

JOONGWON RAPID FUSE

中原速断퓨우즈

(JR FUSE)

250V
300V
600V

半導體保護專用限流퓨우즈

250V
300V
600V

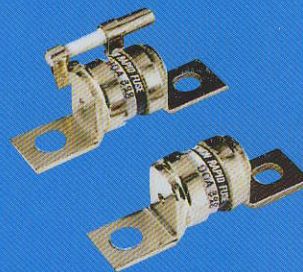
CURRENT LIMITING FUSES FOR PROTECTING SEMICONDUCTORS

JR20型
JR30型
JR60型

JR20TYPE
JR30TYPE
JR60TYPE



新製品 신 세라믹 속단 퓨우즈
NEW PRODUCT New Ceramic Fuse ULTRA-RAPID FUSE



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高性能, 大遮斷容量을 자랑하는 半導體保護專用高速度限流刑 퓨우즈

HIGH SPEED CURRENT LIMITING FUSES FOR PROTECTING SEMICONDUCTORS WITH SMALL OPERATING I^2T AND LARGE BREAKING CAPACITY.

머리말

本 퓨우즈의 可溶體는 從來 製作方式의 常識을 打破하는 革新的인 製造方法으로 量産되며, 溶斷特性, 遮斷特性 및 機械의 強度 等 大幅 改良된 新商品입니다. 더욱이 本製品은 퓨우즈規定 IEC 269-4(1974) 및 JEM 1383(1979)에 準하여 試驗檢定하였습니다.

FOREWORD

This fuse link is manufactured on the basis of mass production by an innovative manufacturing method that has made a breakthrough in the common sense of conventional manufacture of fuse element. The new product has been improved extensively as to pro-arcing time-current characteristic, breaking capacity and mechanical strength.

Also this product was tested and verified in compliance correspondently to Fuse Rules IEC 269-4(1974) and JEM 1383(1979).

特 徴

- ① 大遮斷容量과 뛰어난 限流遮斷
- ② 아주 적은 作動 I^2T 와 낮은 動作過電壓으로 半導體保護에 最適
- ③ 特性이 均一하고 經年變化가 없다.
- ④ 小型輕量으로 裝置가 작아진다.
- ⑤ 直流電流도 遮斷可能

SPECIAL FEATURES

- ① Large breaking capacity and current limiting interruption.
- ② Most suited to the protection of semiconductors because of the very small operating I^2T and low switching voltage.
- ③ There is no secular variance providing little variance in characteristics.
- ④ Because of small size and light weight, the device becomes small.
- ⑤ Interruption is possible also for DC current.

定格과 性能 (JR 20-) RATINGS AND PERFORMANCE

形 式 TYPE			定 格	溶 斷	動 作	電力	直 流
本 體	表示器附着	M/SW附着	電 流	PRE-ARcing I^2T	OPERATING I^2T	損失 (W)	20mSec
JR21-10	JR21-10I	JR21-10IS	10A	1	6	3	DC 200V
JR21-15	JR21-15I	JR21-15IS	15A	6	25	3.2	
JR21-20	JR21-20I	JR21-20IS	20A	10	40	3.5	
JR21-25	JR21-25I	JR21-25IS	25A	16	75	4.8	
JR21-30	JR21-30I	JR21-30IS	30A	20	100	6.7	
JR21-32	JR21-32I	JR21-32IS	32A	23	120	7.0	
JR21-35	JR21-35I	JR21-35IS	35A	40	150	7.2	
JR21-40	JR21-40I	JR21-40IS	40A	50	200	7.5	
JR21-50	JR21-50I	JR21-50IS	50A	85	400	8.0	
JR21-60	JR21-60I	JR21-60IS	60A	150	700	9.0	
JR21-63	JR21-63I	JR21-63IS	63A	170	800	9.2	
JR21-75	JR21-75I	JR21-75IS	75A	230	1000	10	
JR21-80	JR21-80I	JR21-80IS	80A	320	1500	11	
JR21-100	JR21-100I	JR21-100IS	100A	450	2900	14	
JR22-60	JR22-60I	JR22-60IS	60A	130	500	11	
JR22-75	JR22-75I	JR22-75IS	75A	220	750	11.2	
JR22-80	JR22-80I	JR22-80IS	80A	250	800	11.5	
JR22-100	JR22-100I	JR22-100IS	100A	500	2000	14	
JR22-120	JR22-120I	JR22-120IS	120A	680	3000	16.5	
JR22-125	JR22-125I	JR22-125IS	125A	720	4000	17.0	
JR22-160	JR22-160I	JR22-160IS	160A	1900	7000	21.0	
JR22-175	JR22-175I	JR22-175IS	175A	2200	9900	24.0	
JR23-40	JR23-40I	JR23-40IS	40A	40	180	7.5	
JR23-50	JR23-50I	JR23-50IS	50A	70	330	8.4	
JR23-60	JR23-60I	JR23-60IS	60A	120	670	9.5	
JR23-75	JR23-75I	JR23-75IS	75A	250	930	10.5	
JR23-85	JR23-85I	JR23-85IS	85A	400	1500	11.2	
JR23-90	JR23-90I	JR23-90IS	90A	500	1700	12	
JR23-100	JR23-100I	JR23-100IS	100A	580	2100	13.5	
JR23-110	JR23-110I	JR23-110IS	110A	630	2600	14.2	
JR23-120	JR23-120I	JR23-120IS	120A	700	3000	15.5	
JR23-125	JR23-125I	JR23-125IS	125A	750	3100	16.0	
JR23-140	JR23-140I	JR23-140IS	140A	1000	3600	18.0	
JR23-150	JR23-150I	JR23-150IS	150A	1400	4000	19.0	
JR23-160	JR23-160I	JR23-160IS	160A	1800	5300	20.6	
JR23-180	JR23-180I	JR23-180IS	180A	2000	7000	22.0	
JR26-150	JR26-150I	JR26-150IS	150A	1200	3600	20.0	
JR26-160	JR26-160I	JR26-160IS	160A	1700	4400	21	
JR26-180	JR26-180I	JR26-180IS	180A	2100	6200	22	
JR26-200	JR26-200I	JR26-200IS	200A	2500	7000	24	
JR26-215	JR26-215I	JR26-215IS	215A	2800	9300	25.6	
JR26-230	JR26-230I	JR26-230IS	230A	3600	11000	27.2	
JR26-250	JR26-250I	JR26-250IS	250A	4500	14000	29.0	
JR26-260	JR26-260I	JR26-260IS	260A	4800	15500	30.5	
JR26-300	JR26-300I	JR26-300IS	300A	7000	30000	35	
JR26-325	JR26-325I	JR26-325IS	325A	9000	36000	36	
JR27-350	JR27-350I	JR27-350IS	350A				
JR27-400	JR27-400I	JR27-400IS	400A				
JR27-450	JR27-450I	JR27-450IS	450A				
JR27-500	JR27-500I	JR27-500IS	500A				

