International Products

LgD Series Global Pro™ Fuses

600 Volts AC • Time-Delay • 1 – 100 Amperes

Littelfuse Global Pro is the world's only fuse system designed for use anywhere, in any equipment, in virtually any country. Global Pro simplifies circuit protection by incorporating North American electrical requirements into fuse styles found in the rest of the world. Reduced size, touch-safe design, and international acceptance make the Global Pro system the easy circuit protection choice for engineers and equipment designers everywhere.

Global Pro fuses provide quick and positive visual identification of blown fuses by using a pop-up indicator design that protrudes from the top of the fuse, immediately alerting maintenance personnel that it needs to be replaced. The pop-up indicator is designed to activate a microswitch built into every Global Pro fuseholders that can activate stack-lights or to integrate into PLC networks and provide equipment operators with a remote method of determining when the fuse needs to be replaced.

The Global Pro system is designed to save valuable space in a crowded panel while providing designers with the flexibility of a universally accepted design for easy replacement. These fuses are far more compact and have greater power handling capability than conventional products. Global Pro fuses are up to 75% smaller than Class RK5 fuses and up to 50% smaller than Class J fuses while providing the time-delay characteristics that are necessary for motor circuit protection.

Applications

- Motor control centers
- Motor branch circuits
- Primary and secondary protection for transformers
- Equipment designed for export

Features And Benefits

The Global Pro fuse is physically compatible with IEC style fuseholders allowing it to be used in virtually any market. The IEC dimensions of the Global Pro fuseholder allow easy adaptation of exported equipment by simply replacing the fuse with one that meets local standards.

- Extremely compact size
- Pop-up pin indication
- Meets performance requirements of UL Class J fuses
- Global acceptance
- UL approval
- Universal voltages
- Touch-safe components
- Integrated lockout/tagout device for compliance
- Design versatility for OEMs
- Designed to IEC standards

Size Chart

Part Number	Amperage	English	Metric
LgD 0–30A	0–30A	9/16" x 2"	14mm x 51mm
LgD 35–60A	35–60A	13/16" x 2¼"	22mm x 58mm
LgD 70–100A	70–100A	1 1/16" x 2⅜"	27mm x 60mm

Specifications

Voltage Ratings: AC: 600 Volts (UL)
690 Volts (IEC)
DC: 300 Volts

Interrupting Rating: AC: 200,000 amperes rms symmetrical
DC: 20,000 amperes rms symmetrical

Ampere Range: 1 – 100* amperes

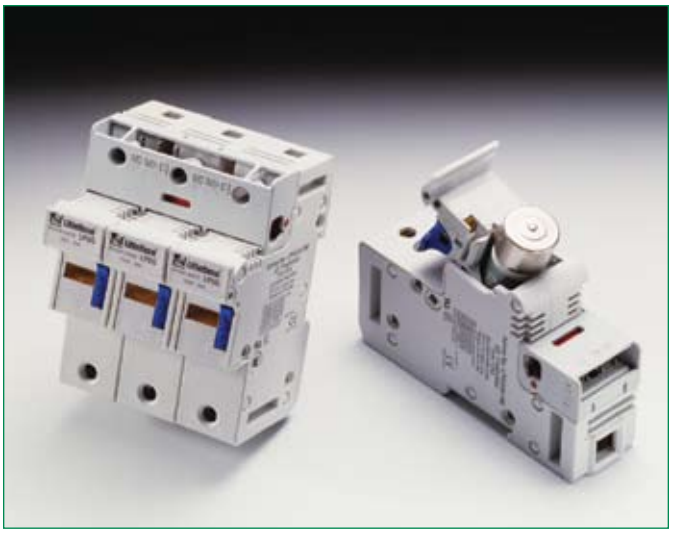
Approvals: UL Listed Special Purpose 1–30 amps
(File No. E71611)
UL Recognized 35–60 amps (File No. E71611)
CSA Certified 1–60 amps (File No. LR29862)

Ampere ratings

1	5	12	25	40	60	90*
2	7	15	30	45	70*	100*
3	10	20	35	50	80*	

*Contact factory for ratings above 60A
Example part number (series & amperage): LgD 60

LPSG Series Global Pro™ Fuseholders



Littelfuse Global Pro is the world's only fuse system designed for use anywhere, in any equipment, in virtually any country. Global Pro simplifies circuit protection by incorporating North American electrical requirements into fuse styles found in the rest of the world. Reduced size, touch-safe design, and international acceptance make the Global Pro system the easy circuit protection choice for engineers and equipment designers everywhere.

