

AMP-TRAP®

A70QS FRENCH CYLINDRICAL SEMICONDUCTOR PROTECTION FUSES



These Premium Amp-trap® French Cylindrical Semiconductor Fuses are an extension of the popular A70QS product line. They are solid-fill Ø 14mm and 22mm fuses, IEC rated 690VAC, 200kA Interrupting and 700VDC, 100kA interrupting at 10ms time constant. In addition, these fuses have an 890 VDC rating for capacitor discharge applications up to 2.5ms time constant. All ampere ratings are available with a striker. Applications include small inverter drives and UPS systems, with superior I²t for improved protection and performance.

Features/Benefits

- **International 14x51mm (2"x9/16") and 22x58mm (2-1/4"x13/16") sizes** for worldwide acceptance
- **Ferrule mount** up to 100A for design versatility
- **Very low I²t** for improved semiconductor protection
- **690V IEC rated**, tested at 760VAC; can be used up to 750VAC in U.S.
- **700VDC rated** for dc protection of equipment with L/R ≤ 10ms/c
- **Superior cycling ability** for longer life on difficult cyclic loading applications
- **aR characteristic** for semiconductor short-circuit protection

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HIGHLIGHTS:

- 14 x 51 and 22 x 58 sizes
- 690VAC IEC Rated (760VAC Max.)
- 700VDC rated
- Superior Cycling Ability
- Low Watts Loss
- Optional Striker for Visual/Remote Indication

APPLICATIONS:

- Small inverters, UPS systems, motor drives and similar 700V or less equipment

Ratings

- **AC:** 10-100A
690VAC, 200kA I.R.
IEC tested at 760VAC
- **DC:** 700VDC,
100kA I.R. L/R=10ms
890VDC, 127kA I.R.
L/R=2.5ms

Approvals

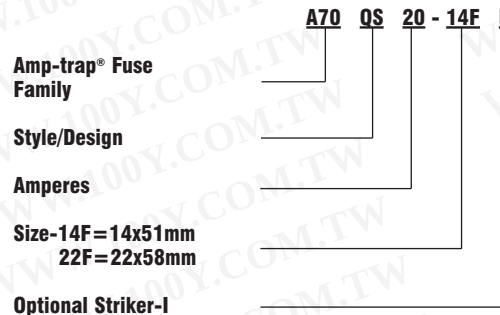
- UL Recognized Component
- CSA Certified
- IEC 269-4 Compliance



Mounting:

- SCFH14 or SCFH22 "finger-safe" IP 20 grade holders, DIN rail or screw mount, with striker actuated microswitch indication available.
- 703 Series open fuse blocks