定格電壓 : 250V AC(r.m.s) Rated Voltage : 250V AC (r.m.s)
 動作過電壓 : 600V以下 Switching Voltage: Less Than 600V
 遮斷容量 : 100KA at AC 250V Breaking Capacity: 100KA at 250V

■ 定格と性能 (JR 30-) RATINGS AND PERFORMANCE

形 式 TYPE			定格	溶 断	動作	電力	直 流
本 體	表示器付着	M/SW付着	電 流	PRE-ARcing I ² T	OPERATING I ² T	損失 (W)	20mSec
JR31-10	JR31-10I	JR31-10IS	10A	1	7	3	DC 200V
JR31-15	JR31-15I	JR31-15IS	15A	6	28	3.2	
JR31-20	JR31-20I	JR31-20IS	20A	10	45	3.5	
JR31-25	JR31-25I	JR31-25IS	25A	16	80	4.8	
JR31-30	JR31-30I	JR31-30IS	30A	20	110	6.7	
JR31-32	JR31-32I	JR31-32IS	32A	23	130	7.0	
JR31-35	JR31-35I	JR31-35IS	35A	40	170	7.2	
JR31-40	JR31-40I	JR31-40IS	40A	50	220	7.5	
JR31-50	JR31-50I	JR31-50IS	50A	85	450	8.0	
JR31-60	JR31-60I	JR31-60IS	60A	150	800	9.0	
JR31-63	JR31-63I	JR31-63IS	63A	170	1100	9.2	
JR31-75	JR31-75I	JR31-75IS	75A	230	1650	10	
JR31-80	JR31-80I	JR31-80IS	80A	320	3100	11	
JR31-100	JR31-100I	JR31-100IS	100A	450	550	14	
JR32-60	JR32-60I	JR32-60IS	60A	130	850	11	
JR32-75	JR32-75I	JR32-75IS	75A	220	920	11.2	
JR32-80	JR32-80I	JR32-80IS	80A	250	950	11.5	
JR32-100	JR32-100I	JR32-100IS	100A	500	2100	14	
JR32-120	JR32-120I	JR32-120IS	120A	680	3200	16.5	
JR32-125	JR32-125I	JR32-125IS	125A	720	4500	17.0	
JR32-160	JR32-160I	JR32-160IS	160A	1900	7500	21.0	
JR32-175	JR32-175I	JR32-175IS	175A	2200	10500	24.0	
JR33-40	JR33-40I	JR33-40IS	40A	40	200	7.5	
JR33-50	JR33-50I	JR33-50IS	50A	70	370	8.4	
JR33-60	JR33-60I	JR33-60IS	60A	120	750	9.5	
JR33-75	JR33-75I	JR33-75IS	75A	250	1020	10.5	
JR33-85	JR33-85I	JR33-85IS	85A	400	1630	11.2	
JR33-90	JR33-90I	JR33-90IS	90A	500	1890	12	
JR33-100	JR33-100I	JR33-100IS	100A	580	2310	13.5	
JR33-110	JR33-110I	JR33-110IS	110A	630	2860	14.2	
JR33-120	JR33-120I	JR33-120IS	120A	700	3300	15.5	
JR33-125	JR33-125I	JR33-125IS	125A	750	3400	16.0	
JR33-140	JR33-140I	JR33-140IS	140A	1000	4000	18.0	
JR33-150	JR33-150I	JR33-150IS	150A	1400	4400	19.0	
JR33-160	JR33-160I	JR33-160IS	160A	1800	5860	20.6	
JR33-180	JR33-180I	JR33-180IS	180A	2000	7680	22.0	
JR36-150	JR36-150I	JR36-150IS	150A	1200	4000	20.0	
JR36-160	JR36-160I	JR36-160IS	160A	1700	4900	21	
JR36-180	JR36-180I	JR36-180IS	180A	2100	6850	22	
JR36-200	JR36-200I	JR36-200IS	200A	2500	7800	24	
JR36-215	JR36-215I	JR36-215IS	215A	2800	10500	25.6	
JR36-230	JR36-230I	JR36-230IS	230A	3600	12500	27.2	
JR36-250	JR36-250I	JR36-250IS	250A	4500	16000	29.0	
JR36-260	JR36-260I	JR36-260IS	260A	4800	20100	30.5	
JR36-300	JR36-300I	JR36-300IS	300A	7000	34000	35	
JR36-325	JR36-325I	JR36-325IS	325A	9000	40000	36	
JR37-350	JR37-350I	JR37-350IS	350A				
JR37-400	JR37-400I	JR37-400IS	400A				
JR37-450	JR37-450I	JR37-450IS	450A				
JR37-500	JR37-500I	JR37-500IS	500A				

定格電壓 : 300V AC(r.m.s) Rated Voltage : 300V AC (r.m.s)
 動作過電壓 : 650V以下 Switching Voltage: Less Than 650V
 遮断容量 : 100KA at AC 300V Breaking Capacity: 100KA at 300V

■ 定格と性能 (JR 60-) RATINGS AND PERFORMANCE

形 式 TYPE			定格	溶 断	動作	電力	直 流
本 體	表示器付着	M/SW付着	電 流	PRE-ARcing I ² T	OPERATING I ² T	損失 (W)	20mSec
JR61-10	JR61-10I	JR61-10IS	10A	4	36	3.2	DC 400V
JR61-15	JR61-15I	JR61-15IS	15A	7	50	4.0	
JR61-16	JR61-16I	JR61-16IS	16A	8	58	4.2	
JR61-20	JR61-20I	JR61-20IS	20A	12	100	6.5	
JR61-25	JR61-25I	JR61-25IS	25A	2.1	180	7.6	
JR61-30	JR61-30I	JR61-30IS	30A	34	250	9.0	
JR61-32	JR61-32I	JR61-32IS	32A	42	310	9.5	
JR61-35	JR61-35I	JR61-35IS	35A	59	400	10.2	
JR61-40	JR61-40I	JR61-40IS	40A	72	500	11.0	
JR61-45	JR61-45I	JR61-45IS	45A	98	780	12.4	
JR61-50	JR61-50I	JR61-50IS	50A	125	1000	13.5	
JR61-55	JR61-55I	JR61-55IS	55A	180	1400	14.3	
JR61-60	JR61-60I	JR61-60IS	60A	200	1600	15.5	
JR61-63	JR61-63I	JR61-63IS	63A	250	1760	16.7	
JR61-75	JR61-75I	JR61-75IS	75A	485	2700	18.6	
JR61-80	JR61-80I	JR61-80IS	80A	580	3100	19.7	
JR61-180	JR61-180I	JR61-180IS	180A	3400	2000	32	
JR62-60	JR62-60I	JR62-60IS	60A	150	800	17.0	
JR62-75	JR62-75I	JR62-75IS	75A	410	2350	18.2	
JR62-80	JR62-80I	JR62-80IS	80A	440	2650	19.0	
JR62-90	JR62-90I	JR62-90IS	90A	590	4300	20	
JR62-100	JR62-100I	JR62-100IS	100A	760	5600	21	
JR62-110	JR62-110I	JR62-110IS	110A	980	7700	21.5	
JR62-120	JR62-120I	JR62-120IS	120A	1200	8500	22	
JR62-125	JR62-125I	JR62-125IS	125A	1300	9300	22.5	
JR63-90	JR63-90I	JR63-90IS	90A	580	3400	21	
JR63-100	JR63-100I	JR63-100IS	100A	720	4400	22	
JR63-110	JR63-110I	JR63-110IS	110A	860	5600	24	
JR63-120	JR63-120I	JR63-120IS	120A	920	6300	25.5	
JR63-140	JR63-140I	JR63-140IS	140A	1750	10200	27.1	
JR63-150	JR63-150I	JR63-150IS	150A	2100	12000	29	
JR63-1600	JR63-160I	JR63-160IS	160A	2700	15000	30.5	
JR66-150	JR66-150I	JR66-150IS	150A	1600	9200	30.5	
JR66-160	JR66-160I	JR66-160IS	160A	2100	12000	31.2	
JR66-175	JR66-175I	JR66-175IS	175A	2950	16000	32.9	
JR66-180	JR66-180I	JR66-180IS	180A	3200	17500	34.7	
JR66-200	JR66-200I	JR66-200IS	200A	4400	24000	36	
JR66-225	JR66-225I	JR66-225IS	225A	6100	29000	38	
JR66-250	JR66-250I	JR66-250IS	250A	7800	40000	42	
JR66-275	JR66-275I	JR66-275IS	275A	9800	52000	44.5	
JR66-300	JR66-300I	JR66-300IS	300A	12500	60000	46	
JR66-315	JR66-315I	JR66-315IS	315A	14500	70000	47	
JR67-350	JR67-350I	JR67-350IS	350A				
JR67-400	JR67-400I	JR67-400IS	400A				
JR67-450	JR67-450I	JR67-450IS	450A				
JR67-500	JR67-500I	JR67-500IS	500A				

