









Welcome

Our branch network has been supplying fuses and fuse products to customers throughout the UK for decades. The Specialist Fuse business continues this fine tradition, supplying all types of unusual fuses and fuse products to our customers.

As an integral part of Hagemeyer UK, a division of one of the world's leading business-to-business (B2B) distribution services companies, Specialist Fuses has an unrivalled relationship with all of the main fuse manufacturers worldwide. This enables us to stock and find a truly vast range of standard and those less popular and 'hard to find' fuses of the kind typically used in more specialist applications – the type of products that your average wholesaler would not have available from stock nor, in many cases, even know from where to source.

To complement our vast stockholding, we have the technical expertise to handle your enquiries via our dedicated team of fuse specialists.

All orders are dispatched the same day from stock and we take particular pride in our ability to deliver even the most delicate of items to our customers when promised and completely intact.

To order any of the products featured in this catalogue contact your local branch or ring us direct for help on **01905 791500**.

- Next day delivery, direct to your site via your local branch
- Our team of experts is on hand to help solve your problems
- Free application advice and technical support
- Dedicated fuses resource with over 2000 products in stock
- If we haven't got it in stock, we will get it for you quickly and reliably

All trademarks featured in this catalogue are the property of their respective owners

We are pleased to work with the following suppliers:











Sourcing a fuse? – Follow these helpful tips

There are 1000s of different fuses from many manufacturers worldwide. When trying to source a fuse the following information will be very useful.

Manufacturer

Part Number

Dimensions

(Length of fuse body, diameter, overall length, width)

Amperage

If you have obtained the information above, there is no need to proceed any further, however if you do not have this information you will need to ask:

Voltage (AC or DC)?

Characteristic (eg: gL,aM,gR)?

Are approvals required (eq: UL, IEC)?

Fixing centres (how far apart - if relevant)?

How is the fuse mounted (If relevant)?

What is the fuse protecting?

Does the fuse have an indicator?

Does the fuse have a striker to operate a microswitch?

Fuse Identification

Miniature fuses

FF = Ultra Rapid

F or QA or QB = Fast Blow

M or MD = Medium Blow

T or SB = Slow Blow

TT = Ultra Slow

Bottle fuses

DIAZED

500V Bottle Fuses D1 (E16), D11 (E27), D111 (E33)

NFO7FD

380V Bottle Fuses D01 (E14), D02 (E18)

SILAZED

Ultra Rapid Bottle Fuses D11 (E27), D111 (E33)

Industrial fuses

aR or gR or uR = Ultra Rapid

gL/gG = General Line

aM = Motor Rated

gF/gTF = Transformer/Cable Protection

gB = Mining Fuses

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Fuses

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Industrial, commercial and domestic fuses for use in a wide range of applications.

High rupturing capacity (HRC) with bolted connections are for use in industrial and commercial installations and may be fitted in fuse-units or fuse gear, two hole fixing. The fuse links comply with the revised standard BS88: part2: IEC60269 part 2 specifying characteristics for fuse links for use by authorised persons (mainly for industrial applications) and additional requirements for fuse links with bolted connections.

	BS88	INDUST	RIAL F	USE CO	MPARISO	N CHAI	RT
BS88 REF.	RATING AMPS	SIBA	GE POWER	LAWSON	COOPER BUSSMANN	MEM	BRUSH
_	2-32	50-086-01	NS	NS	NSD	SN2	FO6
_	2-20	50-013-01	SS	SS	SSN	SS	DO4
A 1	2-32	50-085-01	NIT	NIT	NITD	SA2	F21
A 2	2-32	50-001-01	TIA	TIA	AAO	SB3	HO7
A 3	32-63	50-002-01	TIS	TIS	BAO	SB4	KO7
_	2-63	50-006-01	TB	TB	BC	SE4	KO8
В1	2.63	50-007-01	TBC	TBC	AD/BD	SF3	KO9
В1	80-100	50-008-01	TC	TC	CD	SF5	LO9
В2	125-200	50-009-01	TF	TF	D D	SF6	M O 9
A 4	63-100	50-003-01	TCP	TCP	CEO	SD5	L14
_	125-200	50-004-01	TFP	TFP	DEO	SD6	M 1 4
В3	250-315	50-010-01	TKF	TKF	ED	SF7	N O 9
В4	355-400	50-110-01	TMF	TMF	ED	SF8	PO9
C1	250-315	50-011-01	TKM	TKM	EFS	SG7	N 1 1
C1	255-400	50-039-01	ТM	ТM	EF	SH8	P11
C 2	450-630	50-040-01	TTM	TTM	FF	SH9	R11
C 3	560-800	50-041-01	TLM	TLM	GF	SH10	S11
_	250-400	50-104-01	TMT	TMT	-	-	P12
-	450-630	50-042-01	TT	TT	FG	SY9	R12

NIT/ NITD/ SA2





- n 80kA at 550V
- n Total length 55mm
- n Diameter 13.8mm

NITD2	2 A	1050152875
NITD4	4 A	1050152876
NITD6	6 A	1050152877
NITD10	10A	1050152878
NITD16	16A	1050152879
NITD20	2 0 A	1050152880
NITD25	2 5 A	1050152881
NITD32		

⁴ Available at your local Newey & Eyre branch

TIA/ AAO/ SB3





- n 80kA at 550V
- n Total length 85mm
- n Diameter 13.7mm

AAO2	2 A	1050152883
AAO4	4 A	1050152884
AAO6	6 A	1050152885
AAO10	10A	1050152886
AA016	16A	1050152887
AAO20	2 0 A	1050152888
AA025	2 5 A	1050152889
AA032		

Available at your local Newey & Eyre branch

TIS/ BAO/ SB4





- n 80kA at 550V
- n Total length 87mm
- n Diameter 21mm

BAO40	4 0 A	1050152891
BAO50	5 0 A	1050152892
BA063	63A	1050152893

4 Available at your local Newey & Eyre branch

TCP/ CEO/ SD5





- n 80kA at 550V
- n Total length 110mm
- n Diameter 21mm

CEO80	8 0 A	1050152894
CEO100	100A	1050152895

TFP/ DEO/ SD6





- n 80kA at 415V AC
- n Total length 110mm
- n Diameter 31mm

DEO125	125A	1050027739
DEO160	160A	1050027769
DEO200	200A	1050027740
125SD6	125A	1050071726
160SD6	160A	1050071727
200SD6		

4 Available at your local Newey & Eyre branch

NS/ NSD/ SN2





- n 80kA at 415V AC
- n Total length 58.5mm
- n Diameter 13.8mm

NSD2	2 A	1050027814
NSD4	4 A	1050027815
NSD6	6 A	1050027816
NSD10	10A	1050027817
NSD16	16A	1050027818
NSD10	10A	1050027817
NSD25	2 5 A	1050027820
NSD32	3 2 A	1050027821
2SN2	2 A	1050071644
4SN2	4 A	1050071645
6SN2	6 A	1050071646
10SN2	10A	1050071647
16SN2	16A	1050071651
20SN2	2 0 A	1050071648
25SN2	2 5 A	1050071650

TC/ CD/ SF5





- n 80kA at 550V AC
- n Total length 126mm
- n Diameter 21mm

L			
	CD80	80A	1050027733
1	CD100	0 0 11	1030027733
	CDIOU		

4 Available at your local Newey & Eyre branch

TF/ DD/ SF6





- n 80kA at 550V AC
- n Total length 136mm
- n Diameter 31mm

DD125	125A	1050027737
DD160	160A	1050027768
22100		1000027700

Available at your local Newey & Eyre branch

ESD



- n 80kA at 440V
- n Total length 69mm

ESD16	16A	1050064036
ESD20	2 0 A	1050063346
ESD32	3 2 A	1050063347
ESD40	4 0 A	1050063348
ESD50	5 0 A	1050063349

TKF/ TMF/ ED / SF7/ SF8





- n 80kA at 550V AC
- n Total length 136mm
- n Diameter 38mm

ED250	250A	1050063933
ED315	315A	1050063934
ED355	355A	1050063318







- n 20kA at 240V
- n Total length 47mm

SSD4	4 A	1050065416
SSD6	6 A	1050063343
SSD10	10A	1050063344
SSD16	16A	1050063345
SSD25	2 5 A	1050064034

TM/ EF / SH8



- n 80kA at 550V AC
- n Total length 209mm
- n Diameter 38mm
- n Fixing centres 133mm inner holes

355 SH8	355A	1050063320
1 222 23	5 5 5 11	10000000

TTM/ FF / SH9



- n 80kA at 550V AC
- n Total length 210mm
- n Diameter 74mm
- n Fixing centres 133mm inner holes

450SH9	4 5 0 A	1050063322
500SH9	5 0 0 A	1050063323
560SH9	5 6 0 A	1050063324

TLM/ GF / SH10



- n 80kA at 550V AC
- n Total length 210mm
- n Diameter 83mm
- n Fixing centres 133mm inner holes

50-041-	630A	1050063326
01/630A	670A	1050063327
50-041- 01/670A	710A	1050063328
710SH10	7 5 0 A	1050063329
, 1001110		

NIT/ NITD/ SA2 aM



- n 80kA at 415V AC
- n Total length 55mm
- n Diameter 17.5mm

NITD20M25	20M25	1050063385
NITD20M32	20M32	1050063386
NITD32M40	3 2 M 4 0	1050063387
NITD32M50	3 2 M 5 0	1050063388
	3 2 M 6 3	

TIA/ AAO/ SB3 aM



- n 80kA at 550V AC
- n Total length 85mm
- n Diameter 21mm

50-001-	6 M 1 O	1050063361
16/10A	10M16	1050063362
50-001- 16/16A	20M25	1050063363
50-001-	25M32	1050063364
16/25A	32M35	1050063365
50-001-	3 2 M 4 0	1050063366
16/32A	3 2 M 5 0	1050063367
32SB3M35	32M63	1050063368

TIS/ BAO/ SB4 aM



- n 80kA at 550V AC
- n Total length 87mm
- n Diameter 21mm

50-002-	40M50	1050063369
16/50A	50M63	1050063370
50-002- 16/63A	63M80	1050063371
10/03A	63M100	1050063372

TCP/ CEO / SD5 aM



- n 80kA at 550V AC
- n Total length 110mm
- n Diameter 31mm

50-003-	63M80	1050063373
16/80	80M100	1050063375
50-003- 16/100	100M125	1050063376
1	100M160	1050063377
CEO100M125		

NS/ NSD / SN2 aM



- n 80kA at 415V AC
- n Total length 58.5mm

NSD20M25	2 0 M 2 5	1050063390
NSD20M32	20M32	1050063390
NODE VIISE	201132	1030003391

TB/ BC / SE4 aM



- n 40kA at 250V DC
- n 80kA at 550V ac
- n Total length 113.5mm
- n Diameter 21mm

1050065411

TC/ CD/ SF5 aM



- n 80kA at 550V AC
- n Total length 136mm
- n Diameter 31mm

50-008-	63M80	1050063379
16/80	100M125	1050063380
CD100M125	100M160	1050063381
CD100M160	100M200	1050063932

TF/ DD/ SF6 aM



- n 80kA at 550V AC
- n Total length 136mm
- n Diameter 31mm

DD200M250	200M250	1050063383
BB2 0 0112 3 0	20011230	1030003303

TKF/ ED/ SF7 aM



- n 80kA at 550V AC
- n Total length 136mm
- n Diameter 59mm

A range of fuses for protection of electrical circuits and consumer appliances. Glass fuses are ICN breaking capacity, ceramic are high breaking capacity.

GLASS 20MM X 5MM OUICK BLOW 250V



70-001-	100mA	1050063057
34/100mA	125mA	1050066457
70-001- 34/125mA	2 5 0 m A	1050068363
70-001-	3 1 5 m A	1050068364
34/250mA	5 0 0 m A	1050063058
70-001-	6 3 0 m A	1050068365
34/315mA	8 0 0 m A	1050068676
70-001- 34/500mA	1 A	1050063059
70-001-	1.25A	1050068366
34/630mA	1.6A	1050068367
70-001-	2 A	1050063060
34/800mA	2.5A	1050068368
70-001-34/1A	3.15A	1050063061
70-001- 34/1.25A	4 A	1050068369
70-001-34/1.6A	5 A	1050063062
70-001-34/1.6A 70-001-34/2A	6.3A	1050063063
	8 A	1050063064
70-001-34/2.5A		

GLASS 20MM X 5MM SLOW BLOW 250V



S506-100mA-R	100mA	1050064025
S506-125mA-R	1 2 5 m A	1050066458
S506-160mA-R	160mA	1050068677
S506-250mA-R	2 5 0 m A	1050063066
S506-315mA-R	3 1 5 m A	1050068678
S506-500mA-R	5 0 0 m A	1050063067
S506-800mA-R	8 0 0 m A	1050068679
S506-1A	1 A	1050063068
S506-1.25A	1.25A	1050068680
S506-1.6A	1.6A	1050068681
S506-2A	2 A	1050063069
S506-2.5A	2.5A	1050068682
S506-3.15A	3.15A	1050063070
S506-4A	4 A	1050068683
S506-5A	5 A	1050063071
S506-6.3A	6.3A	1050063072
S506-8A	8 A	1050063073
S506-10A	10A	1050063074
70-001- 35/12.5A	12.5A	1050063075

GLASS 32MM X 6MM OUICK BLOW 250V



AGC100mA	100mA	1050068371
AGC250mA	2 5 0 m A	1050064026
AGC500mA	5 0 0 m A	1050063077
AGC800mA	8 0 0 m A	1050068684
AGC1A	1 A	1050063078
AGC1.5A	1.5A	1050063079
AGC2A	2 A	1050063080
AGC2.5A	2.5A	1050068685
AGC3A	3 A	1050063081
AGC4A	4 A	1050068686
AGC5A	5 A	1050063082
AGC6.3A	6.3A	1050063083
AGC8A	8 A	1050063084
AGC10A	10A	1050063085
AGC15A	15A	1050063086
AGC20A	2 0 A	1050063087

SPECIALIST

Stockist of Moflash Beacons and Klaxon Sounders

GLASS 32MM X 6MM SLOW BLOW 250V



70-059-	5 0 0 m A	1050068687
61/500mA	1 A	1050063088
70-059-61/1A	2 A	1050063089
70-059-61/2A	3 A	1050063090
70-059-61/3A	5 A	1050063091
70-059-61/5A	6.3A	1050063092
70-059-61/6.3A	8 A	1050063093
70-059-61/8A	1 0 A	1050063094
70-059-61/10A	12.5A	1050065054
70-059-	16A	1050063095
61/12.5A	2 0 A	

SPECIALIST

Stockist of Heatrae, Santon and Zip Water Spares

CERAMIC 20MM X 5MM OUICK BLOW 250V



S501-100mA	100mA	1050063097
S501-500mA	5 0 0 m A	1050063098
S501-1A	1 A	1050063099
S501-2A	2 A	1050063100
S501-3.15mA	3.15A	1050063101
S501-5A	5 A	1050063102
S501-6.3A	6.3A	1050063103
S501-8A	8 A	1050063104
S501-10A	10A	1050063105
	16A	1050063106

CERAMIC 20MM X 5MM SLOW BLOW 250V



70-007-65/250mA	250mA	1050063107
70-007-65/500mA	5 0 0 m A	1050063108
70-007-65/1A	1 A	1050063109
70-007-65/2A	2 A	1050063110
70-007-65/3.15A	3.15A	1050063111
70-007-65/5A	5 A	1050063112
70-007-65/6.3A	6.3A	1050063113
70-007-65/8A	8 A	1050063114
70-007-65/10A		

CERAMIC 25MM X 5MM OUICK BLOW 250V



70-010-	2 A	1050063146
04/2A	4 A	1050063147
70-010- 04/4A	5 A	1050063148
70-010- 04/5A	6.3A	1050063149

CERAMIC 25MM X 5MM MEDIUM BLOW 250V



70-010-	5 0 0 m A	1050063151
05/0.5A	1 A	1050063152
70-010-05/1A	2 A	1050063153
70-010-05/2a	3.15A	1050063154
70-010- 05/3.15A	4 A	1050063155
70-010-05/4A	6.3A	1050063156
/U-U1U-U5/4A		

CERAMIC 32MM X 6MM OUICK BLOW 500V 250mA-16A / 400V 20-



70-065-	5 0 0 m A	1050063116
63/500mA	1 A	1050063117
70-065-63/1A	2 A	1050063118
70-065-63/2A	3 A	1050063119
70-065-63/3A	4 A	1050063120
70-065-63/4A	5 A	1050063121
70-065-63/5A	7 A	1050063121
70-065-63/7A	1 0 A	1050063123
70-065-63/10A	IVA	1030003123

Confused about fuses
Phone your **SPECIALIST**on: 01905 791500

CERAMIC 32MM X 6MM SLOW BLOW 500V 500mA-16A / 400V 20-25A



70-065-	5 0 0 m A	1050068370
65/500mA	1 A	1050063125
70-065-65/1A	2 A	1050063126
70-065-65/2A	3.15A	1050063127
70-065- 65/3.15A	5 A	1050063128
70-065-65/5A	6.3A	1050063129
70-065-	8 A	1050063130
65/6.3A	10A	1050063131
70-065-65/8A	12.5A	1050063132
70-065-65/10A	1 6 A	1050063133
70-065-	2 0 A	1050063134
65/12.5A	2 5 A	1050063135
70-065-65/16A	3 2 A	

SPECIALIST

Stockist of Santon Industrial Immersion Heaters

CERAMIC 32MM X 6MM ULTRA RAPID 700V 250mA-2A / 500V / 2.5A -



70-125-40/1A	1 A	1050063137
70-125-40/2A	2 A	1050063138
70-125-40/3.15A	3.15A	1050063139
70-125-40/5A	5 A	1050063140
70-125-40/6.3A	6.3A	1050063141
70-125-40/10A	10A	1050063142
70-125-40/12.5A	12.5A	1050063143
70-125-40/16A	16A	1050063144

SPECIALIST

we are pleased to work with the following suppliers:









FUNCTIONS & APPLICATIONS

gL/gG

FUNCTIONS

Industrial fuse, gG curve (black marking) - standard NF EN 60269-1 and 2-1 Protection of cables and electrical devices. Discrimination ensured between two fuses for which there is a margin of two current ratings (e.g. 160a and 100a)

APPLICATIONS

Protection at all levels of electrical distribution against overloads and short circuits. Main switchboard, feeder switchboards, main cubicles.

aM

FUNCTIONS

Industrial fuse, aM curve (green marking) - standard NF EN 60269-1 and 2-1 Direct protection of motors, must operate in conjunction with an external protection device (thermal relay). Easy discrimination with the gG fuses positioned upstream. Discrimination ensured between two fuses where there is a margin of two current ratings (e.g. 160a and 100a)

APPLICATIONS

Protection of all low voltage motors.

gR

FUNCTIONS

Ultra fast protection fuse for semi conductors, very current limiting, low I²t. Full range fuse.

