

Busmann series IEC cylindrical fuses



Complete portfolio of 8-22 mm diameter Class aM and Class gG cylindrical fuses for industrial applications

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CDN, CDS and PON CSA Type P and D fuses

CSA time-delay Type D and P fuses.



Ratings

- Volts
 - 250 Vac (CDN and PON)
 - 600 Vac (CDS)
- Amps 10-600 A
- IR 10 kA minimum

Agency information

- CSA Certified to C22.2 No. 59.1, CE

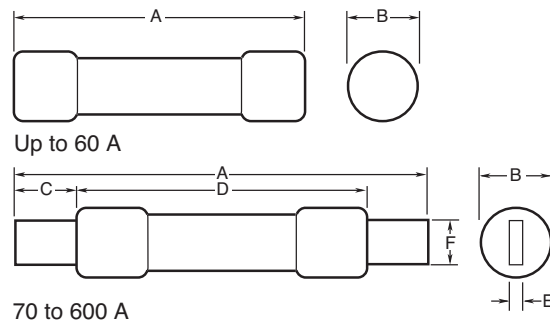
Features

- Economical fuse in a variety of ratings for applications not requiring time-delay

Typical applications

- Lighting, heating and other circuits not subject to temporary surges and where available short-circuit current are relatively low

Dimensions — in (mm)



Amps	A	B	C	D	E	F
CDN/PON 250 Vac						
Up to 30	2.0 (51)	0.6 (14)	—	—	—	—
35-60	3.0 (76)	0.8 (21)	—	—	—	—
70-100	5.9 (149)	—	1.0 (25)	—	0.1 (3)	0.8 (19)
110-200	7.3 (185)	—	1.4 (35)	4.1 (105)	0.2 (5)	1.1 (29)
225-400	8.6 (219)	—	1.9 (48)	4.6 (118)	0.3 (6)	1.6 (41)
450-600	10.4 (264)	—	2.3 (57)	5.2 (132)	0.3 (6)	2 (51)
CDS 600 Vac						
Up to 30	5.0 (127)	0.8 (21)	—	—	—	—
35-60	5.5 (140)	1.1 (27)	—	—	—	—
70-100	7.9 (200)	—	1.0 (25)	—	0.1 (3)	0.8 (19)
110-200	9.6 (245)	—	1.4 (35)	6.1 (116)	0.2 (5)	1.1 (29)
225-400	11.6 (295)	—	1.9 (48)	7.1 (118)	0.3 (6)	1.6 (41)
450-600	13.4 (340)	—	2.3 (57)	8.2 (208)	0.3 (6)	2 (51)

Recommended fuse blocks

Catalog no.*	Volts	
	250	600
Up to 30	HM25030-(poles)	HM60030-(poles)
35-60	HM25060-(poles)	HM60060-(poles)
70-100	HM25100-(poles)	HM60100-(poles)
110-200	HM25200-(poles)	HM60200-(poles)
225-400	HM25400-(poles)	HM60400-(poles)
450-600	HM25600-(poles)	HM60600-(poles)

* To order, specify 1, 2 or 3 poles, e.g., HM25030-2. See data sheets 10289 (30-60 A) and 3192 (70-600 A) for available terminals.

Catalog no.*

Catalog symbol	Volts	Available amp ratings
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Time-Delay CSA Type "D" fuses

CDN**	250 Vac	10, 12, 15, 20, 25, 30, 35, 40, 45, 50, 60, 70, 80, 90, 100, 110, 125, 150, 175, 200, 225, 250, 300, 350, 400, 450, 500, 600
CDS†	600 Vac	10, 12, 15, 20, 25, 30, 35, 40, 45, 50, 60, 70, 80, 90, 100, 110, 125, 150, 175, 200, 225, 250, 300, 350, 400, 450, 500, 600

One-time CSA Type "P" fuses

PON	250 Vac	15, 20, 25, 30, 35, 40, 45, 50, 60
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* To order, specify catalog symbol and amp rating, e.g., CDN30, CDS110 or PON40.

** Below 10 amps, use FRN-R.

† Below 10 amps, use FRS-R.

CGL HRC Form II Class C fuses

Current-limiting HRCII-C fuses designed to withstand inrush currents on typical motor start-ups while offering high current limitation in the short-circuit region. See drawings for dimensions.

Ratings

- Volts
 - 600 Vac
 - 250 Vdc (1-30 A)
- Amps 1-600 A
- IR
 - 200 kA
 - 40 kA DC



Agency information

- CSA Certified, C22.2 No. 106, Class 1422, File 53787, CE

Catalog no. (amps)

CGL-1	CGL-25	CGL-80	CGL-225
CGL-2	CGL-30	CGL-90	CGL-250
CGL-3	CGL-35	CGL-100	CGL-300
CGL-4	CGL-40	CGL-110	CGL-350
CGL-6	CGL-45	CGL-125	CGL-400
CGL-10	CGL-50	CGL-150	CGL-450
CGL-15	CGL-60	CGL-175	CGL-500
CGL-20	CGL-70	CGL-200	CGL-600

Features

- Close sizing to loads allows using smaller and less costly switches
- Provides a higher degree of short-circuit protection
- Helps protect motors against burnout from overloads

Typical applications

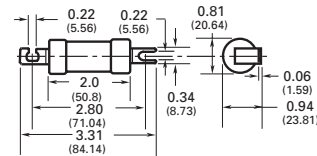
- For use in circuits subject to surge currents such as those caused by motors, transformers and other inductive loads

Available Red Spot fuse holders

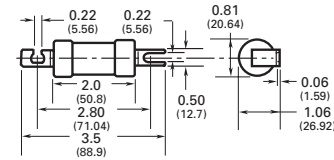
Fuse amps	Catalog symbol*
Up to 32	RS32_
35-60	RS63_
70-100	RS100_
110-200	RS200_
225-400	RS400_

* See Red Spot data sheet no. 10083 for terminal options.

