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Technical Data 2017

Effective May 2017 Supersedes April 2010

GMA 5 mm x 20 mm Fast-acting glass tube fuses



Product features

- Fast-acting, low breaking capacity
- Optional axial leads available
- 5 x 20mm physical size
- Glass tube, silver-plated
- (63mA-315mA) and nickel-plated (500mA-15A) brass endcap construction
- Designed to UL/CSA 248-14

Agency information

• UL Listed, Guide JDYX, File E19180, 63mA-6A

BUSSMANN SERIES

- UL Recognized, Guide JDYX2, File E19180, • 7-15A
- CSA Certified, Class 1422-01, File 53787, 63mA-6A
- PSE Approval, 1A-15A

Ordering

- Specify packaging, product, and option code
- Ratings above 6.3A have a 0.8 mm diameter lead
- With TR2 packaging code, lead wire length is 19.05 mm

Electrical Characteristics					
Rated Current	% of Amp Rating Opening Time				
63mA - 15A	100%	None			
	135%	60 minutes maximum			
	200%	2 minutes maximum			

				Specifica	ations		
Product Code	Amp	Voltage Rating	Interrupting Rating (amps)*		Typical DC Cold Resistance	Typical Pre-Arc I ² t	Maximum Voltage
	Rating	Vac	250Vac	125Vac	(Ω)**	Vac†	Drop (mV)‡
GMA-63-R	63mA	250	35	10,000	15.750	0.00024	4700
GMA-100-R	100mA	250	35	10,000	7.840	0.0001	4300
GMA-125-R	125mA	250	35	10,000	4.895	0.0024	2600
GMA-200-R	200mA	250	35	10,000	2.500	0.001	3400
GMA-250-R	250mA	250	35	10,000	1.735	0.018	2200
GMA-300-R	300mA	250	35	10,000	0.906	0.019	470
GMA-315-R	315mA	250	35	10,000	0.839	0.019	450
GMA-500-R	500mA	250	35	10,000	0.454	0.15	230
GMA-600-R	600mA	250	35	10,000	0.256	0.32	200
GMA-750-R	750mA	250	35	10,000	0.186	0.47	200
GMA-800-R	800mA	250	35	10,000	0.170	0.70	180
GMA-1-R	1	250	35	10,000	0.163	0.48	300
GMA-1.25-R	1.25	250	100	10,000	0.122	0.84	290
GMA-1.5-R	1.5	250	100	10,000	0.090	1.6	270
GMA-1.6-R	1.6	250	100	10,000	0.080	2.0	260
GMA-2-R	2	250	100	10,000	0.066	3.1	250
GMA-2.5-R	2.5	250	100	10,000	0.046	4.9	240
GMA-3-R	3	250	100	10,000	0.039	8.8	215
GMA-3.15-R	3.15	125	-	10,000	0.036	9.7	210
GMA-3.5-R	3.5	125	-	10,000	0.030	13	210
GMA-4-R	4	125	-	10,000	0.026	19	205
GMA-5-R	5	125	-	10,000	0.021	29	200
GMA-6-R	6	125	-	10,000	0.017	45	180
GMA-7-R	7	125	-	200	0.012	150	110
GMA-8-R	8	125	-	200	0.009	280	110
GMA-10-R	10	125	-	200	0.006	280	110
GMA-15-R	15	125	-	150	0.004	950	100

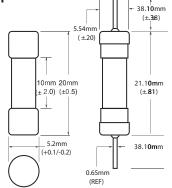
Interrupting ratings: Interrupting ratings for 63mA - 6A were measured at 70% - 80% power factor on AC. The interrupting ratings for 7A - 15A were measured at 100% power factor on AC. ** DC Cold Resistance (Measured at <10% of rated current)

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Typical Pre-Arching I ²t (I²t was measured at listed interrupting rating and rated voltage) Maximum Voltage drop (Voltage drop was measured at 20°C ambient temperature at rated current)

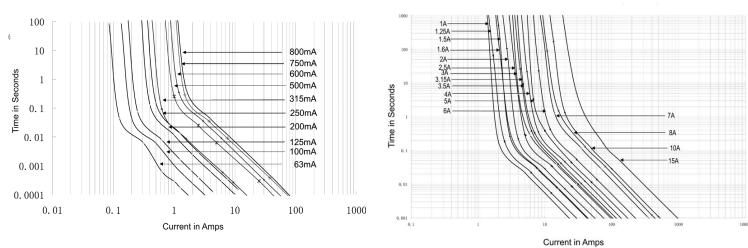


Dimensions - mm



Time-Current Curve – GMA-R 63mA-800mA

Time-Current Curve – GMA-R 1-15A



Packaging Code			
Packaging Code	Description		
BK	100 fuses packed into a cardboard carton		
BK1	1000 fuses packed into a poly bag		
TR2	1500 fuses packed into tape on a reel (19.05mm lead wire length)		
Option Code			

Option Code			
Option Code	Description		
V	Axial leads - copper tinned wire with nickel-plated brass overcaps		

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