定格電壓 : 600V AC(r.m.s) Rated Voltage : 600V AC (r.m.s)
 動作過電壓 : 1350V以下 Switching Voltage: Less Than 1350V
 遮断容量 : 100KA at AC 600V Breaking Capacity: 100KA at 600V

■ 定格と性能 (JR 30-) RATINGS AND PERFORMANCE

形 式 TYPE			定格電流	溶断 PRE-ARcing I ² T	動作 OPERATING I ² T	電力 損失 (W)	直 流 20mSec
本 體	表示器付着	M/SW付着					
JR31-10	JR31-10I	JR31-10IS	10A	1	7	3	DC 200V
JR31-15	JR31-15I	JR31-15IS	15A	6	28	3.2	
JR31-20	JR31-20I	JR31-20IS	20A	10	45	3.5	
JR31-25	JR31-25I	JR31-25IS	25A	16	80	4.8	
JR31-30	JR31-30I	JR31-30IS	30A	20	110	6.7	
JR31-32	JR31-32I	JR31-32IS	32A	23	130	7.0	
JR31-35	JR31-35I	JR31-35IS	35A	40	170	7.2	
JR31-40	JR31-40I	JR31-40IS	40A	50	220	7.5	
JR31-50	JR31-50I	JR31-50IS	50A	85	450	8.0	
JR31-60	JR31-60I	JR31-60IS	60A	150	800	9.0	
JR31-63	JR31-63I	JR31-63IS	63A	170	1100	9.2	
JR31-75	JR31-75I	JR31-75IS	75A	230	1650	10	
JR31-80	JR31-80I	JR31-80IS	80A	320	3100	11	
JR31-100	JR31-100I	JR31-100IS	100A	450	550	14	
JR32-60	JR32-60I	JR32-60IS	60A	130	850	11	
JR32-75	JR32-75I	JR32-75IS	75A	220	920	11.2	
JR32-80	JR32-80I	JR32-80IS	80A	250	950	11.5	
JR32-100	JR32-100I	JR32-100IS	100A	500	2100	14	
JR32-120	JR32-120I	JR32-120IS	120A	680	3200	16.5	
JR32-125	JR32-125I	JR32-125IS	125A	720	4500	17.0	
JR32-160	JR32-160I	JR32-160IS	160A	1900	7500	21.0	
JR32-175	JR32-175I	JR32-175IS	175A	2200	10500	24.0	
JR33-40	JR33-40I	JR33-40IS	40A	40	200	7.5	
JR33-50	JR33-50I	JR33-50IS	50A	70	370	8.4	
JR33-60	JR33-60I	JR33-60IS	60A	120	750	9.5	
JR33-75	JR33-75I	JR33-75IS	75A	250	1020	10.5	
JR33-85	JR33-85I	JR33-85IS	85A	400	1630	11.2	
JR33-90	JR33-90I	JR33-90IS	90A	500	1890	12	
JR33-100	JR33-100I	JR33-100IS	100A	580	2310	13.5	
JR33-110	JR33-110I	JR33-110IS	110A	630	2860	14.2	
JR33-120	JR33-120I	JR33-120IS	120A	700	3300	15.5	
JR33-125	JR33-125I	JR33-125IS	125A	750	3400	16.0	
JR33-140	JR33-140I	JR33-140IS	140A	1000	4000	18.0	
JR33-150	JR33-150I	JR33-150IS	150A	1400	4400	19.0	
JR33-160	JR33-160I	JR33-160IS	160A	1800	5860	20.6	
JR33-180	JR33-180I	JR33-180IS	180A	2000	7680	22.0	
JR36-150	JR36-150I	JR36-150IS	150A	1200	4000	20.0	
JR36-160	JR36-160I	JR36-160IS	160A	1700	4900	21	
JR36-180	JR36-180I	JR36-180IS	180A	2100	6850	22	
JR36-200	JR36-200I	JR36-200IS	200A	2500	7800	24	
JR36-215	JR36-215I	JR36-215IS	215A	2800	10500	25.6	
JR36-230	JR36-230I	JR36-230IS	230A	3600	12500	27.2	
JR36-250	JR36-250I	JR36-250IS	250A	4500	16000	29.0	
JR36-260	JR36-260I	JR36-260IS	260A	4800	20100	30.5	
JR36-300	JR36-300I	JR36-300IS	300A	7000	34000	35	
JR36-325	JR36-325I	JR36-325IS	325A	9000	40000	36	
JR37-350	JR37-350I	JR37-350IS	350A				
JR37-400	JR37-400I	JR37-400IS	400A				
JR37-450	JR37-450I	JR37-450IS	450A				
JR37-500	JR37-500I	JR37-500IS	500A				

定格電壓 : 300V AC(r.m.s) Rated Voltage : 300V AC (r.m.s)
 動作過電壓 : 650V以下 Switching Voltage: Less Than 650V
 遮断容量 : 100KA at AC 300V Breaking Capacity: 100KA at 300V