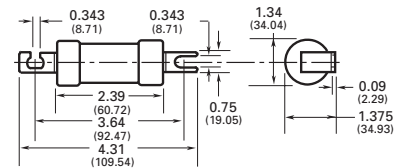
Dimensions — in (mm)



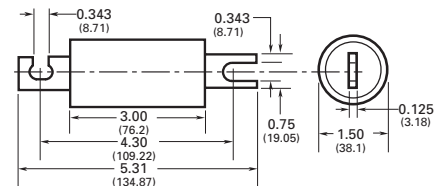
CGL 1-30



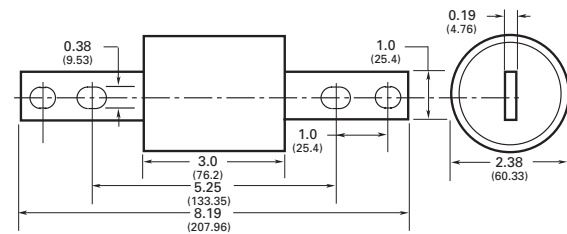
CGL 35-60



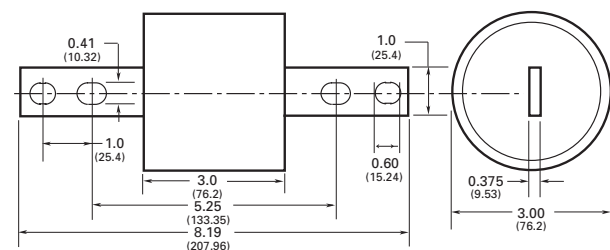
CGL 70-100



CGL 110-200



CGL 225-400



CGL 450-600

CIF21 HRCI-CA industrial ceramic body fuses

The HRCI-CA bolt-on, ceramic body fuse provides both overload and short-circuit protection to HRCI requirements. Offset blades for bolt-on mounting CIF21 fuse fits the Busmann series Red Spot fuse holder (data sheet 10083) and CAMaster fuse holder (data sheet number 4132).

Ratings

- Volts
 - 600 Vac
 - 250 Vdc
- Amps 1-30 A
- IR 200 kA RMS Sym.



Agency information

- CSA C22.2, No. 106-M92, CE

Catalog no.	Amps	Catalog no.	Amps
1CIF21	1	15CIF21	15
3CIF21	3	20CIF21	20
6CIF21	6	25CIF21	25
10CIF21	10	30CIF21	30

Features

- Close sizing to loads allows using smaller and less costly switches
- Provides a higher degree of short-circuit protection
- Helps protect motors against burnout from overloads

Typical applications

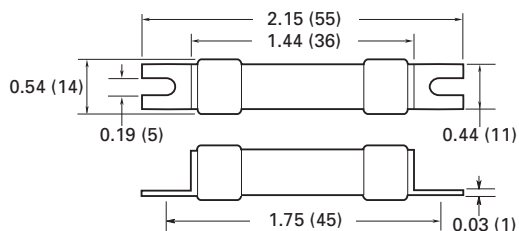
- For use in circuits subject to surge currents such as those caused by motors, transformers and other inductive loads

Recommended fuse holders

Amps	Description	Catalog no.*
Up to 20	Red Spot	RS20_(terminal option)
Up to 30	CAMaster	CM20CF

* See data sheet no. 10083 (Red Spot) and 4132 (CAMaster) for details.

Dimensions — in (mm)



CIF06 HRCI-CB industrial ceramic body fuses

A miniature offset clip-in blade, ceramic body industrial fuse that provides both short-circuit and overload protection and the CIF06 fits the 30 A SAFEloc fuse holder (data sheet number 4133).

Ratings

- Volts
 - 600 Vac
 - 250 Vdc
- Amps 1-30 A
- IR 200 kA RMS Sym.



Agency information

- CSA C22.2 No. 106-M92 (3-30 A only), CE

Catalog no.	Amps	Catalog no.	Amps
1CIF06	1	15CIF06	15
3CIF06	3	20CIF06	20
6CIF06	6	25CIF06	25
10CIF06	10	30CIF06	30

Features

- Close sizing to loads allows using smaller and less costly switches
- Provides a higher degree of short-circuit protection
- Helps protect motors against burnout from overloads

Typical applications

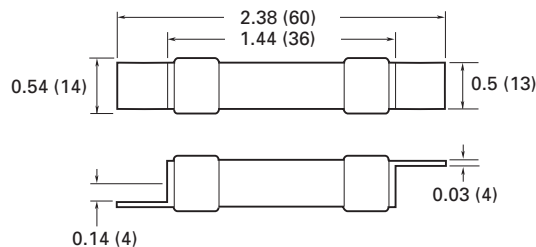
- For use in circuits subject to surge currents such as those caused by motors, transformers and other inductive loads

Recommended fuse holders

Amps	Description	Catalog no.*
Up to 30	SAFEloc	C30(terminal option)

* See data sheet no. 4133 for SAFEloc details.

Dimensions — in (mm)

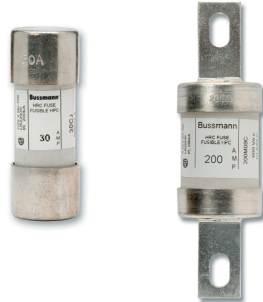


CJ HRCI-J fast-acting fuses

HRCI-J bolt-on, ceramic body fast-acting fuses are industrial duty fuses with the excellent current-limiting characteristics of fast-acting HRCI-J fuses to limit damage to equipment and installations from the thermal and magnetic energy associated with a large short-circuit current. Overload characteristics limit cable damage due to low overload currents.

Ratings

- Volts
 - 600 Vac (or less)
 - 250 Vdc
- Amps 1-600 A
- IR 200 kA



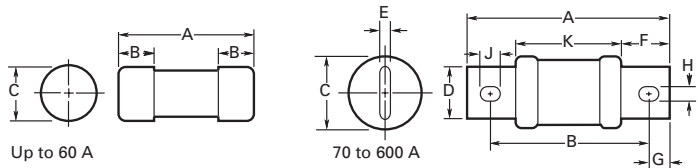
Agency information

- CSA C22.2 No. 106-M92; designed to BS88:2, IEC 60269-2

Catalog no. (amps)CJ

1CJ	35CJ	100CJ	300CJ
3CJ	40CJ	110CJ	350CJ
6CJ	45CJ	125CJ	400CJ
10CJ	50CJ	150CJ	450CJ
15CJ	60CJ	175CJ	500CJ
20CJ	70CJ	200CJ	600CJ
25CJ	80CJ	225CJ	
30CJ	90CJ	250CJ	

Dimensions – in (mm)



Amps	A	B	C	D	E	F	G	H	J	K
Up to 30	2.25 (57)	0.5 (13)	0.81 (21)	—	—	—	—	—	—	—
35-60	2.38 (60)	0.63 (16)	1.06 (27)	—	—	—	—	—	—	—
70-100	4.63 (117)	3.63 (92)	1.13 (28)	0.75 (19)	0.13 (3)	1 (25)	0.5 (13)	0.28 (7)	0.38 (10)	2.63 (67)
110-200	5.75 (146)	4.38 (111)	1.63 (41)	1.13 (29)	0.19 (5)	1.38 (35)	0.69 (18)	0.28 (7)	0.38 (10)	3 (76)
225-400	7.13 (181)	5.25 (133)	2.13 (54)	1.63 (41)	0.25 (6)	1.88 (48)	0.94 (24)	0.41 (10)	0.53 (14)	3.38 (86)
450-600	8 (203)	6 (152)	2.63 (66)	2 (51)	0.38 (10)	2.13 (54)	1 (25)	0.53 (14)	0.69 (18)	3.75 (96)

Data sheet no. 4129

CIH, CIK and CIL HRCI — Misc. Type K fuses

Misc. Type K HRCI bolt-on, ceramic body fuses provide both overload and short-circuit protection, featuring offset blades for bolt down mounting.

