

Irish Standard I.S. EN 50678:2020

General procedure for verifying the effectiveness of the protective measures of electrical equipment after repair

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I.S. EN 50678:2020

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National Foreword

I.S. EN 50678:2020 is the adopted Irish version of the European Document EN 50678:2020, General procedure for verifying the effectiveness of the protective measures of electrical equipment after repair

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EUROPEAN STANDARD

EN 50678

NORME EUROPÉENNE

EUROPÄISCHE NORM

March 2020

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English Version

General procedure for verifying the effectiveness of the protective measures of electrical equipment after repair

Procédure générale visant à vérifier l'efficacité des mesures de protection des équipements électriques après réparation Allgemeines Verfahren zur Überprüfung der Wirksamkeit der Schutzmaßnahmen von Elektrogeräten nach der Reparatur

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European foreword

This document (EN 50678:2020) has been prepared by CLC/TC 85X "Measuring equipment for electrical and electromagnetic quantities".

The following dates are fixed:

•	latest date by which this document has	(dop)	2020-12-16	
	to be implemented at national level by			
	publication of an identical national standard or by endorsement			
	standard or by chaorsement			

 latest date by which the national (dow) 2022-12-16 standards conflicting with this document have to be withdrawn

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Introduction

This standard intends to provide a general test procedure to verify the effectiveness of the basic protective measures for current-using equipment or appliances after they have been repaired, thus ensuring the safety of people using repaired equipment.

This standard may be considered to support compliance with the European Directive 2009/104/EU concerning the minimum safety and health requirements for the use of work equipment by workers at work.

In general, the test procedure for verification of products after repair is the responsibility of the related product technical committees. This document may be taken into consideration by product technical committees if they need to take into consideration modified or additional tests for verification after repairs for products falling within their scope.

1 Scope

This document specifies requirements for setting a uniform procedure to verify the effectiveness of the protective measures for current-using equipment or appliances after they have been repaired.

This procedure is applicable to current-using equipment or appliances with a rated voltage above 25 V AC and 60 V DC up to 1 000 V AC and 1 500 V DC, and currents up to 63 A, connected to final circuits. They may be either pluggable equipment type A connected or permanently connected.

This document is not intended to replace test covered by safety standards nor product standards, for example type tests, routine tests and acceptance tests.

This document assumes that the current-using equipment or appliances under consideration complies with its related product standard, has been introduced on the market, has been in use, has failed, and has then been repaired.

It intends to verify that operations for repairs have not jeopardized basic protective measures, for example to verify the continuity of the protective conductor, the withstand capability of the insulation or to verify that no metallic part is loose or is inadvertently inserted in the device.

This document does not apply to:

- recurrent tests defined in EN 50699;¹
- devices and equipment that are part of the fixed electrical installations. For these, tests for verification after repair are covered by HD 60364-6;
- audio/video, information and communication technology equipment;
- uninterruptible Power Supply (UPS);
- charging stations for electro-mobility;
- power supplies;
- programmable Logic Controllers (PLC);
- power Drives;
- devices for EX-zones or for mining applications in general;
- products already covered by standards addressing similar topics such as:
 - medical equipment covered by EN 60601-1. For these devices, tests for verification after repair are covered by EN 62353;
 - arc welding equipment covered by EN IEC 60974-1. For these devices, tests for verification after repair are covered by EN 60974-4.
 - machinery covered by EN 60204-1. For these devices, EN 60204-1 applies.

¹ Under preparation. Stage at time of publication: prEN 50699:2019.



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