional evaluation of the RTI shall be required when the generic material used complies with Table 42.

Table 42
Generic materials for other than the direct support of uninsulated live parts

Generic material	Minimum thickness		RTI, °C
	Inch	(mm)	
Any cold-moulded composition (e.g., concrete)	No limit		No limit
Ceramic, porcelain, and slate	No limit		No limit
Diallyl phthalate	0.028	(0.71)	105
Epoxy	0.028	(0.71)	105
Melamine	0.028	(0.71)	130
Melamine-phenolic	0.028	(0.71)	130
Phenolic	0.028	(0.71)	150
Unfilled nylon	0.028	(0.71)	105
Unfilled Polycarbonate	0.028	(0.71)	105
Urea Formaldehyde	0.028	(0.71)	100
NOTE: Each material shall be used within its minimum thickness and its RTI value shall not be exceeded during the Temperature Test, Clauses 8.2.3.8, 8.3.3, and 9.3.12.			

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