Ratings

- Volts 600 V
- Amps 1-100 A
- IR 200 kA@600 V



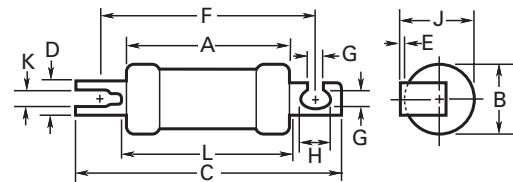
Agency information

- CSA C22.2 No. 106-M92, CE

Catalog no. (amp)CIH, CIK, CIL

1CIH07	15CIH07	35CIK07	80CIL14
3CIH07	20CIH07	40CIK07	90CIL14
6CIH07	25CIH07	50CIK07	100CIL14
10CIH07	30CIH07	60CIK07	

Dimensions – in (mm)



The CIL14 has a rejection hole, not a slot as shown above.

Amps	A	B	C	D	E	F	G	H	J	K	L
Up to 30	2.25 (57)	0.94 (24)	3.38 (86)	0.38 (10)	0.04 (1)	2.88 (73)	0.21 (5)	0.31 (8)	1 (25)	0.10 (3)	2.38 (60)
35-60	2.28 (58)	1.06 (27)	3.56 (91)	0.5 (13)	0.05 (1)	2.88 (73)	0.21 (5)	0.41 (11)	1.09 (28)	0.13 (3)	2.38 (61)
80-100	2.75 (70)	1.44 (37)	4.38 (111)	0.75 (19)	0.09 (3)	3.69 (94)	0.34 (9)	0.41 (11)	1.5 (39)	—	2.91 (74)

Recommended fuse holders

Amps	Red Spot*	CAMaster*
Up to 30	RS32_	CM30CF
35-60	RS63_	CM60CF
80-100	RS100_	—

* See data sheet no. 10083 (Red Spot) and 4132 (CAMaster) for details.

Data sheet no. 4130

HRC Form II current-limiting fuses

HRC Form II bolt-on, ceramic body current-limiting fuses.

Ratings

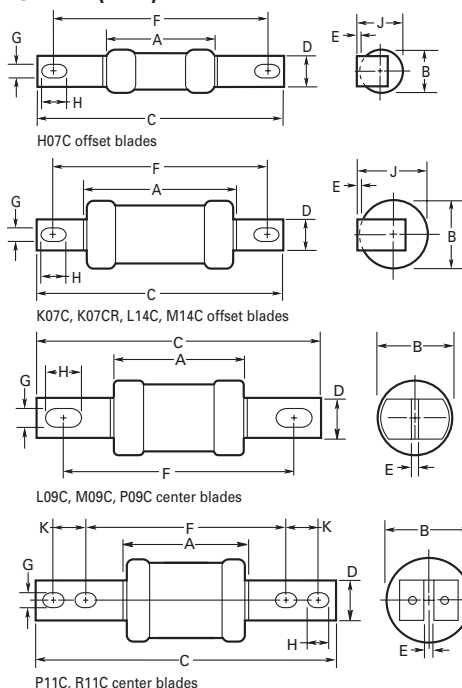
- Volts
 - 600 Vac (or less)
 - 250 Vdc
- Amps 2-600 A
- IR 200 kA RMS Sym.



Agency information

- CSA C22.2 No. 106-M92, BS88:2, IEC 60269:2, CE

Dimensions — in (mm)



(amps) catalog no.

H07C offset blades

2H07C	6H07C	15H07C	25H07C
4H07C	10H07C	20H07C	30H07C

K07C offset blades

40K07C	60K07C	100K07CR
50K07C	80K07CR	

L14C offset blades

80L14C	100L14C
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M14C offset blades

125M14C*	150M14C*	200M14C*
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L09C center blades

80L09C*	100L09C*
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M09C center blades

125M09C	150M09C	200M09C
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P09C center blades

250P09C*	300P09C*	350P09C*	400P09C*
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P11C center blades

250P11C	300P11C	350P11C	400P11C
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R11C center blades

450R11C	500R11C	600R11C
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* Not suitable for installation in Red Spot fuse holders.

Typical applications

- Used to protect motor control circuits, together with contactors and overload protection relays to provide Type 2 coordination per IEC 60947-4.

Recommended fuse holders: Red Spot up to 400 amps (data sheet no.10083) and CAMaster up to 100 amps (data sheet no. 4132).

Catalog symbol/style	A	B	C	D	E	F	G	H	J	K	CSA category
H07C offset blades											
2-30	1.38 (35)	0.56 (14)	3.38 (85)	0.38 (9)	0.06 (1)	2.88 (73)	0.22 (6)	0.31 (8)	0.56 (14)	—	HRCII-C
K07C offset blades											
40-60	2.19 (56)	0.88 (22)	3.44 (87)	0.5 (13)	0.06 (1)	2.88 (73)	0.22 (6)	0.31 (8)	0.88 (22)	—	HRCII-C
80-100	2.19 (56)	0.88 (22)	3.75 (95)	0.5 (13)	0.06 (1)	2.88 (73)	0.22 (6)	0.31 (8)	0.88 (22)	—	HRCII-MISC
L14C offset blades											
80-100	2.38 (60)	0.88 (21)	4.38 (111)	0.56 (14)	0.13 (3)	3.69 (94)	0.34 (9)	0.44 (11)	1 (25)	—	HRCII-C
M14C offset blades											
125-200	2.56 (65)	1.5 (38)	4.38 (111)	0.75 (19)	0.09 (2)	3.69 (94)	0.34 (9)	0.44 (11)	—	—	HRCII-MISC
L09C center blades											
80-100	2.38 (60)	0.88 (21)	5 (127)	0.56 (14)	0.13 (3)	4.38 (111)	0.34 (9)	0.44 (11)	—	—	HRCII-MISC
M09C center blades											
125-200	2.56 (65)	1.5 (38)	5.38 (136)	0.75 (19)	0.13 (3)	4.38 (111)	0.34 (9)	0.56 (14)	—	—	HRCII-C
P09C center blades											
250-400	3.06 (78)	2.31 (59)	5.38 (136)	1 (25)	0.19 (5)	4.38 (111)	0.34 (9)	0.5 (13)	—	—	HRCII-MISC
P11C center blades											
250-400	3.06 (78)	2.31 (59)	8.25 (210)	1 (25)	0.19 (5)	5.25 (133)	0.41 (10)	0.63 (16)	—	1 (25)	HRCII-C
R11C center blades											
450-600	3.19 (81)	2.88 (73)	8.25 (210)	1 (25)	0.25 (6)	5.25 (133)	0.41 (10)	0.63 (16)	—	1 (25)	HRCII-C

SSD, NSD, ESD BS88 Part 1 fuses

The NSD and ESD are low voltage offset blade, ceramic body fuses complying with general purpose gG characteristics.