Every Global Pro fuseholder includes a microswitch that is activated by a blown fuse. This allows the Global Pro system to be integrated into PLC networks and provide equipment operators with a remote method of determining when the fuse needs to be replaced. Global Pro holders also feature a blown fuse indicator light to help maintenance personnel quickly locate the proper circuit.

The Global Pro system is designed to save valuable space in a crowded panel, while providing designers with the flexibility of a universally accepted design for easy replacement. These fuses are far more compact and have greater power handling capability than conventional products. Global Pro fuses are up to 75% smaller than Class RK5 fuses and up to 50% smaller than Class J fuses while providing the time-delay characteristics that are necessary for motor circuit protection.

Applications

- Motor control centers
- Motor branch circuits
- Primary and secondary protection for transformers
- Equipment designed for export

Features And Benefits

The Global Pro Fuseholder also accepts IEC dimension cartridge style fuses, allowing equipment to be easily adapted for export markets by simply replacing the fuse with one that meets local standards.

- Extremely compact size
- Blown fuse indicator
- Integrated lockout/tagout tab
- Din-Rail mountable (35mm DIN-Rail)
- Integrated microswitch with N.O. and N.C. contacts
- Global compatibility – Accepts Global Pro fuses and European IEC dimension cartridge style fuses
- UL and IEC approval
- Touch-safe design with integrated lockout/tagout device for compliance
- Design versatility for OEMs

Ordering Information

Catalog No.	Amp Rating	Poles
LPSG30-1MI	30A	1
LPSG30-2MI	30A	2
LPSG30-3MI	30A	3
LPSG60-1MI	60A	1
LPSG60-2MI	60A	2
LPSG60-3MI	60A	3
LPSG100-1MI	100A	1
LPSG100-2MI	100A	2
LPSG100-3MI	100A	3

Specifications

Voltage Ratings: 600 Volts (UL)
690 Volts (IEC)

Interrupting Rating: AC: 200kA rms symmetrical
DC: 20kA

Ampere Range: 30, 60, and 100* amperes

Terminal Type: Pressure Plate

Wire Range: #2 – #14 CU

Material: Thermo-plastic

Approvals: UL Recognized
CSA Certified
*Contact factory for ratings above 60A

Contact factory for dimensions.

NH Fuse Links

500 Volts • 2 – 630 Amperes

All NH fuse links incorporate a blown fuse indicator.

Littelfuse European style NH fuse links are designed for the protection of conductors and motors. The gL-gG characteristic fuse links are generally used to protect cables and installation lines from overloads and short-circuits. The aM characteristic fuse links are used for the short-circuit protection of motors and switchgear. They are available in NH00C to NH3 sizes up to 630 amperes.

Specifications

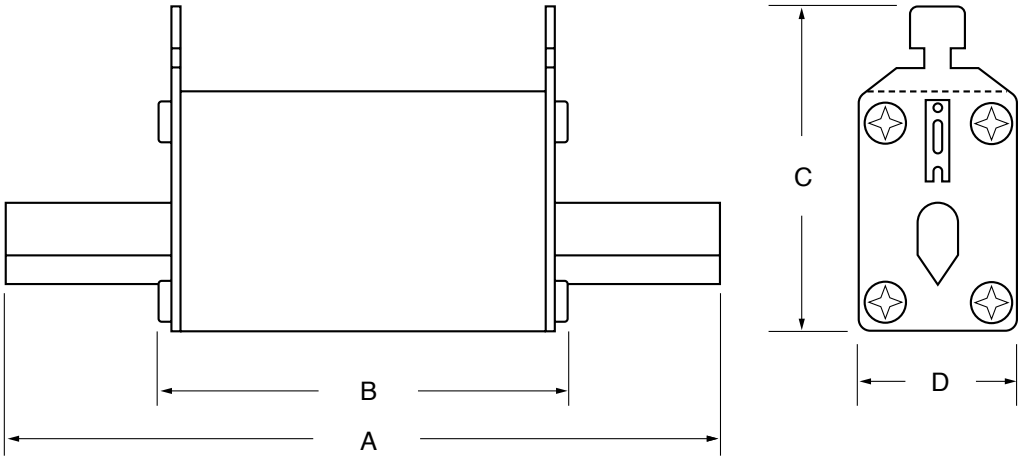
Standards: DIN 43.620, IEC 269-2-1
Approvals: VDE
Example part number: NH1CG25 (size, characteristic and amperage)

