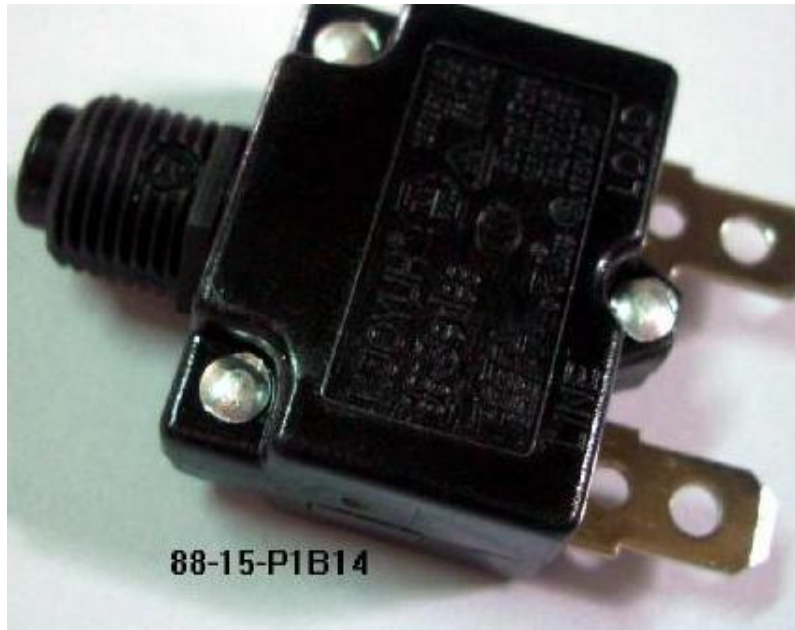


KUOYUH®

88 series Circuit Breaker

THERMAL CIRCUIT BREAKERS (PUSH TO RESET)



Issue: KUOYUH W.L. Enterprise Co.,Ltd.

Date: 2008/09/03

Author: Hunter Huang

Edition: F/0

88 Series Thermal Circuit Breaker

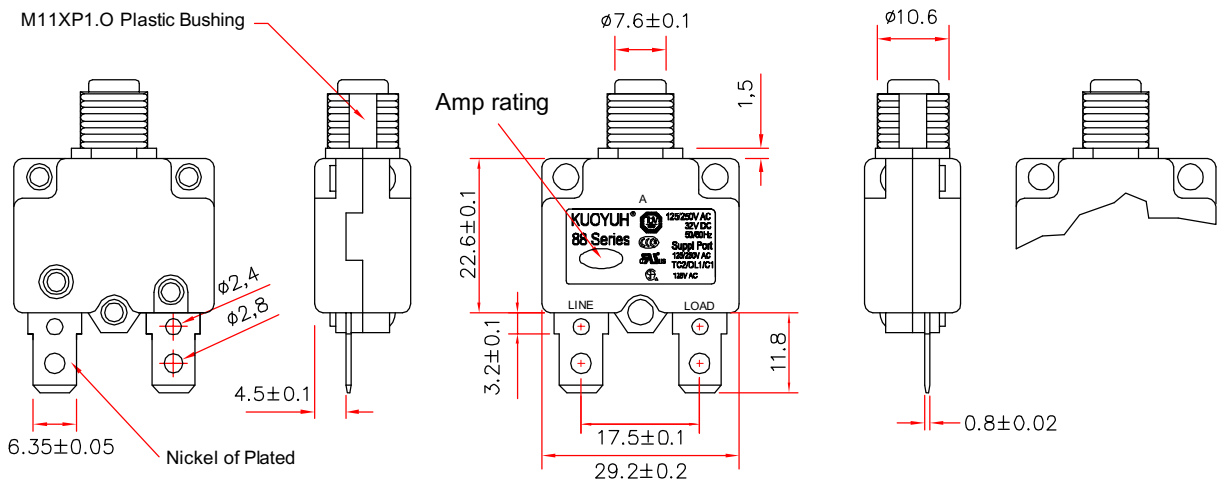
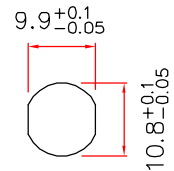
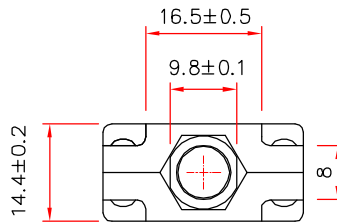
Rating: 3A~25A
 Input Power: 125/250Vac 32Vdc
 Interruption Capacity: 1000AmpX125Vac 200AmpX250Vac
 Dielectric Strength: 1500Vac X 1Minute
 Resettable Overload Capacity: 6 Time Rated Current
 Voltage Drop: Less Than 0.25V
 Insulation Resistance: >500 M ohm
 Reset Time: Within 60sec
 Temperature Rise at Terminal Block: Less than 65°c at 100% of rated current applied continuously
 Contact Endurance: 125Vac X150% of rated current >500 cycles
 cUL 3A-20A 125/250Vac TC2/OL0/C1
 cUL 3A-15A 125/250Vac TC2/OL1/C1 (UL1363)
 VDE 3A-16A 125/250Vac 32Vdc
 TUV 3A-20A 125/250Vac 32Vdc
 CCC 5A-20A 125/250Vac
 Complies with Rohs