■ 定格と性能 (JR 60-) RATINGS AND PERFORMANCE

形 式 TYPE			定格電流	溶断 PRE-ARcing I ² T	動作 OPERATING I ² T	電力 損失 (W)	直 流 20mSec
本 體	表示器付着	M/SW付着					
JR61-10	JR61-10I	JR61-10IS	10A	4	36	3.2	DC 400V
JR61-15	JR61-15I	JR61-15IS	15A	7	50	4.0	
JR61-16	JR61-16I	JR61-16IS	16A	8	58	4.2	
JR61-20	JR61-20I	JR61-20IS	20A	12	100	6.5	
JR61-25	JR61-25I	JR61-25IS	25A	2.1	180	7.6	
JR61-30	JR61-30I	JR61-30IS	30A	34	250	9.0	
JR61-32	JR61-32I	JR61-32IS	32A	42	310	9.5	
JR61-35	JR61-35I	JR61-35IS	35A	59	400	10.2	
JR61-40	JR61-40I	JR61-40IS	40A	72	500	11.0	
JR61-45	JR61-45I	JR61-45IS	45A	98	780	12.4	
JR61-50	JR61-50I	JR61-50IS	50A	125	1000	13.5	
JR61-55	JR61-55I	JR61-55IS	55A	180	1400	14.3	
JR61-60	JR61-60I	JR61-60IS	60A	200	1600	15.5	
JR61-63	JR61-63I	JR61-63IS	63A	250	1760	16.7	
JR61-75	JR61-75I	JR61-75IS	75A	485	2700	18.6	
JR61-80	JR61-80I	JR61-80IS	80A	580	3100	19.7	
JR61-180	JR61-180I	JR61-180IS	180A	3400	2000	32	
JR62-60	JR62-60I	JR62-60IS	60A	150	800	17.0	
JR62-75	JR62-75I	JR62-75IS	75A	410	2350	18.2	
JR62-80	JR62-80I	JR62-80IS	80A	440	2650	19.0	
JR62-90	JR62-90I	JR62-90IS	90A	590	4300	20	
JR62-100	JR62-100I	JR62-100IS	100A	760	5600	21	
JR62-110	JR62-110I	JR62-110IS	110A	980	7700	21.5	
JR62-120	JR62-120I	JR62-120IS	120A	1200	8500	22	
JR62-125	JR62-125I	JR62-125IS	125A	1300	9300	22.5	
JR63-90	JR63-90I	JR63-90IS	90A	580	3400	21	
JR63-100	JR63-100I	JR63-100IS	100A	720	4400	22	
JR63-110	JR63-110I	JR63-110IS	110A	860	5600	24	
JR63-120	JR63-120I	JR63-120IS	120A	920	6300	25.5	
JR63-140	JR63-140I	JR63-140IS	140A	1750	10200	27.1	
JR63-150	JR63-150I	JR63-150IS	150A	2100	12000	29	
JR63-1600	JR63-160I	JR63-160IS	160A	2700	15000	30.5	
JR66-150	JR66-150I	JR66-150IS	150A	1600	9200	30.5	
JR66-160	JR66-160I	JR66-160IS	160A	2100	12000	31.2	
JR66-175	JR66-175I	JR66-175IS	175A	2950	16000	32.9	
JR66-180	JR66-180I	JR66-180IS	180A	3200	17500	34.7	
JR66-200	JR66-200I	JR66-200IS	200A	4400	24000	36	
JR66-225	JR66-225I	JR66-225IS	225A	6100	29000	38	
JR66-250	JR66-250I	JR66-250IS	250A	7800	40000	42	
JR66-275	JR66-275I	JR66-275IS	275A	9800	52000	44.5	
JR66-300	JR66-300I	JR66-300IS	300A	12500	60000	46	
JR66-315	JR66-315I	JR66-315IS	315A	14500	70000	47	
JR67-350	JR67-350I	JR67-350IS	350A				
JR67-400	JR67-400I	JR67-400IS	400A				
JR67-450	JR67-450I	JR67-450IS	450A				
JR67-500	JR67-500I	JR67-500IS	500A				

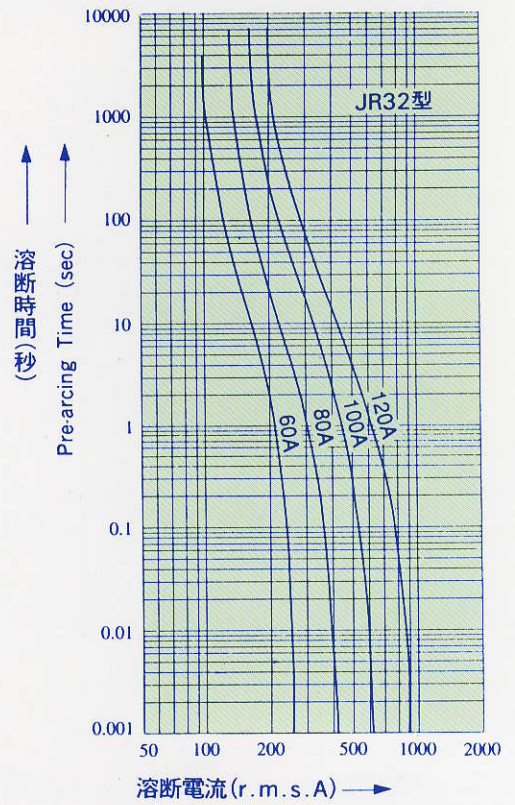
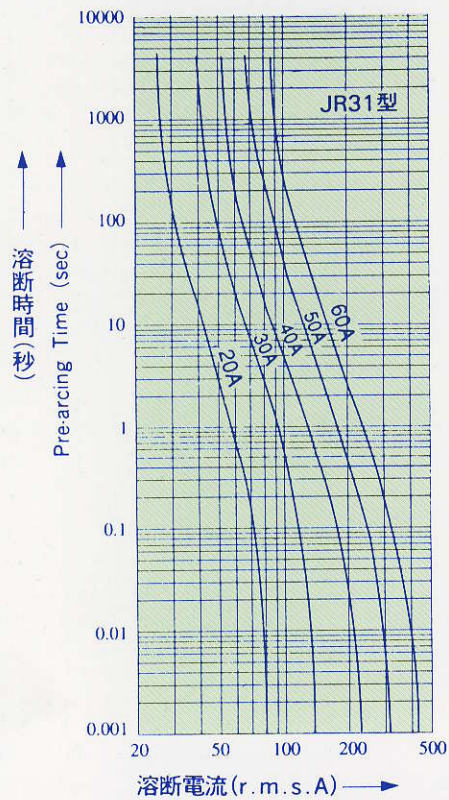
定格電壓 : 600V AC(r.m.s) Rated Voltage : 600V AC (r.m.s)
 動作過電壓 : 1350V以下 Switching Voltage: Less Than 1350V
 遮断容量 : 100KA at AC 600V Breaking Capacity: 100KA at 600V

