MIRO Fuse

Low-Voltage Cylindrical Fuse Carriers (Fuse Holders)

These fuse holders for fuse sizes 10 x 38mm to 22 x 58mm. They are suitable of working under heat caused by rated current and expected short impacting current up to 100KA. It can also function as a fuse disconnecting switch by multi-phase combination.

The RT18(X) is equipped with an Blow-out indicator, which goes on when the fuse link breaks.

The RT18L type has a safety lock to lock the fuse carrier when disconnected to avoid wrong operation; it can also be equipped with an indicator, which goes on when the fuse link breaks.

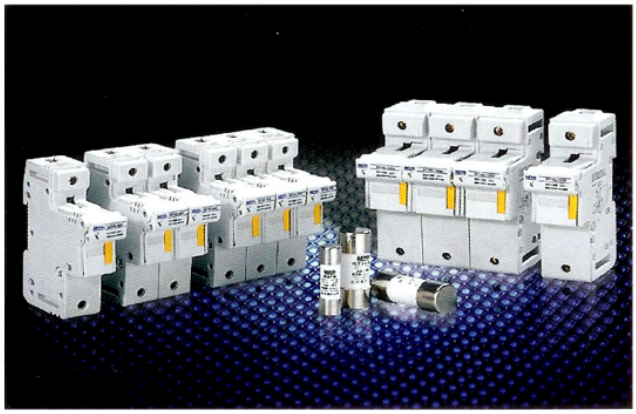
Rated insulate voltage up to 500V
Working frequency 50Hz AC
Rated current up to 125A

Compliant to **IEC 269, GB13539**
Approval : CE, SEMKO, UL
UL Certification No. : E238958 for RT18(X)

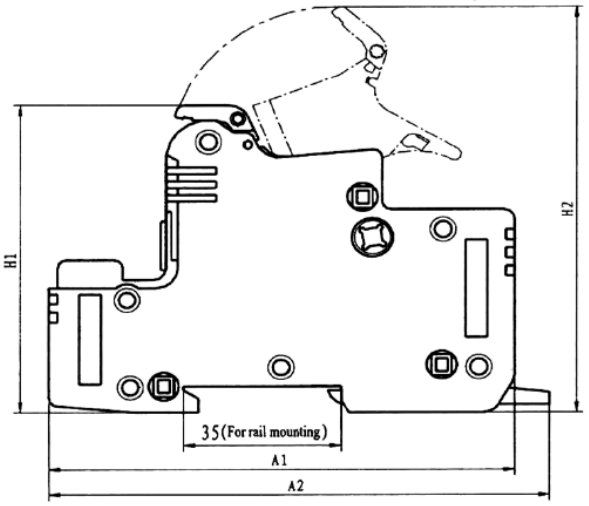
SEMKO (sweden)

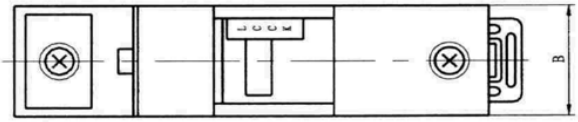
Fuse Carrier (Fuse Holders)

RT 18C , RT 18(X) - 32A



RT 18L - 125A





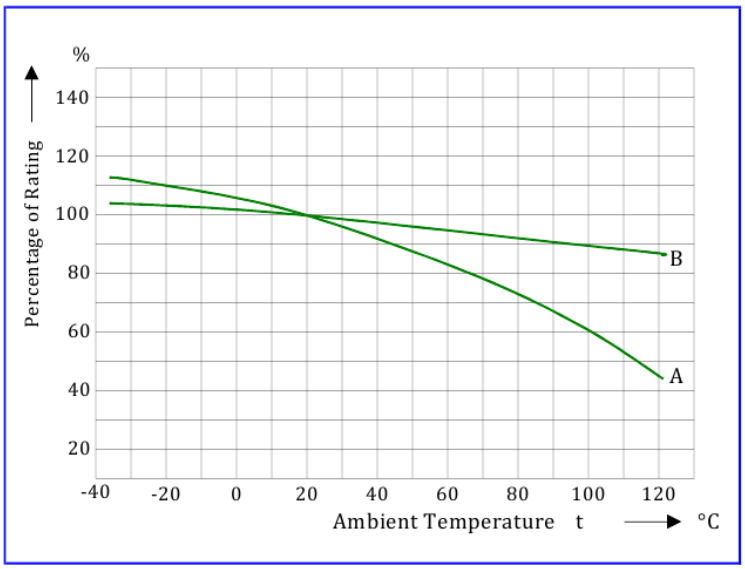
Model	Dimensions (mm)				
	A1	A2	H1	H2	B
RT 18C	77	78	62	81	18
RT 18(X)	79	81	61	80	18
RT 18L	126	134	78	104	36

Low-Voltage Cylindrical Fuse Links

Ambient temperature means the air temperature directly around the fuse, and should not be understood as the room temperature. In many application cases, the fuses are at rather high temperature as they are installed with supporting devices or bases in different structures and they are closed in the distributing or controlling boxes.

We recommend that the actual working current of a fuse should not exceed its rated current under the ambient temperature of 20°C. While selecting the fuses, environment and working conditions should be considered, such as the variation of situation of closing, air flow, wire sizes (length and section) and instantaneous peak value etc. The current load capability of fuse links are tested under the ambient temperature of 20°C, however the actual load capability is affected by the ambient temperature. The higher the ambient temperature, the higher the working temperature and the shorter the service life of a fuse will be. On the other hand, the service life of a fuse can be longer when working under a lower ambient temperature.

The following is the typical curve showing the affection to the current load capability by the ambient temperature.