Size	Current Range	Voltage (AC/DC)	Interrupting Rating	Nominal Frequency	Selectivity
00C	2A up to 100A	500V/440V	120kA/25kA	45 - 62 Hz	1:1 25
00	2A up to 160A	500V/440V	120kA/25kA	45 - 62 Hz	1:1 25
0	6A up to 160A	500V/440V	120kA/25kA	45 - 62 Hz	1:1 25
1C	25A up to 160A	500V/440V	120kA/25kA	45 - 62 Hz	1:1 25
1	63A up to 250A	500V/440V	120kA/25kA	45 - 62 Hz	1:1 25
2C	40A up to 250A	500V/440V	120kA/25kA	45 - 62 Hz	1:1 25
2	125A up to 400A	500V/440V	120kA/25kA	45 - 62 Hz	1:1 25
3C	315A up to 400A	500V/440V	120kA/25kA	45 - 62 Hz	1:1 25
3	315A up to 630A	500V/440V	120kA/25kA	45 - 62 Hz	1:1 25

Amperage	gL-gG 500V					aM 500V			
	NH00C/NH00	NH0	NH1C/NH1	NH2C/NH2	NH3C/NH3	NH00M	NH1	NH2	NH3
2	NH00CG2	—	—	—	—	NH00M2	—	—	—
4	NH00CG4	—	—	—	—	NH00M4	—	—	—
6	NH00CG6	NH0G6	—	—	—	NH00M6	—	—	—
10	NH00CG10	NH0G10	—	—	—	NH00M10	—	—	—
16	NH00CG16	NH0G16	—	—	—	NH00M16	—	—	—
20	NH00CG20	NH0G20	—	—	—	NH00M20	—	—	—
25	NH00CG25	NH0G25	NH1CG25	—	—	NH00M25	—	—	—
32	NH00CG32	NH0G32	NH1CG32	—	—	NH00M32	—	—	—
35	NH00CG35	NH0G35	NH1CG35	—	—	NH00M35	—	—	—
40	NH00CG40	NH0G40	NH1CG40	NH2CG40	—	NH00M40	—	—	—
50	NH00CG50	NH0G50	NH1CG50	NH2CG50	—	NH00M50	—	—	—
63	NH00CG63	NH0G63	NH1CG63	NH2CG63	—	NH00M63	NH1M63	—	—
80	NH00CG80	NH0G80	NH1CG80	NH2CG80	—	NH00M80	NH1M80	—	—
100	NH00CG100	NH0G100	NH1CG100	NH2CG100	—	NH00M100	NH1M100	—	—
125	NH00G125	NH0G125	NH1CG125	NH2CG125	—	NH00M125	NH1M125	NH2M125	—
160	NH00G160	NH0G160	NH1CG160	NH2CG160	—	NH00M160	NH1M160	NH2M160	—
200	—	—	NH1G200	NH2CG200	—	—	NH1M200	NH2M200	—
224	—	—	NH1G224	NH2CG224	—	—	NH1M224	NH2M224	—
250	—	—	NH1G250	NH2CG250	—	—	NH1M250	NH2M250	—
300	—	—	—	NH2G300	—	—	—	NH2M300	—
315	—	—	—	NH2G315	NH3CG315	—	—	NH2M315	NH3M315
355	—	—	—	NH2G355	NH3CG355	—	—	NH2M355	NH3M355
400	—	—	—	NH2G400	NH3CG400	—	—	NH2M400	NH3M400
425	—	—	—	—	NH3G425	—	—	—	—
500	—	—	—	—	NH3G500	—	—	—	NH3M500
630	—	—	—	—	NH3G630	—	—	—	NH3M630

NH Fuse Links

NH Fuse Link Dimensions



Size	Current Range	Dimensions (mm)			
		A	B	C	D
00C	2-100A	78.00	54.00	51.30	20.00
00	2-160A	78.00	54.00	56.40	30.00
0	6-160A	123.95	70.11	53.34	30.00
1C	25-160A	135.00	75.00	56.40	30.00
1	63-250A	135.00	75.00	64.30	40.00
2C	40-250A	150.00	75.00	64.26	40.00
2	125-400A	150.00	75.00	74.20	50.00
3C	315-400A	150.00	75.00	74.20	50.00
3	315-630A	150.00	75.00	87.37	71.88