Ratings

- Volts 240-550 Vac
- Amps
 - 2-63 A
 - 20M25 to 63M100 motor starter ratings
- IR
 - 33 kA (SSD)
 - 80 kA (NSD, ESD)



Agency information

- Meets the requirements of BS88 Part 1 and IEC 60269-1, CE

Catalog no.*			
Catalog symbol	Amps (class)	Max Vac	BS88 ref.
SSD	2, 4, 6, 10, 16, 20, 25, 32 (gG)	240	E1
	2, 4, 6, 10, 16, 20, 25, 32 (gG)	550	
NSD†	20M25, 20M32, 20M36, 32M36, 32M40, 32M50, 32M63 (gM)	415	F1
	2, 4, 6, 10, 16, 20, 25, 32 (gG)	550	
ESD†	40, 50, 63 (gG)	415	F2
	63M80, 63M100 (gM)		

* To order, specify catalog symbol and amp rating, e.g., SSD20.
† "M" indicates motor starter ratings.

Recommended fuse holders

Fuse symbol	Catalog no.
NSD	32NNSF
ESD	63ENSF

STD, NITD, AAO, BAO, OSD, CEO, DEO BS88 Part 1 fuses

The STD to DEO type ceramic body, offset bolt-on blade low voltage fuses complying with general purpose gG characteristics.

Ratings

- Volts 240-550 Vac
- Amps
 - 2-200 A
 - 20M25 to 200M315 motor starter ratings
- IR
 - 33 kA (STD)
 - 80 kA (NITD, AAO, BAO, CEO, DEO, OSD)



Agency information

- Meets the requirements of BS88 Part 1 and IEC 60269-1, CE

Catalog no.*			
Catalog symbol	Amps (class)	Max Vac	BS88 ref.
STD	2, 4, 6, 10, 16, 20, 25, 32 (gG)	240	—
	2, 4, 6, 10, 16, 20, 25, 32 (gG)	550	—
NITD†	20M25, 20M32 (gM)	415	—
	32M40, 32M50, 32M63 (gM)	415	—
AAO†	2, 4, 6, 10, 16, 20, 25, 32, (gG)	550	A2
	32M40, 32M50, 32M63 (gM)	500	
BAO†	40, 50, 63 (gG)	500	A3
	63M80, 63M100 (gM)		
CEO†	32, 40, 50, 63, 80, 100 (gG)	550	A4
	100M125, 100M160, 100M200 (gM)	415	
DEO†	125, 160, 200 (gG)	415	—
	200M315 (gM)		
OSD†	80, 100 (gG)	500	—
	100M125, 100M160 (gM)		

* To order, specify basic catalog symbol and amp rating. E.g., BAO16.
† "M" indicates motor starter ratings.

Typical applications

- The STD type are used in 240 V street lighting cut-outs
- NITD to DEO types used for industrial and general purpose applications

Recommended fuse blocks and holders

Fuse catalog symbol	Block/holder catalog no.*
NITD	CM32FC, RS20_
AAO	CM32F, RS32_
BAO	CM63F, RS63_
OSD	CM100F, RS100_
CEO	BH-0111

* See data sheet no. 4132 (CM_), 10083 (RS_) and 1200 (BH-).

AC, AD, BC, BD, CD, DD, ED, EFS BS88 fuses

Ceramic body, center blade two-hole bolt-on low voltage fuses that comply with general purpose gG characteristics and available up to 400 amps with two hole mount and up to 1250 amps with four hole mount.

Ratings

- Volts
 - 415/550 Vac
 - 250 Vdc
- Amps
 - 2-400 A
 - 63M80 to 400M500 motor starter ratings
- IR see catalog numbers table



Agency information

- Meets the requirements of BS88 Parts 1 and 2 and IEC 60269-1, CE

Catalog no.*		IR (kA)		Max volts		BS88 ref.
Catalog symbol	Amps (class)	AC	DC	AC	DC	
AC	2, 4, 6, 10, 16, 20 (gG) 25, 32 (gG)	80	40	550	250	—
AD	2, 4, 6, 10, 16, 20 (gG) 25, 32 (gG)	80	40	550	250	—
BC†	40, 50, 63 (gG) 63M80, 63M100 (gM)	80	40	500	250	—
BD	40, 50, 63 (gG)	80	40	500	250	—
CD†	CD80, CD100 (gG) 100M125, 100M160, 100M200 (gM)	80	—	500	—	B1
DD†	125, 160, 200 (gG) 200M250, 200M315 (gM)	80	—	415	—	B2
ED†	250, 315, 355, 400 (gG) 315M400 (gM) 400M500 (gM)	80	—	415	—	B3 B4
EFS	125, 160, 200, 250, 315 (gG)	80	—	415	—	—

* To order, specify catalog symbol and amp rating. E.g., BC40.

† "M" indicates motor starter ratings.

Recommended fuse blocks

Fuse catalog symbol	Modular block catalog no.*
AC	BH-0111
AD	BH-____
BC	BH-0111
BD	BH-____
CD	BH-____
DD	BH-____
ED	BH-1131

* See data sheet no. 1200 (BH-0_) and 1201 (BH-1_) for details.

EF, FF, FG, GF, GG, GH BS88 fuses

Ceramic body, center blade four-hole bolt-on low voltage fuses complying with general purpose gG characteristics and available up to 400 amps with two hole mount and up to 1250 amps with four hole mount.