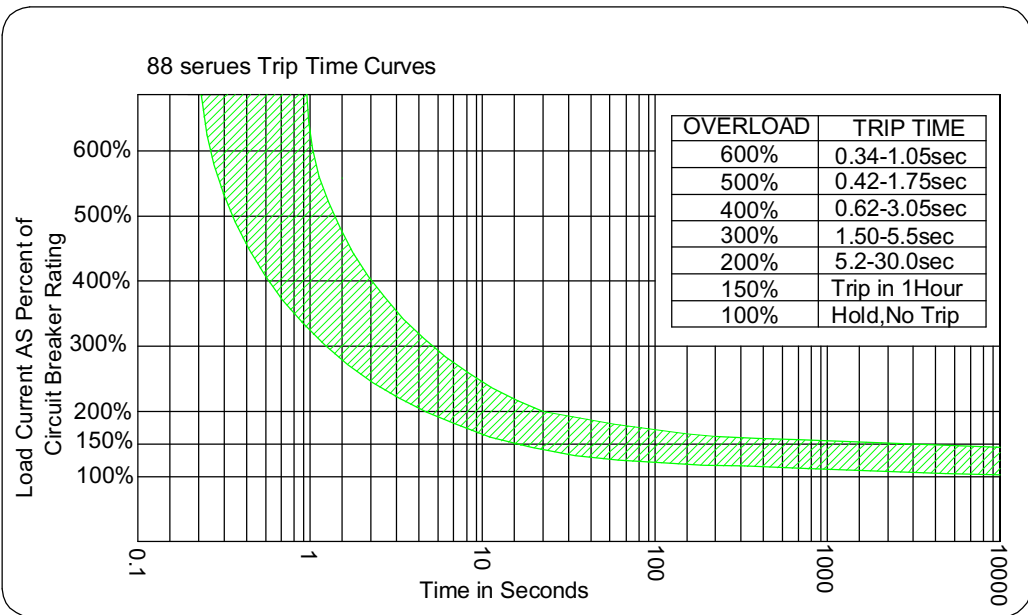
88-XX-P1B14-P00

VDE	3A~16A 125/250Vac 32Vdc
UL cUL	3A~15A 125/250Vac TC2/OL1/C1
UL cUL	16A~20A 125/250Vac TC2/OL0/C1
TUV	3A~20A 125/250Vac 32Vdc
CCC	5A~20A 125/250Vac
CSA	10A/15A 125Vac

Panel Cutout

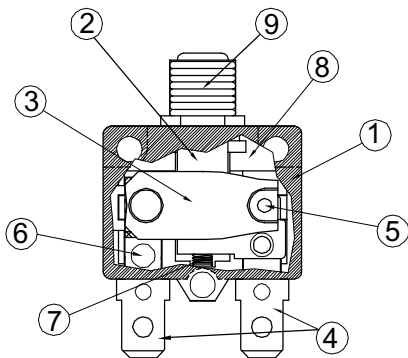


5			TOLERANCE		APPROVED	CHECK	DESING	DRAWER	UNIT	mm			
4			DIMENSION	TOLERANCE					SCALE	1:1			
3		XX.XX	±0.05	DATE					2008/09/03				
2		XX.X	±0.1	REV					F/0				
1		XX	±0.15	FILE NO					91 Series Circuit Breaker			TITLE	SPEC.1
NO	DESCRIPTION	DATE	ANGLE	TOLERANCE					KUOYUH W.L. Enterprise Co.,Ltd.			DRAWING NO	88-XX-P1B14-P00



The time/current characteristic curve depends on the ambient temperature prevailing, In order to eliminate nuisance tripping. Please multiply the current breaker current ratings by the derating factor shown below.

