



RESIDUAL CURRENT OPERATED CIRCUIT-BREAKER (RCCB)

A Complete System in Circuit Protection



RESIDUAL CURRENT OPERATED CIRCUIT-BREAKER (RCCB)

Product Features

- Current operated type incorporated with electromechanical function.
- Accurate sensing of leakage current ranging from 10mA to 300mA.
- Built-in filter for protection against nuisance tripping.
- Type tested by Intertek Semko AB (Sweden) in compliance to IEC 61008.
- ON / OFF Indicator & test button for routine safety check.
- RCCB available in 2 pole & 4 pole up to 63Amp rating.



2 POLE

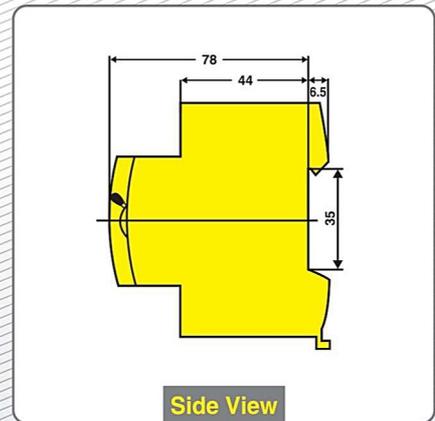
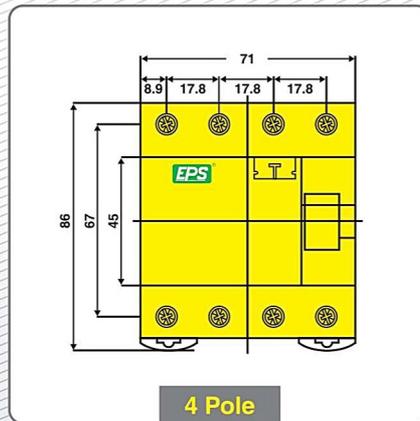
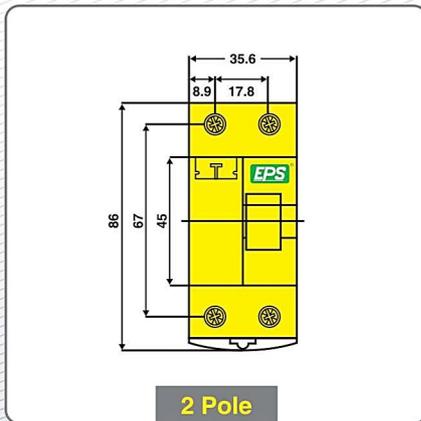
Model / Type Reference	Voltage	Rating (Amp)	Sensitivity (mA)
NGPL	240V AC	16	10
NGPL	240V AC	20	10
NGPL	240V AC	25	10
NGPL	240V AC	40	30
NGPL	240V AC	63	30
NGPL	240V AC	40	100
NGPL	240V AC	63	100



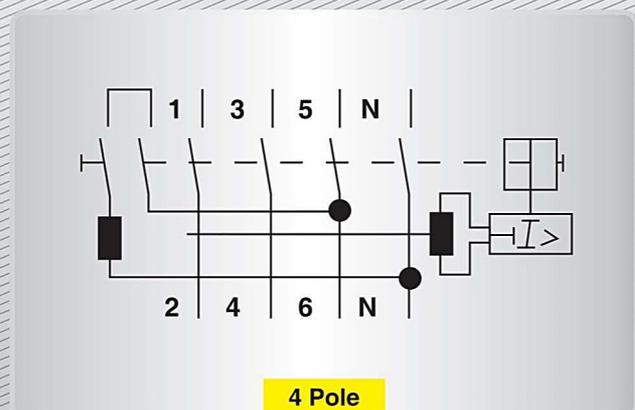
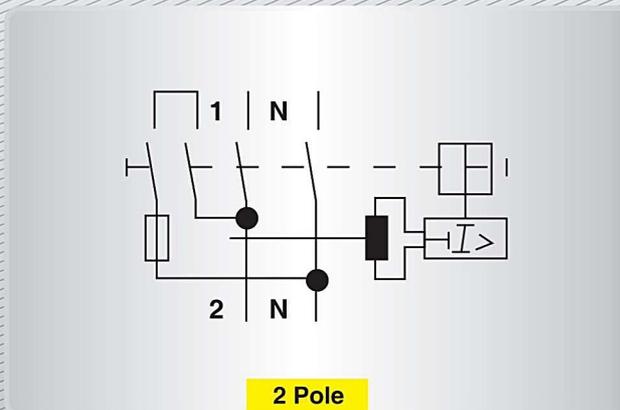
4 POLE