APPLICATIONS

Power semi conductor protection of soft starters, static relays, uninterruptible power supplies (UPS), variable speed drives, frequency converters.

8MM X 32MM aL/aG



n 400V 20kA

15013 -	2 A	1050063158
Q219227J	4 A	1050063159
15019 - W222958J	6 A	1050063160
15023 -	1 0 A	1050063161
A211025J	1 6 A	1050063162
15031 -	2 0 A	1050068361
A214613J		

8MMX 32MM FUSE HOLDERS



n Din Rail Mounting

24000 -	CMS 8/10 NEUTRAL	1050063189
D305006K	one of to Median	1030003109

10MM X 38MM aL/aG



- n 500V 120kA up to 25A
- n 400V 120kA 32A

16011- B212061J	1 A	1050063750
16013 - D213098J	2 A	1050063164
16019 - X213598J	4 A	1050063165
16023 - K215128J	6 A	1050063166
16027 - D217169J	8 A	1050063167
16031- S218194J	10A	1050063168
16033 - W219761J	12A	1050063169
16035 - G200750J	16A	1050063170
16037 - D211028J	2 0 A	1050063171
16039 - E213099J	2 5 A	1050063172

SPECIALIST

Stockist of Vent Axia and Xpelair Fan Spares

10MM X 38MM aM (MOTOR RATED)



- n 500V 120kA up to 20A
- n 400V 120kA up to 25A 32A

16513 - H218714J	2 A	1050063174
16519 - W219232J	4 A	1050063175
16523 - F222208J	6 A	1050063176
16527 - Z201295J	8 A	1050063177
16531 - Y211552J	10A	1050063178
16533 - A213601J	12A	1050063179
16535 - F214618J	16A	1050063180
16537 - X216151J	2 0 A	1050063181
16539 - G217172J	2 5 A	1050063182
16543 - J218715J	3 2 A	1050063183

10MM X 38MM gR (ULTRA RAPID)



n 600V 200kA

C330006J	4 A	1050063485
E330008J	6 A	1050063486
G330010J	10A	1050063487
J330012J	16A	1050063488
K330013J	2 0 A	1050063489
L330014J	2 5 A	1050063490

10MM X 38MM FUSE HOLDERS



n Din Rail Mounting

24202 -	CMS10 1P	1050063185
T305020K	CMS10 1P + NEUTRAL	1050063186
24206 -	CMS10 2P	1050063187
V305021F	011010 21	10300010,

14MM X 51MM qL/qG





- n Rated at 80kA at 690V
- n Rated at 120kA at 400V 500V

Y219234J	2 A	1050063190
A219765J	4 A	1050063191
H222210J	6 A	1050063192
L200754J	10A	1050063193
A211554J	16A	1050063194
Z212588J	2 0 A	1050063195
C213603J	2 5 A	1050063196
W216656J	3 2 A	1050063197
X218198J	4 0 A	1050063198

14MM X 51MM aM (MOTOR RATED)





- n Rated at 80kA at 690V
- n Rated at 120kA at 400V 500V

S215135J	6 A	1050063200
Z216659J	10A	1050063201
Q217686J	16A	1050063202
P218720J	2 0 A	1050063203
E219769J	2 5 A	1050063204
M222214J	3 2 A	1050063205
Q200758J	4 0 A	1050063206
E211558J		

14MM X 51MM GR (ULTRA RAPID) NO STRIKER





n Rated at 200kA at 690V

R220907J	1 0 A	1050063492
P220905J	16A	1050063493
E220735J	2 0 A	1050063494
N220904J	2 5 A	1050063495
W220819J	3 2 A	1050063496
м220903.Т		

Care must be taken of de-rating the above fuses where necessary when using accessories

14 X 51MM GR (ULTRA RAPID) WITH STRIKER



n Rated at 300kA at 660V

X220935J	16A	1050063498
W220934J	2 0 A	1050063499
V220933J	2 5 A	1050063500
V220818J	3 2 A	1050063501

Care must be taken of de-rating the above fuses where necessary when using accessories

14MM X 51MM FUSE HOLDERS



n Din Rail Mounting

222990 - F222990F	Single Pole CMS14 1P	1050063208

22MM X 58MM aL/aG



- n Rated at 80kA at 690V
- n Rated at 120kA at 400V 500V

P214626J	5 0 A	1050063210
Y215646J	63A	1050063211
Q217180J	8 0 A	1050063212
E218205J	100A	1050063213

22MM X 58MM aM (MOTOR RATED)



- n Rated at 80kA at 690V
- n Rated at 120kA at 400V 500V

V213113J	3 2 A	1050065419
N213613J	4 0 A	1050063215
R214122J	5 0 A	1050063216
C215650J	6 3 A	1050063218
H216667J	8 0 A	1050063219
Y217693J	100A	1050063220

22MM X 58MM GR (ULTRA RAPID) NO STRIKER



n Rated at 200kA at 690V

Z220914J	4 0 A	1050063503
Y220913J	5 0 A	1050063504
X220912J	6 3 A	1050063505
Y220821J	8 0 A	1050063506

Care must be taken of de-rating the above fuses where necessary when using accessories

22MM X 58MM GR (ULTRA RAPID) WITH STRIKER



n Rated at 200kA at 690V

E220919J	4 0 A	1050063508
D220918J	5 0 A	1050063509
C220733J	63A	1050063510
X220820J	8 0 A	1050063511

Care must be taken of de-rating the above fuses where necessary when using accessories

22MM X 58MM FUSE HOLDERS



n Din Rail Mounting

29202 - E213628F

CMS 22

1050063222

SPECIALIST

Stockist of Dimplex and Creda Heating Spares

DIAZED BOTTLE FUSES

Diazed fuses, commonly called "bottle" fuses, are available in five sizes, ND to 25amp, D11 to 25amp, D111 to 63amps, D1V** to 100amp and DV** to 200amp. Fuse accessories are sized to match these five sizes.

NEOZED BOTTLE FUSES

Neozed fuses are more compact than Diazed fuses. Three sizes are available, D01 to 16amp, D02 to 63amp and D03 to 100amp. Fuse accessories are sized to match these three sizes.

On both types, each size fuse body has a different diameter to fit only into the appropriate screw cap and fuse base. Also, the tips have different diameters, depending on their current rating. The diameter of the tip matches the diameter of the hole in the adaptor screw to ensure that no fuse with a higher rating than intended for the circuit can be installed. This prevents damage to the circuit or equipment the fuse protects. Additionally, fuses and adaptor screws are colour coded to avoid mismatching; for example: 10amp bottle fuses have red pop-out indicators in their head, matching the red ring of the 10amp adaptor screw. When a 10amp bottle fuse has blown, the colour coded indicator on the head of the fuse will pop out, giving visible indication through a glass window in the screw cap.

The fuse is held in place by the screw cap, which is screwed into the fuse base. Fuse bases are available in one and three pole designs. Fuse bases can be panel mounted or snapped onto a standard 35mm DIN rail.

** For D1V and DV please contact us.

OPERATING CLASSES

gL/gG - slow blow protects cable and conductors from damage due to overload and short circuits.

Typical markings: gL/gG

 ${\bf gR}$ - super fast blow protects semiconductors like diodes, SCRS, etc. Current limiting super fast blow characteristic for short circuit protection.

Typical markings: Ultra rapid, Recticur, gR.

D01 (E14) aL/aG (NEOZED) 11MM X 36MM



n Rated at 400V AC

2NZ01	2 A	PINK	1050063224
4 N Z O 1	4 A	BROWN	1050063225
6NZ01	6 A	GREEN	1050063226
10NZ01	10A	RED	1050063227

D02 (E18) gL/gG (NEOZED) 15.3MM X 36MM



n Rated at 400V AC

20NZ02	2 0 A	BLUE	1050063229
25NZ02	2 5 A	YELLOW	1050063230
35NZ02	3 5 A	BLACK	1050063231
50NZ02	5 0 A	WHITE	1050063232
63NZO2			

D02 (E18) aR (NEOZED) 15.3MM X 36MM



- n Ultra Rapid
- n Rated at 400V AC

20NZ02R	2 0 A	BLUE	1050063513
25NZ02R	2 5 A	YELLOW	1050063514
35NZ02R	3 5 A	BLACK	1050063515
50NZ02R	5 0 A	WHITE	1050063516

D1 (E16) aL/aG (DIAZED) 12.5MM X 50MM





n Rated at 500V AC

2D16	2 A	PINK	1050063234
4D16	4 A	BROWN	1050063235
6D16	6 A	GREEN	1050063236
10D16	10A	RED	1050063237
16D16	16A	GREY	1050063238
20D16	2 0 A	BLUE	1050063239

D11 (E27) aL/aG (DIAZED) 22MM X 50MM



n Rated at 500V AC

2D27	2 A	PINK	1050063241
4D27	4 A	BROWN	1050063242
6D27	6 A	GREEN	1050063243
10D27	10A	RED	1050063244
16D27	16A	GREY	1050063245
20D27	2 0 A	BLUE	1050063246

D11 (E27) gR (DIAZED) 22MM X 50MM



- n Ultra Rapid
- n Rated at 500V AC

2D27R	2 A	PINK	1050063518
4D27R	4 A	BROWN	1050063519
6D27R	6 A	GREEN	1050063520
10D27R	10A	RED	1050063521
16D27R	16A	GREY	1050063522
20D27R	2 0 A	BLUE	1050063523
25D27R	2 5 A	YELLOW	1050063524
30D27R			

D111 (E33) aL/aG (DIAZED) 27MM X 50MM



n Rated at 500V AC

35D33	3 5 A	BLACK	1050063248
50D33	5 0 A	WHITE	1050063249

D111 (E33) aR (DIAZED) 27MM X 50MM



- n Ultra Rapid
- n Rated at 500V AC

35D33R	3 5 A	BLACK	1050063526
50D33R	5 0 A	WHITE	1050063527
3003310	3 0 11	WILLE	1030003327

ACCESSORIES FOR BOTTLE FUSES

D11/E27 ACCESSORIES



SFD27	SINGLE POLE FUSE BASE	1050063251
CD27	SCREWCAPS	1050063252
2GD27	GAUGE PIECE 2A	1050063253
4GD27	GAUGE PIECE 4A	1050063254
6GD27	GAUGE PIECE 6A	1050063255
10GD27	GAUGE PIECE 10A	1050063256
16GD27	GAUGE PIECE 16A	1050063257
20GD27	GAUGE PIECE 20A	1050063258
25GD27		

D111/E33 ACCESSORIES



SFD33	SINGLE POLE FUSE BASE	1050063260
CD33	SCREW CAP	1050063261
35GD33	GAUGE PIECE 35A	1050063262
50GD33	GAUGE PIECE 50A	1050063263

NH fuses are typically used for distribution applications to large electrical devices such as motors and drives etc. They are available in seven sizes with a current range of 3 to 1600 amps.

NH fuses have knife blades at both ends which mount into one or three pole fuse bases. Fuse bases can be panel or DIN rail mounted.

OPERATING CLASSES

- **gL/gG** offers protection at every level. Typically used for distribution circuit or resistive loads.
- **aM** offers protection for all low voltage motors. Fast acting short circuit protection but slow acting overload protection.
- **aR** Semi conductor protection partial range, short circuit protection for devices such as diodes, SCRs etc.
- **gR** Semi conductor protection, full range, overload and short circuit protection for devices such as diodes, SCRs etc.

SIZE C00 (000) aL/aG 500V



- n Total length 78.5mm
- n Body size 49mm x 43mm x 21mm

B211946C	2 A	1050064027
M212462C	4 A	1050064028
D213995C	6 A	1050063265
B219651C	10A	1050063266
K222097C	16A	1050063267
A222847C	2 0 A	1050063268
E201185C	2 5 A	1050063269
Z211438C	3 2 A	1050063270
C211947C	3 5 A	1050063271
N212463C	4 0 A	1050063272
T212974C	5 0 A	1050063273
E213996C	63A	1050063274
Y216543C	8 0 A	1050063275

SIZE C00 (000) GR (ULTRA RAPID) 660V 80MM BASE



- n Total length 100mm
- n Body Size 54mm x 40mm x 20mm

X330277C	16A	1050063943
K330174C	2 5 A	1050063944
L330175C	3 2 A	1050063945
M330176C	4 0 A	1050063946
N330177C	5 0 A	1050063947
P330178C	6 3 A	1050063948
T330182C	8 0 A	1050063949
V330183C	100A	1050063950
W330184C	125A	1050063951
X330185C	160A	1050063952

SIZE C00 (000) GR (ULTRA RAPID) 660V SOLID TAG



- n Total length 78.5mm
- n Body Size 49mm x 43mm x 21mm

170M1558	10A	1050063954
Y210609C	16A	1050063955
Z210610C	2 0 A	1050063956
A210611C	2 5 A	1050063529
B210612C	3 5 A	1050063530
C210613C	4 0 A	1050063531
D210614C	5 0 A	1050063532
E210615C	6 3 A	1050063533

SIZE C00 (000) URB (ULTRA RAPID) 690V SOLID TAG



- n Total length 78.5mm
- n Body Size 49mm x 43mm x 21mm

Q320059C	8 0 A	1050063546
V320063C	100A	1050063547
B320069C	160A	1050063548
D320071C	2 0 0 A	1050063957
H320075C	250A	1050063958
M320079C	315A	1050063959

SIZE 00 aL/aG 500V



- n Total length 78.5mm
- n Body Size 49mm x 38mm x 30mm

SIZE 00 aM (MOTOR RATED) 690V



- n Total length 78.5mm
- n Body Size 49mm x 38mm x 30mm

A227861C	5 0 A	1050063279
F227866C	8 0 A	1050063280
G227867C	100A	1050063281
H227868C	125A	1050063282

SIZE 00 gR, aR (ULTRA RAPID) 690V 80MM BASE



- n Total length 100mm
- n Body Size 54mm x 51mm x 28mm

L330175 (gR) with indicator	3 2 A	1050063960
M330176 (gR) with indicator	4 0 A	1050063961
N330177 (gR) with indicator	5 0 A	1050063535
P330178 (gR) with indicator	63A	1050063536
Q330179 (gR) with indicator	8 0 A	1050063537
D320163 (aR)	100A	1050063538
F320165 (aR)	125A	1050063539
K320169 (aR)	160A	1050063540
M320171 (aR)	200A	1050063541
R320175 (aR)	250A	1050063542
W320179 (aR)	315A	1050063962
B330189 (aR) 500V max with indicator	350A	1050064029

SPECIALIST

Stockist of Moflash Beacons and Klaxon Sounders

SIZE 00 FUSE HOLDERS AND ACCESSORIES



Z217211K (ceramic	SINGLE POLE CERAMIC	1050063284
40002)	SINGLE POLE POLYESTER	1050063285
F215170C (polyester 41002)	SINGLE POLE RAIL FIXING	1050063286
R216192C	PB00 SEPARATING PLATE	1050063287
W212654B	COVER SHIELDS	1050063288
M222513F	FUSE COVER	1050063289
G213170C	FUSE PULLER	1050063290
P215592A	MICRO SWITCH	1050063291
1213372A	LOAD SWITCH 3 POLE	1050063622

NB. 2 pole and 3 pole can be made up from using single pole holders plus a separating plate. The polyester bases clip together.

SIZE 0 qL/qG 500V



- n Total length 125mm
- n Body Size 68mm x 48mm x 30mm

N218765C	6 3 A	1050063292
C219284C	8 0 A	1050063293
D219814C	100A	1050063294
P222492C	125A	1050063295

SIZE 1 aL/aG 500V



- n Total length 135mm
- n Body Size 68mm x 50mm x 44mm

L214669C	6 3 A	1050063297
S215687C	8 0 A	1050063298
X216703C	100A	1050063299
Q217732C	125A	1050063300
A218247C	160A	1050063301
P218766C	2 0 0 A	1050063302

SIZE 1 aM (MOTOR RATED) 690V



- n Total length 135mm
- n Body Size 68mm x 50mm x 44mm

100NH1M	100A	1050063304
100111111	10011	103000001

SIZE 1 oR (ULTRA RAPID)



- n 63 -100A 690V
- n 125 400A 500V
- n Total length 135mm

M320355C	6 3 A	1050063963
(aR)	8 0 A	1050063964
K320399C (aR)	100A	1050063965
W320363C (aR)	125A	1050063966
Y301252C	160A	1050063967
Z301253C	2 0 0 A	1050063549
A301254C	250A	1050063550
B301255C	315A	1050063968
R301177C	350A	1050063969

SIZE 1 FUSE HOLDERS AND ACCESSORIES





R219274C	SINGLE POLE CERAMIC	1050063306
A223008C	SINGLE POLE POLYESTER	1050063307
L201881F	COVER SHIELD	1050063308
K214691C	FUSE COVER	1050063309
K235828A	LOAD SWITCH 3 POLE	1050063623

NB. 2 pole and 3 pole can be made up from using single pole holders plus a separating plate. The polyester bases clip together.

