

YRSA Square Body Semiconductor High Speed Fuse



Description

YRSA Square Body High Speed Fuses are designed for short-circuit protection. With the features of strong current limiting capacity, high breaking capacity and fast short-circuit breaking speed, YRSA Square Body High Speed Fuses are suitable for short-circuit and backup protection of frequency converters, rectifiers, inverters, various power supplies and other semiconductor equipment as well as batteries, motors, capacitors, wires and other equipment and devices. Besides, it also can be used for short circuit for electric vehicle drive power systems, power conversion systems, energy storage and power batteries, energy storage capacitors, inverter controllers, chargers, wires, automotive devices and other backup protection.

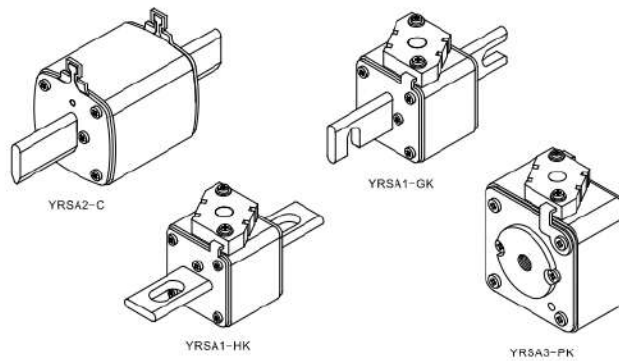
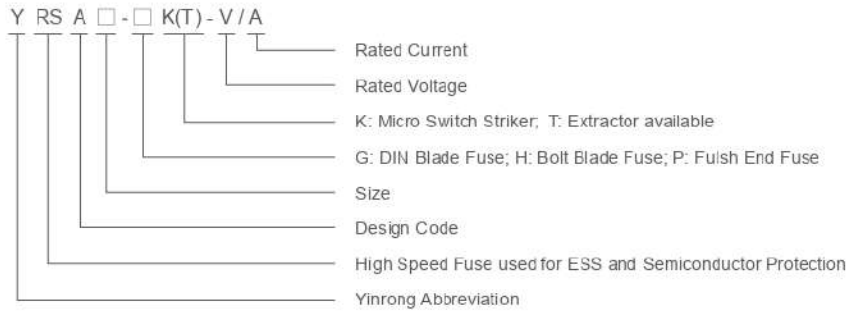


Specifications

Rated Voltage: AC/DC690V-AC/DC1500V
 Rated Current: 10A-4000A
 Operating Class: aR, gR, gS
 Breaking Capacity: AC200kA, DC100kA(Time Constant ≤ 15ms)
 Standards/Approvals: IEC60269, DIN43653, GB/T13539.4,



Part Numbering System



Size Overview

Size	000	00	01	1	2	3	4
Max Cross Section Dimension (mm)	21×36	30×47	45×45	51×51	61×61	75×75	105×105



YRSA Square Body Semiconductor High Speed Fuse



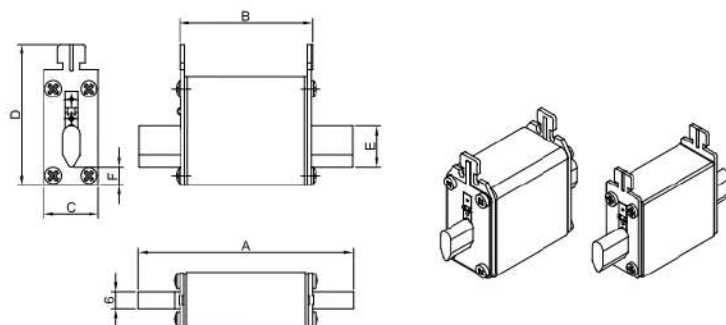
690V/700V (IEC/UL) 10-1000A 11 200kA Type C