NH Bases / Disconnects

Fuse Bases

Part No.	Size	Rating	Connection
NHB00B	00	690V/160A	Bolt
NHB00C	00	690V/160A	V-Clamp
NHB1B	1	690V/250A	Bolt
NHB2B	2	690V/400A	Bolt
NHB3B	3	690V/630A	Bolt

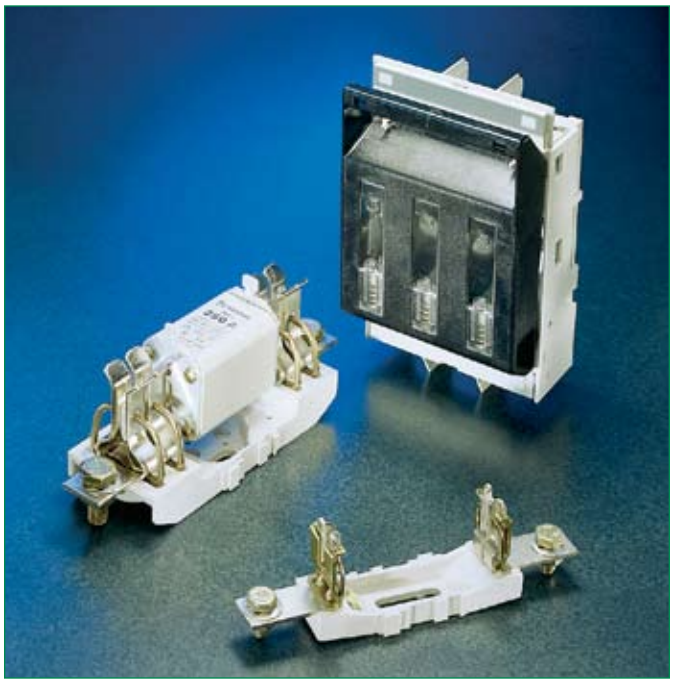
All fuse bases are single pole and gangable.

Fuse Disconnects

Part No.	Size	Rating	Connection
NHFSC00B	C00	690V/100A	Bolt
NHFS0B	0	690V/160A	Bolt
NHFS1B	1	690V/250A	Bolt
NHFS2B	2	690V/400A	Bolt
NHFS3B	3	690V/630A	Bolt

All disconnects are 3 pole.

Contact factory for dimensional information.



Diazed/Neozed Fuses

380-500 Volts AC • 2 – 63 Amperes

Littelfuse fast acting (gL-gG) fuses are used for the protection of cables against short-circuits. Time-lag (aM) fuses are used for protection of motors. Ratings are available in standard Diazed and compact Neozed styles.

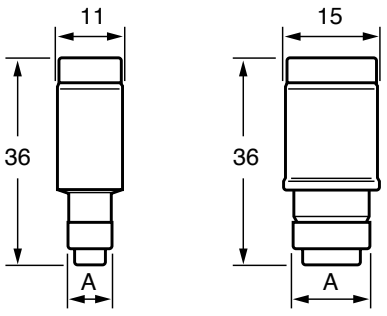
Specifications

Standards: DIN 49.522-DIN 49.525, IEC 269-3
Approvals: VDE
Example part number: DZ27F4

Base Size	Type	Current Range	Voltage AC/DC	Interrupting Rating
14	D01	2-16A	380V/250V	50kA
18	D02	20-63A	380V/250V	50kA
16	DI	2-25A	500V	80kA
27	DII	2-25A	500V	80kA
33	DIII	35-63A	500V	80kA

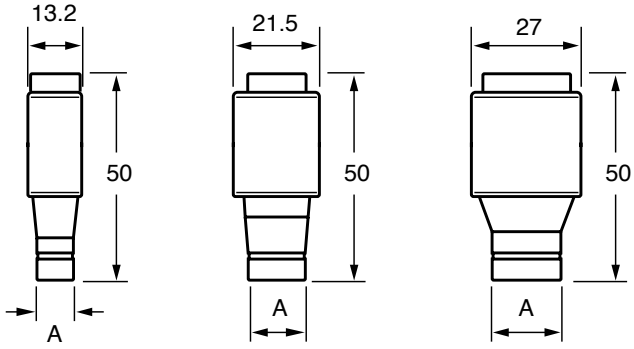
All Diazed and Neozed fuses incorporate a blown fuse indicator.