Model / Type Reference	Voltage	Rating (Amp)	Sensitivity (mA)
NGPL	415V AC	40	30
NGPL	415V AC	63	30
NGPL	415V AC	40	100
NGPL	415V AC	63	100
NGPL	415V AC	40	300
NGPL	415V AC	63	300

DIMENSIONS



CIRCUIT DIAGRAM



TECHNICAL DATA & SPECIFICATION

Rated Current (I_n)	16 A, 20A, 25A, 40A, 63A
Fault Current Sensitivity ($I_{\Delta n}$)	30 ~ 300mA
Rated Non-operating Current for earth leakage ($I_{\Delta no}$)	0.51 Δn
Normal Voltage (U_n)	240 / 415V AC
Number of Poles	2-pole, 4-pole
Tripping Time	1 x I_{dn} : $t < 0.2s$ 5 x I_{dn} : $t < 0.04s$
Frequency	50 / 60Hz (other frequencies on request)



2P 4P

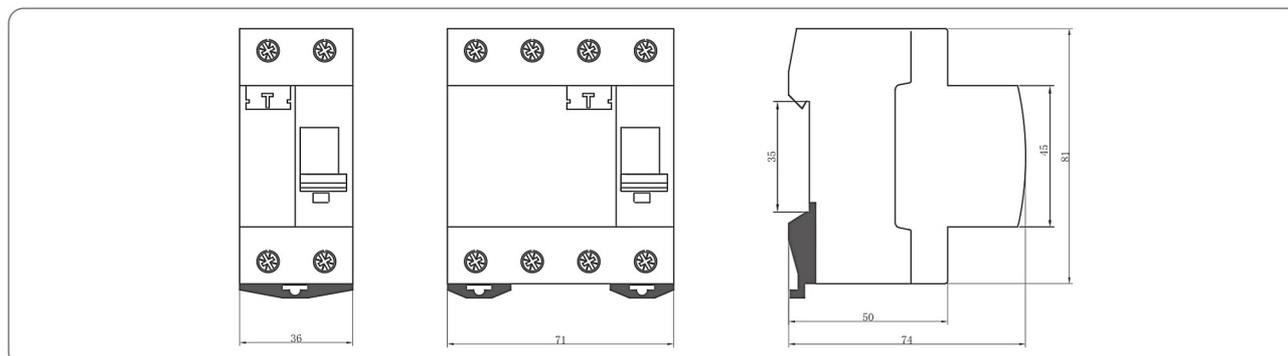
Specification and Feature

- Provides protection against earth fault/leakage current and function of isolation
- High breaking current withstand capacity
- Applicable to terminal and pin/fork type busbar connection
- Fire resistant plastic parts endures abnormal heating and strong impact
- Automatically disconnect the circuit when earth fault/leakage current occurs and exceeds the rated sensitivity
- Independent of power supply and line voltage, and free from external interference, voltage fluctuation

Technical Data

Mode	Electro-magnetic type
Residual current characteristics	A, AC
Pole No.	2, 4
Rated making and breaking capacity	630A
Rated current(A)	16A, 20A, 25A, 40A, 63A
Rated voltage	240/415V AC
Rated frequency	50/60Hz
Rated residual operating current I _{Δn} (mA)	10, 30, 100, 300
Rated residual non operating current I _{Δno}	0.5I _{Δn}
Rated conditional breaking current I _{nc}	6000A
Rated conditional residual breaking current I _{Δc}	6000A
Tripping duration	Instantaneous tripping ≤ 0.1s
Residual tripping current range	0.5I _{Δn} ~ I _{Δn}
Electro-mechanical endurance	4000 cycles
Connection capacity	Rigid conductor up to 25mm ²
Connection terminal	Screw terminal Pillar terminal with clamp
Fastening torque	2.5 Nm
Installation	On symmetrical DIN rail 35mm Panel mounting