No.	P/N	Size	Rated Current (A)	Pre-arcing I^2t (A ² s)	Melt I^2t (A ² s)	Power Loss (W)	Remarks
01	YRSA000-C-690V/10A	000	10	4	26	3	Suitable for size 00 fuse base or size 000, 00 fusing type isolating switch and fusing type isolator.
02	YRSA000-C-690V/16A		16	7	47	5.5	
03	YRSA000-C-690V/20A		20	11	77	7	
04	YRSA000-C-690V/25A		25	19	129	9	
05	YRSA000-C-690V/32A		32	40	270	10	
06	YRSA000-C-690V/40A		40	68	455	12	
07	YRSA000-C-690V/50A		50	116	772	15	
08	YRSA000-C-690V/63A		63	214	1430	16	
09	YRSA000-C-690V/80A		80	385	2560	19	
10	YRSA000-C-690V/100A		100	690	4650	24	
11	YRSA000-C-690V/125A		125	1190	8500	28	
12	YRSA000-C-690V/160A		160	2200	15800	32	
13	YRSA000-C-690V/200A		200	4180	27800	38	
14	YRSA00-C-690V/20A	00	20	10	75	5	Suitable for size 00 fuse base or size 00 fusing type isolating switch and fusing type isolator.
15	YRSA00-C-690V/25A		25	17	128	6	
16	YRSA00-C-690V/32A		32	28	190	7	
17	YRSA00-C-690V/40A		40	51	370	9	
18	YRSA00-C-690V/50A		50	96	650	10	
19	YRSA00-C-690V/63A		63	175	1220	12	
20	YRSA00-C-690V/80A		80	320	2200	15	
21	YRSA00-C-690V/100A		100	630	4200	20	
22	YRSA00-C-690V/125A		125	1100	6990	25	
23	YRSA00-C-690V/160A		160	1980	13100	30	
24	YRSA00-C-690V/200A		200	3500	23100	35	
25	YRSA00-C-690V/250A		250	6260	42200	45	
26	YRSA00-C-690V/315A		315	10100	68600	55	



Overall Dimensions

P/N	A±1.5	B±1.5	C Max	D Max	E±0.5	Fmax
YRSA000-C	78.5	54	20	53	15	8
YRSA00-C	78.5	54	30	60	15	12



YRSA Square Body Semiconductor High Speed Fuse



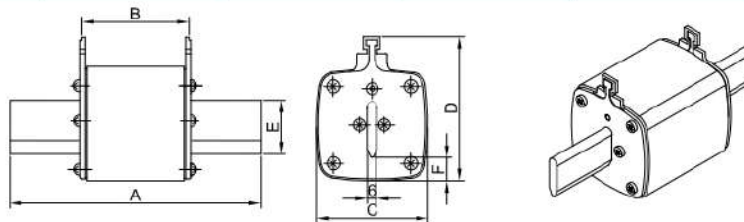
690V/700V (IEC/UL) 10-1000A 11 200kA Type C

No.	P/N	Size	Rated Current (A)	Pre-arcing I ² t (A ² s)	Melt I ² t (A ² s)	Power Loss (W)	Remarks
27	YRSA1-C-690V/40A	1	40	49	278	8	Suitable for size 1 fuse base or size 1 fusing type isolating switch and fusing type isolator.
28	YRSA1-C-690V/50A		50	76	488	10	
29	YRSA1-C-690V/63A		63	112	759	12	
30	YRSA1-C-690V/80A		80	200	1180	15	
31	YRSA1-C-690V/100A		100	330	2200	20	
32	YRSA1-C-690V/125A		125	600	3700	24	
33	YRSA1-C-690V/160A		160	1050	7300	30	
34	YRSA1-C-690V/200A		200	1900	13300	34	
35	YRSA1-C-690V/250A		250	3500	24100	40	
36	YRSA1-C-690V/315A		315	6500	44100	48	
37	YRSA1-C-690V/400A	2	400	15400	98500	60	Suitable for size 2 fuse base or size 2 fusing type isolating switch and fusing type isolator.
38	YRSA2-C-690V/125A		125	590	3600	25	
39	YRSA2-C-690V/160A		160	1020	7200	32	
40	YRSA2-C-690V/200A		200	1700	11500	40	
41	YRSA2-C-690V/250A		250	3200	21200	50	
42	YRSA2-C-690V/315A		315	6500	39900	55	
43	YRSA2-C-690V/350A		350	8500	56100	60	
44	YRSA2-C-690V/400A		400	11900	73500	60	
45	YRSA2-C-690V/450A		450	18500	104000	65	
46	YRSA2-C-690V/500A		500	25200	145000	70	
47	YRSA2-C-690V/630A	3	630	31400	189000	75	Suitable for size 3 fuse base or size 3 fusing type isolating switch and fusing type isolator.
48	YRSA2-C-690V/700A		700	43000	269000	80	
49	YRSA3-C-690V/400A		400	11900	73500	60	
50	YRSA3-C-690V/450A		450	17900	93000	85	
51	YRSA3-C-690V/500A		500	21900	133000	92	
52	YRSA3-C-690V/630A		630	35500	198000	100	
53	YRSA3-C-690V/700A		700	51000	285000	105	
54	YRSA3-C-690V/800A		800	82200	459000	110	
55	YRSA3-C-690V/900A		900	111000	670000	117	
56	YRSA3-C-690V/1000A		1000	161000	951000	122	