SIZE 2 gR/uR (ULTRA RAPID) 690V



- n Total length 150mm
- n Body Size 68mm x 61mm x 51mm

1050063971
1050063972
1050063973

SIZE 3 aL/aG 500V



- n Total length 150mm
- n Body Size 73mm x 73mm x 72mm

M217223	ι Δ	500A	1050063316
11217223		3 0 0 11	1030003310

SIZE 3 gR/uR (ULTRA RAPID) 690V



- n Total length 150mm
- n Body Size 73mm x 73mm x 72mm

R320589A	630A	1050063975
S320590A	700A	1050063976
T320591A	8 0 0 A	1050063977
V320592A	9 0 0 A	1050063978

Confused about fuses
Phone your **SPECIALIST**on: 01905 791500

SIZE 2 aL/aG 500V



- n Total length 150mm
- n Body Size 68mm x 61mm x 51mm

M214670C	100A	1050063310
R217733C	200A	1050063311
R222494C	250A	1050063312
E201346C	315A	1050063313
Q201862C	355A	1050063314

SIZE 2 FUSE HOLDERS AND ACCESSORIES

NB. 2 pole and 3 pole can be made up from using single pole holders plus a separating plate. The Polyester bases clip together.

SPECIALIST

Stockist of Santon Industrial Immersion Heaters

JTYPE (WEDGE FUSES)

Fuses available in 82mm and 92mm fixing centre sizes up to 400A and 800A respectively for wedge tightening contacts. For use by the electricity supply industry in distribution systems.

82MM FIXING CENTRES 415V



20MJ30-8	2 0 A	1050063919
32MJ30-8	3 2 A	1050063920
40MJ30-7	4 0 A	1050063921
63MJ30-7	6 3 A	1050063331
80MJ30-7	8 0 A	1050063922
100MJ30-7	100A	1050063332
125MJ30-7	125A	1050065421
160MJ30-7	160A	1050063333
200MJ30-7	200A	1050063334
250MJ30-7	250A	1050063335
315MJ30-7	315A	1050063336

JTYPE (WEDGE FUSES)

92MM FIXING CENTRES 415V



20MJ31-8	2 0 A	1050328980
32MJ31-8	3 2 A	1050063923
40MJ31-8	4 0 A	1050065413
50MJ31-8	5 0 A	1050063924
63MJ31-8	6 3 A	1050063925
80MJ31-7	8 0 A	1050063926
100MJ31-7	100A	1050063927
125MJ31-7	125A	1050065410
160MJ31-7	160A	1050063928
200MJ31-7	2 0 0 A	1050063929
250MJ31-7	250A	1050063930
315MJ31-7	315A	1050065420
400MJ31-7	4 0 0 A	1050063338
500RJ31-7	5 0 0 A	1050063339
630SJ31-6	630A	1050063340



we are pleased to work with the following suppliers:









STREET LIGHTING TYPES

For street lighting applications.

STD 33kA 240V



- n Total length 47mm
- n Diameter 11mm
- n Fixing centres 35mm

	<u> </u>	
STD2	2 A	1050064030
STD4	4 A	1050064031
STD6	6 A	1050063374
STD10	1 0 A	1050063341
STD16	16A	1050063342
STD25	2 5 A	1050064032
STD32		

XS



- n Total length 80mm
- n Body Size 38mm x 26.4mm

XS63	63A	1050064037
XS80	8 0 A	1050064038
XS100	100A	1050064039

STREET LIGHTING TYPES CROSS REFERENCE STD* LS* LST* LST* D19L ESD* *SP MES* ES* *G05

HOUSE SERVICE CUT-OUTS

KR85/4R 415V



- n Length 57mm
- n Diameter 22.2mm
- n For use in domestic and commercial installations

154R	15A	1050063916
204R	2 0 A	1050063917
304R	3 0 A	1050063351
404R	4 0 A	1050063352
454R	4 5 A	1050063918
504R	5 0 A	1050063353
604R	6 0 A	1050063354
804R	8 0 A	1050063355

LR85/4RL 415V



- n Length 57mm
- n Diameter 30.2mm
- n For use in domestic and commercial installations

60LR85	6 0 A	1050063688
80LR85	8 0 A	1050063689
	100A	

HOUSE SERVICE CUT-OUTS

LC TYPE 240V



- n 5A 23mm x 5.35mm
- n 10A 20A 26mm x 10.32mm
- n 30A 29mm x 12.7mm
- n For use in domestic and commercial installations

5LC	5 A	1050063356
1510LC	10A	1050063357
15LC	15A	1050063358
20LC	2 0 A	1050063359

SMD



- n Length 29mm
- n Diameter 12.5mm
- n For general purpose use in industrial

SMD2	2 A	1050063690
SMD4	4 A	1050063691
SMD6	6 A	1050063692
SMD8	8 A	1050063693
SMD10	10A	1050063694
SMD16	16A	1050063695
SMD20	2 0 A	1050063696
SMD25	2 5 A	1050063697
SMD32		

ATMR CLASS CC - FAST ACTING 600V



- n 10.3mm x 38.1mm
- n 200kA 1R
- n Current limiting
- n The smallest dimension fuse suitable

1 A	1050063393
1.5A	1050063394
2 A	1050063395
3 A	1050063396
5 A	1050063397
0 11	1050063397
5 II	1050063390
12A	1050063400
1 5 A	1050063401
2 0 A	1050063402
2 5 A	1050063403
	1.5A 2 A 3 A 5 A 8 A 10 A 12 A 15 A 20 A

SPECIALIST

Stockist of Santon Industrial Immersion Heaters

ATOR CLASS CC TIME DELAY 600V



- n 10.3mm x 38.1mm
- n 200kA 1R

ATQR1/2	0.5A	1050063935
(C211142J)	1 A	1050063936
ATQR1 (F218827J)	3 A	1050063938
ATQR3 (T218310J)	3.5A	1050063939
ATQR3-1/2 (G218828J)	5 A	1050063940
ATQR5 (W211665J)	7.5A	1050063941

SPECIALIST

Stockist of Moflash Beacons and Klaxon Sounders

ATDR CLASS CC - DUAL ELEMENT TIME DELAY 600V



- n 10.3mm x 38.1mm
- n 200kA 1R

ATDR1 (T217275J)	1 A	1050063405
ATDR2 (S212168J)	2 A	1050063406
ATDR3 (Y215232J)	3 A	1050063407
ATDR4 (V217276J)	4 A	1050063408
ATDR5 (K218302J)	5 A	1050063409
ATDR6 (L219338J)	6 A	1050063410
ATDR7 (A222548J)	7 A	1050063411
ATDR8 (X200856J)	8 A	1050063412
ATDR10 (J201396J)	10A	1050063413
ATDR12 (X201914J)	12A	1050063414
ATDR15 (V211135J)	15A	1050063415
ATDR20 (R214214J)	2 0 A	1050063416
ATDR25 (V214723J)	2 5 A	1050063417
ATDR30 (G216758J)	3 0 A	1050063418

MIDGET FUSES FAST ACTING 600VAC



n For supplementary over current protection.

SBS1/2 (T216769J)	0.5A	1050063451
SBS1 (G214734J)	1 A	1050063452
SBS2 (K218831J)	2 A	1050063453
SBS3 (D223080J)	3 A	1050063454
SBS10 (G217287J)		1050064042

MIDGET FUSES FAST ACTING 600V



- n 10.3mm x 38.1mm
- n For lighting, heating, and control circuits. Suitable for circuits where time delay is not required.

ATM1	1 A	1050063439
(W217277J)	2 A	1050063440
ATM2 (Z201916J)	3 A	1050063441
А Т М 3	4 A	1050063442
(L212691J)	5 A	1050063443
ATM4	8 A	1050063444
(E215744J)	1 0 A	1050063445
ATM5 (K216255J)	12A	1050063446
ATM8	15A	1050063447
(B217788J)	2 0 A	1050063448
ATM10 (B222549J)	2 5 A	1050063449

TRM MIDGET FUSES TIME DELAY 250V



- n 10.3mm x 38.1mm
- n Used for lighting, solenoid, motors, transformers and control circuits.

TRM1/2 (V217782J)	0.5A	1050063455
TRM1 (M214210J)	1 A	1050063456
TRM1-4/10 (Y215738J)	1.4A	1050063457
TRM2 (S200852J)	2 A	1050063458
TRM2-1/2(T201911J)	2.5A	1050063459
TRM3 (H213700J)	3 A	1050063460
TRM5 (G218299J)	5 A	1050063461
TRM8 (T200853J)	8 A	1050063462
TRM10 (V218817J)	10A	1050063463
TRM15 (W222544J)	15A	1050063465
TRM20 (F212686J)	2 0 A	1050063466
TRM25 (Q213201J)	2 5 A	1050063467

ATO MIDGET FUSES TIME DELAY 500V



- n 10.3mm x 38.1mm
- n Used for lighting, solenoid, motors, transformers and control circuits.

ATQ1/4 (Q212695J)	0.25A	1050063419
ATQ1/2 (Y212173J)	0.5A	1050063420
ATQ6/10 (F215239J)	0.6A	1050063421
ATQ1 (E217791J)	1 A	1050063422
ATQ1-1/2 (Q218307J)	1.5A	1050063423
ATQ1.6/10	1.6A	1050063424
(X223074J)	2 A	1050063425
ATQ2 (P216259J)	2.5A	1050063426
ATQ2-1/2 (N216764J)	3 A	1050063427
ATQ3 (G222554J)	4 A	1050063428
ATQ4 (T211663J)	5 A	1050063429
ATQ5 (B213211J)	6 A	1050063430
ATQ6 (Z214221J)	7 A	1050063431
ATQ7 (P216765J)	8 A	1050063432
ATQ8 (C217283J)	10A	1050063433
ATQ10 (R213708J)	12A	1050063464
ATQ12 (Y214220J)	15A	1050063435
ATQ15 (E215238J)	2 0 A	1050063436
ATQ20 (S219344J)	2 5 A	1050063437
ATQ25 (S219873J)		

CLASS RK5 DUAL ELEMENT TIME DELAY 250V



- n 50.8mm x 14.3mm
- n 200kA IR
- n Motor overcurrent, motor controller

A 1050063597
A 1050063598
A 1050063599
0

CLASS RK5 DUAL ELEMENT TIME DELAY 600V



- n 10-30A 127mm x 20.6mm
- n 35-40A 139.7mm x 27mm
- n 200kA IR
- n Motor overcurrent, motor controller

TRS10R (N218811J)	10A	1050063601
TRS15R (B201389J)	15A	1050063602
TRS20R (P217777J)	2 0 A	1050063603
TRS25R (B219329J)	2 5 A	1050063604
TRS30R (K213196J)	3 0 A	1050063605
TRS35R (J214207J)	3 5 A	1050063606
TRS40R (0217778J)	4 0 A	

CLASS K5 DUAL ELEMENT TIME DELAY 600V



- n Energy limiting
- n Lower cost protection for circuits
- n Serving heating, lighting and other non

T212146J	6 A	1050063627
K216232J	10A	1050063628
X217255J	15A	1050063629
Z218798J	2 0 A	1050063630
L219315J	2 5 A	1050063631
в222526Л		

SPECIALIST

Stockist of Dimplex and Creda Heating Spares

AMERICAN FUSES		
KTKR	ATMR	KLKR
FNQR	ATQR	KLDR
LPCC	ATDR	CCMR
BBS	SBS	BLS
KTK	АТМ	KLK
FNM	TRM	FLM
FNQ	ATQ	FLQ
BAN	OTM	BLN
BAF	OTMF	BLF
FNA	GFN	FLA
sc	A G	SLC

Al	MERICAN POWER FU	SES
FRN/FRNR	TR-R	FLNR
FRS/FRSR	TRS-R	FLSR
NOS	OTS	NLS
NON	ОТ	NLN
KTN-F	A2K-R	KLNR
KS	A6K-R	KLSR
REN	RF	RLN
КВС	RES	RLS
JKS/JS	A 4 J	JLS

FORK LIFT TRUCK FUSES

OPEN TYPE 22MM X 82MM



90-030-	5 0 A	1050063481
05/50A	100A	1050063482
90-030- 05/100A	2 0 0 A	1050063483

Confused about fuses
Phone your **SPECIALIST**on: 01905 791500

FORK LIFT TRUCK FUSES

ENCLOSED TYPE 22MM X 82MM



A218385E	5 0 A	1050063469
Y219947E	8 0 A	1050063470
K201995E	100A	1050063471
K211218E	125A	1050063472
W212769E	160A	1050063473
J213287E	2 0 0 A	1050063474
J214299E	250A	1050063475
J214805E	275A	1050063476
L215313E	300A	1050063477
X216841E	355A	1050063478
T217873E	4 0 0 A	1050063479
Q218905E		1050063480

SPECIALIST

Stockist of Santon Industrial Immersion Heaters

Used for the protection of semi conductor devices requiring high speed protection from faults.

LCT gR/uR ULTRA RAPID 250V



- n Total length 47mm
- n Diameter 8mm
- n Fixing centres 38mm

LCT5 (M082489J)	5 A	1050063551
LCT10 (L082488J)	10A	1050063552
LCT16 (K082487J)	16A	1050063553

LET gR/uR ULTRA RAPID 250V



- n Total length 56mm
- n Diameter 17.7mm
- n Fixing centres 41.8mm

M076647J	7 A	1050064043
N076648J	10A	1050063555
Q076650J	16A	1050063556
L097507J	2 0 A	1050063557
R076651J	2 5 A	1050063558
S076652J	3 2 A	1050063559
T076653J	35A	1050063560
V076654J	5 0 A	1050063561
Z085559J	8 0 A	1050063562
Y08558J	100A	1050063563
G097526J	125A	1050063564
W085556J	150A	1050063565
H097527J	160A	1050064044

LMT FPA gR/uR (ULTRA RAPID) 250V



- n Total length 84mm
- n Diameter 34.6mm
- n Fixing centres 59mm

150FPA (Q082469C)	160A	1050063565
200FPA (P082468C)	200A	1050063566
250FPA (N082467C)	250A	1050063567
315FPA (M082466C)	315A	1050063568
355FPA (L082465C)	355A	

CT/ GSB qR/uR (ULTRA RAPID) 660V



- n Total length 74.6mm
- n Diameter 8mm
- n Fixing centres 64.3mm

6CT (X097057J)	6 A	1050063570
10CT (C082457J)	10A	1050063571
16CT (B082456J)	16A	1050063572
,		1050063573

GSGB/ FRB gR/uR (ULTRA RAPID) 660V



- n Total length 77mm
- n Diameter 17.5mm
- n Fixing centres 63mm

10FRB	10A	1050063574
16FRB (G075883C)	16A	1050063575
20FRB (H075884C)	2 0 A	1050063576
25FRB (J075885C)	2 5 A	1050063577
32FRB (K075887C)	3 2 A	1050063578
35FRB (L075887C)	3 5 A	1050063579
40FRB (M075888C)	4 0 A	1050063580
45FRB (N075889C)	4 5 A	1050063581
50FRB (P075890C)	5 0 A	1050063582
55FRB (Q075891C)	5 5 A	1050063583
63FRB (R075892C)	63A	1050063584
75FRB (S075893C)	7 5 A	1050063585
80FRB (T075894C)	8 0 A	1050063586

SPECIALIST

we are pleased to work with the following suppliers:









GSGB/ FUB aR/uR (ULTRA RAPID) 660V



- n Total length 113mm
- n Diameter 35mm
- n Fixing centres 85mm

P097165C	100A	1050063587
Q097166C	160A	1050063588
T097169C	200A	1050063589
W097171C		

GSGB/ FUB2 gR/uR (ULTRA RAPID) 660V



- n Twin bodied fuse
- n Fixing centres 81.7mm
- n 2 x 34.6mm x 113M

F097272C	200A	1050063591
J097275C	2 2 5 A	1050063592
50-075-	2 5 0 A	1050063593
06/250	315A	1050063594
R097282C	355A	1050063595
S097283C	4 5 0 A	1050063931
Y097288C	5 0 0 A	1050063596

BS88 RECTIFIER FUSES

AMERICAN GR RECTIFIER (SEMICONDUCTOR) FUSES 500V



- n 250A 400A
- n Total length 110mm
- n Diameter 38mm
- n Fixing centres 86.5mm
- n 500A 600A
- n Total length 113.5mm
- n Diameter 50.8mm
- n Fixing centres 89.7mm
- n 800A
- n Total length 164.3mm

A50QS250-4	250A	1050063608
(W211251A)	300A	1050063609
A50QS300-4 (D212799A)	350A	1050063610
A500S350-4	4 0 0 A	1050063611
(T215343A)	5 0 0 A	1050063612
A50QS400-4	600A	1050063613
(B216362A)	A 0 0 8	1050063614

SPECIALIST

Stockist of Moflash Beacons and Klaxon Sounders

BS88 RECTIFIER FUSES

AMERICAN GR RECTIFIER (SEMI CONDUCTOR) FUSES 700V



- n 25-30A
- n Total length 50.8mm
- n Diameter 14.3mm
- **n** 50A
- n Total length 111mm
- n Diameter 25.4mm
- n Fixing centres 96mm
- n 100A
- n Total length 111mm
- n Diameter 31mm
- n Fixing centres 93.7mm
- n 200A
- n Total length 129.4mm
- n Diameter 38.1mm
- n Fixing centres 105.6mm
- n 300-400A

A70P25.1 (N216373J)	2 5 A	1050063615
A70P30.1 (B230024J)	3 0 A	1050063616
A70P50.4 (W202695E)	5 0 A	1050063617
A70P100.4 (J218945E)	100A	1050063618
A70P200.4 (K218946E)	200A	1050063619
A70P300.4 (P212809E)	300A	1050063620
A70P400_4 (L218947E)	400A	

PLUG TOP FUSES

BS1362 PLUG TOP FUSE





T-1	1.5	1050150001
F1	1 A	1050152901
F2	2 A	1000015794
F3	3 A	1000015795
F5	5 A	1000015796
F7	7 A	1050152902
F10	10A	1000015797
F13	13A	1000015822