Ambient Temperature	-10°C	0°C	10°C	25°C	40°C	50°C	60°C
Multiplication Factor	1.5	1.4	1.2	1.00	0.85	0.7	0.6



No	Name	Material
1	Case	Phenolic
2	Push Rod	Phenolic
3	Bimetal	EMS, Hood, Sumitomo
4	Terminal	Copper alloys
5	Contact	Ag-CdO
6	Rivet	Aluminum alloy
7	Spring	Stainless
8	Base	Phenolic
9	Mounting Means	Plated metal Type PA-766

5			TOLERANCE		APPROVED	CHECK	DESING	DRAWER	UNIT	mm		
4			DIMENSION	TOLERANCE					SCALE	1:1		
3			XX.XX	±0.05					DATE	2008/09/03		
2			XX.X	±0.1					REV	F/0		
1			XX	±0.15					FILE NO	91 Series Circuit Breaker		TITLE
			ANGLE	TOLERANCE					KUOYUH W.L. Enterprise Co.,Ltd.		DRAWING NO	
			X	±1°								
			X.X	±0.5°								



**QVNU2.E155159
Protectors, Supplementary - Component**

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Protectors, Supplementary - Component

[See General Information for Protectors, Supplementary - Component](#)

KUOYUH W L ENTERPRISE CO LTD
11-6 CI-MAY
TA-MAY TUSUEN
CHYH TORNG HSIANG, YUNLIN HSIEN 647 TAIWAN

E155159

Supplementary protectors

Cat. No.	Type	UG	FW	MaxV	MaxAmps	TC	OL	SC
F66	OC	A	0	125 Vac	0.5 - 5	1	0	200 A,C1
F66	OC	A	0	12 Vdc	0.5 - 5	1	0	200 A,C1
F88	OC	A	0	125 Vac	13 -15	1	1	1.0 kA, C1
88AR	OC	A	0	125 Vac	15	1	0	1.0kA,C1
88AR	OC	A	0	50 Vdc	10	1	0	30 A,C1
88	OC	A	0	250 Vac	20	2	0	1.0kA @ 125 Vac/200 A @ 250 Vac, C1
88	OC	A	0	250 Vac	15	2	1	1.0k A @ 125 V ac/200 A @ 250 V ac, C1
98	OC	A	0	250 Vac	30	2	0	1.0kA @ 125 Vac/200 A @ 250 Vac, C1
91, 91-A	OC	A	0	125/250 Vac	1-10	2	1, 0	1.0kA,C1
91, 91-A	OC	A	0	50 Vdc	1-10	2	0	200A,C1
91L	OC	A	0	125 Vac	5-20	2	1	1.0kA@125Vac, C1

Note: The Models 91-A Series with the plastic material E41938, E I Dupont De Nemours & Co Inc, PBT, Type CE1064 of Basic and Enclosure have tested at 6 times ac rating for motor starting.



Marking: Company name or trademark, catalog designation and electrical ratings.

[Last Updated](#) on 2008-02-13

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**QVNU8.E155159
Protectors, Supplementary Certified for Canada - Component**

[Page Bottom](#)

Protectors, Supplementary Certified for Canada - Component

[See General Information for Protectors, Supplementary Certified for Canada - Component](#)

KUOYUH W L ENTERPRISE CO LTD
11-6 CI-MAY
TA-MAY TUSUEN
CHYH TORNG HSIANG, YUNLIN HSIEN 647 TAIWAN


E155159

Supplementary protectors

Cat. No.	Type	UG	FW	MaxV	MaxAmps	TC	OL	SC
88	OC	A	0	250 Vac	20	2	0	1.0kA @ 125 Vac/200 A @ 250 Vac, C1
88	OC	A	0	250 Vac	15	2	1	1.0k A @ 125 V ac/200 A @ 250 V ac, C1
98	OC	A	0	250 Vac	30	2	0	1.0kA @ 125 Vac/200 A @ 250 Vac, C1
91, 91-A	OC	A	0	125/250 Vac	1-10	2	1, 0	1.0kA,C1
91, 91-A	OC	A	0	50 Vdc	1-10	2	0	200A,C1
91L	OC	A	0	125 Vac	5-20	2	1	1.0kA@125Vac, C1

Note: The Models 91-A Series with the plastic material E41938, E I Dupont De Nemours & Co Inc, PBT, Type CE1064 of Basic and Enclosure have tested at 6 times ac rating for motor starting.



Marking: Company name, catalog designation and the Recognized Component Mark for Canada, .
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Zertifikat Certificate



Zertifikat Nr. Certificate No. R 72070120
Blatt Page 0001

Ihr Zeichen Client Reference Hunter Huang
Unser Zeichen Our Reference -UM- 30780096 001
Ausstellungsdatum Date of Issue 22.03.2007 (day/mo/yr)

Genehmigungsinhaber License Holder
KUOYUH W L ENTERPRISE CO LTD
11-6 CI-MAY, TA-MAY TUSUEN
647 CHYH TORNG HSIANG, YUNLIN HSIEN
Taiwan - R.O.C.