Overall Dimensions

P/N	A±1.5	B±1.5	C Max	D Max	E±0.5	F Max
YRSA1-C	135	68	52	66	20	14
YRSA2-C	150	68	60	74	25	14
YRSA3-C	150	68	75	89	32	18





YRSA Square Body Semiconductor High Speed Fuse



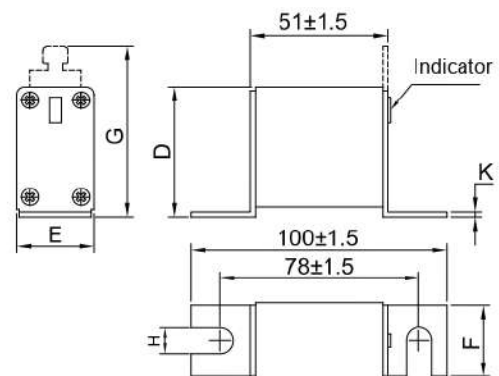
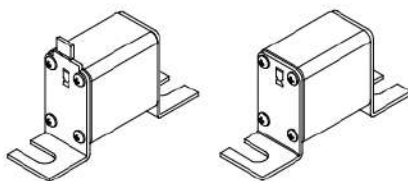
690V/700V (IEC/UL) 10-400A 11 200kA Type G

No.	P/N	Size	Rated Current (A)	Pre-arcing I^2t (A ² s)	Melt I^2t (A ² s)	Power Loss (W)	Mounting
57	YRSA000-G-690V/10A	000	10	4	26	3	Bolt M8 Torque 10 N.m
58	YRSA000-G-690V/16A		16	7	47	5.5	
59	YRSA000-G-690V/20A		20	11	77	7	
60	YRSA000-G-690V/25A		25	19	129	9	
61	YRSA000-G-690V/32A		32	40	270	10	
62	YRSA000-G-690V/40A		40	68	455	12	
63	YRSA000-G-690V/50A		50	116	772	15	
64	YRSA000-G-690V/63A		63	214	1430	16	
65	YRSA000-G-690V/80A		80	385	2560	19	
66	YRSA000-G-690V/100A		100	690	4650	24	
67	YRSA000-G-690V/125A		125	1190	8500	28	
68	YRSA000-G-690V/160A		160	2200	15800	32	
69	YRSA000-G-690V/200A		200	4180	27800	38	
70	YRSA000-G-690V/250A		250	7650	51300	42	
71	YRSA000-G-690V/315A		315	11900	80300	50	
72	YRSA00-G-690V/25A	00	25	18	128	6	Bolt M8 Torque 10 N.m
73	YRSA00-G-690V/32A		32	28	190	7	
74	YRSA00-G-690V/40A		40	51	370	9	
75	YRSA00-G-690V/50A		50	96	650	10	
76	YRSA00-G-690V/63A		63	175	1220	12	
77	YRSA00-G-690V/80A		80	320	2200	15	
78	YRSA00-G-690V/100A		100	630	4200	20	
79	YRSA00-G-690V/125A		125	1100	6990	25	
80	YRSA00-G-690V/160A		160	1980	13100	30	
81	YRSA00-G-690V/200A		200	3500	23100	35	
82	YRSA00-G-690V/250A		250	6260	42200	45	
83	YRSA00-G-690V/315A		315	10100	68600	55	
84	YRSA00-G-690V/350A		350	13500	91600	60	
85	YRSA00-G-690V/400A		400	18200	126000	70	