JR 31

JR 32

溶斷時間—電流特性

Pre-arcing Time-Current Characteristics

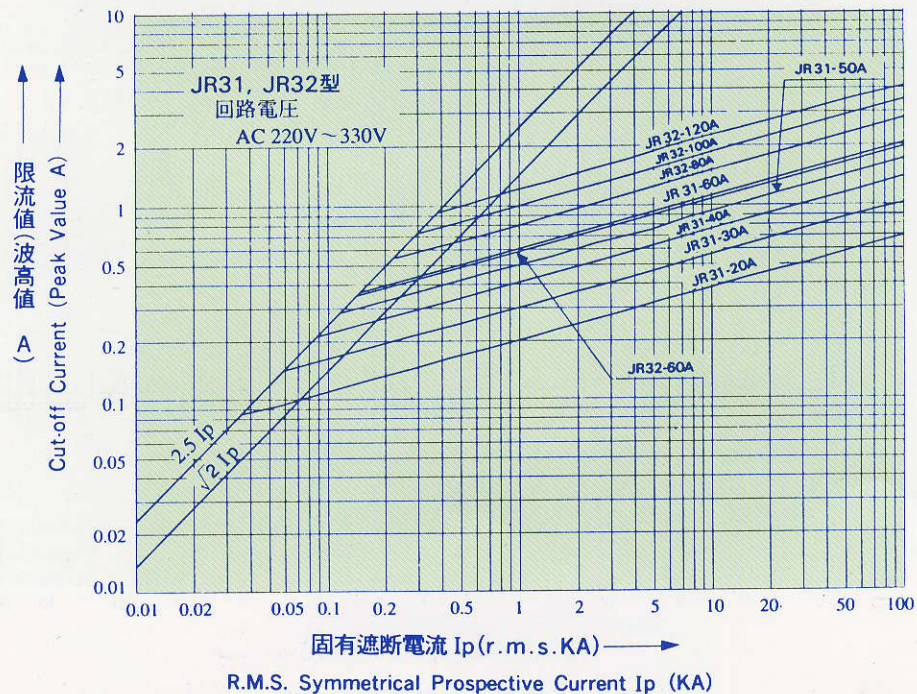


R.M.S. Symmetrical Prospective Current (A)

R.M.S. Symmetrical Prospective Current (A)

限流特性

Cut-off Current Characteristics

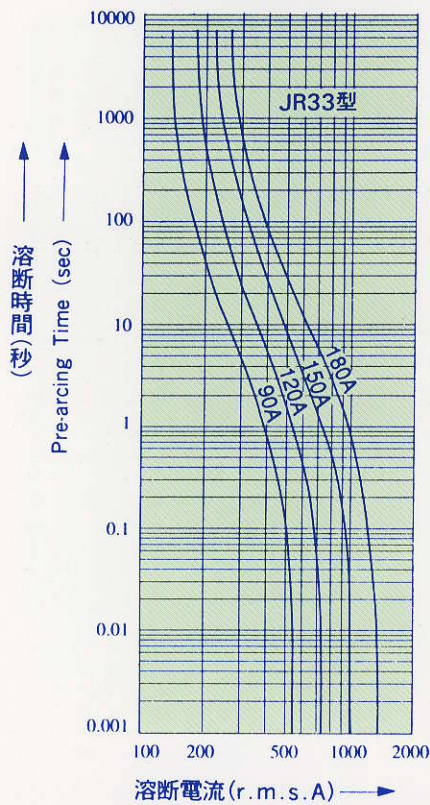


JR 33

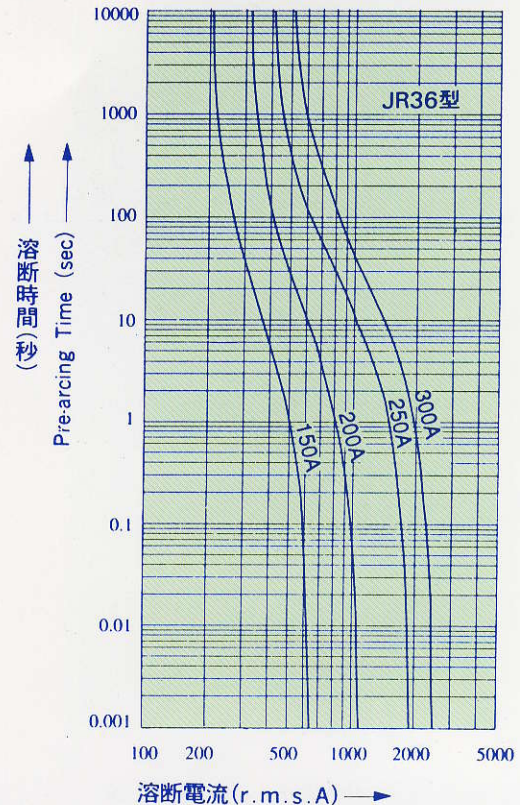
JR 36

溶断時間—電流特性

Pre-arcing Time-Current Characteristics



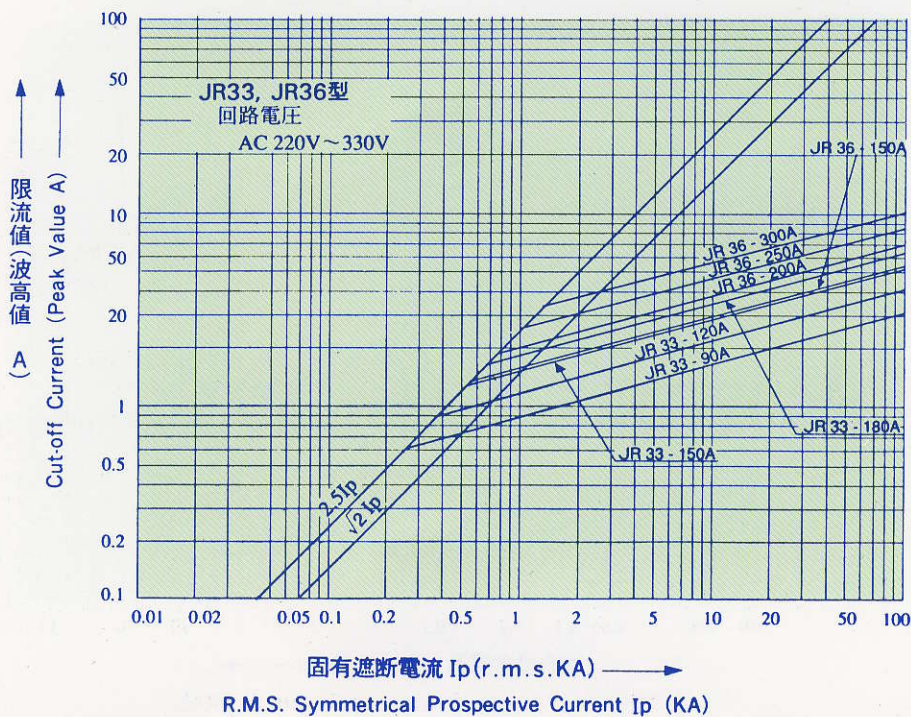
R.M.S. Symmetrical Prospective Current (A)



R.M.S. Symmetrical Prospective Current (A)

