

**Intertek**

# ASTA Recognized Laboratory Scheme



## Certificate of Recognition

Certificate No. 5140

The certificate remains in force until further notice subject to the continuing compliance with the Regulations and Criteria of Competence for the ASTA Recognized Laboratory Scheme and is also subject to the conditions specified in the endorsement as varied from time to time.

Current status can be confirmed by contacting:  
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[www.intertek.com](http://www.intertek.com)

This is to Certify that

**TÜV SÜD PSB Pte Ltd**

**Testing Services / Electrical & Electronics Centre**

1 Science Park Drive, Singapore 118221

has been satisfactorily assessed against the relevant requirements of

**BS EN ISO/IEC 17025: 2005 inc. Corrigendum No.1**  
and

**Regulations for ASTA Recognized Laboratories**

and is hereby authorised to undertake test work for ASTA certification purposes for the product types and standards identified on the endorsement forming part of this certificate.

**Issue number:** 5  
**Original issue date:** April 2003  
**Expiry date:** 31<sup>st</sup> March 2015  
**Laboratory Reference:** AST/51/40

R W Hayward

Name

Signature

22<sup>nd</sup> February 2011

Date

The Certificate is for the exclusive use of the laboratory above and is provided pursuant to the agreement between Intertek and the laboratory. Intertek assumes no liability to any party for any loss, expense or damage occasioned by the use of this Certificate. Only the laboratory is authorised to copy or distribute this Certificate. Any use of the Intertek name or one of its marks for the sale or advertisement of any tested material, product or service must first be approved in writing by Intertek.

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## ASTA Recognized Laboratory Scheme



**Certificate of Recognition  
Number 5140 issue 5  
Endorsement page 1 of 5**

Site(s) applicable to the recognition:

**TÜV SÜD PSB Pte Ltd  
Testing Services / Electrical & Electronics Centre  
1 Science Park Drive  
Singapore 118221**

Scope of recognition (generic products):

**Low-voltage switchgear and controlgear assemblies, busbar trunking systems, distribution boards and consumer units, low-voltage switchgear and controlgear, circuit-breakers, fuse-switches, disconnectors and fuse-switch disconnectors, screwless connecting devices, pushwire connectors, miniature circuit-breakers, residual current-operated circuit-breakers for household use with overcurrent protection, residual current-operated circuit-breakers for household use without overcurrent protection, Power Track System.**

**Electrical wiring accessories including: socket-outlets, plugs, fuse connection units, adaptors, cooker control units, switches, general electrical accessories and fuse.**

Conditions applicable to the recognition:

**The accreditation remains in force subject to SAC SINGLAS Accreditation LA-2001-0214-E remaining valid for the above product types.**

**Intertek****ASTA Recognized Laboratory Scheme**

**Certificate of Recognition**  
**Number 5140 issue 5**  
**Endorsement page 2 of 5**

**SECTION 1 – LOW VOLTAGE****LOW VOLTAGE SWITCHGEAR AND CONTROLGEAR**

Product	Standard	Issue	Exclusions (Clause & tests)
Low-voltage switchgear and controlgear assemblies Part 1: Type-tested and partially type-tested assemblies Part 1: General Rules Part 2: Power switchgear and controlgear assemblies	BS EN 60439-1  IEC 60439-1 IEC 61439-1 IEC 61439-2	1999 Incorporating Amendment No. 1 and Corrigenda Nos. 1 & 2  2004 Edition 4.1 2009-10 Edition 1.0 2009-10 Edition 1.0	Excluding short-circuit tests $\geq 10\text{kA}$
Low-voltage switchgear and controlgear assemblies Part 2: Particular requirements for busbar trunking systems (busways)	BS EN 60439-2  IEC 60439-2: 2000	2000 Incorporating Amendment No. 1  2005 Edition 3.1	Excluding short-circuit tests $\geq 10\text{kA}$
Low-voltage switchgear and controlgear assemblies Part 3: Particular requirements for low-voltage switchgear and controlgear assemblies intended to be installed in places where unskilled persons have access to their use - Distribution boards	BS EN 60439-3  IEC 60439-3	1991 Incorporating Amendment Nos. 1 & 2 and Corrigendum No. 1  2001 Edition 1.2 Amendment Nos. 1 & 2 and Corrigendum No. 1	Excluding short-circuit tests $\geq 10\text{kA}$
Low-voltage switchgear and controlgear Part 1: General Rules	BS EN 60947-1 IEC 60947-1	2007 2007 Edition 5	Excluding short-circuit tests $\geq 10\text{kA}$
Low-voltage switchgear and controlgear Part 2: Circuit-breakers	BS EN 60947-2  IEC 60947-2	2006 + Amendment No. 1: 2009 2009 Edition 4.1	Excluding short-circuit tests $\geq 10\text{kA}$ Clause 8.3.3.1.2 Clause 8.3.3.1.3 Clause 8.3.3.1.4