Overall Dimensions

P/N	D±2.5	E±1.5	F±1	G±2.5	H ₀ ±0.5	K±0.2
YRSA000-G	40	20	20	51	8	2
YRSA00-G	51	29	28	67	10	2



YRSA Square Body Semiconductor High Speed Fuse



690V/700V (IEC/UL) 40-2000A 11 200kA Type G

No.	P/N	Size	Rated Current (A)	Pre-arcing I ² t (A ² s)	Melt I ² t (A ² s)	Power Loss (W)	Mounting
86	YRSA01-G-690V/40A	01	40	49	278	8	Bolt M8 Torque 10 N.m
87	YRSA01-G-690V/50A		50	76	488	10	
88	YRSA01-G-690V/63A		63	112	759	12	
89	YRSA01-G-690V/80A		80	200	1180	15	
90	YRSA01-G-690V/100A		100	330	2200	20	
91	YRSA01-G-690V/125A		125	600	3700	24	
92	YRSA01-G-690V/160A		160	1050	7300	30	
93	YRSA01-G-690V/200A		200	1900	13300	34	
94	YRSA01-G-690V/250A		250	3500	24100	40	
95	YRSA01-G-690V/315A		315	6500	44100	48	
96	YRSA01-G-690V/350A		350	8800	59100	54	
97	YRSA01-G-690V/400A		400	15400	98500	60	
98	YRSA01-G-690V/450A		450	20300	138500	66	
99	YRSA01-G-690V/500A		500	29400	186100	70	
100	YRSA01-G-690V/550A		550	38100	231200	75	
101	YRSA01-G-690V/630A		630	52100	319000	79	
102	YRSA1-G-690V/200A	1	200	1700	11500	40	Bolt M8 Torque 10 N.m
103	YRSA1-G-690V/250A		250	3200	21200	50	
104	YRSA1-G-690V/315A		315	6500	39900	55	
105	YRSA1-G-690V/350A		350	8500	56100	60	
106	YRSA1-G-690V/400A		400	13900	88700	65	
107	YRSA1-G-690V/450A		450	19200	120100	69	
108	YRSA1-G-690V/500A		500	26700	168000	72	
109	YRSA1-G-690V/550A		550	35700	219000	76	
110	YRSA1-G-690V/630A		630	51900	337000	82	
111	YRSA1-G-690V/700A		700	70100	460000	90	
112	YRSA1-G-690V/800A		800	109000	715000	96	
113	YRSA2-G-690V/400A	2	400	11900	73500	60	Bolt M10 Torque 15 N.m
114	YRSA2-G-690V/450A		450	18500	104000	65	
115	YRSA2-G-690V/500A		500	25200	145000	70	
116	YRSA2-G-690V/550A		550	31400	189000	75	
117	YRSA2-G-690V/630A		630	43000	269000	80	
118	YRSA2-G-690V/700A		700	61100	401000	89	
119	YRSA2-G-690V/800A		800	86900	559000	105	
120	YRSA2-G-690V/900A		900	131000	803000	110	
121	YRSA2-G-690V/1000A		1000	169000	1110000	115	
122	YRSA2-G-690V/1100A		1100	228000	1390000	120	
123	YRSA2-G-690V/1250A		1250	356000	2210000	126	



