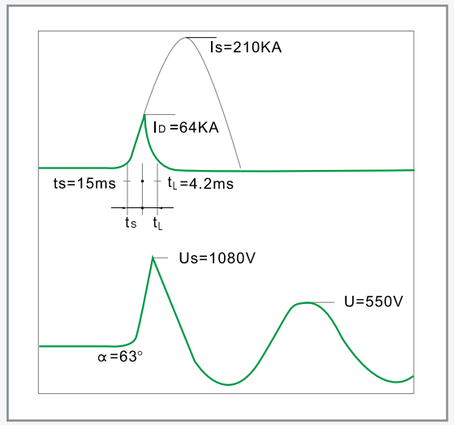
Rated Breaking Capacity

Rated breaking capacity is the maximum short-circuit current allowed for the fuse link to cutout reliably under rated voltage. The instantaneous current loaded to the fuse link is much larger than the normal working current when short-circuit occurs. The fuse link is supprted to cutout the line in an undamaged condition i.e. without bursting. The rated breaking capacity of MIRO fuses is up to 120ka and the excellent current limiting characteristics reliably protect the equipment form damages by electric power.



Wave curve of current limiting characteristics of fuse link
Where: Is-peak value of maximum asymmetric current
at 100KA perspective current Ip (The impulse factor of a short circuit should be 1.5).
I_D- the actual current at breaking (limiting current)
Us-Arc voltage
U- Voltage
t_S- meltig time
t_L- Arcing time
¡- Burning corner of arc after zero voltage.

Fuse Supporter (Fuse Base)

In many application cases, fuse links are installed on fuse supporters/fuse bases. They are not to be used as switches for connection and disconnection of the load.

Factors To Be Considered For Selection Of Fuses

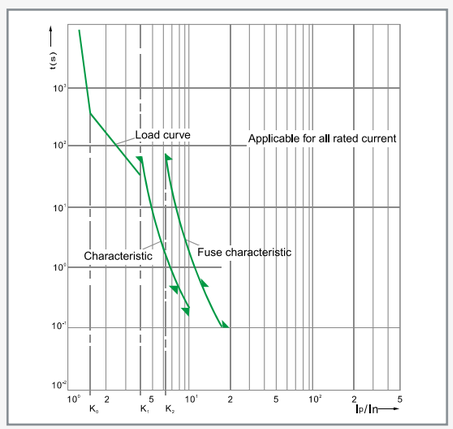
1. normal working current
2. working voltage
3. ambient temperature
4. overload current and cutout time
5. possible malfunction current
6. impulse current, surge current, starting current and transient value of the line
7. size and dimensions, connection methods, indicators, etc.

Threshold Values Of aM Fuses

Gate limit of "aM" type fuse links:

Ip(In)		4	6.3	8	10	12.5	19
t Fuse ≤	(s)	-	60	-	-	0.5	0.10
t Before arc ≥	(s)	60	-	0.5	0.2	-	-

Note: Ip-Perspective current
In-Rate current of fuse link

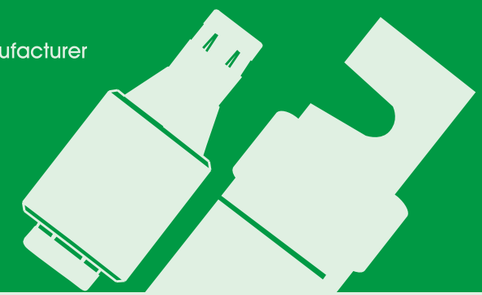


"(aM)" Time of fuse links ------Current strip

Low Voltage Fuse

Professional High Voltage And Low Voltage Fuse Manufacturer

Fuse Links



Cylindrical Fuse Links

▶ Applications

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

Rated voltage up to 660V; Rated current up to 125A; Working frequency 50Hz AC; Rated breaking capacity up to 100KA. Compliant with GB13539 and IEC269.

▶ Design Features

Variable cross-section fuse element made from pure metal sealed in cartridge made from high-duty ceramic or epoxy glass. Fuse tube filled with chemically treated high-purity quartz sand as arc-extinguishing medium. Dot-welding of fuse element ends to the caps ensures reliable electric connection; Striker may be attached to the fuse link to provide immediate activation of micro- switch to give various signals or cut the circuit automatically.

Special fuse as per Figure 1.2~1.4 can be supplied according to customers requirements.

▶ Basic Data

The models, dimensions, ratings are shown in Figures 1.1~1.4 and Table 1 .

PROFESSIONAL HIGH VOLTAGE AND LOW VOLTAGE FUSE MANUFACTURER.....