Ratings (see catalog numbers table)

- Volts
 - 415/690 Vac
 - 250/400 Vdc
- Amps 355-1250 A
- IR see catalog numbers table



Agency information

- Meets the requirements of BS88 Parts 1 and 2 and IEC 60269-1, CE

Catalog no.*		IR (kA)		Max volts		BS88 ref.
Catalog symbol	Amps (class)	AC	DC	AC	DC	
EF†	355, 400 (gG) 400M500 (gM)	80	40	415	—	C1
FF	450, 500, 560, 630 (gG)	80	40	550	400	C2
FG	450, 500, 560, 630 (gG)	80	40	550	400	—
GF	710, 800 (gG)	80	40	550	250	C3
GG	710, 800 (gG) 1000, 1250 (gG)	80	—	550	—	—
GH	710, 800, 1000, 1250	80	—	550	—	D1

* To order, specify catalog symbol and amp rating, e.g., FG450.

† "M" indicates motor starter ratings.

D16, D27, D33, D125 DIN Type D Diazed fuses

DIN style Type D ceramic body low voltage fuses.

Ratings

- Volts 500 Vac
- Amps 2-100 A
- IR 50 kA

Agency information

- IEC 60269 and DIN 49515, CE

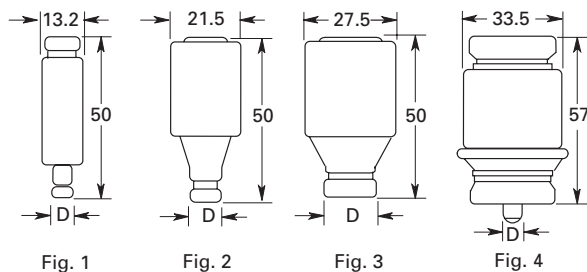


Catalog no.	Amps	"D" dimension	Color code	Fig.
2D16	2	6	Pink	
4D16	4	6	Brown	
6D16	6	6	Green	
10D16	10	8	Red	1
16D16	16	10	Grey	
20D16	20	12	Blue	
25D16	25	14	Yellow	
2D27	2	6	Pink	
4D27	4	6	Brown	
6D27	6	6	Green	
10D27	10	8	Red	2
16D27	16	10	Grey	
20D27	20	12	Blue	
25D27	25	14	Yellow	
35D33	35	16	Black	
50D33	50	18	White	3
63D33	63	20	Copper	
80D125	80	5	Silver	4
100D125	100	7	Red	

Additional 500 V quick acting fuses in body sizes D16, D27, D33 and D125 rated 2-100 A. Reference number suffixed "Q." E.g., 10D27Q.

Gauge rings and keys can also be supplied.

Dimensions – mm



NZ01, NZ02 DIN Type N Neozed fuses

DIN style Type N ceramic body low voltage.

Ratings

- Volts 400 Vac
- Amps 2-63 A
- IR 50 kA

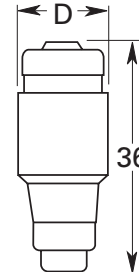
Agency information

- IEC 60269 and DIN 49515, CE



Catalog no.	Amps	"D" dimension	Color code
2NZ01	2	11	Pink
4NZ01	4	11	Brown
6NZ01	6	11	Green
10NZ01	10	11	Red
16NZ01	16	11	Grey
20NZ02	20	15	Blue
25NZ02	25	15	Yellow
35NZ02	35	15	Black
50NZ02	50	15	White
63NZ02	63	15	Copper

Dimensions – mm



___NHG___ B NH HRC fuses

DIN 000 to 4 Class: gG/gL DIN square bodied, dual indication industrial fuses with voltage conducting metal gripping lugs. They are made of a steatite insulator, corrosion-proof (aluminum) metal parts with full-contact and silver-plated copper blades. All NHG fuses feature a selectivity ratio: 1:1.6 up to 500 Vac.

Ratings

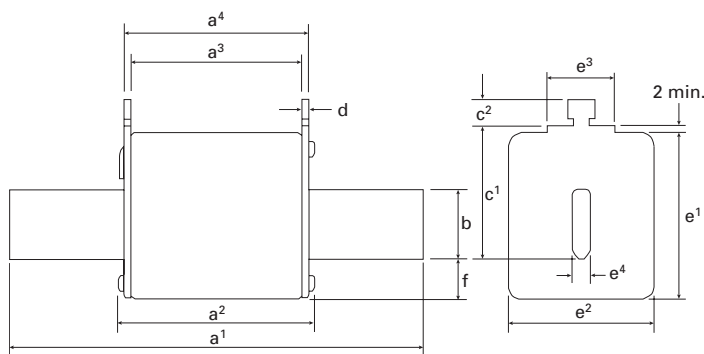
- Volts
 - 500 Vac
 - 690 Vac
- Amps 2-1250 A
- IR 120 kA
- Frequency
 - 45-62 Hz operating



Agency information

- IEC 60269, VDE 0636, DIN 43620
- CE (500 Vac only)

Dimensions — mm



Fuse size	a ¹	a ²	a ³	a ⁴	b	c ¹	c ²	D	e ¹	e ²	e ³	e ⁴	f
000	79	54	45	49	15	35	10	2	41	21	16	6	8
00	79	54	45	49	15	35	11	7.0	48	30	25	6	15
0	125	68	62	68	15	35	11	2.5	48	30	25	6	15
01	135	75	62	68	15	40	11	2.5	48	30	25	6	15
1	135	75	62	68	20	40	11	2.5	53	52	25	6	15
02	150	75	62	68	20	48	11	2.5	53	52	25	6	15
2	150	75	62	68	25	48	11	2.5	61	60	25	6	15
03	150	75	62	68	25	60	11	2.5	61	60	25	6	15
3	150	75	62	68	32	60	11	3.0	75	70	25	6	18
4	200	84	80	90	50	85	11	3	120	87	—	8	30

Recommended fuse blocks

Block catalog no.	Fuse size
SD00-D	000-00
SD1-D	1*, 1
SD2-D	02, 2, 03, 3

___NHG___ B NH HRC fuses

500 Vac gG/gL dual indicator voltage conducting metal gripping lugs

Amps	Catalog no.
000 size	
2	2NHG00B
4	4NHG00B
6	6NHG00B
10	10NHG00B
16	16NHG00B
20	20NHG00B
25	25NHG00B
32	32NHG00B
35	35NHG00B
40	40NHG00B
50	50NHG00B
63	63NHG00B
80	80NHG00B
100	100NHG00B
00 size	
50	50NHG00B
63	63NHG00B
80	80NHG00B
100	100NHG00B
125	125NHG00B
160	160NHG00B
0 size	
6	6NHG0B
10	10NHG0B
16	16NHG0B
20	20NHG0B
25	25NHG0B
32	32NHG0B
35	35NHG0B
40	40NHG0B
50	50NHG0B
63	63NHG0B
80	80NHG0B
100	100NHG0B
125	125NHG0B
160	160NHG0B
01 size	
6	6NHG01B
10	10NHG01B
16	16NHG01B
20	20NHG01B
25	25NHG01B
32	32NHG01B
35	35NHG01B
40	40NHG01B
50	50NHG01B
63	63NHG01B
80	80NHG01B
100	100NHG01B
125	125NHG01B
160	160NHG01B