³ Available at your local Newey & Eyre branch

SPECIALIST

Stockist of Heatrae, Santon and Zip Water Spares

PART CODE	DESCRIPTION P	AGE	**LCT **LET	BS88 rectifier fuse gR/uR ultra rapid 250v 67 BS88 rectifier fuse gR/uR ultra rapid 250v 67
**4R	house service cut out		**LMT	BS88 rectifier fuse gR/uR ultra rapid 250v 68
TIC	fuse 57mm x 22.2mm	5/	**LO9	BS88 HRC fuse 111mm fixing centres 7
4RL	house service cut out fuse	54	**LO9M	BS88 HRC motor rated fuse
HILL	57mm x 30.2mm	5.4	LOTIVI	111mm fixing centres
**CT	BS88 rectifier fuse qR/uR	34	**LR	house service cut out fuse 57mm x 30.2mm . 54
CI	ultra rapid 660v	40	**LR71	house service cut out fuse 57mm x 30.2mm . 54
**DO4	BS88 HRC fuse		**LR85	house service cut out fuse 57mm x 30.2mm . 54
**D16	d1/e16 qL/qG bottle fuse	7	**LST	street lighting fuse
D10	12.5mm x 50mm	27	**MJ30-7	J type fuse 82mm fixing centres
**D19L	street lighting fuse		**MJ30-8	J type fuse 82mm fixing centres
**D27	d11/e27 gL/gG bottle fuse 22mm x 50mm		**MJ31-7	J type fuse 92mm fixing centres
**D27R	d11/e27 qR ultra rapid bottle	. 30	**MMT	BS88 rectifier fuse qR/uR ultra rapid 660v . 70
DZ/R	fuse 22mm x 50mm	20	*MT	BS88 rectifier fuse gR/uR ultra rapid 660v . 70
**D33	d111/e33 qL/qG bottle	30	**MO9	BS88 HRC fuse 111mm fixing centres 7
D33	fuse 27mm x 50mm	20	**MO9M**	BS88 HRC motor rated fuse
**D33R	d111/e33 qR ultra rapid bottle	39	IVIOSIVI	111mm fixing centres
Door	fuse 27mm x 50mm	20	**MT	BS88 rectifier fuse qR/uR ultra rapid 660v . 70
**ER	house service cut out fuse	39	**NH00B	· ·
EK	57mm x 22.2mm	E4	**NH0B	continental NH fuse size 00 gL/gG 43 continental NH fuse size 0 qL/qG 45
**ESD	BS88 HRC fuse		**NH1B	3 3
**ET	BS88 rectifier fuse qR/uR	0	**NH1G	continental NH fuse size 1 gL/gG 46 continental NH fuse size 1 gL/gG 46
EI	ultra rapid 660v	40	**NH1M	continental NH fuse size 1 gL/gG 46
**FO6	BS88 HRC fuse		**NH2B	continental NH fuse size 1 and motor rated 46 continental NH fuse size 2 gL/gG50
FO6M	BS88 HRC motor rated fuse		**NH2G	continental NH fuse size 2 gL/gG50
**F21	BS88 HRC fuse 44mm fixing centres		**NH3B	continental NH fuse size 2 gL/gG
F21M	BS88 HRC fuse 44mm fixing centres BS88 HRC motor rated fuse	4	**NH3G	
LZ IIAI		11	**NHC00B	continental NH fuse size 3 gL/gG 48 continental NH fuse size C00/000 qL/gG 41
**FMA	44mm fixing centres		**NHC00G	continental NH fuse size C00/000 gL/gG 41
**FMM	BS88 rectifier fuse gR/uR ultra rapid 660v		**NHC00M	continental NH fuse size Coo/oou gL/gG 41
**FNA	BS88 rectifier fuse gR/uR ultra rapid 250v		INFICUUIVI	motor rated
**FPA	BS88 rectifier fuse gR/uR ultra rapid 250v		**NO9	BS88 HRC fuse 111mm fixing centres 8
FRB	BS88 rectifier fuse gR/uR ultra rapid 660v		**NO9M	BS88 HRC motor rated fuse 111mm f
**FSB	BS88 rectifier fuse gR/uR ultra rapid 660v		TVO 71VI	ixing centres
**FUB	BS88 rectifier fuse qR/uR ultra rapid 660v		**NZ01	d01/e14 qL/qG bottle fuse 11mm x 36mm 36
**FUB2	BS88 rectifier fuse gR/uR ultra rapid 660v		**NZ02	d02/e18 gL/gG bottle fuse 15.3mm x 36mm . 36
**GD27	d11/e27 gauge pieces		**NZ02R	d02/e18 qR ultra rapid bottle fuse
**GD33	d111/e33 gauge pieces		INZUZIN	15.3mm x 36mm
**GO5	BS88 HRC fuse		**P11	BS88 HRC fuse 133/184mm fixing centres9
**HO7	BS88 HRC fuse 73mm fixing centres		**PJ30-7	J type fuse 82mm fixing centres
HO7M	BS88 HRC motor rated fuse	J	**PJ31-7	J type fuse 92mm fixing centres
TIO/W	73mm fixing centres	11	**PO9	BS88 HRC fuse 111mm fixing centres 8
JCS82	J type fuse 82mm fixing centres		**PO9M	BS88 HRC motor rated fuse
**JCS92	J type fuse 92mm fixing centres		r O 71VI	111mm fixing centres
**K7	BS88 HRC fuse 73mm fixing centres		**R11	BS88 HRC fuse 133/184mm fixing centres 10
K7M	BS88 HRC motor rated fuse	J	**RJ31-7	J type fuse 92mm fixing centres
K/IVI	73mm fixing centres	12	**\$11	BS88 HRC fuse 133/184mm fixing centres 10
KO8M	BS88 HRC motor rated fuse	12	**SA2	BS88 HRC fuse 44mm fixing centres 4
ROOM	97mm fixing centres	12	**SA2M**	BS88 HRC motor rated fuse
**KR85	house service cut out	15	JAZIVI	44mm fixing centres
KNOO	fuse 57mm x 22.2mm	54	**SB3	BS88 HRC fuse 73mm fixing centres 5
L14	BS88 HRC fuse 94mm fixing centres		**SB3M	BS88 HRC motor rated fuse
L14M	BS88 HRC motor rated fuse	5	JUJIVI	73mm fixing centres
LITIVI	94mm fixing centres	12	**SB4	BS88 HRC fuse 73mm fixing centres 5
LA	house service cut out fuse		**SB4M	BS88 HRC motor rated fuse
**LC	house service cut out fuse		JD IIVI	73mm fixing centres
LO	nouse service out out luse	55		7 Julius II Julius Collin Co

 $^{^{\}star\star}$ Denotes Amperage ?? Denotes other number relating to but not Amperage (Amps would still need to be established)

PART CODE	DESCRIPTION	PAGE	150**	french industrial fuse
				22mm x 58mm aM motor rated 3
**SD5	BS88 HRC fuse 94mm fixing centres	5	150??	french industrial fuse 8mm x 32mm gL/gG . 2
SD5M	BS88 HRC motor rated fuse		153**	french industrial fuse 22mm x 58mm gL/gG 3
	94mm fixing centres		160??	french industrial fuse 10mm x 38mm gL/gG 2
**SD6	BS88 HRC fuse 94mm fixing centres	6	165??	french industrial fuse
SE4M	BS88 HRC motor rated fuse			10mm x 38mm aM motor rated 2
	97mm fixing centres		170??	french industrial fuse 14mm x 51mm gL/gG 2
**SF5	BS88 HRC fuse 111mm fixing centres	7	170M14??	continental NH fuse size C00/000 gR ultra
SF5M	BS88 HRC motor rated fuse			rapid 80mm base 4
	111mm fixing centres		170M15??	continental NH fuse size c00/000 gR
**SF6	BS88 HRC fuse 111mm fixing centres	7		ultra rapid 4
SF6M	BS88 HRC motor rated fuse		170M15??	continental NH fuse size C00/000
	111mm fixing centres			urb ultra rapid solid tag 4
SF7	BS88 HRC fuse 111mm fixing centres	8	170M26	continental NH fuse size 00 gR, aR
SF7M	BS88 HRC motor rated fuse			ultra rapid 80mm base4
	111mm fixing centres		170M38??	continental NH fuse size 1 gR ultra rapid 4
**SF8	BS88 HRC fuse 111mm fixing centres	8	170M58??	continental NH fuse size 2 gR ultra rapid 4
SF8M	BS88 HRC motor rated fuse		170M68**	continental NH fuse size 3 gR/uR ultra rapid 4
	111mm fixing centres		170N10??	french industrial fuse
**SH10	BS88 HRC fuse 133/184mm fixing centre			14mm x 51mm gR ultra rapid no striker 3
**SH8	BS88 HRC fuse 133/184mm fixing centre		170N11??	french industrial fuse
**SH9	BS88 HRC fuse 133/184mm fixing centre			14mm x 51mm gR ultra rapid with striker . 3
**SJ31-6	J type fuse 92mm fixing centres		170N20??	french industrial fuse
**SN2	BS88 HRC fuse			22mm x 58mm gR ultra rapid no striker 3
SN2M	BS88 HRC motor rated fuse		170N21??	french industrial fuse 22mm x 58mm
**SP	BS88 HRC fuse			gR ultra rapid with striker
**SS	BS88 HRC fuse		175??	french industrial fuse
10-002-04/**	3 3			14mm x 51mm aM motor rated 3
10-005-04/**	3 3	n . 38	180??	french industrial fuse
10-005-07/**	3			22mm x 58mm gL/gG
	fuse 22mm x 50mm	38	185??	french industrial fuse
10-005-08/**	3 1			22mm x 58mm aM motor rated 3
	22mm x 50mm		20-000-04/**	continental NH fuse size c00/000 gR
	d111/e33 gL/gG bottle fuse 27mm x 50m	ım. 39		ultra rapid
10-007-07/**	d111/e33 gR ultra rapid bottle fuse		20-000-13/**	continental NH fuse
	27mm x 50mm			size C00/000 gL/gG4
	d01/e14 gL/gG bottle fuse 11mm x 36mn		20-001-04/**	continental NH fuse
10-028-04/**	3 3	nm 36		size C00/000 urb ultra rapid solid tag 4
10-028-07/**			20-001-13/**	continental NH fuse size 00 gL/gG 4
	15.3mm x 36mm	37	20-002-13/**	continental NH fuse size 0 gL/gG 4
102**	miniature ceramic fuse		20-003-04/**	continental NH fuse size 1 gR ultra rapid 4
	20mm x 5mm quick blow	20	20-003-13/**	continental NH fuse size 1 gL/gG 4
10G**	french industrial fuse		20-004-13/**	continental NH fuse size 2 gL/gG5
	10mm x 38mm gL/gG	27	20-005-13/**	continental NH fuse size 3 gL/gG 4
10M**	french industrial fuse		20-211-08/**	continental NH fuse size
	10mm x 38mm aM motor rated			1 aM motor rated4
123**	french industrial fuse 8mm x 32mm gL/G	g 26	20-412-20/**	continental NH fuse size
130**	french industrial fuse 10mm x 38mm aM			00 gR, aR ultra rapid 80mm base 4
	motor rated		216**	miniature ceramic fuse
133**	french industrial fuse 10mm x 38mm gL/g	gG 27		20mm x 5mm quick blow
140**	french industrial fuse	0.7	217**	miniature glass fuse
4.000	14mm x 51mm aM motor rated		040++	20mm x 5mm quick blow
143**	french industrial fuse 14mm x 51mm gL/g		218**	miniature glass fuse
14G**	french industrial fuse 14mm x 51mm gL/g	JG 29	00110000	20mm x 5mm slow blow
14M**	french industrial fuse		221100??	d01/e14 gL/gG bottle
	14mm x 51mm aM motor rated	30		fuse 11mm x 36mm

PART COD	E DESCRIPTION	PAGE	50-054-06/**	BS88 rectifier fuse gR/uR ultra rapid 250v 68
224222	100/-10 -1 /-0 1		50-073-06/**	BS88 rectifier fuse gR/uR ultra rapid 660v 69
221200??	d02/e18 gL/gG bottle	27	50-074-06/**	3 1
222222	fuse 15.3mm x 36mm	36	50-075-06/**	3
222990	14mm x 51mm single pole fuse holder		E0 074 04/**	ultra rapid 660v 250a
22G**	french industrial fuse 22mm x 58mm gL/ french industrial fuse	yG 32	50-076-06/**	BS88 rectifier fuse gR/uR ultra rapid 250v 67
22M**		22	50-077-06/**	3 1
231140??	22mm x 58mm aM motor rated d1/e16 qL/qG bottle fuse 12.5mm x 50m		50-085-01/** 50-085-16/**	BS88 HRC fuse 44mm fixing centres 4 BS88 HRC motor rated
231140??	d1/e27 gL/gG bottle fuse 22mm x 50mi		30-063-16/	fuse 44mm fixing centres
231240??	d11/e33 qL/qG bottle fuse 27mm x 50m		50-086-01/**	BS88 HRC fuse
24000	8mm x 32mm fuse holder		50-086-16/**	BS88 HRC motor rated fuse
24000	8mm x 32mm fuse holder		50-000-10/	
24202	10mm x 38mm fuse holder		50-110-01/	french industrial fuse
24206	10mm x 38mm fuse holder		30-124-00/	14mm x 51mm gR ultra rapid no striker 30
24212	10mm x 38mm fuse holder		50-126-06/**	french industrial fuse 14mm x 51mm
24214	10mm x 38mm fuse holder		00 120 007	gR ultra rapid with striker
29014	14mm x 51mm three pole fuse holder		50-140-06/**	french industrial fuse 22mm x 58mm
29202	22mm x 58mm singple pole fuse holder.			gR ultra rapid no striker
29214	22mm x 58mm three pole fuse holder		50-142-06/**	french industrial fuse 22mm x 58mm
3NA10??	continental NH fuse size C00/000 gL/gG			gR ultra rapid with striker
3NA11??	continental NH fuse size 0 gL/gG		520??	french industrial fuse 10mm x 38mm
3NA12??	continental NH fuse size 1 gL/gG			gR ultra rapid
3NA13??	continental NH fuse size 2 gL/gG		522??	french industrial fuse 14mm x 51mm
3NA14??	continental NH fuse size 3 gL/gG			gR ultra rapid no striker30
3NA30??	continental NH fuse size 0 gL/gG	45	523??	french industrial fuse 14mm x 51mm
3NA31??	continental NH fuse size 1 gL/gG	46		gR ultra rapid with striker
3NA32??	continental NH fuse size 2 gL/gG	50	524??	french industrial fuse 22mm x 58mm
3NA33??	continental NH fuse size 3 gL/gG	48		gR ultra rapid no striker
3NA38??	continental NH fuse size C00/000 gL/gG	41	525??	french industrial fuse 22mm x 58mm
3NA38??	continental NH fuse size 00 gL/gG			gR ultra rapid with striker
50-001-01/*		5	5SA21??	d1/e16 gL/gG bottle fuse 12.5mm x 50mm . 37
50-001-16/*			5SB2??	d11/e27 gL/gG bottle fuse 22mm x 50mm . 38
	fuse 73mm fixing centres		5SB4??	d111/e33 gL/gG bottle fuse 27mm x 50mm. 39
50-002-01/*	3	5	5SD4??	d11/e27 gR ultra rapid bottle
50-002-16/*				fuse 22mm x 50mm
	fuse 73mm fixing centres		5SE20**	d01/e14 gL/gG bottle fuse 11mm x 36mm 36
50-003-01/*		5	5SE20**	d02/e18 gL/gG bottle fuse 15.3mm x 36mm . 36
50-003-16/*		10	60-033-05/**	french industrial fuse 10mm x 38mm
EO 004 04 /+	94mm fixing centres		70 001 04/++	gR ultra rapid
50-004-01/*		6	70-001-34/**	miniature glass fuse 20mm x 5mm
50-006-16/*		12	70-001-35/**	quick blow
50-008-01/*	97mm fixing centres * BS88 HRC fuse 111mm fixing centres		70-001-33/	miniature glass fuse 20mm x 5mm slow blow
50-008-01/	J	/	70-007-33/**	miniature ceramic fuse 20mm x 5mm
30-000-10/	111mm fixing centres	1/	70-007-337	quick blow
50-009-01/*			70-007-65/**	miniature ceramic fuse 20mm x 5mm
50-009-16/*	3		70 007 007	slow blow
30 007 107	111mm fixing centres	14	70-010-04/**	miniature ceramic fuse 25mm x 5mm
50-010-01/*	· ·			quick blow21
50-010-16/*	9		70-010-05/**	miniature ceramic fuse 25mm x 5mm
	111mm fixing centres	15		medium blow
50-013-01/*	3		70-059-60/**	miniature glass fuse 32mm x 6mm
50-023-01/*				quick blow
50-026-01/*	* J type fuse 92mm fixing centres	52	70-059-61/**	miniature glass fuse 32mm x 6mm
50-039-01/*	* BS88 HRC fuse 133/184mm fixing centre	es9		slow blow
50-040-01/*	* BS88 HRC fuse 133/184mm fixing centre	es 10	70-065-63/**	miniature ceramic fuse 32mm x 6mm
50-041-01/*	3			quick blow
50-053-06/*	3 1	v 67		
** Donotos	Amporago			

^{**} Denotes Amperage
?? Denotes other number relating to but not Amperage (Amps would still need to be established)