YRSA Square Body Semiconductor High Speed Fuse



690V/700V (IEC/UL) 40-2000A 11 200kA Type G

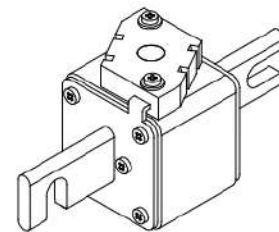
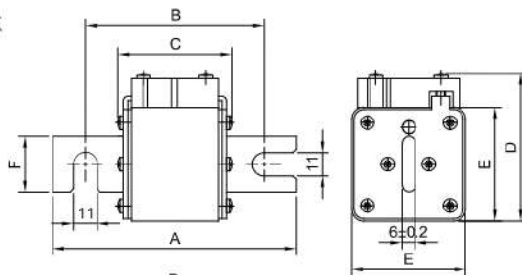
No.	P/N	Size	Rated Current (A)	Pre-arcing I ² t (A ² s)	Melt I ² t (A ² s)	Power Loss (W)	Mounting
124	YRSA3-G-690V/500A	3	500	17900	93000	85	Bolt M12 Torque 26 N.m
125	YRSA3-G-690V/550A		550	21900	133000	92	
126	YRSA3-G-690V/630A		630	35500	198000	100	
127	YRSA3-G-690V/700A		700	51000	285000	105	
128	YRSA3-G-690V/800A		800	82200	459000	110	
129	YRSA3-G-690V/900A		900	111000	670000	117	
130	YRSA3-G-690V/1000A		1000	161000	951000	122	
131	YRSA3-G-690V/1100A		1100	219000	1250000	128	
132	YRSA3-G-690V/1250A		1250	299000	1740000	135	
133	YRSA3-G-690V/1400A		1400	391000	2193000	150	
134	YRSA3-G-690V/1500A		1500	463000	2588000	160	
135	YRSA3-G-690V/1600A		1600	545000	3080000	165	
136	YRSA3-G-690V/1800A		1800	881000	4380000	168	
137	YRSA3-G-690V/2000A		2000	1120000	5200000	175	



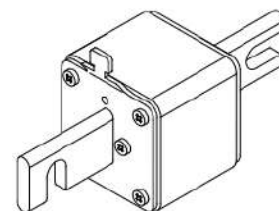
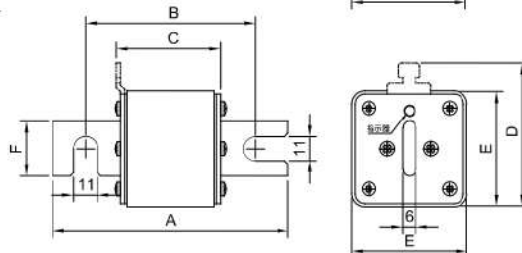
Overall Dimensions

P/N	A (80type) ±2.5	A (110type) ±2.5	B (80type)	B (110type) ±2.5	C±2.5	D (GK) ±2.5	D (GT) ±2.5	E±2.5	F±1
YRSA01-G	104	134	78	108	50	59	58	45	22
YRSA1-G	108	138	78	108	50	69	66	53	25
YRSA2-G	108	138	78	108	50	77	75	61	25
YRSA3-G	109	139	78	108	51	92	90	75	30