Amps	Catalog no.
1 size	
50	50NHG1B
63	63NHG1B
80	80NHG1B
100	100NHG1B
125	125NHG1B
160	160NHG1B
200	200NHG1B
224	224NHG1B
250	250NHG1B
315	315NHG1B
355	355NHG1B
02 size	
35	35NHG02B
40	40NHG02B
50	50NHG02B
63	63NHG02B
80	80NHG02B
100	100NHG02B
125	125NHG02B
160	160NHG02B
200	200NHG02B
224	224NHG02B
250	250NHG02B
2 size	
250	250NHG2B
300	300NHG2B
315	315NHG2B
355	355NHG2B
400	400NHG2B
425	425NHG2B
450	450NHG2B
500	500NHG2B
03 size	
250	250NHG03B
315	315NHG03B
355	355NHG03B
400	400NHG03B
3 size	
315	315NHG3B
355	355NHG3B
400	400NHG3B
425	425NHG3B
450	450NHG3B
500	500NHG3B
630	630NHG3B
800	800NHG3B
4 size*	
500	500NHG4G
630	630NHG4G
800	800NHG4G
1000	1000NHG4G
1250	1250NHG4G

* Size 4 is a single indicator fuse with slotted end blades.

NHG B NH HRC fuses

690 Vac gG/gL dual indicator voltage conducting metal gripping lugs

Amps	Catalog no.
000 size	
2	2NHG000B-690
4	4NHG000B-690
6	6NHG000B-690
10	10NHG000B-690
16	16NHG000B-690
20	20NHG000B-690
25	25NHG000B-690
32	32NHG000B-690
35	35NHG000B-690
40	40NHG000B-690
50	50NHG000B-690
63	63NHG000B-690
00 size	
50	50NHG00B-690
63	63NHG00B-690
80	80NHG00B-690
100	100NHG00B-690
125	125NHG00B-690
160*	160NHG00B-690
1 size	
50	50NHG1B-690
63	63NHG1B-690
80	80NHG1B-690
100	100NHG1B-690
125	125NHG1B-690
160	160NHG1B-690
200	200NHG1B-690
224	224NHG1B-690
250	250NHG1B-690

Amps	Catalog no.
2 size	
200	200NHG2B-690
224	224NHG2B-690
250	250NHG2B-690
315	315NHG2B-690
3 size	
250	250NHG3B-690
315	315NHG3B-690
355	355NHG3B-690
400	400NHG3B-690
425	425NHG3B-690
500	500NHG3B-690
4 size**	
630	630NHG4B-690
800	800NHG4B-690

* 160 amps rated at 660 Vac.
**Size 4 is a single indicator fuse with slotted end blades.

JKS-700 fast-acting fuses

The JKS-700 is a fast-acting, current-limiting fuse that is UL Recognized and has CSA Component Acceptance for applications up to 700 Vac. The JKS-700 is available in ratings up to 60 amps with the same dimensions as a standard Class J fuses; but its voltage rating places it outside the standard Class J fuse class.



Bussmann recommends the JM70100 modular fuse block and the JM70100-MW power distribution fuse block for the 30 amp case size JKS-700 fuses. See page 8-18 for details.

Ratings

- Volts 700 Vac (or less)
- Amps 25-60 A
- IR
 - Minimum 6I_n
 - 200 kA RMS Sym.

Operating class aR

Agency information

- UL Recognized, 248-13 Semiconductor Fuses, File E56412
- CSA Component Acceptance, C22.2 No 248.13 Semiconductor Fuses, Class 1422-30

Features

- Current limitation for non-inductive circuits provides current-limiting response to maximum ground fault and short-circuit conditions
- 200 kA interrupting rating provides protection at all circuit locations
- Economical circuit protection for high-fault current circuits

Typical applications

- Power panelboards up to 700 Vac
- Machinery disconnects up to 700 Vac

Catalog no. (amps)			
JKS-25-700	JKS-30-700	JKS-35-700	JKS-60-700

IEC and British Standard fuses

SD_ and TD_ NH fuse blocks

NH fuse bases feature thermoplastic bodies, and DIN-Rail and screw mounting (size 4 is screw fix). They are available with a range of protection accessories for live parts for IP20 protection.

Ratings

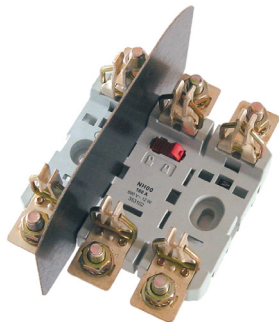
- Volts up to 690 Vac
- Amps up to 1250 A
- NH fuse sizes 000 to 4

Agency information

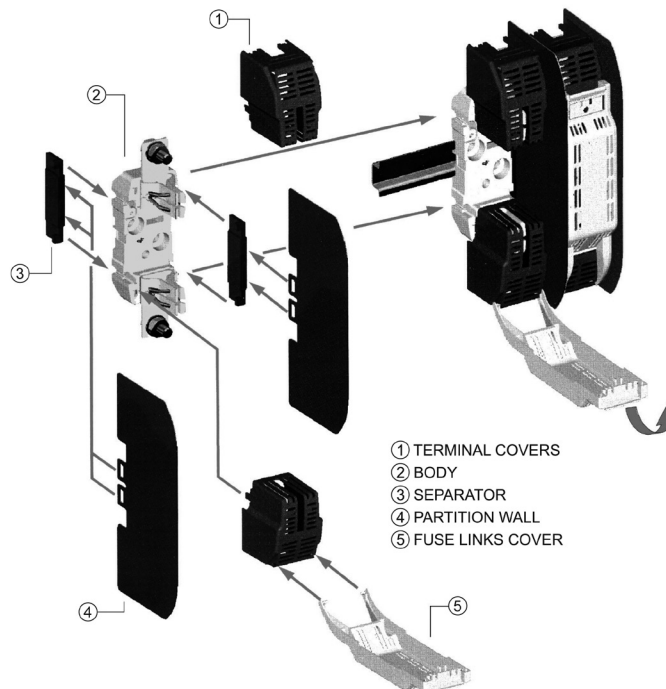
- IEC 60269, DIN 43620

Typical applications

- Protection of industrial circuits and electrical apparatus



Shroud kits



- ① TERMINAL COVERS
- ② BODY
- ③ SEPARATOR
- ④ PARTITION WALL
- ⑤ FUSE LINKS COVER

Catalog no.