Catalog Numbering System



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勝特力材料 886-3-5753170

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Http://www.100y.com.tw

Ferraz
Shawmut

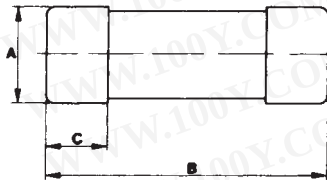
Ratings and Application Data

BODY SIZE (mm)	AMP RATING (A)	AC I ² t			DC I ² t	WATTS LOSS @RATED CURRENT (W)	CATALOG NUMBER	
		MAX. CLEARING @ 700V AC			CLEARING			
		MELTING (A ² s x 10 ³)	1 FUSE (A ² s x 10 ³)	2 IN SERIES (A ² s x 10 ³)	@ 700VDC* (A ² s x 10 ³)			
14 x 51	10	0.012	0.049	0.026	0.047	1.5	A70QS10-14F	A70QS10-14FI
	12	0.020	0.069	0.036	0.068	1.7	A70QS12-14F	A70QS12-14FI
	16	0.033	0.130	0.068	0.120	2.3	A70QS16-14F	A70QS16-14FI
	20	0.049	0.190	0.099	0.190	2.9	A70QS20-14F	A70QS20-14FI
	25	0.080	0.310	0.160	0.310	3.9	A70QS25-14F	A70QS25-14FI
	32	0.130	0.510	0.270	0.510	5.2	A70QS32-14F	A70QS32-14FI
	40	0.200	0.810	0.420	0.790	6.8	A70QS40-14F	A70QS40-14FI
	50	0.320	1.300	0.680	1.300	9.0	A70QS50-14F	A70QS50-14FI
22 x 58	20	0.069	0.250	0.130	0.210	2.8	A70QS20-22F	A70QS20-22FI
	25	0.110	0.390	0.200	0.320	3.6	A70QS25-22F	A70QS25-22FI
	32	0.160	0.660	0.340	0.550	4.7	A70QS32-22F	A70QS32-22FI
	40	0.280	1.100	0.570	0.880	6.0	A70QS40-22F	A70QS40-22FI
	50	0.420	1.700	0.880	1.400	7.4	A70QS50-22F	A70QS50-22FI
	63	0.650	2.700	1.400	2.300	10.0	A70QS63-22F	A70QS63-22FI
	80	1.100	4.600	2.400	3.800	12.8	A70QS80-22F	A70QS80-22FI
	100	1.700	7.300	3.800	6.000	14.4	A70QS100-22F	A70QS100-22FI

*100kA, L/R = 11.6ms

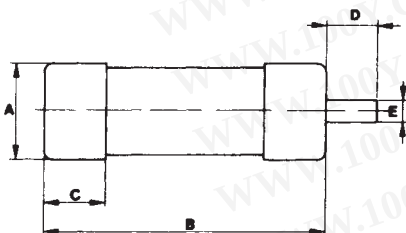
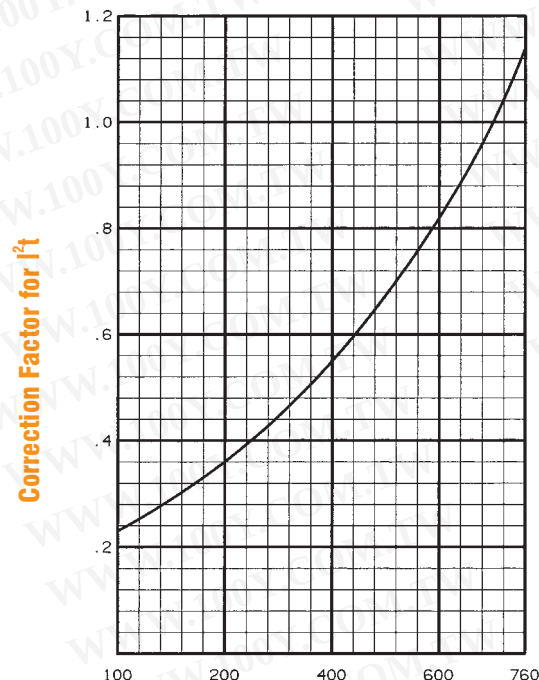
No Striker

FUSE SIZE	DIMENSIONS-mm		
	A	B	C
14 x 51	14	51	14
22 x 58	22	58	16



With Striker

FUSE SIZE	DIMENSIONS-mm				
	A	B	C	D	E
14 x 51	14	51	14	7.5	3.8
22 x 58	22	58	16	7.5	3.8

Clearing I²t vs. AC Operating Voltage
A70QS (Ampere Rating)-14F,14FI,22F,22FI

Working Voltage (AC RMS Volts)

