

IEC Type Fuseholders DF6 and GK1

Class 9080



-  **Merlin Gerin**
-  **Modicon**
-  **Square D**
-  **Telemecanique**

Schneider Electric Brands

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


SQUARE D
Schneider Electric

IEC Type Fuseholders, DF6 and GK1

Application Data

Environment

Type		DF6AB08	GK1C	DF6AB10	GK1D	GK1B	GK1E	GK1F
Conforming to standards		NF C 61-201	—	NF C 61-201	—	—	—	—
		IEC 947-3	IEC 947-3	IEC 947-3	IEC 947-3	IEC 947-3	IEC 947-3	IEC 947-3
Protective treatment		"TC"	"TC"	"TC"	"TC"	"TC"	"TC"	"TC"
Ambient air temperature for operation with links, without derating	°F (°C)	-58 to + 158 (-50 to + 70)	-58 to + 158 (-50 to + 70)	-58 to + 158 (-50 to + 70)	-58 to + 158 (-50 to + 70)	-58 to + 158 (-50 to + 70)	-58 to + 158 (-50 to + 70)	-58 to + 158 (-50 to + 70)
Operating position relative to normal vertical mounting position	 ± 23°	± 23°	± 23°	± 23°	± 23°	± 23°	± 23°	± 23°

Pole characteristics

Type		DF6AB08		GK1C		DF6AB10		GK1D		GK1B		GK1E		GK1F		
Fuse size	in. (mm)	0.3 x 1.2 (8.5 x 31.5)		0.3 x 1.2 (8.5 x 31.5)		0.4 x 1.5 (10 x 38)		0.4 x 1.5 (10 x 38)		0.4 x 1.5 (10 x 38)		0.6 x 2.0 (14 x 51)		0.9 x 2.3 (22 x 58)		
Rated operational voltage with links, AC operation	V	400		400		500		500		500		690		690		
Maximum continuous current for ambient temperature ≤ 104 °F (40 °C)*																
	With links (used in neutral poles)	A	20		20		32		32		30		50		125	
	With aM cartridge fuses	A	10		10		25		25		25		50		125	
	With gG cartridge fuses	A	20		20		30		30		30		40		100	
Permissible short-circuit currents (with links)																
	Maximum peak value (dynamic stress)	kA	8		8		8		8		8		8		8	
	Short-time rating (rms value cos φ = 0.35)	kA	4		4		4		4		4		4		4	
Duration	ms	100		100		100		100		100		100		100		
Cabling Maximum c.s.a. (without cable end)																
	Number of conductors		1	2	1	2	1	2	1	2	1	2	1	2	1	2
	Stranded wire	AWG (mm ²)	8 (10)	10 (6)	8 (10)	10 (6)	8 (10)	10 (6)	8 (10)	10 (6)	8 (10)	10 (6)	4 (25)	8 (10)	2 (35)	6 (16)
Solid wire	AWG (mm ²)	8 (10)	10 (6)	8 (10)	10 (6)	8 (10)	10 (6)	8 (10)	10 (6)	8 (10)	10 (6)	4 (25)	8 (10)	2 (50)	4 (25)	
Tightening torque	lb-in (N•m)	11 (1.2)		11 (1.2)		11 (1.2)		11 (1.2)		11 (1.2)		18 (2)		18 (2)		

* For use at ambient temperature > 104 °F (40 °C), apply a derating coefficient equal to: $\sqrt{\frac{120 - \text{ambient temperature (°F)}}{80}}$



