

# RONG FENG INDUSTRIAL CO.,LTD.

## 榮豐工業股份有限公司

NO.180,CHENGKUNG 3 ROAD  
NAN TOU CITY,TAIWAN  
R.O.C.

TEL:886-49-2252421~5  
FAX:886-49-2253647

南投市成功三路 180 號  
統一編號:61451224  
CABEL:RONG FENG

### Specification Of RF-1003 MINI ROCKER SWITCH page:1

#### 1.Scope

This specification covers the MINI ROCKER switch for RF-1003.

#### 2.Dimensios

Dimensions of this switch is shown on the following drawing.

#### 3.Rating

- 3.1. 10A250V AC TV-5 1/3HP for UL, CSA.
- 3.2. 10A(4)A 250V~T85 8A/80A 250V~T85 for NEMKO, VDE
- 3.3. 10(4)A 250V~ for KTL, CQC

#### 4.Electrical

##### 4.1. Contact Resistance

At DC 0.2V 1A should be 30 m $\Omega$  (Max).

##### 4.2. Insulation resistance

It is measured with 500V DC M $\Omega$  should be 1000 M $\Omega$  (Min)

##### 4.3. Dielectrical strength

(Between terminals of open contacts and terminals of opposite polarity)

Dielectric strength should withstand without breakdown a potential of AC 2000V/minute.

(Between terminals and metal frame)

Dielectric strength should withstand without breakdown a potential of AC 2000V/minute.

#### 5.Temperature test

The Temperature test should be tested after endurance test with its rated current.

The temperature rising should be less than 30 $^{\circ}$ C.

#### 6.Soldering

6.1 The terminals shall be well soldered of dipped place of immersed place in the solder.

Dipped in molten solder of 260 $\pm$ 5 $^{\circ}$ C and the well time in solder is 3  $\pm$ 0.5 seconds and more than 75% of the dipped part shall be covered by solder.

##### 6.2.Iron soldering

The terminal shall be hook the wire ,after to do iron soldering,the iron of top temperature is 350 $\pm$ 5 $^{\circ}$ C, solder time: 3 second. more than 75% of the dipped part shall be covered by solder.

#### 7.Terminal Strength

Using a static force of 5kg in one direction on the tip of the terminal for 1 minute.

The terminal may be deformed, but should not sustain any trouble as deviation and breaking of terminal and breaking of insulation.

ENGINEER NO : TWI-K-0046(N)

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### Specification Of RF-1003 MINI ROCKER SWITCH page:2

#### 8.Measurement Condition

All measurement and tests should be done at temperature of 15°C ~35°C relative humidity of 35% to 65% and at air pressure of 760±5 m/m of mercury.

#### 9.Overload and endurance test

Condition test	Voltage	Current	P.F	Operation speed	Number of operation	Requirement
Overload 10A250V	250V	15A	0.75~0.80	6~10 cycles per Min	50 cycles	UL CSA
Overload TV-5	120V	7.5A				
Overload 1/3 HP	125V 250V	43.2A 21.6A	0.4~0.5			
Endurance 10A250V	250V	10A	0.75~0.80	6~10 cycles per Min	6,000 cycles	
Endurance TV-5	120V	5A			25,000 cycles	
Endurance 1/3HP	125V 250V	7.2A 3.6A	0.4~0.5		6,000 cycles	
(TC1) 10(4)A250V	287.5V	Making 27.6 A Breaking 11.5A	0.6 0.95	7.5 cycles per Min	100 cycles	VDE NEMKO
(TC2) 10(4)A250V	250V	Making 24 A Breaking 10A	0.6 0.95		100 cycles	
(TC4) 10(4)A250V	250V	Making 24 A Breaking 10A	0.6 0.95		9,800 cycles	
(TC1) 8A/80A 250V	287.5V	Making 9.2 A Breaking 9.2A			100 cycles	
(TC2) 8A/80A 250V	250V	Making 80 A Breaking 8A			100 cycles	
(TC4) 8A/80A 250V	250V	Making 80 A Breaking 8A			9,800 cycles	

