

INTERNATIONAL ELECTROTECHNICAL COMMISSION  
COMMISSION ÉLECTROTECHNIQUE INTERNATIONALE

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**IEC 60947-5-1**  
Edition 4.0 2016-05

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Low-voltage switchgear and controlgear –

Appareillage à basse tension –

Part 5-1: Control circuit devices  
and switching elements –  
Electromechanical  
control circuit devices

Partie 5-1: Appareils et éléments de  
commutation pour circuits de commande –  
Appareils électromécaniques  
pour circuits de commande

## CORRIGENDUM 1

### 5.2.2 Terminal identification and marking

### 5.2.2 Identification et marquage des bornes

*Replace the existing text by the following new text:*

*Remplacer le texte existant par le nouveau texte suivant :*

Subclause 7.1.8.4 of IEC 60947-1:2007 applies, with the additional requirements stated in Annex M.

Le Paragraphe 7.1.8.4 de l'IEC 60947-1:2007 s'applique, avec les exigences additionnelles identifiées dans l'Annexe M.

### Table 8 – Immunity tests

*Replace the existing table by the following new table:*

**Table 8 – Immunity tests**

Type of test	Basic standard	Test level required		Acceptance criteria
Electrostatic discharge immunity test	IEC 61000-4-2	8 kV / air discharge or 4 kV / contact discharge		B <sup>k</sup>
Radiated radio-frequency electromagnetic field immunity test 80 MHz to 1 GHz	IEC 61000-4-3	10 V/m		A
Radiated radio-frequency electromagnetic field immunity test 1,4 GHz to 2 GHz	IEC 61000-4-3	3 V/m		A
Radiated radio-frequency electromagnetic field immunity test 2 GHz to 2,7 GHz	IEC 61000-4-3	1 V/m		A
Electrical fast transient/burst immunity test (with capacitive coupling clamp)	IEC 61000-4-4	2 kV / 5 kHz on power ports <sup>a</sup> 1 kV / 5 kHz on signal ports <sup>b</sup>		B <sup>k</sup>
Surge immunity test (1,2/50 µs - 8/20 µs) <sup>c</sup>	IEC 61000-4-5	2 kV (line to earth) 1 kV (line to line)		B
Conducted disturbances induced by radiofrequency fields immunity test (150 kHz to 80 MHz)	IEC 61000-4-6	10 V		A
Power frequency magnetic field immunity test <sup>d</sup>	IEC 61000-4-8	30 A/m		A
Voltage dips immunity test <sup>h</sup>	IEC 61000-4-11	Class 2 <sup>e, f</sup> 0 % during 0,5 cycle	Class 3 <sup>e, f</sup> 0 % during 0,5 cycle	B <sup>k, l</sup>
		Class 2 <sup>e, f</sup> 0 % during 1 cycle	Class 3 <sup>e, f</sup> 0 % during 1 cycle	B
		Class 2 <sup>e, f, g</sup> 70 % during 25/30 cycles	Class 3 <sup>e, f, g</sup> 40 % during 10/12 cycles 70 % during 25/30 cycles 80 % during 250/300 cycles	C
Voltage interruptions immunity test <sup>h</sup>	IEC 61000-4-11	Class 2 <sup>e, f, g</sup> 0 % during 250/300 cycles	Class 3 <sup>e, f, g</sup> 0 % during 250/300 cycles	C
Immunity to harmonics in the supply	IEC 61000-4-13	No requirements <sup>i</sup>		
<p><sup>a</sup> Power port: the point at which a conductor or cable carrying the primary electrical power needed for the operation of the electronic circuit or the switching element or associated equipment is connected.</p> <p><sup>b</sup> Signal port: the point at which a conductor or cable carrying information for transferring data or signals is connected to the electronic circuit or the switching element.</p> <p><sup>c</sup> Not applicable for extra-low voltage a.c. ports (≤ 30 V) and extra-low voltage d.c. input/output ports (≤ 60 V), when the secondary circuits (isolated from the a.c. mains) are not subject to transient overvoltages.</p> <p><sup>d</sup> Applicable only to equipment containing devices susceptible to power frequency magnetic fields.</p>				