IEC Type Fuseholders, DF6 and GK1 Ordering Information

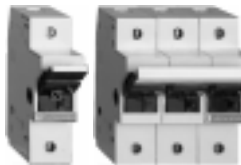
Fuseholders



DF6N10 GK1CF

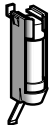


DF6AB10 GK1DF



GK1EN GK1EF

Rated thermal current	Size of cartridge fuse or link	Composition	Standard Pack Quantity	Catalog Number	Weight oz (g)
20 A	0.3 x 1.2 in. (8.5 x 31.5 mm)	1 Pole	12	DF6AB08	2.5 (70)
		1 Neutral Pole	12	DF6N10	2.8 (80)
		1 Pole + Neutral Pole*	6	GK1CC	5.4 (152)
		2 Poles	6	GK1CD	5.0 (142)
		3 Poles	4	GK1CF	7.5 (213)
		3 Poles + Neutral Pole*	3	GK1CH	10.4 (294)
30 A	0.4 x 1.5 in. (10 x 38 mm) CC fuse	1 Pole	12	GK1BB	2.5 (70)
		2 Poles	6	GK1BD	5.0 (142)
		3 Poles	4	GK1BF	7.5 (213)
32 A	0.4 x 1.5 in. (10 x 38 mm)	1 Pole	12	DF6AB10	2.5 (70)
		1 Neutral Pole	12	DF6N10	2.8 (80)
		1 Pole + Neutral Pole*	6	GK1DC	5.4 (152)
		2 Poles	6	GK1DD	5.0 (142)
		3 Poles	4	GK1DF	7.5 (213)
		3 Poles + Neutral Pole*	3	GK1DH	10.4 (294)
50 A	0.6 x 2.0 in. (14 x 51 mm)	1 Pole	12	GK1EB	4.6 (130)
		1 Neutral Pole	12	GK1EN	4.9 (140)
		1 Pole + Neutral Pole*	6	GK1EC	9.6 (273)
		2 Poles	6	GK1ED	9.3 (263)
		3 Poles	4	GK1EF	13.9 (394)
		3 Poles + Neutral Pole*	3	GK1EH	18.9 (536)
125 A	0.9 x 2.3 in. (22 x 58 mm)	1 Pole	12	GK1FB	8.1 (230)
		1 Neutral Pole	12	GK1FN	8.8 (250)
		1 Pole + Neutral Pole*	6	GK1FC	16.9 (480)
		2 Poles	6	GK1FD	16.2 (460)
		3 Poles	4	GK1FF	24.3 (690)
		3 Poles + Neutral Pole*	3	GK1FH	33.2 (940)



GK1AS

Approvals when using appropriate U.S. fuses:

UL File E190993 CCN IZLT2
UL File E190993 CCN IZLT8
 For: DF6AB10, GK1DD, GK1DF, GK1EB, GK1ED, GK1EF, GK1FB, GK1FD, and GK1FF.

UL File E190993 CCN IZLT
UL File E190993 CCN IZLT7
 For: GK1BB, GK1BD, and GK1BF

NOTE: There is a groove on the control lever for marking each pole with AR1M*01 markers using positioning tool AT1PA3.
 * Neutral pole fitted with a locked link as standard.

Blown fuse indicators (neon)

For use on fuseholders	Operational voltage	Standard Pack Quantity	Catalog Number	Weight oz (g)
DF6, GK1B, GK1C, GK1D, GK1E	80 to 400 V	10	GK1AS	0.11 (3)

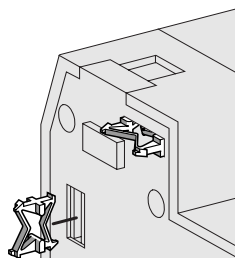


GK1AP•

Fuseholder assembly strips*

For use on fuseholders	Number of poles	Standard Pack Quantity	Catalog Number	Weight oz (g)
DF6	2	10	GK1AP2	0.07 (2)
	3		GK1AP3	0.11 (3)
	4		GK1AP4	0.14 (4)
GK1E	2	10	GK1AP3	0.14 (4)
	3		GK1AP5	0.14 (4)
	4		GK1AP6	0.21 (6)
GK1F	2	10	GK1AP4	0.14 (4)
	3		GK1AP6	0.21 (6)
	4		GK1AP9	0.25 (7)

* Strips come with all the clips needed for assembling the fuseholders together.



Detail of assembly mounting clip.