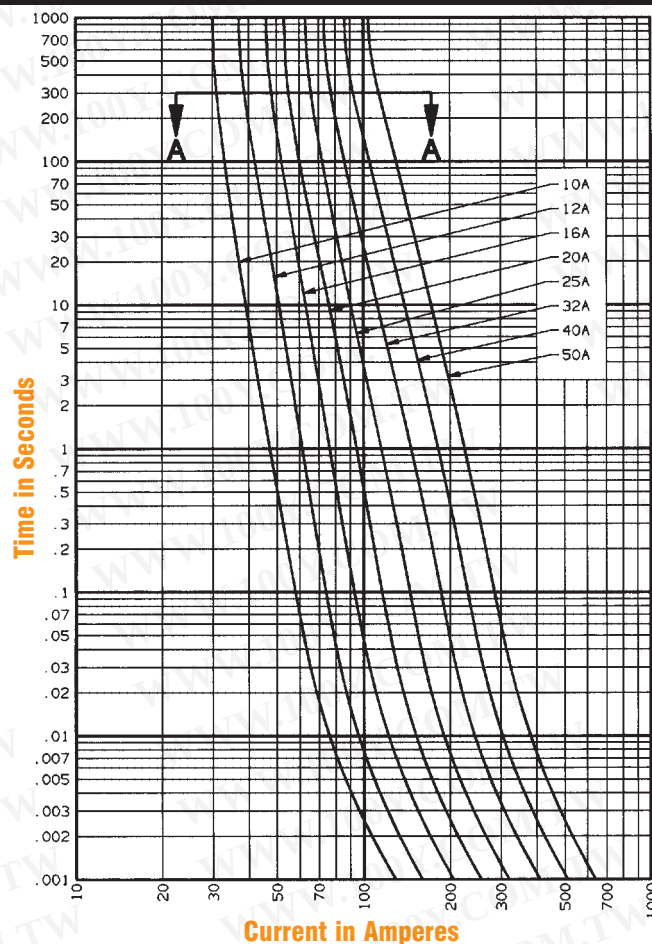
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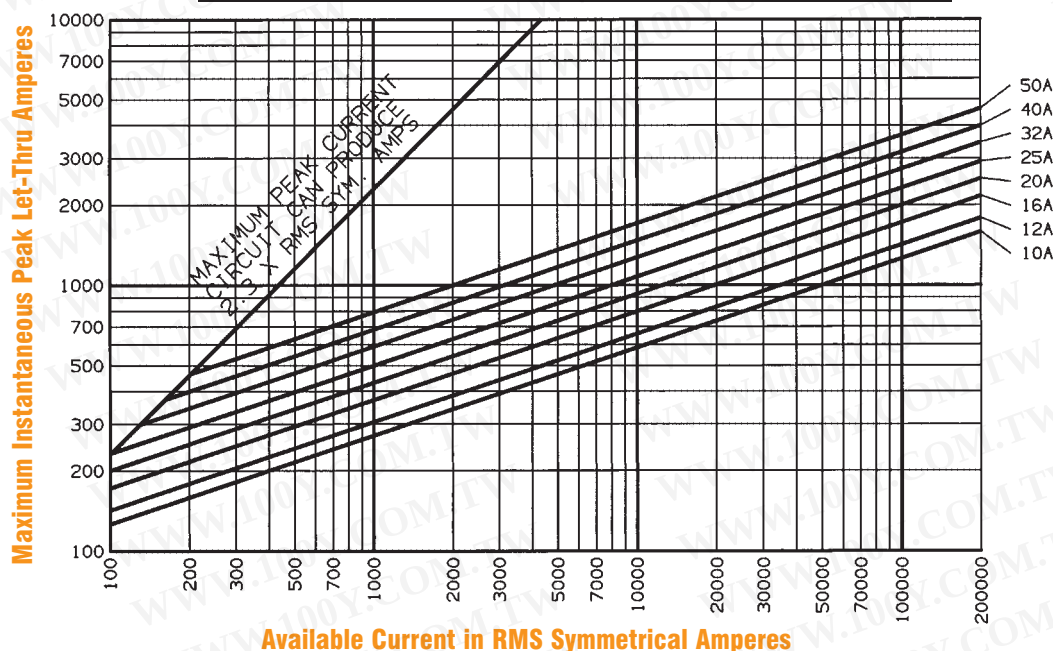
Melting Time - Current Data, A70QS (Amp Rating)-14F,14FI



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Peak Let-Through Current Data – A70QS (Amp Rating)-14F,14FI