APPROVED	CHECK	WRITER	DESCRIPTION
M. F. HUNG	John	Lang	99. 11. 26

ENGINEER NO : TWI-K-0047(N)



Northbrook, Illinois • (847) 272-8800  
 Melville, New York • (516) 271-6200  
 Santa Clara, California • (408) 985-2400  
 Research Triangle Park,  
 North Carolina • (919) 549-1400  
 Camas, Washington • (360) 817-5500

RONG FENG INDUSTRIAL CO LTD  
 C/O EXPEDITER LTD  
 MR J YEH  
 38 LANE 70 CHANG AN RD, SEC 2  
 TAICHUNG TAIWAN



Your most recent listing is shown below. Please review this information and report any inaccuracies to the UL Engineering staff member who handled your UL project.

WOYR2 July 3, 1997  
 Component - Switches, Special Use

RONG FENG INDUSTRIAL CO LTD				E94138 (S)	
1214 CHANG NAN RD, SEC 3, NAN TOU TAIWAN				(A card)	
CAT. NO.	AMPS	VOLTS	FREQ	HP	
RF-1001	15/10	125/250	60	—	
RF-1001-1	15/7.5	125/250	60	—	
RF-8001	15/10	125/250	60	—	
RF-1001-3	5	250	60	—	
	TV-5	120	60	—	
RF-1002	12	250	60	—	
RF-1003	10	250	60	1/3	
	TV-5	125	60	—	
SS-160	10	125-250	60	—	
	TV-5	120	60	—	
	TV-8	125	60	—	

Reports: July 11, 1985; July 11, 1985; March 3, 1988; February 20, 1991; July 14, 1997; December 26, 1985.

Replaces E94138A dated June 3, 1997.  
 508101001 H7987 Underwriters Laboratories Inc.®

(Cont. on B card)  
 D11/0118317  
 191

For information on placing an order for UL Listing Cards in a 3 x 5 inch card format, please refer to the enclosed ordering information.

UNDERWRITERS LABORATORIES INC.

A not-for-profit organization  
 dedicated to public safety and  
 committed to quality service



# Certificate of Compliance

Certificate: 1673819 Master Contract: 175964 (LR 65613)  
Project: 2148468 Date Issued: June 17, 2009  
Issued to: Rong Feng Industrial Co., Ltd.  
No 180, Cheng Kung 3 Rd.,  
Nan Tou City, Taiwan

Attention: Mr. John Yu

*The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US or with adjacent indicator 'US' for US only or without either indicator for Canada only*



Issued by: Sebastian George  
P. Eng.

Authorized by:   
Jupiter Huang  
Certifier

## PRODUCTS

CLASS - 6241 10 - SWITCHES - Snap - special use  
CLASS - 6241 90 - SWITCHES - Snap - special use

Special-use snap switch, Cat No RF-1003, rated 10 A, 250 V ac, 1/3 HP, TV-5, SPST or DPST

Note: Sold only to manufacturers, as components, for the assembly of certified electrical equipment.

## APPLICABLE REQUIREMENTS

CAN/CSA-C22.2 No 0-M91 - General Requirements - Canadian Electrical Code, Part II  
55-M1986 - Special Use Switches  
UL 1054 - Special Use Switches

# VDE Prüf- und Zertifizierungsinstitut

## ZEICHENGENEHMIGUNG MARKS APPROVAL

Rong Feng Industrial  
Co., Ltd.  
No. 180, Cheng Kung 3rd Road  
540 NAN TOU CITY  
TAIWAN

ist berechtigt, für ihr Produkt /  
is authorized to use for their product

**Geräteschalter**  
**Switch for appliances**

die hier abgebildeten markenrechtlich geschützten Zeichen  
für die ab Blatt 2 aufgeführten Typen zu benutzen /  
the legally protected Marks as shown below for the types referred to on page 2 ff.