Ambient Temperature - Load Capacity Curve

e.g. When gG type fuse of 63A rating is used under ambient temperature of 20°C, reduction in working current is necessary when the ambient temperature is changed to 70°C. The Ambient Temperature - Load Capacity Curve A shows that the rating should be 78% at 70°C, and the new rating should be determined as:

$$I'_N = \frac{63A}{0.78} = 80.77A$$

So fuse links of 80A rating should be selected for the new ambient temperature.

Note: A: (gG) type for line protection;
B: (aR) type for semi-conductor protection.

♦ **Applications**

Protection against overload and short circuit in electric lines (type gG), also available for protection of semiconductor parts and equipment against short-circuit (type aR) and protection of motors (type aM).

Rated voltage up to 500V
Rated current up to 125A
Working frequency 50Hz AC
Rated breaking capacity up to 100KA

Model	Fuse Link Size (mm)	Rated Voltage (V)	Rated Current (A)
R 015	Ø 10 x 38	*500*	*32*
R 017	Ø 22 x 58	*500*	*125*

C E R T I F I C A T E

TÜVRheinland®

of Conformity
Low Voltage Directive 2006/95/EC

Registration No.: AN 50283214 0001

Report No.: 14704253 003

Holder:
ZHEJIANG MINGRONG ELECTRICAL PROTECTION CO., LTD.
Wei IIth Road
Economic Developing Zone
Yueqing, Zhejiang 325600
P.R. China

Product:
Fuse
(Low-voltage Fuse)

Identification:
Fuse-link
RT18-32(RO15) (MRO)
Fuse-base
RT18-32(RO15) RT18M-32 RT18-32X RT18M-32X (MRO)
Serial No.: n.a.
Remark: Issued in conjunction with TÜV Rheinland license R 50168274 0001-0003.

This certificate of conformity is based on an evaluation of a sample of the above mentioned product. Technical Report and documentation are at the Licence Holder's disposal. This is to certify that the tested sample is in conformity with all revision of Annex I of Council Directive 2006/95/EC, in its latest amended version, referred to as the Low Voltage Directive. This certificate does not imply assessment of the series-production of the product and does not permit the use of a TÜV Rheinland mark of conformity. The holder of the certificate is authorized to use this certificate in connection with the EC declaration of conformity according to Annex III of the Directive.

Certification Body

TÜVRheinland LGA Products GmbH Zertifizierungsstelle TÜVRheinland

James Li

Date 19.05.2014

TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg

CE The CE marking may be used if all relevant and effective EC Directives are complied with. CE

Zertifikat *Certificate*

Zertifikat Nr. *Certificate No.* R 50168274

Blatt *Page* 0003

Ihr Zeichen *Client Reference*	Unser Zeichen *Our Reference*	Ausstellungsdatum *Date of Issue (day/mo/yr)*
C.S.P.	ZC10-WCJ- 14704253 003	19.05.2014

Genehmigungsinhaber *License Holder*
ZHEJIANG MINGRONG ELECTRICAL
PROTECTION CO., LTD.
Wei 11th Road
Economic Developing Zone
Yueqing, Zhejiang 325600
P.R. China

Fertigungsstätte Manufacturing Plant
ZHEJIANG MINGRONG ELECTRICAL
PROTECTION CO., LTD.
Wei 11th Road
Economic Developing Zone
Yueqing, Zhejiang 325600
P.R. China

Prüfzeichen *Test Mark*

TÜVRheinland CERTIFIED
Type Approved
Safety
Regular Production
Surveillance
www.tuv.com
ID 2000000000

Geprüft nach *Tested acc. to*
EN 60269-1:2007+A1
HD 60269-2:2010

Zertifiziertes Produkt (Geräteidentifikation) *Certified Product (Product Identification)*

Lizenzentgelte - Einheit *License Fee - Unit*

Fuse (Low-voltage Fuse)

as page 0001-0002

Addition

Fuse-base
Type Designation : RT18M-32 RT18-32X RT18M-32X 4
(MRO)

Remark: Appendix 1 issued on 31/05/2010 was replaced by
Appendix 1 issued on 16/05/2014.

The labelling requirements acc. to EU Directive 2001/95
have to be observed for distribution within the EEA.

4

Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde und es bestätigt die Konformität des Produktes mit den oben genannten Standards und Prüfgrundlagen. Zusätzliche Anforderungen in Ländern, in denen das Produkt in Verkehr gebracht werden soll, müssen zusätzlich betrachtet werden. Die Herstellung des zertifizierten Produktes wird überwacht.
This certificate is based on our Testing and Certification Regulation and states the conformity of the product with the standards and testing requirements as indicated above. Any additional requirements in countries where the product is going to be marketed have to be considered additionally. The manufacturing of the certified product is subject to surveillance.

Zertifizierungsstelle

James Li

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ASTA ELECTRICAL (S) PTE LTD

Friday, 2 October, 2015

Amega Energy Pte Ltd
3018 Bedok North Street 5
Eastlink #06-40
Singapore 486132

Attn: Mr. Nio

Subject: Project references for MIRO fuses

Thank you for your continual support for our products.
Please see below project references of our MIRO Fuses for your perusal.

Downtown Line (DTL)
Marina Bay Financial Center (MBFC)
Khoo Teck Puat Hospital
Resort World Sentosa (RWS)
Changi Airport T3
Mediacorp (Mediapolis@one-north Buona Vista)
Singapore Sports Hub
Marina Coastal Expressway (MCE)
Housing Development Board (HDB)

If you have any further questions, please feel free to contact us.

Thank you

Regards

Michael Lim

Sales Manager
Mobile: 96744557