YRSA-GK



YRSA-GT



YRSA Square Body Semiconductor High Speed Fuse



690V/700V (IEC/UL) 40-2000A 11 200kA Type H

No.	P/N	Size	Rated Current (A)	Pre-arcing I^2t (A ² s)	Melt I^2t (A ² s)	Power Loss (W)	Mounting
138	YRSA01-HK-690V/40A	01	40	49	278	8	Bolt M8 Torque 10 N.m
139	YRSA01-HK-690V/50A		50	76	488	10	
140	YRSA01-HK-690V/63A		63	112	759	12	
141	YRSA01-HK-690V/80A		80	200	1180	15	
142	YRSA01-HK-690V/100A		100	330	2200	20	
143	YRSA01-HK-690V/125A		125	600	3700	24	
144	YRSA01-HK-690V/160A		160	1050	7300	30	
145	YRSA01-HK-690V/200A		200	1900	13300	34	
146	YRSA01-HK-690V/250A		250	3500	24100	40	
147	YRSA01-HK-690V/315A		315	6500	44100	48	
148	YRSA01-HK-690V/350A		350	8800	59100	54	
149	YRSA01-HK-690V/400A		400	15400	98500	60	
150	YRSA01-HK-690V/450A		450	20300	138500	66	
151	YRSA01-HK-690V/500A		500	29400	186100	70	
152	YRSA01-HK-690V/550A		550	38100	231200	75	
153	YRSA01-HK-690V/630A		630	52100	319000	79	
154	YRSA1-HK-690V/200A	1	200	1700	11500	40	Bolt M8 Torque 10 N.m
155	YRSA1-HK-690V/250A		250	3200	21200	50	
156	YRSA1-HK-690V/315A		315	6500	39900	55	
157	YRSA1-HK-690V/350A		350	8500	56100	60	
158	YRSA1-HK-690V/400A		400	13900	88700	65	
159	YRSA1-HK-690V/450A		450	19200	120100	69	
160	YRSA1-HK-690V/500A		500	26700	168000	72	
161	YRSA1-HK-690V/550A		550	35700	219000	76	
162	YRSA1-HK-690V/630A		630	51900	337000	82	
163	YRSA1-HK-690V/700A		700	70100	460000	90	
164	YRSA1-HK-690V/800A		800	109000	715000	96	
165	YRSA2-HK-690V/400A	2	400	11900	73500	60	Bolt M10 Torque 15 N.m
166	YRSA2-HK-690V/450A		450	18500	104000	65	
167	YRSA2-HK-690V/500A		500	25200	145000	70	
168	YRSA2-HK-690V/550A		550	31400	189000	75	
169	YRSA2-HK-690V/630A		630	43000	269000	80	
170	YRSA2-HK-690V/700A		700	61100	401000	89	
171	YRSA2-HK-690V/800A		800	86900	559000	105	
172	YRSA2-HK-690V/900A		900	131000	803000	110	
173	YRSA2-HK-690V/1000A		1000	169000	1110000	115	
174	YRSA2-HK-690V/1100A		1100	228000	1390000	120	
175	YRSA2-HK-690V/1250A		1250	356000	2210000	126	



YRSA Square Body Semiconductor High Speed Fuse



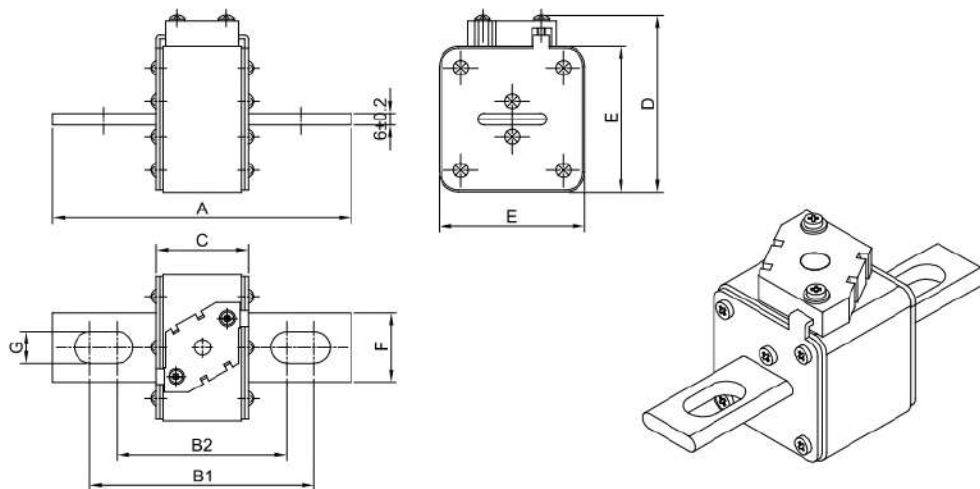
690V/700V (IEC/UL) 40-2000A I¹ 200kA Type H