Fertigungsstätte Manufacturing Plant
KUOYUH W L ENTERPRISE CO LTD
11-6 CI-MAY, TA-MAY TUSUEN
647 CHYH TORNG HSIANG, YUNLIN HSIEN
Taiwan - R.O.C.

Prüfzeichen Test Mark



Geprüft nach Tested acc. to
EN 60934:2001

Zertifiziertes Produkt (Geräteidentifikation) Certified Product (Product Identification)
Lizenzentgelte - Einheit License Fee - Unit

Short Circuit Device Circuit Breaker, Secondary Protector

Model Designation: 1) 91L , 2) 91, 3) 88, 4) 98 7

Rated Voltage: 1), 2) AC 125/250V, 50/60Hz; DC 50V
3), 4) AC 125/250V, 50/60Hz; DC 32V

Rated Current: 1), 3) 20A, 2) 10A, 4) 30A

Protection Class: I

Special Remarks: Devices are not suitable for branch circuit protection, only supplementary but not circuit protectors.

7



ANLAGE (Appendix): 1

Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde.
Das Produkt entspricht den o.g. Anforderungen, die Herstellung wird überwacht.
This certificate is based on our Testing and Certification Regulation. The product fulfills above mentioned requirements, the production is subject to surveillance.

Zertifizierungsstelle

TÜV Rheinland Product Safety GmbH, Am Grauen Stein, D-51105 Köln
Tel.: (+49/221)8 06 - 13 71 e-mail: cert-validity@de.tuv.com
Fax: (+49/221)8 06 - 39 35 http://www.tuv.com/safety

Dipl.-Ing. M. Raap

ZEICHENGENEHMIGUNG MARKS LICENCE

Kuoyuh W. L. Enterprise
Co., Ltd.
11-6 Hsi Mei Rd.,
Ta Mei Village
647 Tus Tang Hsiang Yunlin Hsien
TAIWAN

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

Geräteschutzschalter
Circuit breaker for equipment
88, 98

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 60934 (VDE 0642):2001-12; EN 60934:2001

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

Aktenzeichen: 5003426-4403-0001 / 43070

File ref.:

Ausweis-Nr. 40010769

Blatt 1

Licence No.

Page

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

Offenbach, 2004-06-28

VDE Prüf- und Zertifizierungsinstitut Zeichengenehmigung

Ausweis-Nr. / Blatt /
Licence No. page
40010769 2

Name und Sitz des Genehmigungs-Inhabers / Name and registered seat of the Licence holder
Kuoyuh W. L. Enterprise Co., Ltd., 11-6 Hsi Mei Rd. Ta Mei Village, 647 Tus Tang Hsiang Yunlin
Hsien, TAIWAN

Aktenzeichen / File ref.
5003426-4403-0001 / 43070 / FG32 / HAM

Datum / Date
2004-06-28

Dieses Blatt gilt nur in Verbindung mit Blatt 1 des Zeichengenehmigungsausweises Nr. 40010769.
This supplement is only valid in conjunction with page 1 of the Licence No. 40010769.

Geräteschutzschalter Circuit breaker for equipment 88, 98

Typ(en) / Type(s):

88
98

Bemessungsbetriebsspannung <i>Rated operational voltage</i>	AC 125-250 V; DC 32 V
Bemessungsstrom <i>Rated current</i>	3 A bis/to 16 A induktive Stromkreise/inductive circuits
Elektrische Lebensdauer <i>Electrical endurance</i>	50 Schaltspiele / cycles
Bemessungsschaltvermögen <i>Rated making and breaking capacity</i>	AC 96 A DC 64 A
Bemessungsfrequenz <i>Rated frequency</i>	50/60 Hz
Bemessungsisolationsspannung <i>Rated insulation voltage</i>	250 V
Polzahl <i>Number of poles</i>	einpolig/single pole
Auslöseart <i>Mode of tripping</i>	TO
Grad der Auslösung <i>Degree of trip-free behaviour</i>	Freiauslösung (positiv) <i>positively trip free</i>
Betätigungsart <i>Method of operation</i>	Typ/type "R"

Fortsetzung siehe Blatt 3 /
continued on page 3

VDE Testing and Certification Institute * Institut VDE d'Essais et de Certification