PART CODE	DESCRIPTION	PAGE	B201389J	american fuse RK5 dual element time delay 600v 15a
70-065-65/**			B210612C	continental NH fuse size c00/000
	32mm x 6mm slow blow	23		gR ultra rapid 35a42
70-125-40/**			B211141J	american midget fuse time delay 500v 30a 61
00 000 05#+	32mm x 6mm ultra rapid		B211946H	continental NH fuse size C00/000 gL/gG 2a . 41
90-030-05/**	1 31		B212061J	french industrial fuse
90-058-05/**	31	66	D0400441	10mm x 38mm gL/gG 1a
A082455J	BS88 rectifier fuse gR/uR ultra		B213211J	american midget fuse time delay 500v 5a61
A 2000E01	rapid 660v 20a	68	B215695J	d01/e14 gL/gG bottle fuse
A200859J	american fuse class cc fast	E4	D214242A	11mm x 36mm 6a
A210611C	acting 600v 2a	50	B216362A	BS88 rectifier fuse gR ultra
A210011C	continental NH fuse size c00/000	42	B217742J	rapid 500v 400a
A211025J	gR ultra rapid 25a french industrial fuse 8mm x 32mm	42	DZ1//42J	15.3mm x 36mm 20a
A2110233	gL/gG 6a	26	B217788J	american midget fuse fast acting 600v 8a 59
A211508E	d11/e27 gL/gG bottle fuse	20	B219122H	continental NH fuse size C00/000
AZTIJUUL	22mm x 50mm 20a	38	DZ 1712Z11	gL/gG 100a
A211554J	french industrial fuse 14mm x 51mm	50	B219329J	american fuse RK5 dual element
A2113343	gL/gG 16a	29	D2173273	time delay 600v 25a
A213601J	french industrial fuse 10mm x 38mm	2/	B219651H	continental NH fuse size C00/000
712100015	aM motor rated 12a	28	D21700111	gL/gG 10a
A214107J	french industrial fuse 10mm x 38mm		B222526J	american fuse K5 dual element
	gL/gG 32a	27		time delay 600v 30a
A214613J	french industrial fuse 8mm x 32mm		B222549J	american midget fuse fast acting 600v 10a 59
	gL/gG 10a	26	B222917E	d11/e27 gL/gG bottle fuse
A218247C	continental NH fuse size 1			22mm x 50mm 6a
	gL/gG 160a	46	B230024J	BS88 rectifier fuse gR ultra
A218385E	fork lift truk fuse enclosed type 50a	66		rapid 700v 30a
A219765J	french industrial fuse 14mm x 51mm		B301255C	continental NH fuse size 1
	gL/gG 4a	29		gR ultra rapid 250a47
A222548J	american fuse class cc dual		B320069C	continental NH fuse size C00/000
	element time delay 600v 7a	58		urb ultra rapid solid tag 160a43
A222847H	continental NH fuse size		B330189	continental NH fuse size 00 gR, aR
	C00/000 gL/gG 20a			ultra rapid 80mm base 350a 44
A223008C	NH size 1 single pole polyester fuse hold	ler. 47	BAO**	BS88 HRC fuse 73mm fixing centres 5
A227861C	continental NH fuse size 00 aM		BAO**M**	BS88 HRC motor rated fuse
	motor rated 50a	43		73mm fixing centres
A301254C	continental NH fuse size 1 gR		BBS**	american midget fuse fast acting 600v59
A 2 F 2 ++	ultra rapid 200a	4/	BC**M**	BS88 HRC motor rated fuse
A350-**	BS88 rectifier fuse gR/uR ultra	/7	DEC++	97mm fixing centres
A50QS**-4	rapid 250v	0/	BES** BLS**	BS88 HRC fuse
A30Q3 -4	BS88 rectifier fuse gR ultra rapid 500v	71	C082457J	american midget fuse fast acting 600v 59 BS88 rectifier fuse gR/uR ultra
A70P**	BS88 rectifier fuse gR ultra	/ 1	C0624373	rapid 660v 10a
A70F	rapid 700v	72	C08G**	french industrial fuse
AAO**	BS88 HRC fuse 73mm fixing centres		0000	8mm x 32mm gL/gG
AAO**M**	BS88 HRC motor rated	5	C10G**	french industrial fuse
70 W	fuse 73mm fixing centres	11	0100	10mm x 38mm gL/gG
AGC**	miniature glass fuse 32mm x 6mm		C10M**	french industrial fuse 1
	quick blow	18		0mm x 38mm aM motor rated 28
ATDR**	american fuse class cc dual		C14G**	french industrial
	element time delay 600v	58		fuse 14mm x 51mm gL/gG
ATM**	american midget fuse fast acting 600v		C14M**	french industrial
ATMR**	american fuse class cc fast acting 600v			fuse 14mm x 51mm aM motor rated 30
ATQ**	american midget fuse time delay 500v		C201873J	d02/e18 gL/gG bottle
ATQR**	american fuse class cc time delay 600v	57		fuse 15.3mm x 36mm 63a
B082456J	BS88 rectifier fuse gR/uR ultra		C202287A	BS88 rectifier fuse gR ultra rapid 500v 800a . 71
	rapid 660v 16a	68		

PART CODE	DESCRIPTION	PAGE	D217169J D217780J	french industrial fuse 10mm x 38mm gL/gG 8a27 american fuse class cc fast acting 600v 8a 56
C210613C	continental NH fuse size c00/000		D217780J D218710J	french industrial fuse 8mm x 32mm gL/gG 25a26
02.00.00	gR ultra rapid 40a	42	D219814C	continental NH fuse size 0 gL/gG 100a 45
C211142J	american fuse class cc time		D220918J	french industrial fuse 22mm x 58mm
	delay 600v 0.5a	57		gR ultra rapid with striker 50a
C211947H	continental NH fuse size		D222551J	american fuse class cc fast acting 600v 12a . 56
	C00/000 gL/gG 25a	41	D223080J	american midget fuse fast acting 600v 3a 59
C213603J	french industrial fuse		D305006K	8mm x 32mm fuse holder 26
	14mm x 51mm gL/gG 25a	29	D320071C	continental NH fuse size C00/000 urb ultra
C214063E	d111/e33 gL/gG bottle fuse			rapid solid tag 200a
	27mm x 50mm 35a	39	D320163	continental NH fuse size 00 gR, aR ultra rapid
C215236J	american fuse class cc			80mm base 100a
	fast acting 600v 30a	56	DD**	BS88 HRC fuse 111mm fixing centres 7
C215650J	french industrial fuse		DD**M**	BS88 HRC motor rated fuse
	22mm x 58mm aM motor rated 63a			111mm fixing centres14
C217283J	american midget fuse time delay 500v 8a		DEO**	BS88 HRC fuse 94mm fixing centres 6
C219284C	continental NH fuse size 0 gL/gG 80a	45	DSA**	BS88 rectifier fuse gR/uR ultra rapid 250v 67
C220733J	french industrial fuse 22mm x 58mm		DSG**	BS88 rectifier fuse gR/uR ultra rapid 660v 69
	gR ultra rapid with striker 63a	33	DSL**	BS88 rectifier fuse gR/uR ultra rapid 250v 67
C220917J	french industrial fuse 22mm x 58mm		DSM**	BS88 rectifier fuse gR/uR ultra rapid 660v . 70
	gR ultra rapid with striker 100a		DSMM**	BS88 rectifier fuse gR/uR ultra rapid 660v . 70
C22G**	french industrial fuse 22mm x 58mm gL/	gG 32	DST**	BS88 rectifier fuse gR/uR ultra rapid 250v 68
C22M**	french industrial fuse		E201185H	continental NH fuse size C00/000 gL/gG 32a 41
	22mm x 58mm aM motor rated	32	E201346C	continental NH fuse size 2 gL/gG 315a 50
C330006J	french industrial fuse 10mm x 38mm		E210615C	continental NH fuse size c00/000
	gR ultra rapid 4a			gR ultra rapid 63a42
CCMR**	american fuse class cc dual element		E211558J	french industrial fuse 14mm x 51mm
05++	time delay 600v		F0400001	aM motor rated 50a30
CD**	BS88 HRC fuse 111mm fixing centres	/	E213099J	french industrial fuse 10mm x 38mm
CD**M**	BS88 HRC motor rated fuse	4.4	E042/20E	gL/gG 25a
0007	111mm fixing centres		E213628F	22mm x 58mm singple pole fuse holder34
CD27	d11/e27 screwcaps		E213996H	continental NH fuse size C00/000 qL/qG 35a41
CD33 CEO**	BS88 HRC fuse 94mm fixing centres		E214709J	american fuse RK5 dual
CEO**M**	BS88 HRC motor rated fuse	5	EZ 14 / U9J	
CEO IVI	94mm fixing centres	12	E214732J	element time delay 250v 5a
CSG**	house service cut out fuse	12	F215238J	american midget fuse time delay 500v 1.5a 61
C3G	57mm x 30.2mm	E4	E215236J	american midget fuse firme delay 500V 15a 59
CSK**	house service cut out fuse	54	E217791J	american midget fuse time delay 500v 1a 61
CSIC	57mm x 22.2mm	5.4	E218205J	french industrial fuse
D200839J	american fuse RK5 dual element	54	L2 102033	22mm x 58mm gL/gG 100a
D2000333	time delay 250v 10a	62	E219769J	french industrial fuse
D210614C	continental NH fuse size c00/000	02	L2177073	14mm x 51mm aM motor rated 25a 30
D210014C	gR ultra rapid 50a	12	E219815C	continental NH fuse size 1 gL/gG 250a 46
D211028J	french industrial fuse 10mm x 38mm	42	E220735J	french industrial fuse 14mm x 51mm
D2110203	gL/gG 20a	27	L2207333	gR ultra rapid no striker 20a 30
D211120J	american fuse RK5 dual element		E220919J	french industrial fuse 22mm x 58mm
D2111203	time delay 250v 15a	62	22207173	gR ultra rapid with striker 40a
D212799A	BS88 rectifier fuse qR ultra rapid 500v 300		E301258C	continental NH fuse size 1 gR ultra
D213098J	french industrial fuse	04 . 7 .	20012000	rapid 350a
52.00703	10mm x 38mm gL/gG 2a	27	E330008J	french industrial fuse 10mm x 38mm
D213995H	continental NH fuse size			gR ultra rapid 6a
	C00/000 gL/qG 6a	41	ED**	BS88 HRC fuse 111mm fixing centres 8
D214708J	american fuse RK5 dual element		ED**M**	BS88 HRC motor rated fuse
	time delay 250v 20a	62		111mm fixing centres
D215191J	d02/e18 gL/gG bottle fuse		EF**	BS88 HRC fuse 133/184mm fixing centres9
	15.3mm x 36mm 50a	36	ES**	BS88 HRC fuse
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 $^{^{\}star\star}$ Denotes Amperage ?? Denotes other number relating to but not Amperage (Amps would still need to be established)

PART CODE	DESCRIPTION PA	AGE	G213170C G214734J	NH00 fuse cover
ESD**	BS88 HRC fuse	8	G214734J G216758J	american fuse class cc dual element
F097272C	BS88 rectifier fuse gR/uR ultra		02107003	time delay 600v 30a
	rapid 660v 200a	. 70	G217172J	french industrial fuse 10mm x 38mm
F210156C	NH00 micro switch			aM motor rated 25a
F210616C	continental NH fuse size c00/000 gR		G217287J	american midget fuse fast acting 600v 10a 59
	ultra rapid 80a	. 42	G218299J	american midget fuse time delay 250v 5a60
F212686J	american midget fuse		G218828J	american fuse class cc time delay 600v 3.5a. 57
	time delay 250v 20a	. 60	G222163E	d11/e27 gL/gG bottle fuse
F214618J	french industrial fuse			22mm x 50mm 4a
	10mm x 38mm aM motor rated 16a		G222554J	american midget fuse time delay 500v 3a61
F215170C	NH size 00 single pole polyester fuse holde		G227867C	continental NH fuse size 00 aM
F215239J	american midget fuse time delay 500v 0.6a			motor rated 100a
F217677J	french industrial fuse 8mm x 32mm gL/gG		G320488C	continental NH fuse size 2 gR
F218827J	american fuse class cc time delay 600v 1a .	. 57	00000401	ultra rapid 550a
F222208J	french industrial fuse	20	G330010J	french industrial fuse
F222000F	10mm x 38mm aM motor rated 6a		CD4**	10mm x 38mm gR ultra rapid 10a 28
F222990F	14mm x 51mm single pole fuse holder		GDA**	miniature ceramic fuse
F223013C F227866C	continental NH fuse size 0 gL/gG 160a continental NH fuse size 00 aM	. 45	GDB**	20mm x 5mm quick blow
F227600C	motor rated 80a	13	GDB	miniature glass fuse 20mm x 5mm quick blow
F320165	continental NH fuse size 00 gR, aR	. 43	GF**	BS88 HRC fuse 133/184mm fixing centres 10
1320103	ultra rapid 80mm base 125a	11		A) BS88 rectifier fuse qR/uR
F320487C	continental NH fuse size 2 gR ultra	. 11	OSA (<100)	ultra rapid 250v67
1 320 107 0	rapid 500a	48	GSA** (<20)	BS88 rectifier fuse gR/uR ultra rapid 660v 68
F330193	continental NH fuse size 00 qR, aR		GSA** (<20a)	
	ultra rapid 80mm base 400a	. 44		A) BS88 rectifier fuse gR/uR ultra rapid 250v 68
FF**	BS88 HRC fuse 133/184mm fixing centres.		GSB**	BS88 rectifier fuse gR/uR ultra rapid 660v 68
FLM**	american midget fuse time delay 250v			A) BS88 rectifier fuse gR/uR ultra rapid 660v . 70
FLNR**	american fuse RK5 dual element		GSGB** (<80A	A) BS88 rectifier fuse gR/uR ultra rapid 660v 69
	time delay 250v	. 62	GSGB** (>200	A) BS88 rectifier fuse gR/uR ultra rapid 660v . 70
FLQ**	american midget fuse time delay 500v	. 61	H075884C	BS88 rectifier fuse gR/uR
FLSR**	american fuse RK5 dual element			ultra rapid 660v 20a 69
	time delay 600v		H213700J	american midget fuse time delay 250v 3a60
FNM**	american midget fuse time delay 250v		H216667J	french industrial fuse
FNQ**	american midget fuse time delay 500v			22mm x 58mm aM motor rated 80a 32
FNQR**	american fuse class cc time delay 600v	. 57	H218714J	french industrial fuse
FRN**	american fuse RK5 dual element			10mm x 38mm aM motor rated 2a 28
EDNID##	time delay 250v	. 62	H222210J	french industrial fuse
FRNR**	american fuse RK5 dual element		110070400	14mm x 51mm gL/gG 6a
FDC**	time delay 250vamerican fuse RK5 dual element	. 62	H227868C	continental NH fuse size 00 aM motor rated 125a43
FRS**	time delay 600v	42	H320075C	continental NH fuse size C00/000
FRSR**	american fuse RK5 dual element	. 02	H3200/3C	urb ultra rapid solid tag 250a
rksk	time delay 600v	62	H320489C	continental NH fuse size 2 gR
FWC**A10F	french industrial fuse 10mm x 38mm	. 02	113204070	ultra rapid 630a48
TWC AIG	qR ultra rapid	28	J075885C	BS88 rectifier fuse qR/uR ultra
FWH**	BS88 rectifier fuse gR ultra rapid 500v		30700000	rapid 660v 25a
FWP**A14F	french industrial fuse 14mm x 51mm	. , .	J097275C	BS88 rectifier fuse gR/uR ultra
	gR ultra rapid no striker	. 30		rapid 660v 225a
FWP**A22F	french industrial fuse 22mm x 58mm		J201396J	american fuse class cc dual
	gR ultra rapid no striker	. 33		element time delay 600v 10a58
FWP**	BS88 rectifier fuse gR ultra rapid 700v		J212091B	14mm x 51mm three pole fuse holder31
G075883C	BS88 rectifier fuse gR/uR		J213287E	fork lift truk fuse enclosed type 200a 66
	ultra rapid 660v 16a	. 69	J214207J	american fuse RK5 dual element
G200750J	french industrial fuse 10mm x 38mm			time delay 600v 35a 62
	gL/gG 16a	. 27	J214299E	fork lift truk fuse enclosed type $250a\ldots 66$

PART CODE	DESCRIPTION	PAGE	KCC**	miniature ceramic fuse
J214805E	fork lift truk fuse enclosed type 275a	66	KCC**S	32mm x 6mm quick blow
J218209J	french industrial fuse 22mm x 58mm aM motor rated 125a .	32	KCC**UR	32mm x 6mm slow blow
J218715J	french industrial fuse		KDC**	32mm x 6mm ultra rapid24
J218945E	10mm x 38mm aM motor rated 32a BS88 rectifier fuse gR			miniature glass fuse 32mm x 6mm quick blow18
J219773J	ultra rapid 700v 100a	72	KDC**S	miniature glass fuse 32mm x 6mm slow blow
12270/00	22mm x 58mm gL/gG 125a	32	KLDR**	american fuse class cc time delay 600v 57
J227869C	continental NH fuse size 00 aM motor rated 160a	43	KLK** KLKR**	american midget fuse fast acting 600v59 american fuse class cc fast acting 600v56
J320490C	continental NH fuse size 2 gR ultra rapid 700a	48	KTK** KTKR**	american midget fuse fast acting 600v59 american fuse class cc fast acting 600v56
J330012J	french industrial fuse		L075887C	BS88 rectifier fuse gR/uR
JP**	10mm x 38mm gR ultra rapid 12a J type fuse 82mm fixing centres		L200754J	ultra rapid 660v 35a 69 french industrial fuse
JPD**	J type fuse 82mm fixing centres			14mm x 51mm gL/gG 10a29
JPU**	J type fuse 82mm fixing centres	51	L201398J	american midget fuse fast acting 600v 15a 59
JS**	J type fuse 92mm fixing centres	52	L201881F	NH size 1 cover shield47
JSD**	J type fuse 92mm fixing centres		L201881F	NH size 1 cover shield47
JSU**	J type fuse 92mm fixing centres	52	L212691J	american midget fuse fast acting 600v 3a 59
K075887C	BS88 rectifier fuse gR/uR		L214669C	continental NH fuse size 1 gL/gG 63a 46
	ultra rapid 660v 32a	69	L215313E	fork lift truk fuse enclosed type 300a66
K200707E	d11/e27 gL/gG bottle		L216256J	american fuse class cc fast acting 600v 1a 56
K201765E	fuse 22mm x 50mm 10a	38	L218418D	BS88 rectifier fuse gR ultra rapid 500v 500a
	fuse 22mm x 50mm 16a	38	L218947E	BS88 rectifier fuse gR
K201995E	fork lift truk fuse enclosed type 100a	66		ultra rapid 700v 400a72
K211218E	fork lift truk fuse enclosed type 125a	66	L219315J	american fuse K5 dual
K213196J	american fuse RK5 dual element time delay 600v 30a	42	L219338J	element time delay 600v 25a
K214576E	d111/e33 gL/gG bottle fuse	02	L2 19330J	element time delay 600v 6a58
KZ11070L	27mm x 50mm 50a	39	L227894C	continental NH fuse size 1
K214691C	NH size 1 fuse cover			aM motor rated 100a
K215128J	french industrial fuse		L234081A	NH00 load switch 3 pole
	10mm x 38mm gL/gG 6a	27	L330014J	french industrial fuse
K216232J	american fuse K5 dual element			10mm x 38mm gR ultra rapid 25a 28
1/21/2551	time delay 600v 10a		L330175	continental NH fuse size 00
K216255J	american midget fuse fast acting 600v 5		L 22017EC	gR, aR ultra rapid 80mm base 32a
K216761J K218302J	american fuse class cc fast acting 600v american fuse class cc dual	1.34 . 30	L330175C	continental NH fuse size C00/000 gR ultra rapid 80mm base 32a42
K2103021	element time delay 600v 5a	58	L350-**	BS88 rectifier fuse qR/uR ultra rapid 250v 67
K218831J	american midget fuse fast acting 600v 2		L50S**	BS88 rectifier fuse gR ultra rapid 500v 71
K218946E	BS88 rectifier fuse gR ultra rapid 700v		L70S**	BS88 rectifier fuse gR ultra rapid 700v 72
K222097H	continental NH fuse size	200072	LE**	house service cut out fuse
	C00/000 gL/gG 16a	41		57mm x 22.2mm
K235828A	NH size 1 load switch 3 pole		LPCC**	american fuse class cc dual
K320169	continental NH fuse size 00			element time delay 600v
	gR, aR ultra rapid 80mm base 160a	44	LPN0**	continental NH fuse size 0 gL/gG 45
K320399C	continental NH fuse size 1		LPN00**	continental NH fuse size 00 gL/gG 43
	gR ultra rapid 80a	47	LPN000**	continental NH fuse size C00/000 gL/gG41
K330013J	french industrial fuse		LPN1**	continental NH fuse size 1 gL/gG 46
	10mm x 38mm gR ultra rapid 20a	28	LPN2**	continental NH fuse size 2 gL/gG50
K330174C	continental NH fuse size		LPN3**	continental NH fuse size 3 gL/gG 48
	C00/000 gR ultra rapid 80mm base 25a	42	LPVG10**	french industrial fuse 10mm x 38mm gL/gG. 27