Fuse size	Poles	Amps	Catalog no.	Carton qty.	Accepts fuse sizes
DIN-Rail or screw mount					
00	1	160	SD00-D	3	000 and 00
	3		TD00-D	1	
1	1	250	SD1-D	3	01 and 1
	3		TD1-D	1	
2	1	400	SD2-D	3	02 and 2
	3		TD2-D	1	
3	1	630	SD3-D	3	03 and 3
	3		TD3-D	1	
Screw mount only					
4	1	1250	SD4-S	3	4

Catalog no.	Fits fuse block
TD00-IP20	TD00-D
TD1-IP20	TD1-D
TD2-IP20	TD2-D
TD3-IP20	TD3-D
SD12-SK	SD1 and SD2
SD3-SK	SD3

Neutrals

NH size	Amps	Catalog no.	Carton qty.
1	250	SDL-1	3
2	400	SDL-2	3
3	630	SDL-3	3



Fuse extraction handle

Size	Catalog no.	Carton qty.
C00-3	FEH	1



Terminal covers and separators (from shroud kits)

NH size	Amps	Terminal covers (1)		Separator (3)	
		Cat. no.	Carton qty.	Cat. no.	Carton qty.
00*	160	CS00*	6	BC00*	2
0	160	CS0	6	BC0	2
1	250	CS1	6	BC1-2	2
2	400	CS2	6	BC1-2	2
3	630	CS3	6	BC3	2

* For single pole only

Phase barrier kits*

Catalog no.	Fits fuse block
SD12-PB	SD1 and SD2
SD3-PB	SD3

* Kits include 2 phase barriers and 2 ganging links.

Class gG IEC 60269 industrial ferrule fuses



8 to 22mm diameter IEC Class gG fuses with optional indicators and strikers. See catalog numbers for availability and ratings.

8x31mm, Class gG, 400 Vac, 0.5 to 20 A

Catalog no.			
Without indicator	With indicator	Vac	Amps IR (kA)
C08G0.5	—	—	0.5
C08G1	—	—	1
C08G2	C08G2I	—	2
C08G4	C08G4I	—	4
C08G6	C08G6I	400	6 20
C08G8	C08G8I	—	8
C08G10	C08G10I	—	10
C08G12	C08G12I	—	12
C08G16	C08G16I	—	16
C08G20	C08G20I	—	20

10x38mm, Class gG, 500 and 400 Vac, 0.5 to 32 A

Catalog no.					
W/O indicator	W/ indicator	Vac	Amps	IR (kA)	Holder/block
C10G0.5	—	—	0.5	—	—
C10G1	C10G1I	—	1	—	—
C10G2	C10G2I	—	2	—	—
C10G4	C10G4I	—	4	—	—
C10G6	C10G6I	—	6	—	—
C10G8	C10G8I	500	8	—	—
C10G10	C10G10I	—	10	—	—
C10G12	C10G12I	—	12	—	—
C10G16	C10G16I	—	16	—	120 CHM DIN-Rail*, BMM block
C10G20	C10G20I	—	20	—	—
C10G25	C10G25I	—	25	—	—
C10G32	C10G32I	400	32	—	—
C10G32	—	400	32	—	—
—	C10G32I	500	32	—	—
—	C10G40I	500	40	—	—
—	C10G50I	400	50	—	—

* Not recommended for use with indicator version.

14x51mm, Class gG, 400, 500 and 690 Vac, 1 to 50 A

Catalog no.					
W/O indicator	W/ indicator	W/ striker	Vac	Amps	IR (kA) Holder
C14G1	C14G1I	—	690	1	80
C14G2	C14G2I	—	—	2	120
—	—	C14G2S	500	—	—
C14G4	C14G4I	—	690	4	80
—	—	C14G4S	500	—	120
C14G6	C14G6I	—	690	6	80
—	—	C14G6S	500	—	120
C14G8	C14G8I	—	690	8	80
—	—	C14G8S	500	—	120
C14G10	C14G10I	—	690	10	80
—	—	C14G10S	500	—	120
C14G12	C14G12I	—	690	12	80
—	—	C14G12S	500	—	120
C14G16	C14G16I	—	690	16	80
—	—	C14G16S	500	—	120
C14G20	C14G20I	—	690	20	80
—	—	C14G20S	500	—	120
C14G25	C14G25I	—	690	25	80
—	—	C14G25S	—	—	—
C14G32	C14G32I	C14G32S	500	32	120
C14G40	C14G40I	C14G40S	—	40	—
C14G50	C14G50I	C14G50S	400	50	—

CH14 DIN-Rail**

**Not recommended for use with indicator version, use striker version to actuate optional, external microswitch

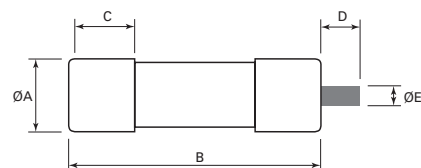
22x58mm, Class gG, 400, 500 and 690 Vac, 2 to 125 A

Catalog no.					
W/O indicator	W/ indicator	W/ striker	Vac	Amps	IR (kA) Holder/block
C22G2	C22G2I	—	—	2	—
C22G4	C22G4I	C22G4S	—	4	—
C22G6	C22G6I	C22G6S	—	6	—
C22G8	C22G8I	C22G8S	—	8	—
C22G10	C22G10I	C22G10S	—	10	—
C22G12	C22G12I	C22G12S	—	12	—
C22G16	C22G16I	C22G16S	690	16	80
C22G20	C22G20I	C22G20S	—	20	—
C22G25	C22G25I	C22G25S	—	25	—
C22G32	C22G32I	C22G32S	—	32	—
C22G40	C22G40I	C22G40S	—	40	—
C22G50	C22G50I	C22G50S	—	50	—
C22G63	C22G63I	C22G63S	—	63	—
C22G80	C22G80I	C22G80S	500	80	—
C22G100	C22G100I	C22G100S	—	100	120
C22G125	C22G125I	C22G125S	400	125	—

CH22 DIN-Rail*, JM70100 block

* Not recommended for use with indicator version, use striker version to actuate optional, external microswitch.

Dimensions — mm



Catalog symbol	Ø A	B	C	Indicator/striker	
				D	Ø E
C08M	8	31.5	6.3	—	—
C10M	10	38	10	—	—
C14M	14.3	51	13	8	4
C22M	22	58	16	8	4

Class aM IEC 60269 industrial ferrule fuses



8 to 22mm diameter IEC Class aM fuses with optional indicators and strikers. See catalog numbers for availability and ratings.