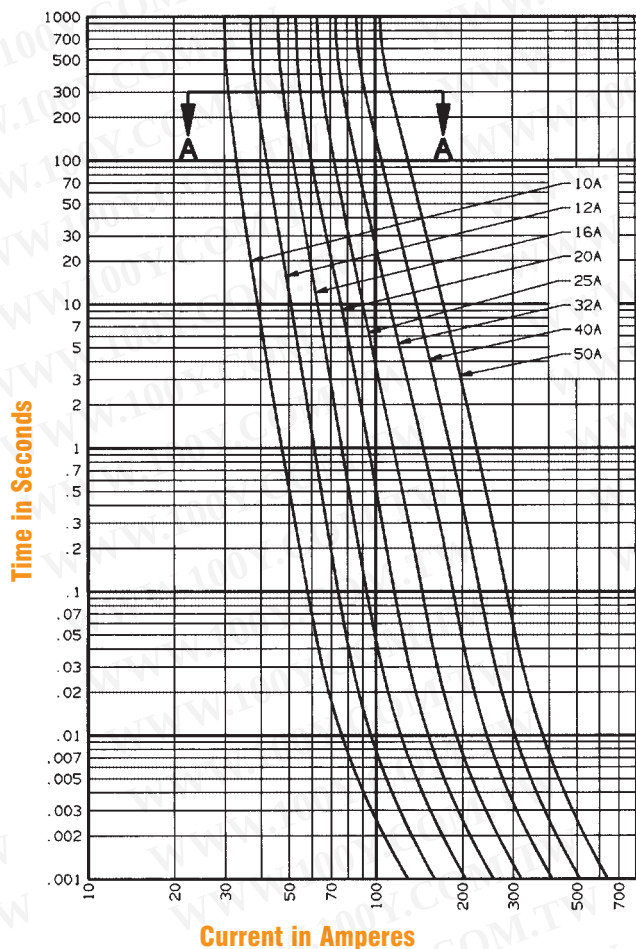
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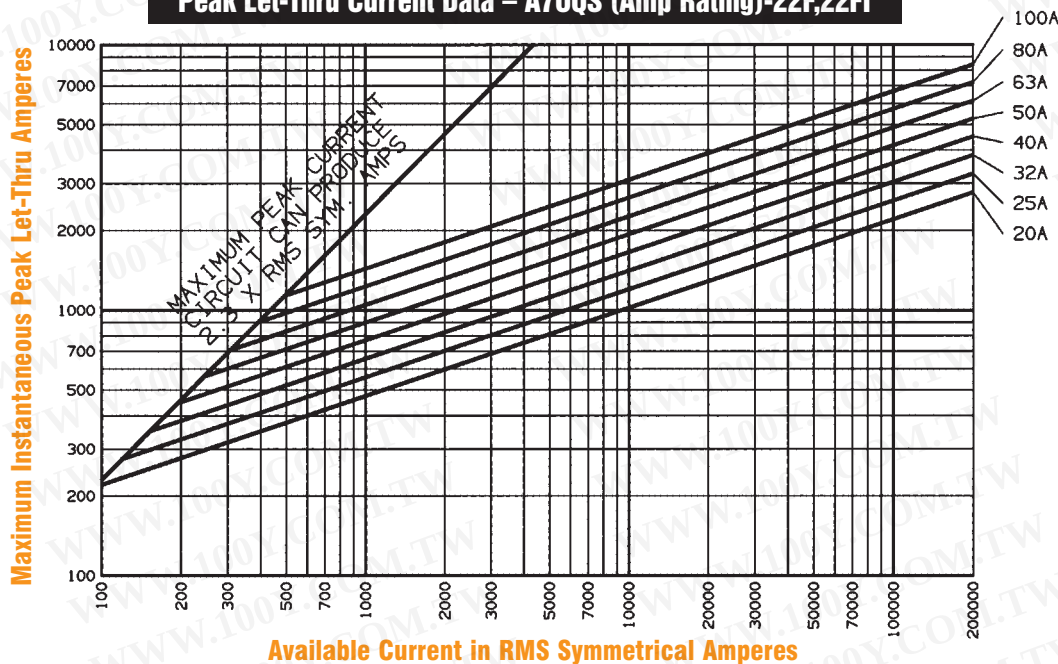
FRENCH CYLINDRICAL SEMICONDUCTOR PROTECTION FUSES

