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Work Instruction (Inspection)		Document No.: WI-R-EMEA-CERT-INSP-PCS041
EMEA CERTIFICATION SCHEMES - PRODUCT CONTROL SPECIFICATIONS		
Issue Date:	Revision Date: 11 th Feb 2015	Approved by: Anders Delsborn
	Effective Date: 19 th Feb 2015	

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: Powertrack systems
Standards: IEC/EN 61534 series
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

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3.2 Required inspections and tests

Inspection/test	Test parameters	Sampling plan
Correct components used	Visual inspection	100%
No sharp edges near insulated cables	Visual inspection	100%
Satisfactory appearance, markings and any user instructions correct and clear	Visual inspection	100%
Correct polarity connection and continuity	SELV, 2 seconds (manual) SELV, 1 second (if automatic timing)	100%
Earth continuity <ul style="list-style-type: none"> - between each earth terminal - between earth terminal and accessible metal parts 	25A, 3 seconds (manual timing) 25A, 1 second (if automatic timing) 12V max. Voltage drop is measured and resistance calculated. Resistance must not exceed 0.05Ω	100%
Dielectric strength, L+N to PE	1,500Vac, 2 seconds (manual) 1,500Vac, 1 second (if automatic timing) No flash-over or breakdown Leakage current not to exceed 0.5mA	100%
Dielectric strength, L to N	1,500Vac, 2 seconds (manual) 1,500Vac, 1 second (if automatic timing) No flash-over or breakdown Leakage current not to exceed 0.5mA	100%
Dielectric strength, L+N to surface of reinforced or double insulation	3,000Vac, 2 seconds (manual) 3,000Vac, 1 second (if automatic timing) No flash-over or breakdown Leakage current not to exceed 0.5mA	100%

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4.0 Product Verification Tests/Periodic testing (refer to CIG 021 clause 4.8)

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
All		Manufacturer should consider a programme of PVT for assemblies as appropriate to confirm ongoing compliance. This is particularly relevant to high volume production of similar assemblies. Intertek will review this and may require additional PVT, depending on the nature of the products.

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

Certification Mark	Surveillance testing requirements
All	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

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Document History				
Revision No.	Date	Changes	Name & Title	
			Author	Approving Official
1	11/02/2015	Original issue	R W Hayward	

End of Document

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