8x31mm, Class aM, 400 Vac, 1 to 8 A, without indicator

Catalog no.	Vac	Amps	IR (kA)
C08M1	400	1	20
C08M2		2	
C08M4		4	
C08M6		6	
C08M8		8	

10x38mm, Class aM, 500 and 400 Vac, 0.25 to 25 A

Catalog no.					
W/O indicator	W/ indicator	Vac	Amps	IR (kA)	Holder/block
C10M0.25	—	500	0.25	120	CHM DIN-Rail*, BMM block
C10M0.5	—		0.5		
C10M1	C10M1I	400	1	120	
C10M2	C10M2I		2		
C10M4	C10M4I		4		
C10M6	C10M6I		6		
C10M8	C10M8I		8		
C10M10	C10M10I		10		
C10M12	C10M12I		12		
C10M16	C10M16I		16		
C10M20	C10M20I	400	20	120	
C10M25	C10M25I		25		

* Not recommended for use with indicator version.

14x51mm, Class aM, 400, 500 and 690 Vac, 0.25 to 50 A

Catalog no.						
W/O indicator	W/ indicator	W/ striker	Vac	Amps	IR (kA)	Holder
C14M0.25	—	—	690	0.25	120	CH14 DIN-Rail**
C14M0.5	—	—		0.5		
C14M1	C14M1I	—	500	1	80	
C14M2	C14M2I	—		2		
—	—	C14M2S	500	2	120	
C14M4	C14M4I	—	690	4	80	
—	—	C14M4S		500		
C14M6	C14M6I	—	690	6	80	
—	—	C14M6S		500		
C14M8	C14M8I	—	690	8	80	
—	—	C14M8S		500		8
C14M10	C14M10I	—	690	10	80	
—	—	C14M10S		500		10
C14M12	C14M12I	—	690	12	80	
—	—	C14M12S		500		12
C14M16	C14M16I	—	690	16	80	
—	—	C14M16S		500		16
C14M20	C14M20I	—	690	20	80	
—	—	C14M20S		500		20
C14M25	C14M25I	—	690	25	80	
—	—	C14M25S		500		25
C14M32	C14M32I	C14M32S	500	32	120	
C14M40	C14M40I	C14M40S		40		
C14M50	C14M50I	C14M50S	400	50		

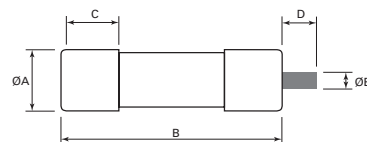
**Not recommended for use with indicator version, use striker version to actuate optional, external microswitch.

22x58mm, Class aM, 400, 500 and 690 Vac, 2 to 125 A

Catalog no.						
W/O indicator	W/ indicator	W/ striker	Vac	Amps	IR (kA)	Holder/block
C22M2	C22M2I	—	690	2	80	CH22 DIN-Rail*, JM70100 block
C22M4	C22M4I	—		4		
C22M6	C22M6I	—		6		
C22M8	C22M8I	—		8		
C22M10	C22M10I	—		10		
C22M12	C22M12I	C22M12S		12		
C22M16	C22M16I	C22M16S		16		
C22M20	C22M20I	C22M20S		20		
C22M25	C22M25I	C22M25S		25		
C22M32	C22M32I	C22M32S		32		
C22M40	C22M40I	C22M40S	40			
C22M50	C22M50I	C22M50S	50			
C22M63	C22M63I	C22M63S	63			
C22M80	C22M80I	C22M80S	80			
C22M100	C22M100I	C22M100S	500	100	120	
C22M125	C22M125I	C22M125S	400	125		

* Not recommended for use with indicator version, use striker version to actuate optional, external microswitch.

Dimensions — mm



Catalog symbol	Ø A	B	C	Indicator/striker	
				D	Ø E
C08M	8	31.5	6.3	—	—
C10M	10	38	10	—	—
C14M	14.3	51	13	8	4
C22M	22	58	16	8	4

HRC fuse holders

CAMaster

The Bussmann series CAMaster HRC fuse holder features a unique cam-action for easy fuse removal while allowing significantly improved contact pressure between fuse carrier and base contact that enhances electrical performance. A range of lockable safety carriers for the fuse holder (catalog reference LSC), are available.



Ratings

- Volts 690 V
- Amps up to 100 A

Agency information

- CSA C22.2 No. 39; IEC 269 and BS88, CE

Catalog no.	Amps	Details for	Fuses accepted
CM20CF	30	HRCI-CA applications	_CIF21
CM30CF	30		_H07C
CM60CF	60	HRCII applications	_K07C
CM100CF	100		_K07CR

Accessories

Catalog no.	Amps	Description	CAMaster accepted
20BS	30		CM20CF
32BS	30	Back stud	CM30CF
60/100BS	60/100		CM60/100CF
GLP	All	Ganging link kit	3-Pole
20LSC	30		CM20CF
32LSCC	30	Security carrier with clip	CM30CF
63/100LSC	60/100		CM60/100CF

SAFEloc

The Bussmann series SAFEloc HRC fuse holders (for use with HRCI-CB fuses) provides a positive, stress-free fuse fitting and locks it in position to ensure safe insertion and withdrawal from the base. Base contacts are fully shrouded to help protect against electric shock. Shrouds utilize simple slide/snap action allowing access to the contact terminal screws. It can be mounted on a 35mm DIN-Rail or panel-mounted with a single screw.



Ratings

- Volts 600 V
- Amps 30-60 A

Agency information

- Designed to accommodate the compact range of offset blade fuse to CSA C22.2 No. 106, HRCI-CB, CE

Catalog no.*	Amps	Connection	Fuses accepted
C30F		Front	
C30BS	30	Back	_CIF06
C30FBS		Front-back	
C60F		Front	
C60BS	60	Back	EK-(amp)
C60FBS		Front-back	

* For use with HRCI-CB fuses.

Bussmann series Red Spot fuse holders



These versatile CSA Certified and IP20 finger-safe fuse holders for BS88 HRC industrial fuses are available in ratings from 20 to 400 amps.

Padlock inserts, warning carriers and fuse adapter accessories enhance safety and application flexibility.

See data sheet no. 10083 for details.

Enhanced safety.
Improved system reliability.
Simplified inventory.



It's easier than ever to improve your circuit protection while efficiently reducing your fuse inventory.

Leveraging Bussmann™ series ultimate protection fuses, our **Low-Peak™ Upgrade** program couples the industry's most advanced circuit protection with our extensive knowledge to deliver enhanced safety, improved system reliability and simplified inventory.

In just three simple steps, you'll save time and increase productivity. All by using Bussmann series Low-Peak fuses.

Three steps to ultimate protection:

1 Audit



2 Analyze



3 Implement



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