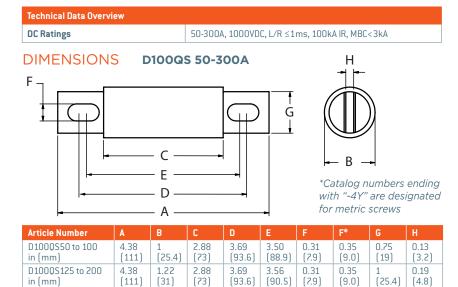
D100QS Series aR 1000VDC

Fast-Acting DC Fuses

DC HIGH SPEED FUSES



Electrification in construction, marine, agriculture, manufacturing, mining, and other industries, in addition to transportation, is a critical trend in cleaner energy. The D100QS North American style round body high-speed fuse series is Mersen's next evolution for high-power conversion applications protection for those industries shifting to Direct Current (DC) systems today. The D100QS fuse series is specifically designed to reduce the I²t, peak let-through current, and arc voltages during fault conditions to protect applications such as battery charging systems and other DC components like relays and contactors.



FEATURES/BENEFITS

- Lower I²t performance for improved protection of equipment
- Superior cycling ability for long, reliable life on high cyclic loading
- Low watts losses
- High Interrupting rating for optimal short circuit protection
- Designed to provide superior power cycling compared to general purpose fuses
- Built to withstand vibration

APPLICATIONS

- High Power battery charging and management systems protection
- Energy Storage Systems (ESS)
- Electrical Energy Storage (EES)
- Battery Disconnect Unit (BDU)
- Battery pack protection
- DC Fast-Charging station for EV applications
- Backup protection for DC relay/disconnector/switch
- Protection of 1000VDC or less, UPS and inverters

APPROVALS/STANDARDS

- UL Recognized UL File: E60314 DC: 50-300A, 1000VDC
- REACH/RoHS compliant



Expertise, our source of energy

D1000S225 to 300

in (mm)

5.09

[129]

1.50

(38.1)

2.84

[72.2]

4 16

[106]

3.53

[89.7]

0.40

[10.2]

0.25

[6.4]

[25.4]

PRODUCT RANGE

D100QS100-4



D100QS200-4Y

Max DC Bossel

D100QS 50-300A Round Body Fuses

Catalog number	voltage, L/R < 1ms (VDC)*	current I _n	Power dissipation		@1000VDC,	Time to clear	Weight (kg)	Package
			at 0.81 _n (W)	at I _n (W)	L/R < 1ms (A)**	MBC (ms)	weight (kg)	rackage
D100QS50-4,-4Y	1000	50	5.3	10	960	40	0.12	5
D100QS60-4,-4Y	1000	60	6.5	12	1160	40	0.12	5
D100QS70-4,-4Y	1000	70	8.1	15	1350	40	0.12	5
D100QS80-4,-4Y	1000	80	9.7	18	1540	40	0.12	5
D100QS90-4,-4Y	1000	90	11	20	1730	40	0.12	5
D100QS100-4,-4Y	1000	100	13	24	1920	40	0.12	5
D100QS125-4,-4Y	1000	125	12	22	940	80	0.19	5
D100QS150-4,-4Y	1000	150	16	29	1130	80	0.19	5
D100QS175-4,-4Y	1000	175	19	35	1320	80	0.19	5
D100QS200-4,-4Y	1000	200	22	41	1510	80	0.19	5
D100QS225-4	1000	225	20	37	2200	80	0.3	5
D100QS250-4	1000	250	23	42	2430	80	0.3	5
D100QS300-4	1000	300	29	53	2920	80	0.3	5

MBC

Catalog numbers ending with "-4Y" are designated for metric screws

*Time Constant: L/R \leq 1ms

**MBC (Minimum Breaking Capacity): Smallest current fuse has been tested to safely open at rated voltage and associated time constant



D100QS300-4

ACCESSORIES



P243C

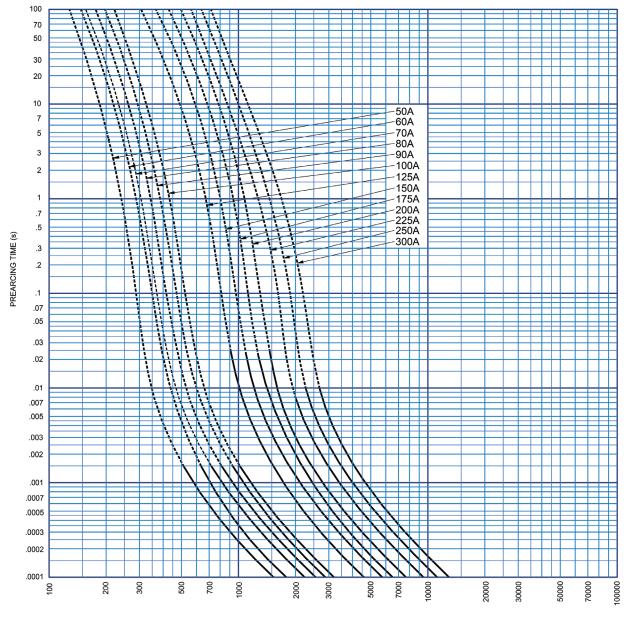


Fuse	blocks

Catalog number	Item number	Rated DC voltage	Application DC Fuses	Contact Materials	Weight				
P243 Fuse blocks									
P243C	P243C	700 V	D70QS fuses from 225 to 600A	Tin-Plated Copper	0.12 kg				
P266 Fuse blocks									
P266A	P266A	1000 V	D100QS fuses from 225 to 300A	Stainless Steel	0.39 kg				
1SC/1M	SC Modular F	Fuse blocks							
1SCM8	1SCM8	1000 V	D100QS up to 200A and D70QS up to 400A	Zinc-Plated Steel	68 g				
1SC250	1SC250	1000 V	D100QS up to 200A and D70QS up to 400A	Zinc-Plated Steel	68 g				
1SC375	1SC375	1000 V	D100QS 225A-300A and D70QS 450A-600A	Zinc-Plated Steel	68 g				
1SCM10	1SCM10	1000 V	D100QS 225A-300A and D70QS 450A-600A	Zinc-Plated Steel	68 g				



MELTING TIME CURRENT CURVE



PREARC CURRENT (A RMS) ± 10%

WATTS LOSS VS % RATED CURRENT