No.	P/N	Size	Rated Current (A)	Pre-arcing I ² t (A ² s)	Melt I ² t (A ² s)	Power Loss (W)	Mounting
176	YRSA3-HK-690V/500A	3	500	17900	93000	85	Bolt M12 Torque 26 N.m
177	YRSA3-HK-690V/550A		550	21900	133000	92	
178	YRSA3-HK-690V/630A		630	35500	198000	100	
179	YRSA3-HK-690V/700A		700	51000	285000	105	
180	YRSA3-HK-690V/800A		800	82200	459000	110	
181	YRSA3-HK-690V/900A		900	111000	670000	117	
182	YRSA3-HK-690V/1000A		1000	161000	951000	122	
183	YRSA3-HK-690V/1100A		1100	219000	1250000	128	
184	YRSA3-HK-690V/1250A		1250	299000	1740000	135	
185	YRSA3-HK-690V/1400A		1400	391000	2193000	150	
186	YRSA3-HK-690V/1500A		1500	463000	2588000	160	
187	YRSA3-HK-690V/1600A		1600	545000	3080000	165	
188	YRSA3-HK-690V/1800A		1800	881000	4380000	168	
189	YRSA3-HK-690V/2000A		2000	1120000	5200000	175	



Overall Dimensions

P/N	A±2.5	A (115type) ±2.5	B1±2.5	B1 (115type) ±2.5	B2±2.5	B2 (115type) ±2.5	C±2.5	D±2.5	E±2	F±1	G±0.5
YRSA01-H	110	148	85	123	72	110	50	59	45	20	10
YRSA1-H	136	157	104	126	78	100	50	69	53	25	14
YRSA2-H	135	159	105	125	78	99	50	77	61	25	14
YRSA3-H	135	155	106	125	77	97	51	92	75	36	16

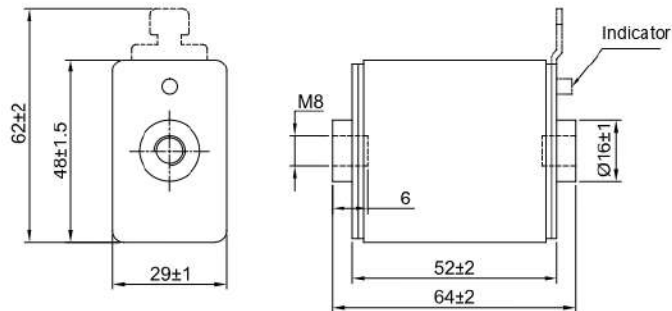


YRSA Square Body Semiconductor High Speed Fuse



690V/700V (IEC/UL) 25-4000A I1 200kA Type P

No.	P/N	Size	Rated Current (A)	Pre-arcing I^2t (A ² s)	Melt I^2t (A ² s)	Power Loss (W)	Mounting
190	YRSA00-P-690V/25A	00	25	18	128	6	Bolt M8 Torque 10 N.m
191	YRSA00-P-690V/32A		32	28	190	7	
192	YRSA00-P-690V/40A		40	51	370	9	
193	YRSA00-P-690V/50A		50	96	650	10	
194	YRSA00-P-690V/63A		63	175	1220	12	
195	YRSA00-P-690V/80A		80	320	2200	15	
196	YRSA00-P-690V/100A		100	630	4200	20	
197	YRSA00-P-690V/125A		125	1100	6990	25	
198	YRSA00-P-690V/160A		160	1980	13100	30	
199	YRSA00-P-690V/200A		200	3500	23100	35	
200	YRSA00-P-690V/250A		250	6260	42200	45	
201	YRSA00-P-690V/315A		315	10100	68600	55	
202	YRSA00-P-690V/350A		350	13500	91600	60	
203	YRSA00-P-690V/400A		400	18200	126000	70	