IEC Type Fuseholders, DF6 and GK1

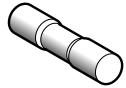
Ordering Information

Cartridge fuses without striker—Type aM

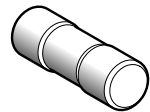
Cartridge fuse type	Maximum rated voltage (V~)	Rating (A)	Standard Pack Quantity	Catalog Number	Weight oz (g)		
Cylindrical 0.3 x 1.2 in. (8.5 x 31.5 mm)	400	1	10	DF2BA0100	0.35 (10)		
		2	10	DF2BA0200			
		4	10	DF2BA0400			
		6	10	DF2BA0600			
		8	10	DF2BA0800			
		10	10	DF2BA1000			
Cylindrical 0.4 x 1.5 in. (10 x 38 mm)	500	0.16	10	DF2CA001	0.35 (10)		
		0.25	10	DF2CA002			
		0.50	10	DF2CA005			
		1	10	DF2CA01			
		2	10	DF2CA02			
		4	10	DF2CA04			
		6	10	DF2CA06			
		8	10	DF2CA08			
		10	10	DF2CA10			
		12	10	DF2CA12			
	16	10	DF2CA16				
	400	20	10	DF2CA20			
		25	10	DF2CA25			
	Cylindrical 0.6 x 2.0 in. (14 x 51 mm)	500	0.25	10		DF2EA002	0.71 (20)
			0.50	10		DF2EA005	
			1	10		DF2EA01	
2			10	DF2EA02			
4			10	DF2EA04			
6			10	DF2EA06			
8			10	DF2EA08			
10			10	DF2EA10			
12			10	DF2EA12			
16			10	DF2EA16			
20			10	DF2EA20			
25			10	DF2EA25			
32		10	DF2EA32				
40		10	DF2EA40				
400	50	10	DF2EA50				
Cylindrical 0.9 x 2.3 in. (22 x 58 mm)	690	4	10	DF2FA04	1.59 (45)		
		6	10	DF2FA06			
		8	10	DF2FA08			
		10	10	DF2FA10			
		16	10	DF2FA16			
		20	10	DF2FA20			
		25	10	DF2FA25			
		32	10	DF2FA32			
		40	10	DF2FA40			
		50	10	DF2FA50			
	500	63	10	DF2FA63			
		80	10	DF2FA80			
	400	100	10	DF2FA100			
		125	10	DF2FA125			



DF2CA***



DF2EA***



DF2FA**

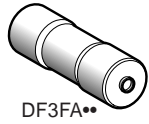


IEC Type Fuseholders, DF6 and GK1 Ordering Information

Cartridge fuses with striker—Type aM



Cartridge fuse type	Maximum rated voltage (V~)	Rating (A)	Standard Pack Quantity	Catalog Number	Weight oz (g)
Cylindrical 0.6 x 2.0 in. (14 x 51 mm)	500	2	10	DF3EA02	0.71 (20)
		4	10	DF3EA04	
		6	10	DF3EA06	
		8	10	DF3EA08	
		10	10	DF3EA10	
		12	10	DF3EA12	
		16	10	DF3EA16	
		20	10	DF3EA20	
		25	10	DF3EA25	
		32	10	DF3EA32	
	40	10	DF3EA40		
	400	50	10	DF3EA50	0.71 (20)
	Cylindrical 0.9 x 2.3 in. (22 x 58 mm)	690	4	10	DF3FA04
6			10	DF3FA06	
8			10	DF3FA08	
10			10	DF3FA10	
16			10	DF3FA16	
20			10	DF3FA20	
25			10	DF3FA25	
32			10	DF3FA32	
40			10	DF3FA40	
50			10	DF3FA50	
500		63	10	DF3FA63	1.59 (45)
		80	10	DF3FA80	
		100	10	DF3FA100	
400		125	10	DF3FA125	1.59 (45)



IEC Type Fuseholders, DF6 and GK1

Ordering Information

Cartridge fuses without striker—Type gl/gG

Cartridge fuse type	Maximum rated voltage (V~)	Rating (A)	Standard Pack Quantity	Catalog Number	Weight oz (g)
Cylindrical 0.3 x 1.2 in. (8.5 x 31.5 mm)	400	1	10	DF2BN0100	0.35 (10)
		2	10	DF2BN0200	
		4	10	DF2BN0400	
		6	10	DF2BN0600	
		8	10	DF2BN0800	
		10	10	DF2BN1000	
		12	10	DF2BN1200	
		16	10	DF2BN1600	
Cylindrical 0.4 x 1.5 in. (10 x 38 mm)	500	2	10	DF2CN02	0.35 (10)
		4	10	DF2CN04	
		6	10	DF2CN06	
		8	10	DF2CN08	
		10	10	DF2CN10	
		12	10	DF2CN12	
		16	10	DF2CN16	
	400	25	10	DF2CN25	0.35 (10)
		32	10	DF2CN32	
		40	10	DF2CN40	
Cylindrical 0.6 x 2.0 in. (14 x 51 mm)	500	4	10	DF2EN04	0.71 (20)
		6	10	DF2EN06	
		10	10	DF2EN10	
		16	10	DF2EN16	
		20	10	DF2EN20	
		25	10	DF2EN25	
		32	10	DF2EN32	
		40	10	DF2EN40	
Cylindrical 0.9 x 2.3 in. (22 x 58 mm)	690	10	10	DF2FN10	1.59 (45)
		20	10	DF2FN20	
		25	10	DF2FN25	
		32	10	DF2FN32	
		40	10	DF2FN40	
	500	50	10	DF2FN50	1.59 (45)
		63	10	DF2FN63	
		80	10	DF2FN80	
		100	10	DF2FN100	