Melting Time - Current Data, A70QS (Amp Rating)-22F,22FI



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Peak Let-Thru Current Data – A70QS (Amp Rating)-22F,22FI



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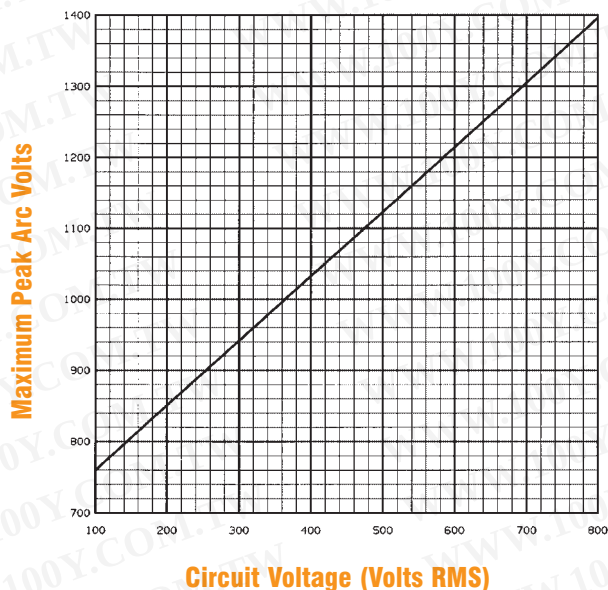
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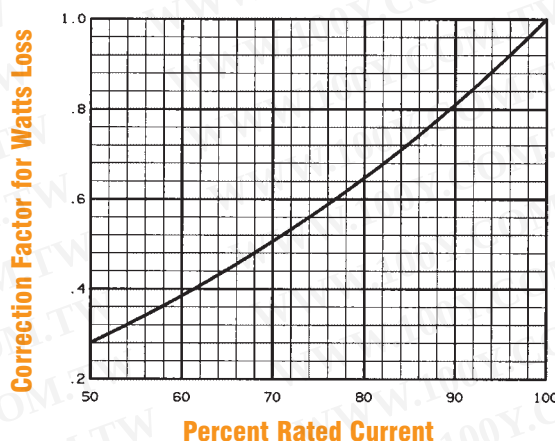
Maximum Arc Volts vs. System Voltage

A70QS (Ampere Rating)-14F, 14FI, 22F 22FI



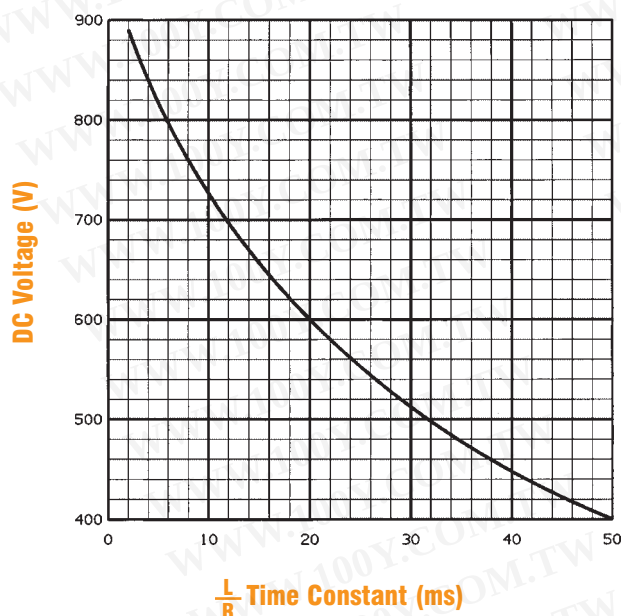
Watts Loss vs. % Rated Current

A70QS (Ampere Rating)-14F, 14FI, 22F 22FI



DC Voltage Capability vs. Time Constant

A70QS (Ampere Rating)-14F, 14FI



DC Voltage Capability vs. Time Constant

A70QS (Ampere Rating)-22F, 22FI