^{**} Denotes Amperage

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PART CODE	DESCRIPTION	PAGE	N213613J	french industrial fuse 22mm x 58mm aM motor rated 40a32
LPVG14**	french industrial fuse 14mm x 51mm qL/q0	3 20	N213705J	american midget fuse fast acting 600v 30a 59
LPVG22**	french industrial fuse 22mm x 58mm qL/g		N216373J	BS88 rectifier fuse qR ultra rapid 700v 25a. 72
LPVG8**	french industrial fuse 8mm x 32mm qL/g		N216764J	american midget fuse time delay 500v 2.5a . 61
LPVM10**	french industrial fuse 10mm x 38mm	JG 20	N218765C	continental NH fuse size 0 gL/gG 63a 45
LI VIVITO	aM motor rated	20	N218811J	american fuse RK5 dual element
LPVM14**	french industrial fuse 14mm x 51mm	20	11/2 100 113	time delay 600v 10a
	aM motor rated	30	N220904J	french industrial fuse 14mm x 51mm
LPVM22**	french industrial fuse 22mm x 58mm			gR ultra rapid no striker 25a 30
	aM motor rated		N330177	continental NH fuse size 00 gR, aR
LS**	street lighting fuse			ultra rapid 80mm base 50a 44
LST**	street lighting fuse	53	N330177C	continental NH fuse size C00/000 gR
M075888C	BS88 rectifier fuse gR/uR ultra			ultra rapid 80mm base 50a
	rapid 660v 40a		NH00**	continental NH fuse size 00 gL/gG43
M212462H	continental NH fuse size C00/000 gL/gC		NH01**	continental NH fuse size 1 gL/gG 46
M214210J	american midget fuse time delay 250v 1		NH02**	continental NH fuse size 2 gL/gG50
M214670C	continental NH fuse size 2 gL/gG 100a		NH03**	continental NH fuse size 3 gL/gG 48
M216257J	american fuse class cc fast acting 600v 5		NHG0**	continental NH fuse size 0 gL/gG 45
M217223A	continental NH fuse size 3 gL/gG 500a	48	NHG00**	continental NH fuse size 00 gL/gG43
M220903J	french industrial fuse 14mm x 51mm		NHG00C0**	continental NH fuse size C00/000 gL/gG41
	gR ultra rapid no striker 40a	30	NHG1**	continental NH fuse size 1 gL/gG 46
M220949J	french industrial fuse 14mm x 51mm		NHG2**	continental NH fuse size 2 gL/gG50
	gR ultra rapid with striker	31	NHG3**	continental NH fuse size 3 gL/Gg 48
M222214J	french industrial fuse		NIT**	BS88 HRC fuse 44mm fixing centres 4
	14mm x 51mm aM motor rated 32a		NIT**M**	BS88 HRC motor rated fuse
M222513F	NH00 cover shields	45		44mm fixing centres11
M320079C	continental NH fuse size C00/000		NITD**	BS88 HRC fuse 44mm fixing centres 4
	urb ultra rapid solid tag 315a	43	NITD**M**	BS88 HRC motor rated fuse
M320171	continental NH fuse size 00 gR,			44mm fixing centres
	aR ultra rapid 80mm base 200a	44	NLF**	BS1362 plug top fuse
M320355C	continental NH fuse size 1 gR		NLS**	american fuse K5 dual element time
	ultra rapid 63a	47		delay 600v
M330015J	french industrial fuse 10mm x 38mm		NOS**	american fuse K5 dual element time
	gR ultra rapid 30a	28		delay 600v
M330176	continental NH fuse size 00 gR,		NS**	BS88 HRC fuse
	aR ultra rapid 80mm base 40a	44	NS**M**	BS88 HRC motor rated fuse
M330176C	continental NH fuse size C00/000 gR		NSD**	BS88 HRC fuse
	ultra rapid 80mm base 40a		NSD**M**	BS88 HRC motor rated fuse
MD**	house service cut out fuse	55	OTS**	american fuse K5 dual element
ME**	house service cut out fuse			time delay 600v
	57mm x 22.2mm		P075890C	BS88 rectifier fuse gR/uR ultra
MES**	BS88 HRC fuse	8		rapid 660v 50a
MF**	house service cut out fuse		P097165C	BS88 rectifier fuse gR/uR ultra
	57mm x 30.2mm			rapid 660v 100a
MS**	BS88 HRC fuse		P211084C	continental NH fuse size 00 gL/gG 160a 43
MSG**	street lighting fuse	53	P212809E	BS88 rectifier fuse gR ultra rapid 700v 300a72
N075889C	BS88 rectifier fuse gR/uR		P214626J	french industrial fuse
	ultra rapid 660v 45a	69	D0455004	22mm x 58mm gL/gG 50a32
N211083C	continental NH fuse size 2	F.0	P215592A	NH00 fuse puller
N1044/F01	gL/gG 400a	50	P216259J	american midget fuse time
N211658J	american midget fuse fast acting	F0	D04//501	delay 500v 2a
N104044014	600v 20a	59	P216650J	french industrial fuse 8mm x 32mm
N212463H	continental NH fuse size C00/000	44	D01/7/51	gL/gG 16a
N10107001	gL/gG 40a	41	P216765J	american midget fuse time delay 500v 7a 61
N212693J	american fuse class cc	F.	P217777J	american fuse RK5 dual
	fast acting 600v 3a	56		element time delay 600v 20a62

PART CODE	DESCRIPTION	PAGE	R214122J	french industrial fuse
D0407001			D0440441	22mm x 58mm aM motor rated 50a 32
P218720J	french industrial fuse 14mm x 51mm	20	R214214J	american fuse class cc dual element
D2107//C	aM motor rated 20a		D21F000F	time delay 600v 20a
P218766C P219870J	continental NH fuse size 1 gL/gG 200a american fuse class cc fast acting 600v 10a		R215088E	d111/e33 gL/gG bottle fuse 27mm x 50mm 63a
P219870J	french industrial fuse 14mm x 51mm	1.30	R216192C	NH size 00 single pole rail fixing
P220905J	gR ultra rapid no striker 16a	20	R210192C	fuse holder
P222492C	continental NH fuse size 0 gL/gG 125a		R217733C	continental NH fuse size 2
P227897C	continental NH fuse size 1 aM	43	112177330	gL/gG 200a
122/0//0	motor rated 200a	16	R219274C	NH size 1 single pole ceramic
P330178	continental NH fuse size 00 gR,	40	1(21)2140	fuse holder
1 000 170	aR ultra rapid 80mm base 63a	44	R219826J	d02/e18 gL/gG bottle fuse
P330178C	continental NH fuse size C00/000		112170203	15.3mm x 36mm 35a
10001700	gR ultra rapid 80mm base 63a	42	R220907J	french industrial fuse 14mm x 51mm
PCC**	miniature ceramic fuse 20mm x 5mm			gR ultra rapid no striker 10a30
	quick blow	20	R222494C	continental NH fuse size 2 gL/gG 250a 50
PCC**S	miniature ceramic fuse 20mm x 5mm		R223023J	d01/e14 gL/gG bottle fuse
	slow blow	20		11mm x 36mm 16a
PDC**	miniature glass fuse 20mm x 5mm		R301177C	continental NH fuse size 1 gR
	quick blow	16		ultra rapid 315a47
PDC**S	miniature glass fuse 20mm x 5mm		R320175	continental NH fuse size 00 gR,
	slow blow	17		aR ultra rapid 80mm base 250a44
Q075891C	BS88 rectifier fuse gR/uR		R320589A	continental NH fuse size 3
	ultra rapid 660v 55a	69		gR/uR ultra rapid 630a49
Q097166C	BS88 rectifier fuse gR/uR		RH**	house service cut out fuse 57mm x 22.2mm . 54
	ultra rapid 660v 160a	70	RHC**	house service cut out fuse 57mm x 22.2mm . 54
Q200758J	french industrial fuse		RHD**	house service cut out fuse 57mm x 22.2mm . 54
	14mm x 51mm aM motor rated 40a	30	RHF**	house service cut out fuse 57mm x 22.2mm . 54
	0)continental NH fuse size 2 gL/gG 355a		RHL**	house service cut out fuse 57mm x 30.2mm . 54
Q211660J	american fuse class cc fast acting 600v 25a	a.56	RHLD**	house service cut out fuse 57mm x 30.2mm . 54
Q212695J	american midget fuse time delay 500v 0.2	5a 61	RHLF**	house service cut out fuse 57mm x 30.2mm . 54
Q213201J	american midget fuse time delay 250v 25a	60	S075893C	BS88 rectifier fuse gR/uR
Q217180J	french industrial fuse 22mm x 58mm			ultra rapid 660v 75a69
	gL/gG 80a	32	S097283C	BS88 rectifier fuse gR/uR
Q217686J	french industrial fuse			ultra rapid 660v 355a
	14mm x 51mm aM motor rated 16a		S200852J	american midget fuse time delay 250v 2a60
Q217732C	continental NH fuse size 1 gL/gG 125a	46	S212168J	american fuse class cc dual
Q217778J	american fuse RK5 dual		60407071	element time delay 600v 2a58
00100071	element time delay 600v 40a		S212697J	american fuse class cc time delay 600v 10a . 57
Q218307J	american midget fuse time delay 500v 1.5		S215135J	french industrial fuse
Q218905E	fork lift truk fuse enclosed type 500a	66	C21E407C	14mm x 51mm aM motor rated 6a 30
Q219227J	french industrial fuse 8mm x 32mm gL/gG 2a	24	S215687C S217734A	continental NH fuse size 1 gL/gG 80a 46 continental NH fuse size 3 gL/gG 630a 48
Q219457D	BS88 rectifier fuse gR	20	S217734A S218194J	french industrial fuse
Q219437D	ultra rapid 500v 600a	71	32 10 1941	10mm x 38mm gL/gG 10a
Q320059C	continental NH fuse size	/ 1	S219344J	american midget fuse time delay 500v 20a61
Q320037C	C00/000 urb ultra rapid solid tag 80a	13	S219873J	american midget fuse time delay 500v 25a61
Q330179	continental NH fuse size	43	S320590A	continental NH fuse size 3
2000177	00 gR, aR ultra rapid 80mm base 80a	44	302007071	gR/uR ultra rapid 700a
R075892C	BS88 rectifier fuse qR/uR		S500/**	miniature glass fuse
110700720	ultra rapid 660v 63a	69	00001	20mm x 5mm quick blow
R097282C	BS88 rectifier fuse gR/uR		S501/**	miniature ceramic fuse
	ultra rapid 660v 315a	70		20mm x 5mm quick blow
R201863C	continental NH fuse size	-	S505/**	miniature ceramic fuse
	00 gL/gG 125a	43		20mm x 5mm slow blow 20
R211569J	neutral link		\$506/**	miniature glass fuse 20mm x 5mm slow blow . 17
R213708J	american midget fuse		SBS**	american midget fuse fast acting 600v59
	time delay 500v 10a	61	SF627	d11/e27single pole fuse base 40
** Denotes A	mnerage			

^{**} Denotes Amperage

^{??} Denotes other number relating to but not Amperage (Amps would still need to be established)

PART CC	DDE DESCRIPTION PAG	GE TM** TMF**	BS88 HRC fuse 133/184mm fixing centres 8 BS88 HRC fuse 111mm fixing centres 8
SFD33	d111/e33single pole fuse base		BS88 HRC motor rated
SMD**	house service cut out fuse		fuse 111mm fixing centres
SS**	BS88 HRC fuse		american fuse RK5 dual
SSD**	BS88 HRC fuse		element time delay 250v
STD**	street lighting fuse		american midget fuse time delay 250v 60
T0758940	0 0	TRS**R	american fuse RK5 dual
10700710	ultra rapid 660v 80a		element time delay 600v 62
T0971690	·	TTM**	BS88 HRC fuse 133/184mm
10771070	ultra rapid 660v 200a		fixing centres
T200853	american midget fuse time delay 250v 8a		american fuse class cc dual
T200000	9		element time delay 600v 15a
T211663J			american midget fuse fast acting 600v 25a 59
T212146J	3	V213113J	french industrial fuse
12121103	element time delay 600v 6a		22mm x 58mm aM motor rated 32a 32
T212974F	3	V214723J	american fuse class cc
1212// 11	C00/000 qL/qG 50a		dual element time delay 600v 25a
T214676J	5 5	V217276J	american fuse class cc
12110703	11mm x 36mm 2a		dual element time delay 600v 4a 58
T215343A		V217782J	american midget fuse
12100107	ultra rapid 500v 350a		time delay 250v 0.5a
T216769J	•		american midget fuse
T217275J	3	·	time delay 250v 10a 60
12172703	element time delay 600v 1a	58 V220818J	french industrial fuse 14mm x 51mm
T217873E	3		gR ultra rapid with striker
T218310J	31		french industrial fuse 14mm x 51mm
T2999001	,		gR ultra rapid with striker
T305020k	•		american fuse class cc fast
T320591			acting 600v 15a
	gR/uR ultra rapid 800a	49 V301226C	continental NH fuse size 1 gR
T3301820			ultra rapid 400a47
	C00/000 gR ultra rapid 80mm base 80a	42 V305021F	10mm x 38mm fuse holder
T350-**	BS88 rectifier fuse gR/uR ultra rapid 250v		
TB**M**	BS88 HRC motor rated		urb ultra rapid solid tag 100a43
	fuse 97mm fixing centres	13 V320592A	
TC**	BS88 HRC fuse 111mm fixing centres		ultra rapid 900a49
TC**M**	BS88 HRC motor rated	V330183C	continental NH fuse size C00/000
	fuse 111mm fixing centres	14	gR ultra rapid 80mm base 100a42
TCC**	miniature ceramic fuse	W0971710	BS88 rectifier fuse gR/uR
	25mm x 5mm quick blow	21	ultra rapid 660v 250a70
TCP**	BS88 HRC fuse 94mm fixing centres	. 5 W200809J	d01/e14 gL/gG bottle fuse
TCP**M*	* BS88 HRC motor rated		11mm x 36mm 4a
	fuse 94mm fixing centres	12 W202695E	BS88 rectifier fuse gR
TF**	BS88 HRC fuse 111mm fixing centres	. 7	ultra rapid 700v 50a
TF**M**	BS88 HRC motor rated	W211090J	
	fuse 111mm fixing centres	14	11mm x 36mm 10a
TFP**	BS88 HRC fuse 94mm fixing centres	. 6 W211251 <i>A</i>	A BS88 rectifier fuse gR
TIA**	BS88 HRC fuse 73mm fixing centres	. 5	ultra rapid 500v 250a 71
TIA**M**	BS88 HRC motor rated	W211665J	
	fuse 73mm fixing centres	11	time delay 600v 5a
TIS**	BS88 HRC fuse 73mm fixing centres	. 5 W212654E	B PB00 separatin plate45
TIS**M**	BS88 HRC motor rated	W212769E	fork lift truk fuse enclosed type 160a66
	fuse 73mm fixing centres	12 W213160J	3 3
TKF**	BS88 HRC fuse 111mm fixing centres	. 8	15.3mm x 36mm 25a
TKF**M*	* BS88 HRC motor rated	W216656J	
	fuse 111mm fixing centres		14mm x 51mm gL/gG 32a 29
TLM**	BS88 HRC fuse 133/184mm fixing centres	10 W217277J	american midget fuse fast acting 600v 1a 59