Overall & Installation Dimensions



Intertek

Certificate

 for European Product Safety

Reference No. 917648

Residual current operated circuit-breaker

Type designation NGPL

Certificate holder **Utama Switchgear SDN BHD.**
No. 3, Jalan USJ 19/4A, Uep Subang Jaya,
47630 Petaling Jaya, Selangor Darul Ehsan

MALAYSIA

The product complies with the standard(s) EN 61008-2-1:1994 and A11
EN 61008-1:2004 and A11+A12

Date of expiry 23 December 2014

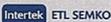
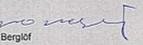
EU Directive information The product satisfies the provisions for CE marking according to the Low Voltage Directive 2006/95/EC.

Additional information in Appendix.

Certification Body Intertek Semko AB, Product Certification Place Kista - Stockholm

Signed  Date 23 December 2009
Fredrik Wennersten Page 1 of 3

This certificate is issued in accordance with the terms and conditions set out in the Appendix.

	Ref. Certif. No. SE-59971
IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT (IECEE) CB SCHEME	
SYSTEME CEI D'ACCEPTATION MUTUELLE DE CERTIFICATS D'ESSAIS DES EQUIPEMENTS ELECTRIQUES (IECEE) METHODE OC	
CB TEST CERTIFICATE	CERTIFICAT D'ESSAI OC
Product Produit	Residual current operated circuit-breakers without integral overcurrent protection for household and similar uses (RCCB's)
Name and address of the applicant Nom et adresse du demandeur	Utama Switchgear Sdn Bhd. No. 3, Jalan USJ 19/4A, Uep Subang Jaya, 47630 Petaling Jaya, Selangor Darul Ehsan, MALAYSIA
Name and address of the manufacturer Nom et adresse du fabricant	Wenzhou Huajia Electrical Equipment Co., Ltd. Huajia Industry Building, Liqing Rd, Lushu, Yueqing, Zhejiang 325604, CHINA
Name and address of the factory Nom et adresse de l'usine Note: When more than one factory, please report on page 2 Note: Lorsque il y a plus d'une usine, veuillez indiquer la 2 ^{ème} page	Same as manufacturer
Ratings and principal characteristics Valeurs nominales et caractéristiques principales	U _n = 240V~ 2P(1P+N), 415V~4P(3P+N), 50/60Hz, IP20 I _n = 25, 40, 63A, I _{Δn} = 0.03, 0.1, 0.3, 0.5A, AC-1 type, I _n = I _{Δn} = 6000A
Trademark (if any) Marque de fabrique (si elle existe)	
Type of Manufacturer's Testing Laboratories used Type de programme de laboratoire d'essais constructeur	-
Model / Type Ref. Ref. De type	NGPL
Additional information (if necessary may also be reported on page 2) Les informations complémentaires (si nécessaire, peuvent être indiquées sur la 2 ^{ème} page)	-
A sample of the product was tested and found to be in conformity with Un échantillon de ce produit a été essayé et a été constaté conforme à la	IEC 61008-2-1:1994 IEC 61008-1:1996 +A1+A2
As shown in the Test Report Ref. No. which forms part of this Certificate Comme indiqué dans le Rapport d'essais numéro de référence qui constitue partie de ce Certificat	SH09110807-001, SH09110807-002
This CB Test Certificate is issued by the National Certification Body Ce Certificat d'essai OC est établi par l'Organisme National de Certification	
Intertek Semko AB Box 1103 SE-164 22 Kista, Sweden Int +46 8 750 00 00 Date: 23 December 2009	 Signature:  Bo Berglöf

Dealer:

UTAMA

SWITCHGEAR SDN BHD

UTAMA SWITCHGEAR SDN BHD (416650-H)
No. 3, Jalan USJ 19/4A, UEP Subang Jaya,
47630 Petaling Jaya, Selangor Darul Ehsan, Malaysia.

Tel 603-8024 1215 / 1216 Fax 603-8024 1796

Email utamasb@ussbeps.com