限流特性

Cut-off Current Characteristics

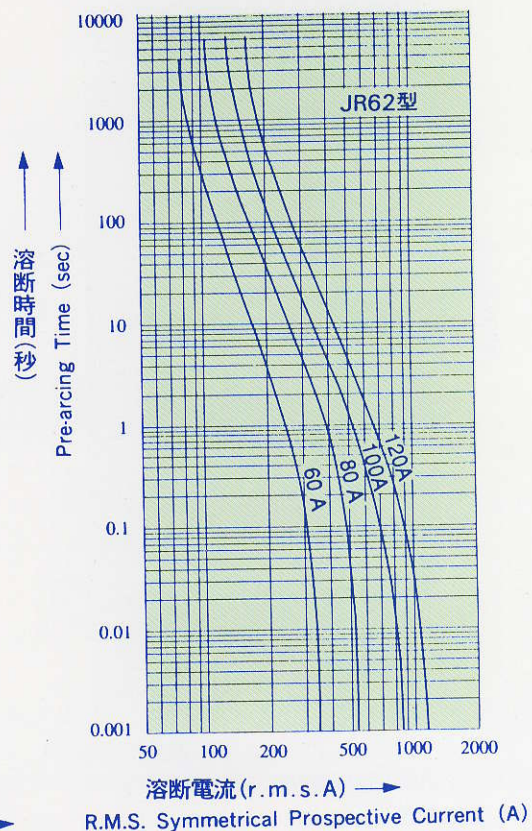
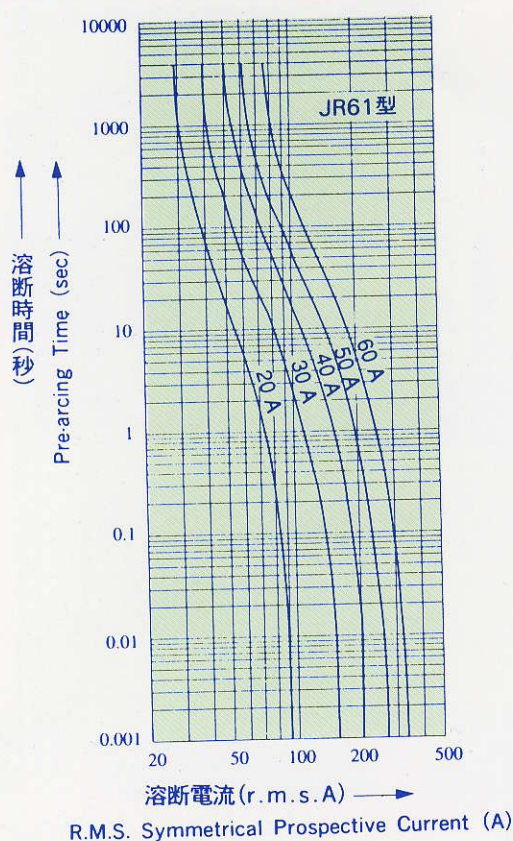


JR 61

JR 62

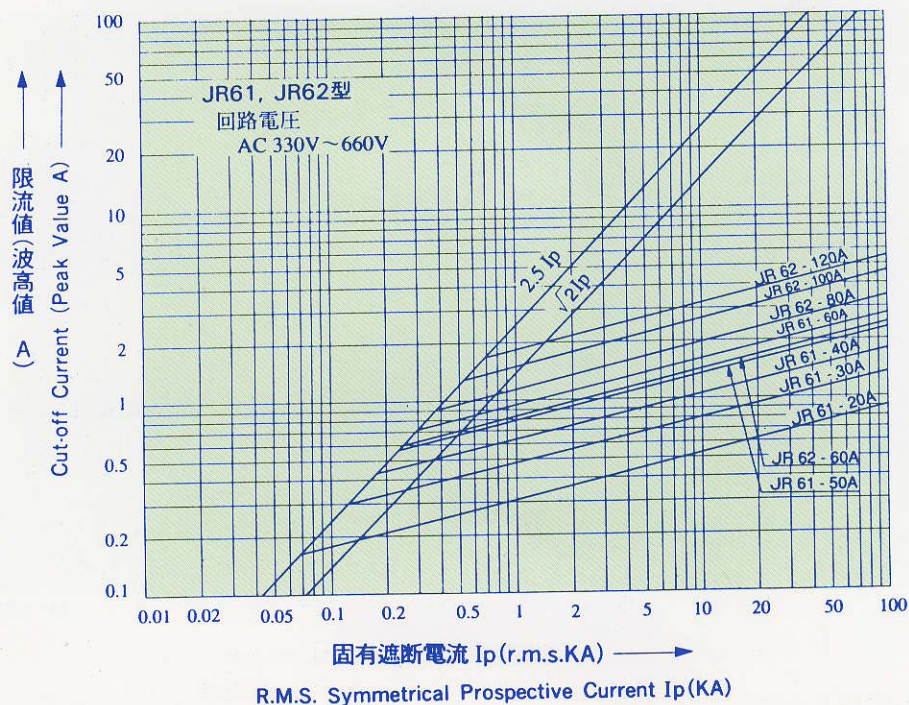
溶斷時間－電流特性

Pre-arcing Time-Current Characteristics



限流特性

Cut-off Current Characteristics

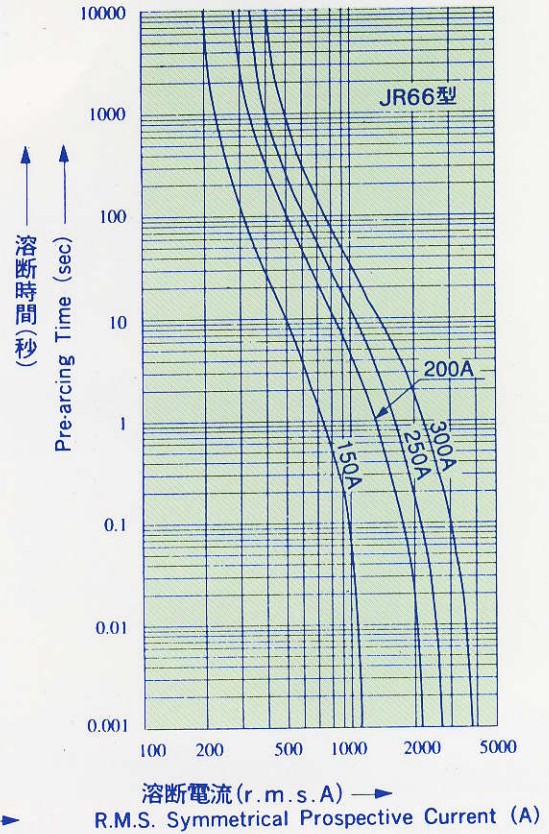
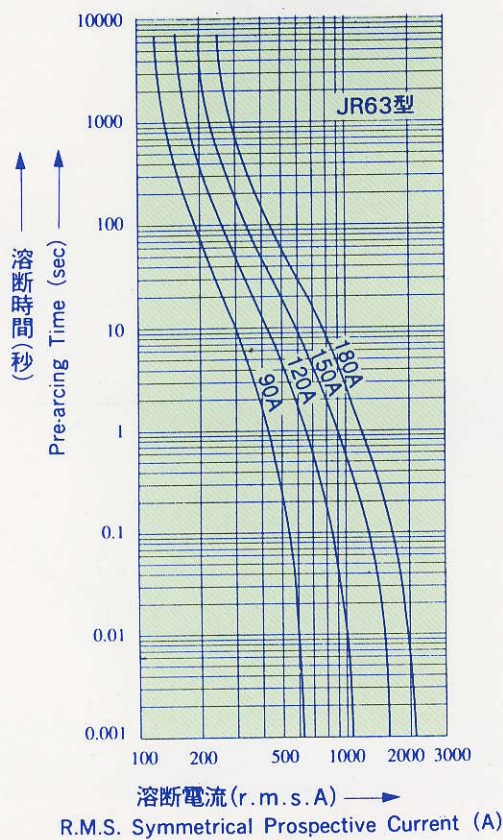