**Intertek****ASTA Recognized Laboratory Scheme**

**Certificate of Recognition**  
**Number 5140 issue 5**  
**Endorsement page 3 of 5**

**SECTION 1 – LOW VOLTAGE****LOW VOLTAGE SWITCHGEAR AND CONTROLGEAR (Continued)**

Product	Standard	Issue	Exclusions (Clause & tests)
Low-voltage switchgear and controlgear Part 3: Switches, disconnectors, switch-disconnectors and fuse-combination units	BS EN 60947-3 IEC 60947-3	2009 2008 Edition 3	Excluding short-circuit tests $\geq 10\text{kA}$
Electrical accessories – Circuit breakers for overcurrent protection for household and similar installations Part 1: Circuit-breakers for a.c. operation	BS EN 60898-1 IEC 60898-1	2003 plus Amendment No. 1: 2004 Incorporating Amendment Nos. 11 & 12 and Corrigenda Nos. 1 & 2 2003 Edition 1.2	Excluding short-circuit tests $\geq 10\text{kA}$
Residual current operated circuit-breakers without integral overcurrent protection for household and similar uses (RCCBs) Part 1: General Rules	BS EN 61008-1 IEC 61008-1	2004 Incorporating Amendment No. 12 2010 Edition 3.0	Excluding short-circuit tests $\geq 10\text{kA}$
Residual current operated circuit-breakers with integral overcurrent protection for household and similar uses (RCBO's) Part 1: General Rules	BS EN 61009-1 IEC 61009-1	2004 Incorporating Amendment Nos. 11, 12 & 13 and Corrigenda Nos. 1 & 2 2010 Edition 3.0	Excluding short-circuit tests $\geq 10\text{kA}$

**Intertek****ASTA Recognized Laboratory Scheme**

**Certificate of Recognition**  
**Number 5140 issue 5**  
**Endorsement page 4 of 5**

**SECTION 2 – ACCESSORIES**  
**ELECTRICAL WIRING ACCESSORIES**

Product	Standard	Issue	Exclusions (Clause & tests)
Connecting devices for low-voltage circuits for household and similar purposes Part 1: General requirements	BS EN 60998-1 IEC 60998-1	2004 2002 Edition 2.0	
Connecting devices for low-voltage circuits for household and similar purposes Part 2-1: Particular requirements for connecting devices as separate entities with screw-type clamping units	BS EN 60998-2-1 IEC 60998-2-1	2004 2002 Edition 2.0	
13A plugs, sockets-outlets and adaptors. Part 1: Specification for rewirable and non-rewirable 13A fused plugs	BS 1363-1	1995 Incorporating Amendment Nos. 1, 2 & 3	
13A plugs, sockets-outlets and adaptors. Part 2: Specification for 13A switched and unswitched socket-outlets	BS 1363-2	1995 Incorporating Amendment Nos. 1, 2 & 3	
13A plugs, sockets-outlets and adaptors. Part 3: Specification for adaptors	BS 1363-3	1995 Incorporating Amendment Nos. 1, 2 & 3 and Corrigendum No. 1	

**Intertek****ASTA Recognized Laboratory Scheme**

**Certificate of Recognition**  
**Number 5140 issue 5**  
**Endorsement page 5 of 5**

**SECTION 2 – ACCESSORIES****ELECTRICAL WIRING ACCESSORIES (Continued)**

Product	Standard	Issue	Exclusions (Clause & tests)
13A plugs, sockets-outlets and adaptors. Part 4: Specification for 13A fused connection units switched and unswitched	BS 1363-4	1995 Incorporating Amendment Nos. 1, 2 & 3	
Two-pole and earthing-pin plugs, socket-outlets and socket outlet adaptors	BS 546	1950 Incorporating Amendments Nos. 1 to 8 plus Supplements 1 & 2	
Specification for cooker control units	BS 4177	1992 Incorporating Amendment Nos. 1, 2, 3 & 4	
Specification for general requirements for electrical accessories	BS 5733	1995 Incorporating Amendment No. 1 and Corrigendum No. 1	
Switches for household and similar fixed-electrical installations Part 1: General Requirements	BS EN 60669-1 IEC 60669-1	1999 plus Amendment No. 2: 2008 incorporating Corrigenda January 2007 & February 2010 2007 Edition 3.2	
Specification for general purpose fuse links	BS 1362	1973 plus Amendment Nos. 1 & 2	
Powertrack Systems Part 1	IEC 61534-1	2003 Edition 1.0	
Powertrack Systems Part 21	IEC 61534-21	2006 Edition 1.0	