Neozed Fuses



D01 D02

Diazed Fuses



DI DII DIII

All dimensions are in "mm"

		Diazed Fuses							Neozed Fuses		
		gL-gG			aM			DIM.	gL-gG		DIM.
Amperage	Color	DI	DII	DIII	DI	DII	DIII	A (mm)	D01	D02	A (mm)
2	Pink	DZ16F2	DZ27F2	—	DZ16T2	DZ27T2	—	6	D0Z14G2	—	7.3
4	Brown	DZ16F4	DZ27F4	—	DZ16T4	DZ27T4	—	6	D0Z14G4	—	7.3
6	Green	DZ16F6	DZ27F6	—	DZ16T6	DZ27T6	—	6	D0Z14G6	—	7.3
10	Red	DZ16F10	DZ27F10	—	DZ16T10	DZ27T10	—	8	D0Z14G10	—	8.5
16	Grey	DZ16F16	DZ27F16	—	DZ16T16	DZ27T16	—	10	D0Z14G16	—	9.7
20	Blue	DZ16F20	DZ27F20	—	DZ16T20	DZ27T20	—	12	—	D0Z18G20	10.9
25	Yellow	DZ16F25	DZ27F25	—	DZ16T25	DZ27T25	—	14	—	D0Z18G25	12.1
35	Black	—	—	DZ33F35	—	—	DZ33T35	16	—	D0Z18G35	13.3
50	White	—	—	DZ33F50	—	—	DZ33T50	18	—	D0Z18G50	14.5
63	Copper	—	—	DZ33F63	—	—	DZ33T63	20	—	D0Z18G63	15.9
Base Size (mm)		16	27	33	16	27	33	—	14	18	—

Diazed/Neozed Fuses

Fuse bases, carriers, and gauge rings are available for Diazed (DZ) and Neozed (D0Z) type fuses. Fuse holders are comprised of a fuse base and carrier. Optional gauge rings act as a rejection feature and are used to prevent over-sizing of fuses. All bases and carriers are single pole units. Contact factory for additional information.

Fuse Bases

Part No.	Fuse Type	Base Size (mm)	Mounting Type
DZB27S	DZ	27	Screw
DZB27DR	DZ	27	Din Rail
DZB33S	DZ	33	Screw
DZB33DR	DZ	33	Din Rail
D0ZB14S	D0Z	14	Screw
D0ZB14DR	D0Z	14	Din Rail
D0ZB18S	D0Z	18	Screw
D0ZB18DR	D0Z	18	Din Rail

Fuse Carriers

Part No.	Fuse Type	Base Size (mm)
DZC27	DZ	27
DZC33	DZ	33
D0ZC14	D0Z	14
D0ZC18	D0Z	18