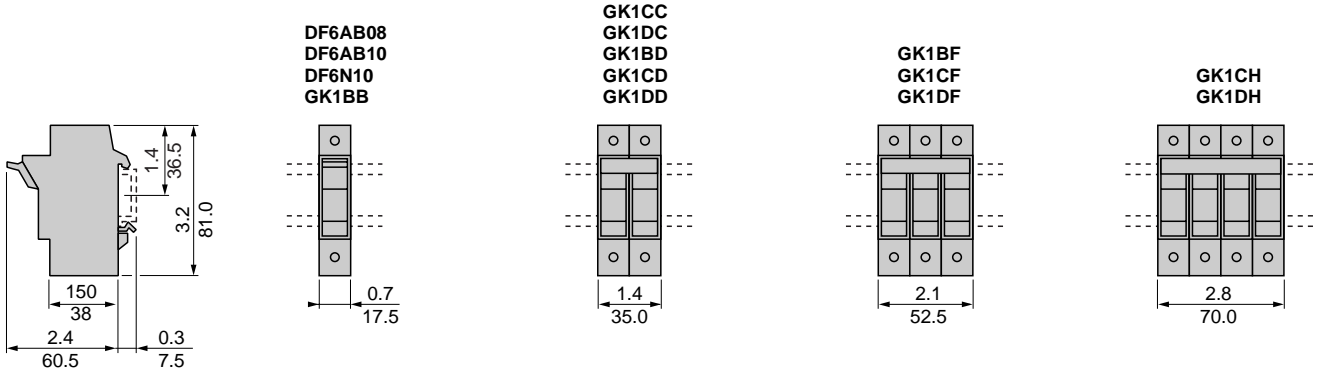
Cartridge fuses with striker—Type gl/gG

Cartridge fuse type	Maximum rated voltage (V~)	Rating (A)	Standard Pack Quantity	Catalog Number	Weight oz (g)
Cylindrical 0.6 x 2.0 in. (14 x 51 mm)	500	4	10	DF3EN04	0.71 (20)
		6	10	DF3EN06	
		10	10	DF3EN10	
		16	10	DF3EN16	
		20	10	DF3EN20	
		25	10	DF3EN25	
		32	10	DF3EN32	
Cylindrical 0.9 x 2.3 in. (22 x 58 mm)	690	10	10	DF3FN10	1.59 (45)
		20	10	DF3FN20	
		25	10	DF3FN25	
		32	10	DF3FN32	
		40	10	DF3FN40	
	500	50	10	DF3FN50	1.59 (45)
		63	10	DF3FN63	
		80	10	DF3FN80	
		100	10	DF3FN100	

