IEEE Std C37.40™-2003(R2009)
(Revision of
IEEE Std C37.40-1993)

Errata to IEEE Standard Service Conditions and Definitions for High-Voltage Fuses, Distribution Enclosed Single-Pole Air Switches, and Accessories

Sponsor

Switchgear Committee

of the

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Correction Sheet
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Page 5, Table 1—Limits of temperature and temperature rise for components and materials where the rated maximum application temperature for the device is 40 °C or less, *should be replaced with the following:*

Table 1—Limits of temperature and temperature rise for components and materials where the rated maximum application temperature for the device is 40 °C or less

Component or material[a,b]	Maximum value of	
	Temperature °C	Temperature rise °C
a) Contacts in air or other insulating gasses		
1) Spring-loaded contacts (copper or copper alloy)		
– Bare	75	35
– Tin coated	95	55
– Silver or nickel coated	105	65
– Other coatings[a]		
2) Bolted contacts or equivalent (copper, copper alloy and aluminum alloy)		
– Bare	90	50
– Tin coated	105	65
– Silver or nickel coated	115	75
– Other coatings[a]		
b) Contacts in liquid insulating material (copper or copper alloy)		
1) Spring-loaded contacts		
– Bare	80	40
– Silver, tin, or nickel coated	90	50
– Other coatings[a]		
2) Bolted contacts		
– Bare	80	40
– Silver, tin, or nickel coated	100	60
– Other coatings[a]		
c) Bolted terminals in air[c]		
– Bare	90	50
– Silver, tin, or nickel coated	105	65
– Other coatings[a]		
d) Metal parts acting as springs[d]		
e) Materials used as insulation and metal parts in contact with insulation of following classes:		
Bone fiber	70	30
90	90	50
105	105	65
130	130	90
155	155	115
180	180	140
220	220	180
Over 220[e]		

[a]If the manufacturer uses coatings other than those indicated in this table, the properties of these materials should be taken into consideration.

[b]Where engaging contact surfaces have different coatings, the permissible temperatures and temperature rises shall be those of the component having the lowest values permitted.

[c]The temperature of a terminal should be no higher than that of the nearest device contact also subject to temperature limits covered by this table.

[d]The temperature or the temperature rise should not reach such a value that the elasticity of the metal is impaired.

[e]Limited only by the requirement not to cause any damage to surrounding parts.