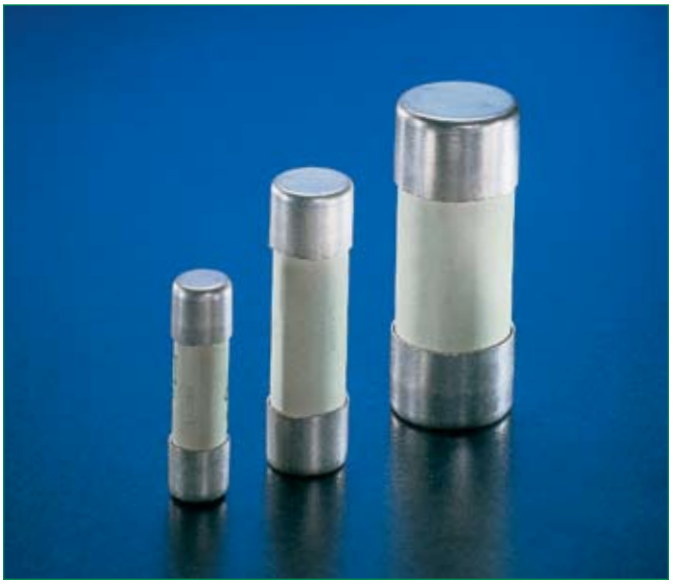
Gauge Rings

Amp Rating	Color	DZ	DZ	D0Z	D0Z
2	Pink	DZ27PK	—	D0Z14PK	D0Z18PK
4	Brown	DZ27BR	—	D0Z14BR	D0Z18BR
6	Green	DZ27GN	—	D0Z14GN	D0Z18GN
10	Red	DZ27RD	—	D0Z14RD	D0Z18RD
16	Grey	DZ27GY	—	—	D0Z18GY
20	Blue	DZ27BE	—	—	D0Z18BE
25	Yellow	DZ27YW	—	—	D0Z18YW
35	Black	—	DZ33BK	—	D0Z18BK
50	White	—	DZ33WE	—	D0Z18WE
63	Copper	—	DZ33CR	—	—

Contact factory for dimensional information.

Cylindrical Fuses

500 Volts • 0.5 – 100 Amperes

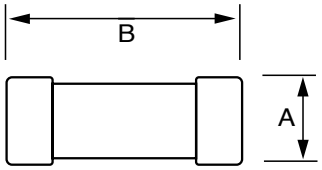


Littelfuse fast acting (gL-gG) fuses are used for the protection of cables against short-circuits. Time-lag (aM) fuses are used for protection of motors.

Specifications

Standards: IEC 269-2-1
Example part number: CY22X58G50

Size	Current Range	Voltage AC	Interrupting Rating
10 x 38 mm	0.5-32A	500V	120kA
14 x 51 mm	2-50A	500V	80kA
22 x 58 mm	16-100A	500V	80kA



Amperage		gL-gG			aM		
		10X38	14X51	22X58	10X38	14X51	22X58
0.5		CY10X38G.5	—	—	CY10X38M.5	—	—
1		CY10X38G1	—	—	CY10X38M1	—	—
2		CY10X38G2	CY14X51G2	—	CY10X38M2	CY14X51M2	—
4		CY10X38G4	CY14X51G4	—	CY10X38M4	CY14X51M4	—
6		CY10X38G6	CY14X51G6	—	CY10X38M6	CY14X51M6	—
8		CY10X38G8	CY14X51G8	—	CY10X38M8	CY14X51M8	—
10		CY10X38G10	CY14X51G10	—	CY10X38M10	CY14X51M10	—
12		CY10X38G12	CY14X51G12	—	CY10X38M12	CY14X51M12	—
16		CY10X38G16	CY14X51G16	CY22X58G16	CY10X38M16	CY14X51M16	CY22X58M16
20		CY10X38G20	CY14X51G20	CY22X58G20	CY10X38M20	CY14X51M20	CY22X58M20
25		CY10X38G25	CY14X51G25	CY22X58G25	CY10X38M25	CY14X51M25	CY22X58M25
32		CY10X38G32	CY14X51G32	CY22X58G32	CY10X38M32	CY14X51M32	CY22X58M32
40		—	CY14X51G40	CY22X58G40	—	CY14X51M40	CY22X58M40
50		—	CY14X51G50	CY22X58G50	—	CY14X51M50	CY22X58M50
63		—	—	CY22X58G63	—	—	CY22X58M63
80		—	—	CY22X58G80	—	—	CY22X58M80
100		—	—	CY22X58G100	—	—	CY22X58M100
Dimensions (mm)	A	10	14	22	10	14	22
	B	38	51	58	38	51	58

Fuseholders

Part No.	Size	# of Poles	Amp Rating	Voltage	Terminal Type
CYH10381	10X38	1	32A	690V	Pressure Plate
CYH10382	10X38	2	32A	690V	Pressure Plate
CYH10383	10X38	3	32A	690V	Pressure Plate
CYH10381ID*	10X38	1	32A	690V	Pressure Plate
CYH14511	14X51	1	50A	690V	Pressure Plate
CYH14512	14X51	2	50A	690V	Pressure Plate
CYH14513	14X51	3	50A	690V	Pressure Plate
CYH22581	22X58	1	125A	690V	Pressure Plate
CYH22582	22X58	2	125A	690V	Pressure Plate
CYH22583	22X58	3	125A	690V	Pressure Plate

* Indicating
NOTE: All fuseholders are DIN-Rail mountable.
Contact factory for dimensional information.