Merianstrasse 28, D-63069 Offenbach

Phone +49 (0) 69 83 06-0
Telefax +49 (0) 69 83 06-555



VDE Prüf- und Zertifizierungsinstitut Zeichengenehmigung

Ausweis-Nr. / Blatt /
Licence No. / page
40010769 3

Name und Sitz des Genehmigungs-Inhabers / *Name and registered seat of the Licence holder*
Kuoyuh W. L. Enterprise Co., Ltd., 11-6 Hsi Mei Rd. Ta Mei Village, 647 Tus Tang Hsiang Yunlin
Hsien, TAIWAN

Aktenzeichen / *File ref.*
5003426-4403-0001 / 43070 / FG32 / HAM

Datum / *Date*
2004-06-28

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This supplement is only valid in conjunction with page 1 of the Licence No. 40010769.

Verschmutzungsgrad <i>Degree of pollution</i>	2
Überspannungskategorie <i>Overvoltage category</i>	II
Befestigungsart <i>Method of mounting</i>	Einbautyp <i>flush type</i>
Schutzklasse <i>Class</i>	I II (zum Bedienteil) I II (<i>to the operating mean</i>)
Umgebungstemperatur <i>Ambient temperature</i>	-5°C / +40°C

Dieser Zeichengenehmigungs-Ausweis bildet die Grundlage für die EG-Konformitätserklärung und CE-Kennzeichnung durch den Hersteller oder dessen Bevollmächtigten und bescheinigt die Konformität mit den genannten Normen im Sinne der **EG-Niederspannungsrichtlinie 73/23/EWG** mit ihren Änderungen.

This Marks Licence is the basis for the EC Declaration of Conformity and the CE Marking by the manufacturer or his agent and shows the conformity with the said standards as defined by the EC Low-Voltage Directive 73/23/EEC including amendments.

VDE Prüf- und Zertifizierungsinstitut
VDE Testing and Certification Institute
Fachgebiet FG32
Section FG32

Bmh

is. A. Franke



VDE Prüf- und Zertifizierungsinstitut Zeichengenehmigung

Ausweis-Nr. / Beiblatt /
Licence No. / Supplement
40010769

Name und Sitz des Genehmigungs-Inhabers / Name and registered seat of the Licence holder

Kuoyuh W. L. Enterprise Co., Ltd., 11-6 Hsi Mei Rd. Ta Mei Village, 647 Tus Tang Hsiang Yunlin Hsien, TAIWAN

Aktenzeichen / File ref.

5003426-4403-0001 / 43070 / FG32 / HAM

Datum / Date

2004-06-28

Dieses Beiblatt ist Bestandteil des Zeichengenehmigungsausweises Nr. 40010769.
This supplement is part of the Licence No. 40010769.

Geräteschutzschalter
Circuit breaker for equipment
88, 98

Fertigungsstätte(n)
Place(s) of manufacture

Referenz/Reference
30015525

Kuoyuh W. L. Enterprise
Co., Ltd.
11-6 Hsi Mei Rd.,
Ta Mei Village
647 Tus Tang Hsiang Yunlin Hsien
TAIWAN

Referenz/Reference
30015527

Kuo Cheng Electronic
Co., Ltd.
4/F A2011 Bao Tang Industry
Zone TangWoei Tusuer
GuoMing BaoAn, Shenzhen
CHINA

VDE Prüf- und Zertifizierungsinstitut
VDE Testing and Certification Institute
Fachgebiet FG32
Section FG32

Bmh

I. A. Frad





Certificate of Compliance

Certificate: 1172856 (LR 102199-5)

Master Contract: 184666

Project: 1749509

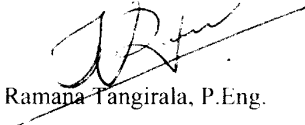
Date Issued: 2006/01/13

Issued to: Kuo Yuh Enterprise Co.

No 11-6 Shi Mei
Ta Mei Village
Chyh Tong Hsiang
Yun Lin Hsien,
Taiwan
Attention: Mr. Hunter Huang

The products listed below are eligible to bear the CSA Mark shown with adjacent indicator ▲



Issued by: 
Ramana Tangirala, P.Eng.

Authorized by: Nick Alfano, Operations
Manager



PRODUCTS

CLASS 3215 30 - SUPPLEMENTARY PROTECTORS - COMPONENT ACCEPTANCE PROGRAM

Supplementary Protector, thermal trip, manual reset, without manual switching feature:

· Series 88, rated 15A, 125V ac and 10A, 125V ac/50V dc:

Application Codes: TC2, OL0, SC: C1, 1kA, 125V ac and SC: C1, 0.03 kA, 50V dc (4In Series fuse)