PART CODE	DESCRIPTION PAG	E Y200857J Y210609C	american midget fuse fast acting 600v 12a 59 continental NH fuse size c00/000
W219232J	french industrial fuse	1210009C	gR ultra rapid 16a42
VVZ172323	10mm x 38mm aM motor rated 4a 2	8 Y211552J	french industrial fuse
W219761J	french industrial fuse	.0 12110023	10mm x 38mm aM motor rated 10a 28
	10mm x 38mm gL/gG 12a	7 Y212173J	american midget fuse time delay 500v 0.5a . 61
W220819J	french industrial fuse 14mm x 51mm	Y214220J	american midget fuse time delay 500v 12a 61
	gR ultra rapid no striker 32a	0 Y215232J	american fuse class cc dual
W220911J	french industrial fuse 22mm x 58mm		element time delay 600v 3a58
	gR ultra rapid no striker 100a	3 Y215646J	french industrial fuse
W220934J	french industrial fuse 14mm x 51mm		22mm x 58mm gL/gG 63a32
	gR ultra rapid with striker	11 Y215738J	american midget fuse
W222544J	american midget fuse time delay 250v 15a6	0	time delay 250v 1.4a
W222958J	french industrial fuse	Y216543H	continental NH fuse size
	8mm x 32mm gL/gG 4a	26	C00/000 gL/gG 80a 41
W305022F	10mm x 38mm fuse holder	9 Y217693J	french industrial fuse
W320179	continental NH fuse size 00		22mm x 58mm aM motor rated 100a 32
	gR, aR ultra rapid 80mm base 315a	4 Y219234J	french industrial fuse
W320363C	continental NH fuse size 1		14mm x 51mm gL/gG 2a 29
	gR ultra rapid 100a	7 Y219947E	fork lift truk fuse enclosed type 80a66
W320593A	continental NH fuse size 3	Y220821J	french industrial fuse 22mm x 58mm
	gR/uR ultra rapid 1000a	9	gR ultra rapid no striker 80a
W330184C	continental NH fuse size	Y220913J	french industrial fuse 22mm x 58mm
	C00/000 gR ultra rapid 80mm base 125a4	2	gR ultra rapid no striker 50a
X097057J	BS88 rectifier fuse gR/uR	Y301252C	continental NH fuse size 1
	ultra rapid 660v 6a	8	gR ultra rapid 125a47
X200856J	american fuse class cc dual	Y330186C	continental NH fuse size C00/000
	element time delay 600v 8a	8	gR ultra rapid 80mm base 200a42
X201914J	american fuse class cc dual	Z097289C	BS88 rectifier fuse gR/uR
	element time delay 600v 12a		ultra rapid 660v 500a 70
X212540E	d11/e27 gL/gG bottle fuse	Z201295J	french industrial fuse
	22mm x 50mm 25a		10mm x 38mm aM motor rated 8a 28
X213598J	french industrial fuse	Z201916J	american midget fuse fast acting 600v 2a 59
	10mm x 38mm gL/gG 4a	27 Z210610C	continental NH fuse size c00/000
X216151J	french industrial fuse		gR ultra rapid 20a42
	10mm x 38mm aM motor rated 20a 2		american fuse class cc fast acting 600v 20a . 56
X216703C	continental NH fuse size 1 gL/gG 100a 4		continental NH fuse size C00/000
X216841E	fork lift truk fuse enclosed type 355a		gL/gG 63a
X217255J	american fuse K5 dual	Z212588J	french industrial fuse
	element time delay 600v 15a		14mm x 51mm gL/gG 20a29
X218198J	french industrial fuse	Z214221J	american midget fuse time delay 500v 6a61
	14mm x 51mm gL/gG 40a		american midget fuse time delay 250v 30a60
X220820J	french industrial fuse 22mm x 58mm	Z216659J	french industrial fuse
	gR ultra rapid with striker 80a		14mm x 51mm aM motor rated 10a 30
X220912J	french industrial fuse 22mm x 58mm	Z216682B	22mm x 58mm three pole fuse holder34
	gR ultra rapid no striker 63a		NH size 00 single pole ceramic fuse holder. 45
X220935J	french industrial fuse	Z218798J	american fuse K5 dual
\/00007.41	14mm x 51mm gR ultra rapid with striker . 3		element time delay 600v 20a
X223074J	american midget fuse time delay 500v 1.6a . 6		french industrial fuse
X305000K	8mm x 32mm fuse holder		14mm x 51mm gL/gG 50a
X305023D	10mm x 38mm fuse holder	29 Z219718E	d11/e27 gL/gG bottle fuse
X330185C	continental NH fuse size C00/000	70000441	22mm x 50mm 2a
V220277	gR ultra rapid 80mm base 160a	2 Z220914J	french industrial fuse
X330277C	continental NH fuse size C00/000	12	22mm x 58mm gR ultra
VC**	gR ultra rapid 80mm base 16a		rapid no striker 40a
XS**	street lighting fuse	3 Z301253C	continental NH fuse size 1
Y097288C	BS88 rectifier fuse	10	gR ultra rapid 160a47
	gR/uR ultra rapid 660v 450a	U	

^{**} Denotes Amperage

^{??} Denotes other number relating to but not Amperage (Amps would still need to be established)

Ampere

The measurement of intensity of rate of flow of electrons in an electric circuit. An ampere is the amount of current that will through a resistance of one ohm under a pressure of one volt.

Ampere Rating

The current-carrying capacity of a fuse. When a fuse is subjected to a current above its ampere rating, it will open the circuit after a determined period of time.

Ampere squared seconds, I2t

The measurement of heat energy developed within a circuit during the fuses clearing. It can be expressed as "melting l2t", "arcing l2t" or the sum of them as "clearing l2t". "I" stands for effective let-through current (RMS), which is squared, and "t" stands for time of opening in seconds.

Arcing time

The amount of time from the instant the fuse link has melted until the overcurrent is interrupted, or cleared.

Breaking capacity

(See interrupting rating)

Cartridge fuse

A fuse consisting of a current responsive element inside a fuse tube with terminals on both ends.

Class CC fuses

600v, 200,000 ampere interrupting rating, branch circuit fuses with overall dimensions of 13/32 x 1 1/2. Their design incorporates a rejection feature

that allows them to be inserted into rejection fuse holders and fuse blocks that reject all lower voltage, lower interrupting rating 13/32 x 1 _ fuses. They are available from 1/10 amp through to 30 amps.

Class G fuses

480v, 100,000 ampere interrupting rating branch circuit fuses that are size rejecting to eliminate overfusing. The fuse diameter is 13/32 while the length varies from 1 5/16 to 2 1/14. These are available in ratings from 1 amp through to 60 amps.

Class H fuses

250v and 600v, 10,000 ampere interrupting rating branch circuit fuses that may be renewable or non-renewable. These are available in ampere ratings of 1 amp through to 600 amps.

Class J fuses

These fuses are rated to interrupt a minimum of 200,000 amperes AC. They are labelled as "current-limiting", are rated for 600 volts AC, and are not interchangeable with other classes.

Class K fuses

These are fuses listed as K-1, K-5, or K-9 fuses. Each subclass has designated l2t and lp maximums. These are dimensionally the same as class h fuses, and they have interrupting ratings of 50,000, 100,000 or 200,000 amps. These fuses are current-limiting. However, they are not marked "current-limiting" on their label, as they do not have a rejection feature.

Class L fuses

These fuses are rated for 601 through 6000 amperes, and are rated to interrupt a minimum of 200,000 amperes AC. They are labelled "current-limiting" and are rated for 600 volts AC. They are intended to be bolted into their mountings and are not normally used in clips. Some class L fuses have designed in time-delay features for all purpose use.

Class R fuses

These are high performance fuses rated 1/10 - 600 amps in 250 volt and 600 volt ratings. All are marked "current limiting" on their label and all have a minimum of 200,000 amp interrupting rating. They have identical outline dimensions with the class H fuses but have a rejection feature which prevents the user from mounting a fuse of lesser capabilities (lower interrupting capacity) when used with special class R clips. Class R fuses will fit into either rejection or non-rejection clips.

Class T fuses

An industry class of fuses in 300 volt and 600 volt ratings from 1 amp through 1200 amps. They are physically very small and can be applied where space is at a premium. They are fast acting and time-lag fuses, with an interrupting rating of 200,000 amps RMS.

Classes of fuses

The industry has developed basic physical specifications and electrical performance requirements for fuses with voltage ratings of 600 volts or less. These are known as standards. If a type of fuse meets

GLOSSARY

the requirements of a standard, it can fall into that class. Typical classes are K, RK1, RK5, G, L, H, T, CC and J.

Clearing time

The total time between the beginning of the overcurrent and the final opening of the circuit at rated voltage by an overcurrent protective device. Clearing time is the total of the melting time and arcing time.

Current Limitation

A fuse operation relating to short circuits only. When a fuse operates in its current limiting range, it will clear a short circuit in less than _ cycle. Also, it will limit the instantaneous peak letthrough current to a value substantially less than that obtainable in the same circuit if that fuses were replaced with a solid conductor of equal impedance.

Dual element fuse

Fuse with a special design that utilises two individual elements in series inside the fuse tube. One element, the spring actuated trigger assembly, operates on overloads up to 5-6 times the fuse current rating. The other element, the short circuit section, operates on short circuits up to their interrupting rating.

Electrical load

The part of the electrical system which actually uses the energy or does the work required.

Fast acting fuse

A fuse which opens on overload and short circuits very quickly. This type of fuse is not designed

to withstand temporary overload currents associated with some electrical loads.

Fuse

An overcurrent protective device with a fusible link that operates and opens the circuit on an overcurrent condition.

High speed fuses

Fuses with no intentional timedelay in the overload range and designed to open as quickly as possible in the short-circuit range. These fuses are often used to protect solid-state devices.

Inductive load

An electrical load which pulls a large amount of current- an inrush current- when first energised. After a few cycles or seconds the current "settles down" to the full load running current.

Interrupting capacity

See interrupting rating.

Interrupting rating (breaking capacity)

The rating which defines a fuse's ability to safely interrupt and clear short circuits. This rating is much greater than the ampere rating of a fuse. The NEC defines interrupting rating as "the highest current at rated voltage that an overcurrent protective device is intended to interrupt under standard test conditions."

Melting time

The amount of time required to melt the fuse link during a specified overcurrent. (See arcing time and clearing time).

"NEC" dimensions

These are dimensions once referenced in the national electrical code. They are common to class H and K fuses and provide interchangeability between manufacturers for fuses and fusible equipment of given ampere and voltage ratings.

Ohm

The unit of measure for electric resistance. An ohm is the amount of resistance that will allow one ampere to flow under a pressure of one volt.

Ohm's law

The relationship between voltage, current, and resistance, expressed by the equation E = IR, where E is the voltage in volts, I is the current in amperes, and R is the resistance in ohms.

One Time fuses

Generic term used to describe a class H non-renewable cartridge fuse, with a single element.

Overcurrent

A condition which exists on an electrical circuit when the normal load current is exceeded. Overcurrents take on two separate characteristics - overloads and short circuits.

Overload

Can be classified as an overcurrent which exceeds the normal full load of a circuit. Also characteristic of this type of overcurrent is that it does not leave the normal current carrying path of the circuit - that is, it flows from the source, through the conductors, through the load back through the conductors, to the source again.

Peak Let-through current, lp

The instantaneous value of peak current let-through by a current-limiting fuse, when it operates in its current-limiting range.

Renewable fuse (600v & below)

A fuse in which the element, typically a zinc link, may be replaced after the fuse has opened, and then reused. Renewable fuses are made to class H standards.

Resistive load

An electrical load which is characteristic of not having any significant inrush current. When a resistive load is energised, the current rises instantly to its steady-state value, without first rising to a higher value.

R.M.S current

The R.M.S (root-mean-square) value of any periodic current is equal to the value of the direct current which, flowing through a resistance, produces the same heating effect in the resistance as the periodic current does.

Semi conductor fuses

Fuses used to protect solid state devices. See high speed fuses.

Short circuit

Can be classified as an overcurrent which exceeds the normal full load current of a circuit by a factor many times (tens, hundreds, or thousands greater). Also characteristic of this type of overcurrent is that it leaves the normal current carrying path of the circuit - it takes a "short cut" around the load and back to the source.

Short circuit rating

The maximum short-circuit current an electrical component can sustain without the occurrence of excessive damage when protected with an overcurrent protective device.

Short circuit withstand rating

Same definition as short-circuit rating.

Single phasing

That condition which occurs when one phase of a three phase system opens, either in a low voltage (secondary) or high voltage (primary) distribution system. Primary or secondary single phasing can be caused by any number of events. This condition results in unbalanced currents in polyphase motors and unless protective measures are taken, causes overheating and failure

Threshold current

The symmetrical RMS available current at the threshold of the current-limiting when tested to the industry standard. This value can be read off of a peak let0through chart where the fuse curve intersects the A-B line. A threshold ratio is the relationship of the threshold current to the fuse's continuous current rating.

Time-Delay fuse

A fuse with a built-in delay that allows temporary and harmless inrush currents to pass without opening, but is so designed to open on sustained overloads and short circuits.

Voltage rating

The maximum open circuit voltage in which a fuse can be used, yet safely interrupt an overcurrent. Exceeding the voltage rating of a fuse impairs its ability to clear an overload or short circuit safely.

Withstand rating

The maximum current that an unprotected electrical component can sustain for a specified period of time without the occurrence of extensive damage.

BRITISH STANDARD LOW VOLTAGE INDUSTRIAL FUSE LINK - APPLICATION INFORMATION

The Bussmann standard range of high breaking capacity fuse links for low voltage industrial and general purpose applications meet the requirements of BS88 and IBC60269. By using advanced fuse technology the current ratngs up to 400A have compact dimensions but still within the standardised dimensional and performance requirements. These designs have been optimised for 415/240V systems. The standard range of fuse links are available from 2-1250A in the following tag forms: OFFSET BLADED - OFFSET BOLTED - CENTRE BOLTED.

Supplementary ranges cover applications up to 690V a.c. and 500V d.c. including those with non-standard tag fixings.

Bussmann fuse links are manufactured under Quality Systems independently assessed to ISO 9001 and appropriate ratings carry the ASTA 20 endorsement.

APPLICATION DATA

One of the long standing advantages of fuse protection is that fuse selection is relatively simple and effective.

The following notes cover the majority of applications. For further information contact Bussmann technical services on 01509 882699.

Reference should also be made to the appropriate Wiring Installation rules, in the UK the 16th EMittion of the IME Wiring Regulations for Electrical Installations which aligns with IMC 60364.

CIRCUIT LOADING

The current rating of the fuse link should not be less than the full load current of the circuit. The circuit should be so designed that small overloads of long duration will not be of frequent occurrence.

CABLE RATINGS

There is an increasing move away from 70°C P.V.C. insulation to materials which are more environmentally friendly, for example 90°C XLPE. The ratings of fusegear, switches, accessories etc. are generally based upon the equipment being connected to conductors intended to be operated at a temperature not exceeding 70°C in normal service.

In view of the above it is recommended that the practice of designs based upon conductor temperatures of 70°C be recarded as the norm.

In accordance with clause 512-02-01 of the Wiring Regulations the equipment manufacturer should be consulted to ascertain the reduction of nominal current rating of the equipment if conductor temperatures exceeding 70°C are used. In addition an overriding factor is often voltage drop consideration.

CABLE PROTECTION

Bussmann fuse links with gG characteristics protect associated cables against both overload and short circuit current, provided that the current rating of the fuse link I, is equal or less than the current carrying capacity of the cable I-.

In motor circuits, the motor starter will provide the overload protection and the fuse links will provide the short circuit protection. The maximum size of fuse link that can be used depends upon the type of cable used and is determined in accordance with the Wiring

Cable Size	Max. Fuse Rating						
m m ²							
popular cabl	es with copper o	onductors, 70°C					
P.V.C,5 (K=	115) agangd 90°C	thermosetting					
(K=12/3).	32*	32*					
4	50*	50*					
6	63*	63*					
10	100*	125*					
16	125*	160*					
2.5	200*	250*					
3.5	315*	355*					
5 0	400*	500					
7.0	560	630					
9.5	710	800					
120	800	1000					

Zs OHMS IMPEDANCE VALUES

The rules for protection against indirect contact are given in Chapter 413 of the Wiring

		Rating (A)	
		ted for a c	
circuit. '	The maximum	values of	earth fault
		correspon	
disconnect	ing tome of	5s foggnomi	nal ovodstage
		forl@Mssm	
links ²⁰	3.0	200	0.20
25	2.4	250	0.16
3 2	1.9	315	0.13
4 0	1.4	400	0.096
50	1.1	500	0.073
63	0.86	630	0.054
8 0	0.60	800	0.044

AMBIENT TEMPERATURE

A de-rating in terms of current of 0.5% per °C above an ambient of 35°C is recommended.

BREAKING CAPACITY

The standardised values of Breaking Capacity are 80kA for voltages of 415V a.c. and above, and 40kA for d.c. applications.

DISCRIMINATION

All fuse links will give a discrimination ratio of 2:1 and for most practical situations a ratio of 1.6:1 (two steps in the RIO series). Example: an upstream fuse rated at 160A will discriminate with a downstream fuse rated at 100A.

CURRENT AND ENERGY LIMITATION

The Bussmann range of fuse links have prearcing Ft values towards the bottom limits of the standards. This ensures excellent current and energy limitation. They also have lower power losses at rated current. This assists in the appropriate interchangeability with other makes of fuse links.

TRANSFORMERS

When fuse links are used on the primary side of transformers the normal current rating of the fuse links should be at least twice the nominal transformer primary current.

FLUORESCENT LIGHTING

The normal current rating of the fuse link should be at least twice the normal full load current of the maximum number of lights to be switched simultaneously.

CAPACITOR CIRCUITS

In capacitor circuits, for example power factor correction, the fuse link should be chosen with a current rating greater than 1.5 times the rated capacitor current. This takes account of the high transient innush current, circuit hamonics and capacitor tolerances.

MOTOR CIRCUITS

In motor circuits the fuse link has to withstand the starting current of the motor and often requires a higher rating than the full load current of the motor.