JR 63

JR 66

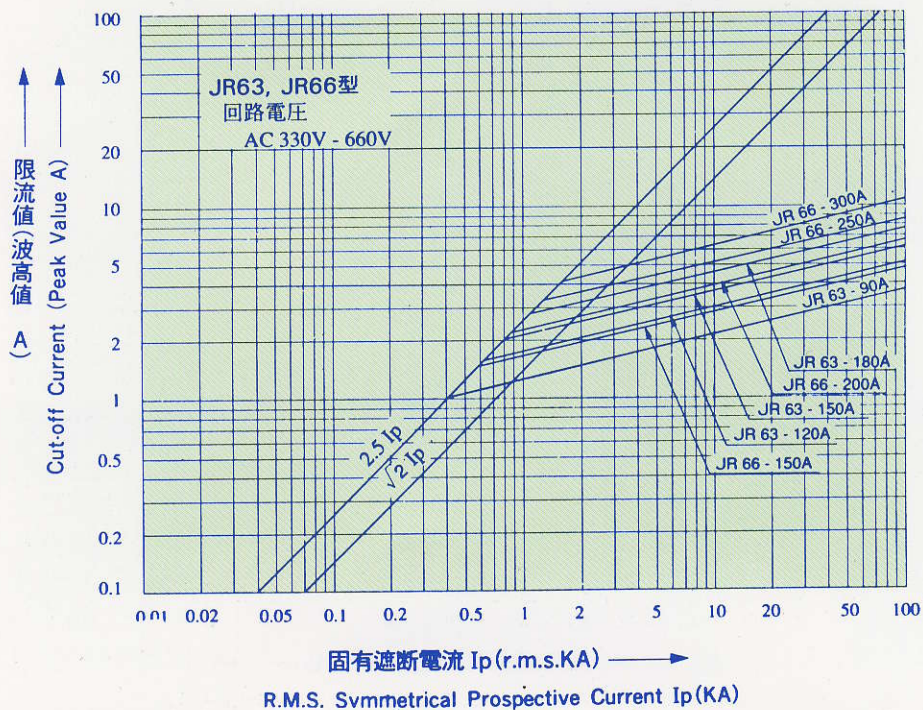
溶断時間—電流特性

Pre-arcing Time-Current Characteristics



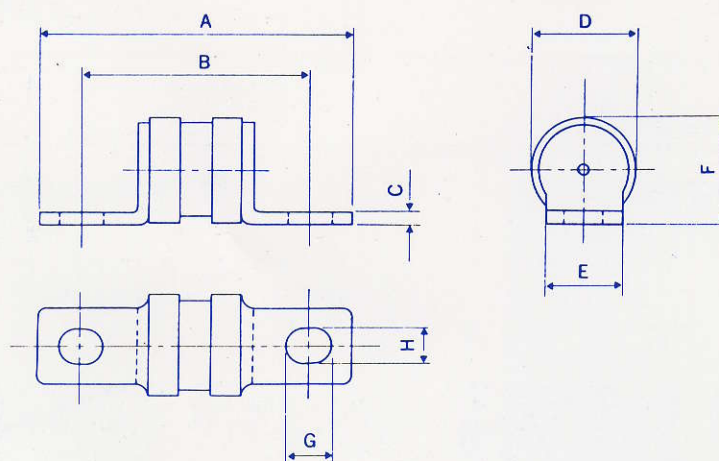
限流特性

Cut-off Current Characteristics



**250V
300V**

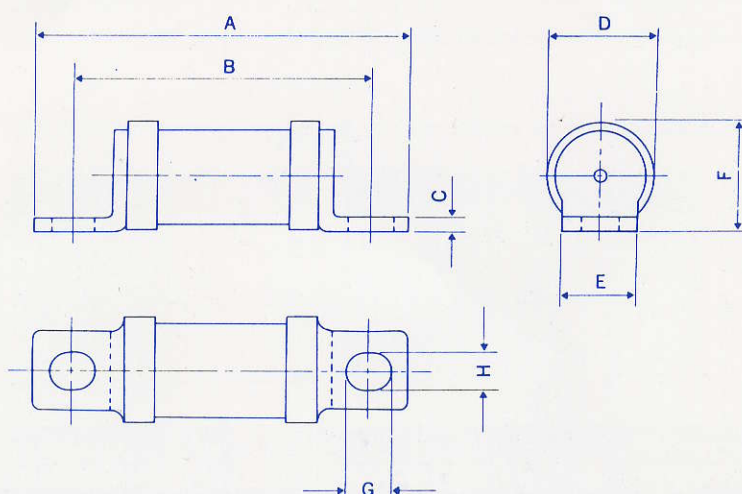
JR 퓨즈 外形値數 JR Fuse Outline Dimensions



型 式 Type	定格電壓 Rated Voltage	定 格 電 流 Rated Current	遮斷容量 Breaking Capacity	外形値數 mm Outline Dimension mm							
				A	B	C	D	E	F	G	H
JR21/31	AC : 250V AC : 300V	20·30·40·50·60A	100KA	56	42	2	18.2	12	19.1	8.5	6.5
JR22/32		60·80·100·120A		58	42	2.5	21.3	15	21.7	11	9
JR23/33		90·120·150·180A		80	58	3	26.8	20	27.4	11	9
JR26/36		150·200·250·300A		85	60	3	35.6	25	38.8	16	10.3
JR27/37				90	65	3.5	47.5	32.4	51.5	16	10.3

600V

JR 퓨즈 外形値數 JR Fuse Outline Dimensions

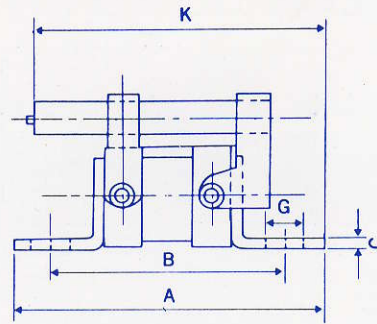
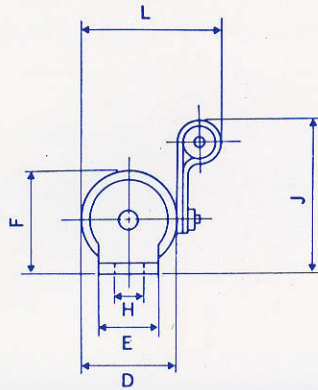