Geprüft und zertifiziert nach /  
Tested and certified according to

DIN EN 61058-1 (VDE\_0630-1):2008-09; EN 61058-1:2002 + A2:2008  
IEC 61058-1(ed.3);am1;am2

VDE Prüf- und Zertifizierungsinstitut GmbH  
VDE Testing and Certification Institute  
Zertifizierungsstelle / Certification

VDE Zertifikate sind nur gültig bei Veröffentlichung unter:  
VDE certificates are valid only when published on:

Aktenzeichen: 1476300-4401-0008 / 168906  
File ref.:

Ausweis-Nr. 40030309 Blatt 1  
Certificate No. Page

Weitere Bedingungen siehe Rückseite und Folgeblätter /  
further conditions see overleaf and following pages

Offenbach, 2010-06-17  
(letzte Änderung/updated 2012-07-23)

<http://www.vde.com/zertifikat>  
<http://www.vde.com/certificate>

# VDE



**VDE Prüf- und Zertifizierungsinstitut**  
**Zeichengenehmigung**

Ausweis-Nr. / Blatt /  
Certificate No. page  
40030309 2

Name und Sitz des Genehmigungs-Inhabers / *Name and registered seat of the Certificate holder*  
Rong Feng Industrial Co., Ltd., No. 180, Cheng Kung 3rd Road, 540 NAN TOU CITY, TAIWAN

Aktenzeichen / *File ref.* letzte Änderung / *updated* Datum / *Date*  
1476300-4401-0008 / 168906 / FG31 / LF 2012-07-23 2010-06-17

Dieses Blatt gilt nur in Verbindung mit Blatt 1 des Zeichengenehmigungsausweises Nr. 40030309  
*This supplement is only valid in conjunction with page 1 of the Certificate No. 40030309.*

**Geräteschalter**  
**Switch for appliances**

Typ(en) / *Type(s)*:

**RF-1003**

Bemessungsspannung, AC <i>Rated voltage, AC</i>	250 V
Bemessungsstrom <i>Rated current</i>	10(4) A, 8 A / 80 A
Art und Anschluss von Schaltern <i>Type and connection of switches</i>	Wippenschalter, Kode 1.2, 1.3, 2.3, 2.5 <i>Rocker switch, code 1.2, 1.3, 2.3, 2.5</i>
Abschaltung <i>Disconnection</i>	Vollständige Abschaltung <i>Full disconnection</i>
Schaltzyklen <i>Number of operating cycles</i>	10E3
Umgebungs-Lufttemperatur <i>Ambient air temperature</i>	T85/55
Art der Montage <i>Method of mounting</i>	zum Einbau in Geräte der Schutzklasse II <i>Incorporation in class II equipment</i>
Art der Betätigung <i>Method of actuating</i>	Direkte Betätigung <i>Direct actuating</i>
Schutzgrad durch Gehäuse <i>Degree of protect. provided by enclosure</i>	IP 20 nach entsprechendem Einbau <i>IP 20 after appropriate incorporation</i>
Schalter der Kategorie <i>Switch category</i>	3



# CERTIFICATE

No. P07207927/A1



Order No. 161425

Product	Switche for appliances
Applicant	Rong Feng Industrial Co. Ltd. No. 180, Cheng Kung 3rd Road 540 Nan Tou City Taiwan
Manufacturer	Rong Feng Industrial Co. Ltd. No. 180, Cheng Kung 3rd Road 540 Nan Tou City Taiwan
Factory	<input checked="" type="checkbox"/> See page 2
Ratings	10A(4) 250V AC / 8/8A 250V AC
Trade mark	RONG FENG or RF
Model / Type Ref.	RF-1003
Principal characteristics	Rocker switch, for incorporation in class II appliances, circuit type code 1.2, 1.3, 2.3, 2.5, full disconnection, 10E3 cycles, level 3, pollution degree 2, material group IIIa, T85/55, with solder terminals, IP20 <input type="checkbox"/> See next page(s)
A sample of the product was tested and found to be in conformity with	CONT EN 61058-1:2002;A2
Replaces	This certificate replaces previous certificate No. P7207927, due to changes in address of applicant, manufacturer and factory and upgrade to include amendment to standard.
Validity	This certificate documents conformity with the standards shown, and also applies as license for use of Nemkos name and certification mark. The certificate and license is valid as long as the applicable conditions are complied with, and provided that any changes to the product are notified to Nemko for acceptance prior to implementation. New standards or amendments to the standards may imply that the product design must be updated and/or that re-testing and re-certification is necessary.
Additional information	<input type="checkbox"/> See next page(s)
Additional model(s)	<input type="checkbox"/> See next page(s)