690V/700V (IEC/UL) 25-4000A I1 200kA

No.	P/N	Size	Rated Current (A)	Pre-arcing I^2t (A ² s)	Melt I^2t (A ² s)	Power Loss (W)	Mounting
204	YRSA01-PK-690V/40A	01	40	49	278	8	Bolt M8 Torque 10 N.m
205	YRSA01-PK-690V/50A		50	76	488	10	
206	YRSA01-PK-690V/63A		63	112	759	12	
207	YRSA01-PK-690V/80A		80	200	1180	15	
208	YRSA01-PK-690V/100A		100	330	2200	20	
209	YRSA01-PK-690V/125A		125	600	3700	24	
210	YRSA01-PK-690V/160A		160	1050	7300	30	
211	YRSA01-PK-690V/200A		200	1900	13300	34	
212	YRSA01-PK-690V/250A		250	3500	24100	40	
213	YRSA01-PK-690V/315A		315	6500	44100	48	
214	YRSA01-PK-690V/350A		350	8800	59100	54	
215	YRSA01-PK-690V/400A		400	15400	98500	60	
216	YRSA01-PK-690V/450A		450	20300	138500	66	



YRSA Square Body Semiconductor High Speed Fuse



690V/700V (IEC/UL) 25-4000A I1 200kA Type P

No.	P/N	Size	Rated Current (A)	Pre-arcing I^2t (A ² s)	Melt I^2t (A ² s)	Power Loss (W)	Mounting
217	YRSA01-PK-690V/500A	01	500	29400	186100	70	Bolt M8 Torque 10 N.m
218	YRSA01-PK-690V/550A		550	38100	231200	75	
219	YRSA01-PK-690V/630A		630	52100	319000	79	
220	YRSA1-PK-690V/200A	1	200	1700	11500	40	Bolt M8 Torque 10 N.m
221	YRSA1-PK-690V/250A		250	3200	21200	50	
222	YRSA1-PK-690V/315A		315	6500	39900	55	
223	YRSA1-PK-690V/400A		400	13900	88700	65	
224	YRSA1-PK-690V/450A		450	19200	120100	69	
225	YRSA1-PK-690V/500A		500	26700	168000	72	
226	YRSA1-PK-690V/550A		550	35700	219000	76	
227	YRSA1-PK-690V/630A		630	51900	337000	82	
228	YRSA1-PK-690V/700A		700	70100	460000	90	
229	YRSA1-PK-690V/800A		800	109000	715000	96	
230	YRSA2-PK-690V/400A	2	400	11900	73500	60	Bolt M10 Torque 15 N.m
231	YRSA2-PK-690V/450A		450	18500	104000	65	
232	YRSA2-PK-690V/500A		500	25200	145000	70	
233	YRSA2-PK-690V/550A		550	31400	189000	75	
234	YRSA2-PK-690V/630A		630	43000	269000	80	
235	YRSA2-PK-690V/700A		700	61100	401000	89	
236	YRSA2-PK-690V/800A		800	86900	559000	105	
237	YRSA2-PK-690V/900A		900	131000	803000	110	
238	YRSA2-PK-690V/1000A		1000	169000	1110000	115	
239	YRSA2-PK-690V/1100A		1100	228000	1390000	120	
240	YRSA2-PK-690V/1250A		1250	356000	2210000	126	
241	YRSA3-PK-690V/500A	3	500	17900	93000	85	Bolt M12 Torque 26 N.m
242	YRSA3-PK-690V/550A		550	21900	133000	92	
243	YRSA3-PK-690V/630A		630	35500	198000	100	
244	YRSA3-PK-690V/700A		700	51000	285000	105	
245	YRSA3-PK-690V/800A		800	82200	459000	110	
246	YRSA3-PK-690V/900A		900	111000	670000	117	
247	YRSA3-PK-690V/1000A		1000	161000	951000	122	
248	YRSA3-PK-690V/1100A		1100	219000	1250000	128	
249	YRSA3-PK-690V/1250A		1250	299000	1740000	135	
250	YRSA3-PK-690V/1400A		1400	391000	2193000	150	
251	YRSA3-PK-690V/1500A		1500	463000	2588000	160	
252	YRSA3-PK-690V/1600A		1600	545000	3080000	165	
253	YRSA3-PK-690V/1800A		1800	881000	4380000	168	
254	YRSA3-PK-690V/2000A		2000	1120000	5200000	175	