型 式 Type	定格電壓 Rated Voltage	定 格 電 流 Rated Current	遮斷容量 Breaking Capacity	外形値數 mm Outline Dimension mm							
				A	B	C	D	E	F	G	H
JR61	AC : 600V	20·30·40·50·60A	100KA	76	62	2	18.2	12	19.1	8.5	6.5
JR62		60·80·100·120A		90	70	2.5	21.3	15	21.7	11	9
JR63		90·120·150·180A		90	70	3	26.8	20	27.4	11	9
JR66		150·200·250·300A		106	81	3	35.6	25	38.8	16	10.3
JR67				107	85	3.5	47.5	32.4	51.5	16	10.3

表示器, 付

JR 퓨즈外形値數

JR Fuse With Indicator Outline Dimensions

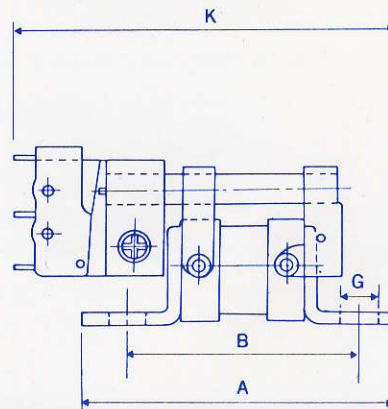
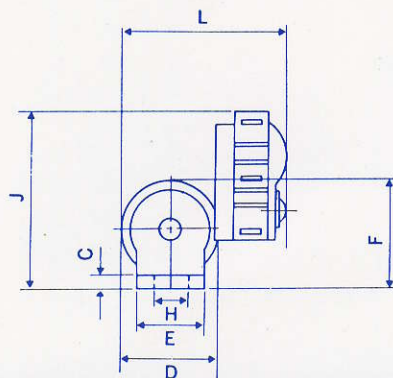


型 式	外形値數 mm Outline Dimension mm										
Type	A	B	C	D	E	F	G	H	J	K	L
JR31	56	42	2	18.2	12	19.1	8.5	6.5	23.8	56.8	27
JR32	58	42	2.5	21.3	15	21.7	11	9	24.8	57.8	30.1
JR33	80	58	3	26.8	20	27.4	11	9	27.8	68.3	35.6
JR36	85	60	3	35.6	25	38.8	16	10.3	34.8	70.2	44.4
JR37	90	65	3.5	47.5	32.4	51.5	16	10.3	42	71.2	55.1
JR61	76	62	2	18.2	12	19.1	8.5	6.5	23.8	75.8	27
JR62	90	70	2.5	21.3	15	21.7	11	9	24.8	81.8	30.1
JR63	90	70	3	26.8	20	27.4	11	9	27.8	81.8	35.6
JR66	106	81	3	35.6	25	38.8	16	10.3	34.8	90.1	44.4
JR67	107	85	3.5	47.5	32.4	51.5	16	10.3	42	91.1	55.1

表示器 Micro-sw. 付

JR 퓨즈外形値數

JR Fuse With Indicator and Micro Switch
Outline Dimensions



型 式	外形値數 mm Outline Dimension mm										
Type	A	B	C	D	E	F	G	H	J	K	L
JR31	56	42	2	18.2	12	19.1	8.5	6.5	27	75	28.7
JR32	58	42	2.5	21.3	15	21.7	11	9	28	76	31.9
JR33	80	58	3	26.8	20	27.4	11	9	31	86.5	37.3
JR36	85	60	3	35.6	25	38.8	16	10.3	38	88.4	46.1
JR37	90	65	3.5	47.5	32.4	51.5	16	10.3	45.2	89.4	56.8
JR61	76	62	2	18.2	12	19.1	8.5	6.5	27	94	28.7
JR62	90	70	2.5	21.3	15	21.7	11	9	28	100	31.9
JR63	90	70	3	26.8	20	27.4	11	9	31	100	37.3
JR66	106	81	3	35.6	25	38.8	16	10.3	38	108.3	46.1
JR67	107	85	3.5	47.5	32.4	51.5	16	10.3	45.2	109.3	56.8

JR63型 또는 JR66型の 並列使用에 對하여

REGARDING PARALLEL USE OF TYPE JR 63 FUSES OR TYPE JR 66 FUSES

300A를 超過하는 大電流定格퓨우즈의 必要時는 同一型式의 JR퓨우즈를 並列使用 하십시오.

이때의 퓨우즈의 諸特性은 아래表와 같습니다.

In the case of requiring the fuses of large current ratings over 300A, please use same type JR fuse in parallel. The characteristics of fuses in this case should take the values described in the following table.

型 式 Type	定格電流 Rated Current(A)	溶斷 I ² T Pre-arcing I ² T (A ² S)	動作I ² T Operating I ² T (A ² S)	限 流 值 Cut-off Current(KA)	電力損失 Power Dissipation(W)
JR63-180D型	345	23000	73000	10.6	64
JR66-200D型	385	27000	92000	12.1	72
JR66-250D型	475	60000	155000	14.5	84
JR66-300D型	575	101000	273000	17.1	92
JR66-200DD型	730	141000	375000	21.0	144
JR66-250DD型	910	199000	691000	27.0	168
JR66-300DD型	1100	353000	938000	31.0	184

(注)

1. D型은 2個並列使用時입니다.
2. DD型은 4個並列使用時입니다.

Note : 1. Type D shows the use of 2 pieces in parallel.
2. Type DD shows the use of 4 pieces in parallel.

(參考)

並列使用時는 各 퓨우즈間에 放熱干涉이 있어 單獨使用時보다 퓨우즈의 溫度上昇 値가 커지므로 定格電流의 低減이 必要합니다.

各 퓨우즈의 配列, 取付方法등에 따라 低減에 差異가 있으나, 單獨使用時의 퓨우즈의 定格電流를 I_N , D型의 定格電流를 I_{ND} , DD型의 定格電流를 I_{NDD} 라고하면 JR퓨우즈에서는

$$I_{ND} = 2I_N \times (0.95 \sim 0.97)$$

$$I_{NDD} = 4I_N \times (0.91 \sim 0.94)$$

가 됩니다.

Reference :

When using fuses in parallel, interference of heat discharge between respective fuses is causal and temperature rise of fuse becomes larger than that when using a single fuse. Therefore there is the need to reduce rated current in this case.

Although the current value reduced differs by the way of arrangement and fitting method of respective fuses, as rated current of fuse when using singly is set as I_N , rated current of Type D as I_{ND} and rated current of Type DD as I_{NDD} , the following is made available for JR fuse.

$$I_{ND} = 2I_N \times (0.95 \times 0.97)$$

$$I_{NDD} = 4I_N \times (0.91 \times 0.94)$$