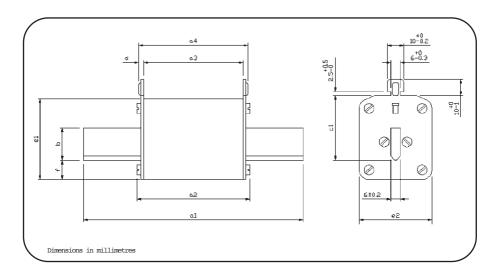
Co-ordination recommendations are made by the manufacturers of motor starters in accordance with IEC 60947-4-1. To give the desirable type 2 co-ordination with fixe links, tests are performed with the latest gG or gM fuse links, to BS88 or IEC60269 which have pre-arcing It values toward the bottom specified limits. This means that Bussmann fuse links are suitable to give type 2 co-ordination.

Extended dual ratings of motor circuit protection fuse links with gM characteristics are available

Motor		Standard (gG)	Motor Circuit (gM)		
k W					
			d for moto		
protect:	ion, the	y simply e	ctend the u	tilisation	
of star	dard ec	uipment.	-		
0.55	2.0		-	4	
		tahla aha	ws the red		
			ost applica		
			ive second		
is infr	equienit -	no more t	han twice p	per house.	
The pext	: lårger	rating sh	ould be use	d for more	
arduous	condit	ions,	32M40	2.5	
11.0	2.0	5.0	32M50	3.2	
15.0	27	6.3	32M63	4.0	
18.5	3.3	8.0	63M80	5.0	
22.0	38	8.0	63M80	5.0	
30.0	5.4	100	63M100	80	
37.0	66	125	100M125	8.0	
45.0	7.9	160	100M160	100	
55.0	98	160	100M160	100	
75.0	135	250	200M250	160	
90.0	155	250	200M250	160	
110.0	185	315	200M315	200	
132.0	220	355	315M400	250	
150.0	250	355	315M400	315	
185.0	310	450	400M500	355	
200.0	335	500	400M500	400	
225.0	375	560		400	
250.0	415	560	_	450	
280.0	460	630	_	500	
335.0	562	710	_	630	
355.0	596	800	_	710	
1					

GLOSSARY

DIMENSIONAL DATA FOR NH FUSES



Fuse Size	Į. (A)	al	a2	a3	a4	b (min)	c1	D	el	e2	f
C00	63	78.5	5 3	45.5	4 9	15	3 5	1.7	39.5	20.5	7
0 0	160	78.5	5 3	45.5	4 9	15	3 5	1.7	3 8	2 9	7
0 1	160	135	6 9	6 2	6 7	15	4 0	2.5	4 5	2 9	12
1	250	135	6 9	61	67	2 0	4 0	3	5 0	44.5	12
0 2	250	150	6 9	61	6 7	2 0	4 8	3	5 0	44.5	12
2	400	150	7 0	61	6 7	2 5	4 8	3	5 8	5 0	12
0 3	400	150	7 0	6 1	6 8	2 5	6 0	3	5 8	5 0	12
3	630	150	7 3	6 1	6 8	3 2	6 0	3	7 3	71	15
4a	1000	200	8 4	8 4	9 0	5 0	8 5	3	102	8 7	3 0
4a	1600	200	8 4	8 4	9 0	5 0	8.5	3	110	9 5	3 0

TERMS & CONDITIONS

All orders for goods (the "Coods") to be supplied by Hageneyer (UK) Limited or any of its subsidiary companies as the case may be (hereinafter referred to as the "Company") are subject to these conditions of sale and the placing of an order by a buyer ("the Buyer") will constitute acceptance of these conditions.

by a buyel (the buyel) with constitue acceptance on these continuous.

These conditions may not be modified or which durined unless the Company agrees in writing and the Company will not be deemed to accept any other conditions not walle any of these conditions by failing to object the profisions contained in any purchase order or other communications from the Buyer. No person has authority on behalf of the Company to Vary any conditions except by a written braidom signed by a director or the company secretary.

Validity of Quotations

various you cucurations.

Outstations from the Company are stated to be open for such time as may be specified in each such quotation and profiled it is not withdramen by the company are such period it remains capable of acceptance. No binding contract will be created by the acceptance by the object of the Company's quotation until notice of such acceptance has been glind in a purchase order and fine either been signed by the Company's obly authorised representable or the Company has indicated to the Boyer crably or in mixing its acceptance of such order.

If the buyer places an order with the Company without requesting a quotation from the Company or before such a quotation has been profiled, all deliberies carried out in statistication of such order with the subject to these conditions.

New Accounts

Prospective customers wishing to open a credit account are requested to furnish two trade references and one Banker's reference. Until the opening of a credit account has been confirmed a remittance should accompany the order, otherwise delivery will not be made until after the references have proved acceptable to the Company.

Settlement Terms

Accounts are payable by the last working day of the month following the month in which delivery of the Goods takes place.

Time for payment will be of the season. If the beyon has exceeded any agreed credit learns, the Company my externation mentalese payment of all amounts softcharding from the bayer to the Company on any account. The Company reserves the right to relate credit at any time and demand immediate payment of all montes outstanding. Receipts will only be issued against payments made by Orque of secondarilary requested.

against payments make by cheque i specimizary requested. The Company, at its discretion, reserves the right to charge interest on accounts outstanding beyond the time specified in this condition. The rate of interest will be 3% per anium over Bardays Bank base lending rate from time to time in frore. The Company may exercise this right in addition to any other rights it may have in respect of the Goods or non-

Where the contract is to be or may be fulfilled in sparate instalments deliveries or parts, payment for each such instalment in delivery or part will be made as if the same conditional as appeared contract. Failure by the beyer to pay from a instalment in accordance with this closure will entitle the Company without prejudic to its other rights and remedies to suspend further deliveries of Goods under any other contract to the Buyer, perinding payment by the Buyer will indemnify the Company against all costs, fosses and liability including but not limited to all legal exponess and debursenesh insurred by the Company payment in this Revenue is controlled to the Company payment to this Agreement or otherwise. Where the contract is to be or may be fulfilled in separate instalments deliveries or parts, payment for each such instalment

Pricos

Unless otherwise agreed in writing all orders are executed subject to prices and any relevant discounts ruling at the date of receipt of the order and any price list of the Company whether published or not will not affect the right of the Company to charge for Goods in accordance with this clause. All prices are subject to the addition of value Added lax at the appropriate

In the event of termination, variation or suspension of a contract on the Buyer's instruction or by lack of instruction, the contract price will be adjusted to reflect the additional costs incurred by the Company. Where a price per unit has been quoted and the Buyer requires, a smaller number of units to be delivered than those quoted for, the Company reserves the right to adjust the rates of prices applicable thereto.

Credit

Any contract will be subject to the Company being satisfied as to the Buyer's credit worthiness and without prejudice to the generality of the foreigning the Company may in its absolute discretion, having informed the Buyer that the Goods are ready for delivery, lertain from delivering the Goods until such time as the Buyer benders the purchase money that Company in a form satisfactory to the Co

Orders

The Buyer may place orders by post, fax, email or telephone.

ne cupra may punc evens a by poot, and, tellar in cerprinates.

Where Orders are sent by poot face or email in confirmation of telephone instructions the Buyer will ensure they are clearly marked as such, falling which any additional experce incurred by the Company as a result of duplication of orders will be charged to the Buyer.

Delivery

Delivery dates (if any) given by the Company are given in good faith to indicate estimated delivery times but will not amount to any contractual obligitation to deliver at the times shaled. The Company will not be liable for any loss including four not limited by loss of profit, costs, damages, schapes or experse caused directly or indirectly by any deby in the delivery of the Goods (seen if caused by the Company inequipace) nor unless any delay occased 180 days will such delay entitle the Buyer to terminate or rescribe the contract.

Failure by the Company to deliver any one or more (but not all) instalments in accordance with this contract will not entitle

the River to treat this contract as reguliated

The Buyer to treat this context as repudated.

If the Buyer list is take definery of any of the Goods when they are ready for delivery, or fails to provide any instructions or authorisations required to enable the Goods to be delivered on time the Goods will be deemed to have been delivered and (eithbut prejudice to its other right) he Company may, even the Goods will lead delivery or said and drange the Buyer for all related oxist and oppress (including, without limitation, storage and insurance); and/or following written notice to the Buyer, sail and of the Goods at the begint reasonably oblamidate in the circumstances and charge the Buyer for any shortfall below the price agreed with the Bu

Passing of Title/Risk

reasoning or interests.

Sick of damage to or loss of the Goods will gass to the Buyer upon delivery.

Ownership of the Goods will not pass to the Buyer until the Company has received in full (in cash or cleared funds) all sums due to it in respect of the Goods and all other sums which are or which become due to the Company from the Buyer on

Until numershin of the Goods has passed to the Buver, the Buver must

hold the Goods on a fiduciary basis as the Company's bailee;

into the cooks of a clinical, each act technique's beare.

Set the Goods of a finite clinical countries are the control of the Buyer or any third party so that they are identifiable as the Company's property not destroy, delate or obsure any identifying mark or packlings on or relating to the Goods maritain the Goods in sitisfactory condition insured on the Company bearf for their full price against all risks to the reasonable sitisfaction of the Company or the company and hold any process of such incurrace on trust for the Company separately from any other money, and not pay the proceeds into an overdrawn bank account.

The Buyer may resell the Goods before ownership has passed to it provided such sale is:

The control was considered to the Buyer's business at full market splace and the Buyer will account to the Company accordingly, and on the Buyer's control and the Buyer deals as principal when making such sale.

If the Company cannot determine which goods are the Coods, the Buyer will be deemed to have sold all goods sold by the Company to the Buyer. If the control in which they were invoiced to the Buyer.

any will be entitled to recover payment for the Goods notwithstanding that ownership of any Goods has not pas

from the Company The Buyer grants the Company, its agents and employees an irrevocable licence at any time to enter any premises where the Goods are or may be stored in order to inspect them, or, where the Buyer's right to possession has ferminated, to recover

Delivery / Carriage

The Company normally makes no charge for delivery from its own warehouses within its normal delivery area but reserves the right to charge carriage for deliveries outside such delivery area.

Where Goods are specially ordered from manufacturers, and a carriage charge is made by such manufacturers, the Company reserves the right to recover this charge from the Buyer.

PackAging
The Company may impose additional charges in respect of packAging it uses for transportation and delivery of the Cooks.

Any such changes will either be contained or referred to in the application. For the avoidance of doubt, the parties

ensuing a trist such additional changes will be levied in respect focks which are deploted in crade, change, cases, paties

or other similar packAging and may be levied at the Company's discretion in the case of any other packAging.

Where the Company changes for packAging pressant to change !! I.1 unless otherwise specified by the Company, the Buyer

will be entitled to a fill or dealer for such additional change, to be credited against subsequent mocks, so long as such

containing a featured undernaged for be Company carriagly paid within 14 days of the did to the index of for the Cooks.

Damage in transit and shortages

Damage in transit and shortages.

The Company will when the price quoted indudes delivery, repair or replace free of change Goods damaged in transit provided that the Company and its designated carnies receive written notification of such damage within three days of delivery. Goods received in a damaged or unsatisfactory condition must be signed for as such.

On receipt Goods should be checked by the Buyer with the advice role endused with the Goods. Shortage claims will be

considered if the Company and its designated carriers receive written notification of any such shortage within 3 days of delivery failing which no liability will be admitted. In any such case, the packlging and contents should be retained for

Returns

Recurring.

Goods correctly supplied may not be returned without the Company's prior written agreement. Goods so returned must be consigned carriage peal and accompanied by a packing note staffing the Company's invitice number and date thereof bugether with the eason if everturn. In such circumstances, the Company may improve a restording druting.

If the Goods (or any of them) have returned and are subsequently lost in transit the Company will only issue credit if it can be concludely proved that the Company or its agents these actually removed the Goods from the buget's premises.

Quality

Unless the Company specifies otherwise in its quotation, the Company will not be liable for any defect in quality of any of the Gooks, and the obligations of the Company in such respect till the restricted to applying its reasonable endeavours to: transfer to the Buyer the benefit of any warranty or guarantee received by the Company in respect of the Gooks, or make and pursue any available claim under the terms of any warranty or quarantee as mentioned in clause 14.1. In the event of a claim being made, the Company will promptly account to the Buyer (to the extent of the Buyers claim and subject to the deduction of an amount equal to the Company's reasonable costs incurred in making and pursuing such claim) for any proceeds resulting to the Company

Descriptive matter specifications and illustrations

All descriptive and forwarding specifications drawings and particulars of weights and dimensions issued by the Company are approximate only and intended only to present a general idea of the goods to which they refer and will not form part of

The Company's policy is one of continuous improvement and it reserves the right to make reasonable chans specifications at its discretion. When placing an order with the Company, the Buyer must satisfy himself that then current specification of all the Goods is appropriate for its (or its customers) requirements.

Limitations of Liability

Nothing in these terms and conditions excludes or limits the liability of the Company for death or personal injury caused by the Company for death or personal injury caused by the Company registers or Fraudulent misrepresentation, or the conditions as to title implied by section 12 of the Sale of Coods Act 1979 as amended from time to time.

Any quotation includes only such Goods accessories and work in the quantities and to the specifications which are stated

Subject to clause 16.1 and 16.2

supex to usee for a fault price of the Company, to use for the Company of the Burley of the Company of the Burley of the Company of the Burley of the price agreed for the Codes and the Company will not be label to the Bugs by reason of any representation or any impliest various, condition or other term, or any duty at law or under the super's terms of this contract for any indirect or consequential loss or dramage (whether for loss of printings), expleints of quodinal or otherwise), costs, expenses or other claims for consequential compensation (whether caused by the negligence of the Company, its employees, agents or subcontractors) which arise out of or in connection with their contract. with this contract

Patents

Patents.

In the event of any claim being made or action being brought against the Buyer in respect of infringement of British Patents by the use or sale of Cooks supplied by the Company, the Buyer will notify the Company immediately and the Company will be all blory with the Buyers subsciance i required but of the Company's outer to conduct through the Company's outer to conduct through the Company's outer all registrations for the selfment of the same or any litigation that may arise thereform subject to such motifications and provided than to Goods or any part thereof will be used for any purpose other than that for which the Company supplied them and the Company will indemnify the Buyer in respect of any such claims.

which the company supplies dous produced in accordance with designs or specificalisms provided by the Buyer, the Buyer Where the Company applies Coods produced in accordance with designs or specificalisms provided by the Buyer, the Buyer warrants that to the best of its knowledge and belief such Goods do not infringe any third party night. The Buyer will informity and hold the Company harmites from all beliefly, danns, damages and outs and any other sepresses in respect of any platest, trade-mark, design rights, know-how or other intellectual property which may be infringed of an anadature, sele or our of the Goods os supplies.

Termination

Without prejudice to any other rights or remedies under the contract, either party may by written notice to the other, terminate the contract or (in the case of the Company) suspend future deliveries if:

the other fails to comply with any material obligation hereunder and usof failure has not been remedied within ten days of written notification from the party requiring remedy; the Buyer fails to furnish the Company with any information or instructions it requires to fulfill any order;

and others or execution is levied upon the Goods of the Buyer or if he makes or offers to make any arrangement with or for the benefit of his creditors or commits any act of bankroupts or, being a limited company has a receiver appointed of its undertaking or assets or any part thereof or for the purposes of a reconstruction or amalgamation without solvency goes into liquidation or has an administrator or administrator receiver appointed

Copyright

All drawings descriptions a with the copyright therein ions and other information submitted by the Company will remain the property of the Company together

Value Added Tax

Where chargeable Value Added Tax will be charged at the rate applicable at the date the Goods are dispatched. Legal Construction

Unless otherwise agreed by the Company in writing these conditions will in all respects be construed and operate as an English contract, in conformity with English Law, and the parties submit to the exclusive jurisdiction of the English courts. supers command, in community must cruppen staff, and one parties sustain to the exclusive purposition of this contract which is held by any competent authority to be invalid, void, voidable, unenforceable or unreasonable (in whole or part) will be be extent of such invalidity, voidance, unenforceablity or unreasonableness be deemed as each and the other provisions of this contract and the remainder of such provisions will not be affected.

Failure by the Company to enforce or partially enforce any provision of this contract will not be construed as a waiver of any of its rights under this contract.

Samples

Any samples submitted to the Buyer at the Buyer's request must be returned to the Company in good condition within mild days of receipt out such shorter period as the Company may specify. The Company may charge the market value will be the market value on the date when the sample was due to be

Concentration of an other functions are consistent or accept any cancellation of an order other than in accordance with the provisions of condition 18 unless notification in writing is given to the Company and accepted in writing by the Company. In the event of any cancellation the Buyer must per pay experies incurred by the Company.

Minimum Invoice value

The Company reserves the right to impose a surcharge on orders less than GBE5 net value exclusive of VAT and a minimum invoice charge of GBE5 plus VAT will be applied. Certification

A Buyer requiring Goods from a quality assured source or certificates of conformity must specify its requirements in writing at the time of placing the order.

Force Majeure

The Company will not be liable to the Buyer in any manner or be deemed to be in breach of this contract (subject to condition 16) because of any delay in performing or any failure to perform any of the Companys obligations under this contract. If the delay or failure used to be any case beyond the Company's resistantle control.

Without prejudice to the generality of condition 26.1 the following will be included as cause beyond the Companys research, right of will delay the control of the companys are considered from the companys are of the ord of war, regional energency, right off will distinctors, subobage or

Act of God fire explosion flood epidemic or accident

import or export regulations or embargoes;

labour disputes not including disputes involving the Company's work-force; or inability to obtain or delay in obtaining supplies of adequate or suitable material, fuel, parts, machinery or labour.

SPECIALIST FUSE GUIDE

Specialist Products

Your single point of contact for:

- Lamps
- · Lighting Control Gear
- · Street Lighting
- Fuses
- · Heating, Lighting & Ventilation Spares



· Lighting Control Gear



 Heating, Lighting & Ventilation Spares



Fuses



 Lampholders & Accessories



Lamps



Specialist Fuse Guide

We also offer a comprehensive range of Specialist lamps and lighting control gear from the following manufacturers:























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