



Total Quality. Assured.

<b>Intertek C&amp;E Management System</b>		Page 1 of 3
<b>Work Instruction (Inspection)</b>		<b>Document No.:</b> <b>WI-R-EMEA-CERT-INSP-PCS004</b>
<b>EMEA CERTIFICATION SCHEMES - PRODUCT CONTROL SPECIFICATIONS</b>		
Issue Date: 2015-02-11	Revision Date: 2018-12-10	Approved by: Fredrik Wennersten
	Effective Date: 2019-01-10	

### 1.0 Purpose

Product Control Specifications (PCS) specify the requirements for routine inspections, tests, Product Verification Tests and sample selection for products certified under an Intertek EU Type 5 certification scheme (including GS, S, BEAB, ASTA, ENEC, BAUART and TICK MARK). They are for use by manufacturers and by factory inspectors.

### 2.0 Scope

Products: Miniature Circuit Breakers (MCBs)  
Residual current circuit-breakers (RCCBs)  
Residual current circuit-breakers with overcurrent protection (RCBOs)

Standards: IEC/EN 60898-1, IEC/EN 61008-1, IEC/EN 61009-1

Marks: S, ASTA, BAUART, TICK

### 3.0 Routine inspections and tests

#### 3.1 General

The following requirements apply to most products.

Variations may be permitted by prior, written agreement from the certification body.

The factory should have a quality plan defining all inspections and tests on materials, components and completed products as appropriate.

Completed products shall be marked to confirm satisfactory completion of all required testing.

Any products which fail inspection or testing shall be segregated and not allowed to continue through the process until rectified and re-inspected or retested.

Products shall not be released until the testing equipment has been checked again following a production batch.

Records of inspections and test should be maintained and held for at least two years.

Records shall include:

- Type of product
- Date of test
- Place of manufacture
- Quantity tested
- Number of failures and actions taken

**Note: these are “safety critical” items. Documentation including bills of material and quality plans must be available for review by Intertek during inspection.**

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### 3.2 Required inspections and tests

Inspection/test	Test parameters	Sampling plan
Tripping test(s)	MCBs: See IEC/EN 60898-1 Annex I RCCBs: See IEC/EN 61008-1 Annex D RCBOs: See IEC/EN 61009-1 Annex D	100%
Verification of clearance between open contacts	MCBs: See IEC/EN 60898-1 Annex I	100%
Electric strength test	RCCBs: See IEC/EN 61008-1 Annex D RCBOs: See IEC/EN 61009-1 Annex D	100%
Performance of the test device	RCCBs: See IEC/EN 61008-1 Annex D RCBOs: See IEC/EN 61009-1 Annex D	100%

### 4.0 Product Verification Tests/Periodic testing (refer to CIG 021 clause 5.8)

Product verification tests are in addition to the production line inspection and routine tests and are performed on samples taken randomly from the production line.

The manufacturer is responsible for conducting or arranging for the following periodic testing to be completed. Records shall be available for review during factory inspection visits.

Certification Mark	Frequency	PVT/periodic testing required
S		PVT is not mandatory, but it is recommended to demonstrate ongoing compliance with EU Directives. The following PVT is recommended: <ul style="list-style-type: none"> <li>• Tests below</li> </ul>
ASTA	Annual	For each basic type certified the following tests according to the product standard. Testing must be conducted in a laboratory which is subjected to external audits by an appropriate party to ISO 17025. <ul style="list-style-type: none"> <li>• Marking, correct assembly</li> <li>• Terminals</li> <li>• Protection against electric shock</li> <li>• Overload trip characteristic against the calibration requirement</li> <li>• Short-circuit trip characteristic</li> <li>• Temperature rise</li> <li>• Mechanical endurance</li> </ul>

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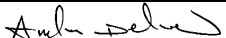
Note: If the manufacturer does not have access to a suitable laboratory then the above testing must be conducted by Intertek.

### 5.0 Surveillance testing by the Certification Body

If required, samples are selected during the factory inspection and the manufacturer should send these to the address provided. If samples are required but not available at the time of the inspection, the manufacturer should send these as soon as they become available. If there is no stock or production, the manufacturer should advise the certification body that samples will not be provided due to no production.

The certification body will arrange for the required testing to be completed. This will be charged to the manufacturer or Licence holder. A report of the testing will be provided.

<b>Certification Mark</b>	<b>Surveillance testing requirements</b>
S	Regular selection of samples is not required. Samples may be required if any deviations to the type tested or non-compliance with the product standard are suspected.  Required number of samples: 3
ASTA	Regular selection and testing of surveillance samples is not required provided that records of the above PVT are submitted to the certification body for review each year. Samples may be required if any deviations to the type tested or non-compliance with the product standard are suspected

<b>Document History</b>				
<b>Revision No.</b>	<b>Date</b>	<b>Changes</b>	<b>Name &amp; Title</b>	
			<b>Author</b>	<b>Approving Official</b>
1	11/02/2015	Original issue	R W Hayward	
2	2018-12-10	Modified requirements in 3.2, 4.0 and 5.0	Thomas Jonasson/ Paul Klemets	Fredrik Wennersten

End of Document

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