Multi-pole Assembly Kit

Assembly kit is designed for use with CYH1038 and LPSC/LPSM fuse holders. Kit contains 20 connector pincers and 10 handle pins.

Part No: CYHP001

British Dimension HRCII-C Fuses

600 Volts AC • 2– 600 Amperes

HRCII-C fuses are stud-mounted fuses designed to British standard dimensions. They are generally used for motor short-circuit protection in dead-front holders, and are normally required to be used in conjunction with a motor running overload device.

Specifications

Voltage Rating: 600 Volts AC, 250 Volts DC
Interrupting Rating: 200,000 amperes rms symmetrical AC
80,000 amperes rms symmetrical DC
Ampere Range: 2– 600 amperes
Approvals: CSA Certified to Standard C22.2 No. 106-M90 (File No. LR90341)

Ampere ratings

2CO	2 4 6	10 15 20	25 30 40	50 60	80 100
2CC	125 150	200 250	300 350	400 450	500 600
2CM	80 100	125 150	200 250	300 350	400

Example part number (series & amperage): 2CM 150

Recommended Fuse Blocks

DF30 (F, B, FB) — Fits 2 – 30 amps
DF60 (F, B, FB) — Fits 40 – 60 amps
DF100 (F, B, FB) — Fits 80 – 100 amps
For additional information on HRCII-C fuse holders, contact factory.

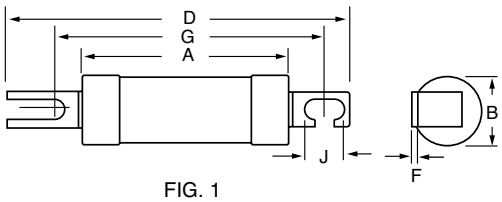


FIG. 1

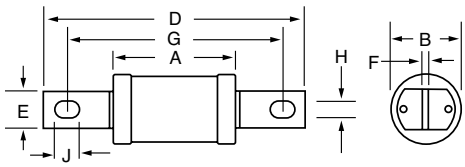


FIG. 2

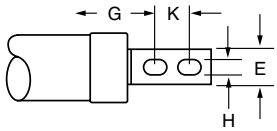


FIG. 3

Cat. No.	Old LF Part No.	Refer To Fig. No.	Dimensions in mm (inches in parentheses)									
			A	B	C	D	E	F	G	H	J	K
2CO 2-30	FII	1	56 (2.2)	21 (0.83)	—	85 (3.3)	9 (0.35)	1 (0.04)	73 (2.87)	5.5 (0.21)	7.5 (0.29)	—
2CO 40-60	FII	1	57 (2.24)	26 (1.02)	—	88 (3.45)	13 (0.51)	1.6 (0.06)	73 (2.87)	5.5 (0.21)	7.5 (0.29)	—
2CO 80-100	FII	1	68 (2.88)	36 (1.42)	—	110 (4.33)	19 (0.75)	2.4 (0.09)	94 (3.7)	8.7 (0.34)	—	—
2CC 125-200	FIIC	2	76 (3)	41 (1.61)	—	137 (5.39)	19 (0.75)	3.6 (0.14)	111 (4.37)	8.7 (0.34)	16 (0.63)	—
2CC 250-400	FIIC	3	81 (3.19)	58 (2.28)	—	210 (8.27)	26 (1.02)	6.5 (0.26)	133 (5.24)	10.3 (0.4)	16 (0.63)	25.4 (1)
2CC 450-600	FIIC	3	83 (3.27)	74 (2.91)	—	210 (8.27)	26 (1.02)	6.5 (0.25)	133 (5.24)	10.3 (0.4)	16 (0.63)	25.4 (1)
2CM 80-100	FIIM	2	66 (2.6)	31 (1.22)	—	135 (5.31)	19 (0.75)	3.6 (0.14)	111 (4.37)	8.7 (0.34)	16 (0.63)	—
2CM 125-200	FIIM	1	77 (3.03)	41 (1.81)	—	110 (4.33)	19 (0.75)	2.4 (0.09)	94 (3.7)	8.7 (0.34)	10.3 (0.4)	—
2CM 250-400	FIIM	2	81 (3.19)	58 (2.25)	—	136 (5.35)	26 (1.02)	5.2 (0.2)	111 (4.37)	8.7 (0.34)	16 (0.63)	—

*Hole diameter to accept insulated stud (types C and D) mm min