Date of issue 24-03-2011

*Hanne Yndestad*

Signature

Hanne Yndestad

Certification Department

Nemko AS	Office address	Internet	Telephone	Fax
P.O. Box 73, Blindern	Gaustadalléen 30	www.nemko.com	+47 22 96 03 30	+ 47 22 96 05 50
N-0314 Oslo, Norway	Oslo		Enterprise number:	NO 974404532



## PRODUCT CERTIFICATE

No.: CQC04003009457

### NAME AND ADDRESS OF THE APPLICANT

Rongfeng Electrical (Shenzhen) Co., Ltd.  
Bantian 2nd Industrial Zone, Buji Town, LongGan District, Shenzhen

### NAME AND ADDRESS OF THE MANUFACTURER

Rongfeng Electrical (Shenzhen) Co., Ltd.  
Bantian 2nd Industrial Zone, Buji Town, LongGan District, Shenzhen

### NAME AND ADDRESS OF THE FACTORY

Guangzhou RONGFENG Electrical Co., Ltd.(V003880)  
Aigang, Yuexi Village, Shilou Twon, Panyu District, Guangzhou

### NAME, MODEL AND SPECIFICATION

Rocker switch  
RF-1003、RF-1003A 10A 250V~ T85 1E4 PT1175 锡焊端子

### THE STANDARDS AND TECHNICAL REQUIREMENTS FOR THE PRODUCTS

GB15092.1-2010

### CERTIFICATION MODEL

Type Testing of Product + Initial Factory Inspection + Follow up Factory Inspection

This is to certify that the above mentioned products have met the requirements of certification rules CQC11-462124-2009.

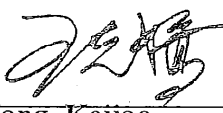
Date of issue: Oct.21,2011

Date of expiry: Oct.21,2015

Validity of this certificate is subject to positive result of the regular follow up inspection by issuing certification body until the expiry date.

Date of original certification: Feb.27,2004

President:

  
Wang Kejiao



## CHINA QUALITY CERTIFICATION CENTRE

Section 9, No.188, Nansihuan Xilu, Beijing 100070 P.R.China

<http://www.cqc.com.cn>

C 0020667



접수번호 : 12-045765-01  
(Receipt No.)



# 전기용품안전인증서

Electrical Appliances Safety Certificate

안전인증번호 : SU02004-5001A  
(Certificate No.)

제조업자명 : Rong Feng Electrical (Shenzhen) Co.,Ltd  
(Factory)

대표자명 : Mr. Y. M. Huang  
(President)

제조공장의  
소재지 : Panten 2nd Industrial Zone Bugy Town Shenzhen City  
(Factory Address) Guangdong P.R.China

제품명 : 전기기기용스위치(로커스위치)  
(Product)

기본모델명 : RF-1003  
(Basic Model)

정격 : AC250V, 10(4)A  
(Rating)

파생모델명 : Not Applicable  
(Series Model)

적용기준 : K61058-1(2007-12)  
(Standard)

「전기용품안전 관리법 시행규칙」 제6조제2항에 따라 위의 전기용품에 대하여 안전인증  
서를 발급합니다.  
We Issue Electrical Appliances Safety Certification as above product by Article 6 Sectio  
n 2 of the Electrical Appliances Safety Control Law Enforcement Regulation.

2012년 08월 21일



한국산업기술시험원장  
KOREA TESTING LABORATORY



\* 이 인증서는 「전기용품안전 관리법」에 따른 전기용품 안전성 확인에 한정된 것이며, 그 밖의 다른  
법률이 적용되는 제품의 경우에는 해당 법률에 따라 추가로 인증·허가 등을 받아야 합니다.

- 첨부 :  
(Annex)
1. 안전관리부품 및 재질목록 (List of Critical Components)
  2. 기본모델·파생모델의 내용 (General Descriptions of Certified Products)
  3. 전기용품안전인증의 변경 현황 (Status of Certificate Revisions)