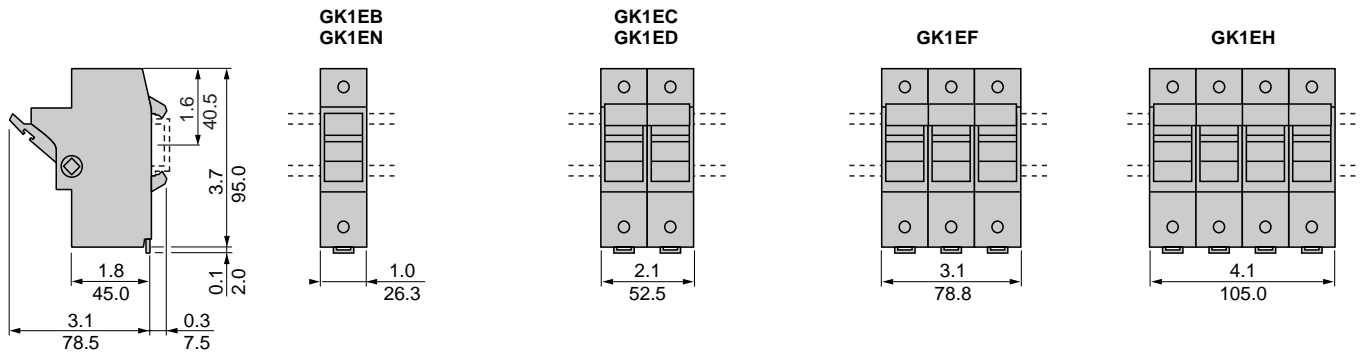


IEC Type Fuseholders, DF6 and GK1 Dimensions

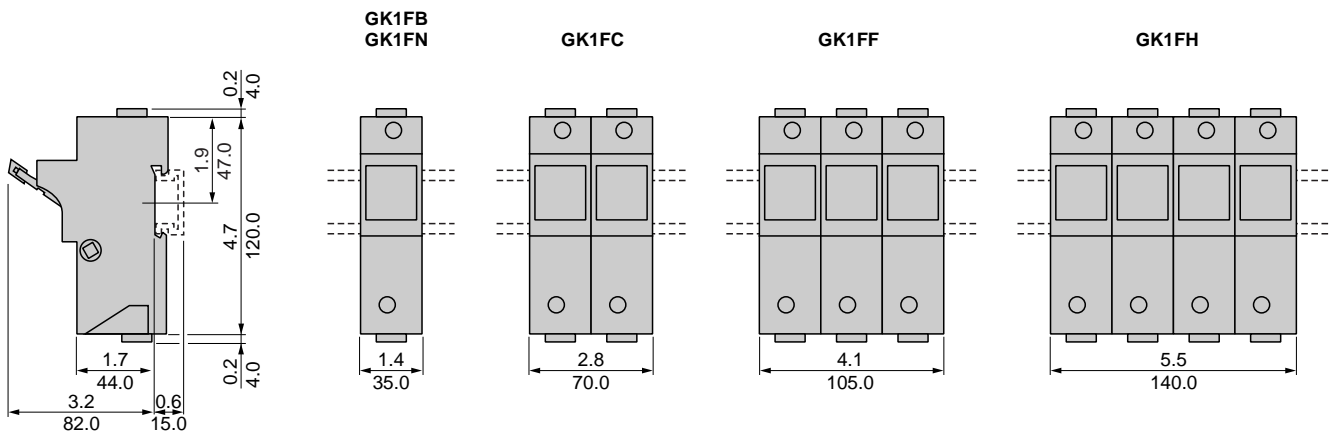
Modular fuseholders 20 A and 32 A Mounting on AM1DP200 track



Modular fuseholders 50 A Mounting on AM1DP200 track



Modular fuseholders 125 A Mounting on rail AM1ED

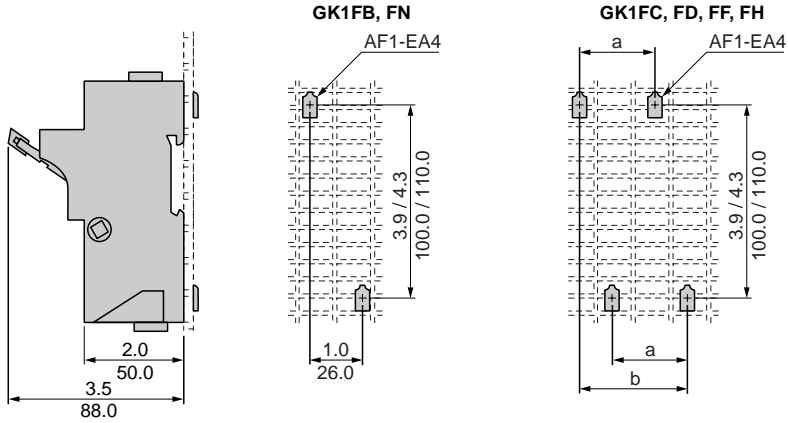


inches
mm



IEC Type Fuseholders, DF6 and GK1 Dimensions

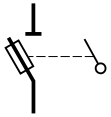
Modular fuseholders 125 A
Mounting on pre-slotted mounting plate AM1PA



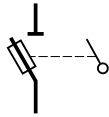
		GK1FC	GK1FD	GK1FF	GK1FH
a	in.	1.4	1.4	2.8	4.1
	mm	35	35	70	105
b	in.	2.4	2.4	3.8	5.2
	mm	61	61	96	131

Wiring Modular fuseholders

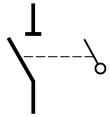
DF6AB•



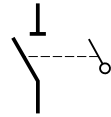
GK1•B



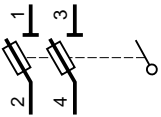
DF6N



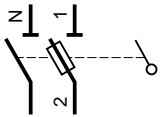
GK1•N



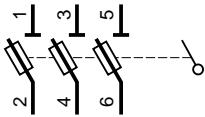
GK1•D



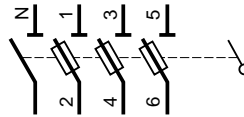
GK1•C



GK1•F



GK1•H



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