

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

**IEEE Power Engineering Society***Correction Sheet***Issued 30 March 2009**

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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 <sup>a,b</sup>	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 <sup>a</sup>		
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 <sup>a</sup>		
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 <sup>a</sup>		
2) Bolted contacts		
– Bare	80	40
– Silver, tin, or nickel coated	100	60
– Other coatings <sup>a</sup>		
c) Bolted terminals in air <sup>c</sup>		
– Bare	90	50
– Silver, tin, or nickel coated	105	65
– Other coatings <sup>a</sup>		
d) Metal parts acting as springs <sup>d</sup>		
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 <sup>e</sup>		

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

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

<sup>c</sup>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.

<sup>d</sup>The temperature or the temperature rise should not reach such a value that the elasticity of the metal is impaired.

<sup>e</sup>Limited only by the requirement not to cause any damage to surrounding parts.