Low-Voltage Fuses
Fuse links

Table 1

Cat. No.	Models MIRO gG(Normal)	aR(Fast)	Cross-reference gG(Normal)	aR(Fast)	Dimensions/sizes (mm) Fig.	ϕD × L	Rated voltage (V)	Rated current (A)	Weight (g)
0101	RO06	RS06	-	-	1.1	ϕ12.7 × 29	250/380	1~32	6.5
0102	RO07	RS07	-	-	1.1	ϕ30 × 57	600	10~100	75
0103	RO09	RS09	-	-	1.1	ϕ18 × 37	500	2~63	17.4
0104	RO10	RS10	-	-	1.1	ϕ18 × 50	500	2~63	23.5
0105	RO11	RS11	AJT JKS LPJ	ACL	1.1	ϕ21 × 58	600	2~32	51.5
0106	RO12	RS12	AJT JKS LPJ	ACL	1.1	ϕ27 × 60	600	35~100	90
0107	RO13	RS13	-	-	1.1	ϕ15 × 50	500	2~40	23.2
0108	RO14	RS14	RT19-16 gF1	-	1.1	ϕ8.5 × 31.5	500	0.5~20	4.4
0109	RO14A	RS14A	-	-	1.1	ϕ8.5 × 23	250	0.5~20	3.5
0110	RO14B	RS14B	-	-	1.1	ϕ8.5 × 36	380/500	0.5~20	5.0
0111	RO15	RS15	RT14-20 gF2 RT18-32 RT19-25	KTK KLM	1.1	ϕ10.3 × 38	500/690	0.5~32	7.7
0112	RO15A	RS15A	-	-	1.1	ϕ10.3 × 25.8	250	0.5~16	4.8
0113	RO15B	RS15B	-	-	1.1	ϕ10.3 × 31.5	250/500	0.5~25	5.8
0114	RO15C	RS15C	-	-	1.1	ϕ10.3 × 34	380/500	0.5~32	6.2
0115	RO15D	RS15D	-	-	1.1	ϕ10.3 × 57	600	2~32	11
0116	RO16	RS16	RT14-32 gF3 RT18-63 RT19-40	FWP	1.1	ϕ14.3 × 51	500/690	2~50	20.5
0117	RO16A	RS16A	-	-	1.1	ϕ14.3 × 38	500	2~50	15.6
0118	RO16B	RS16B	-	-	1.1	ϕ14.3 × 45	500	2~50	18.5
0119	RO16C	RS16C	-	-	1.1	ϕ14.3 × 67	500	2~50	27.5
0120	RO17	RS17	RT14-63 gF4 RT18-125 RT19-100	URE2263	1.1	ϕ22.2 × 58	500/690	10~125	58
0121	RO18	RS18	-	-	1.1	ϕ9.6 × 30	380	0.5~25	4.8
0122	RO19	RS19	-	-	1.1	ϕ20.5 × 127	600	0.5~32	91.2
0123	RO19A	RS19A	-	-	1.1	ϕ20.5 × 76	250/500	0.5~63	63
0124	RO19B	RS19B	-	-	1.1	ϕ20.5 × 114	600	0.5~32	85
0125	RO19C	RS19C	-	-	1.1	ϕ27 × 139	600	32~63	172.4
0126	RO19D	RS19D	-	-	1.1	ϕ27 × 147	600	32~63	160
0127	RO54	RS54	-	-	1.1	ϕ5 × 20	250	0.5~16	1
0128	RO55	RS55	-	-	1.1	ϕ5 × 25	250	0.5~16	1.3
0129	RO56	RS56	-	-	1.1	ϕ6 × 20	250	0.5~16	1.7
0130	RO57	RS57	-	-	1.1	ϕ6.3 × 25	250	0.5~16	2.1
0131	RO58	RS58	-	-	1.1	ϕ6.3 × 31.5	250/500	0.5~16	2.5

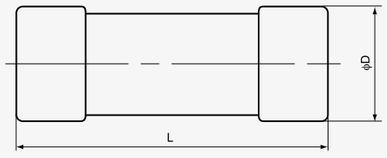


Fig 1.1

Table 1 (Cont.)

Cat. No.	Models MIRO gG(Normal)	aR(Fast)	Cross-reference gG(Normal)	aR(Fast)	Dimensions/sizes (mm) Fig.	ϕD × L	Rated voltage (V)	Rated current (A)	Weight (g)
0132	RO08	RS08	-	JJS	1.2	ϕ20.5 × 40	600	2~63	40

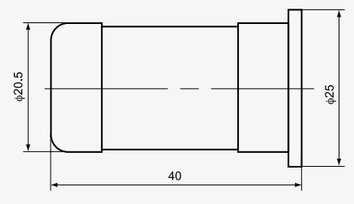


Fig 1.2

Table 1 (Cont.)

Cat. No.	Models MIRO gG(Normal)	aR(Fast)	Cross-reference gG(Normal)	aR(Fast)	Dimensions/sizes (mm) Fig.	ϕD × L	Rated voltage (V)	Rated current (A)	Weight (g)
0133	RO15T	RS15T	ATQR	KTK KLKR	1.3	ϕ10.3 × 38	380/500	0.5~32	7.5

Figure 1.3

Table 1 (Cont.)

Cat. No.	Models MIRO gG(Normal)	aR(Fast)	Cross-reference gG(Normal)	aR(Fast)	Dimensions/sizes (mm) Fig.	ϕD × L	Rated voltage (V)	Rated current (A)	Weight (g)
0134	RO16H	RS16H	FRN-R	-	1.4	ϕ14.3 × 51	250	0.5~32	25
0135	RO17H	RS17H	-	-	1.4	ϕ22.2 × 58	380/500	10~125	52
0136	RO19H	RS19H	FRS-R	-	1.4	ϕ20.5 × 127	600	0.5~32	82
0137	RO19AH	RS19AH	FLNR	-	1.4	ϕ20.5 × 76	250/500	0.5~63	60
0138	RO19BH	RS19BH	-	-	1.4	ϕ20.5 × 114	600	0.5~32	72
0139	RO19CH	RS19CH	FRS-R	-	1.4	ϕ27 × 139	600	35~63	148
0140	RO19DH	RS19DH	-	-	1.4	ϕ27 × 147	600	35~63	172

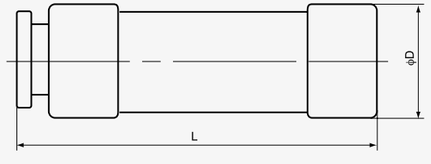


Figure 1.4

PROFESSIONAL HIGH VOLTAGE AND LOW VOLTAGE FUSE MANUFACTURER.....

Low-Voltage Fuses
Fuse links

Characteristics Curve