

EVpack-fuse MEV55

550 VDC Max., L/R ≤ 1ms, 5 - 50A

BATTERY FUSES

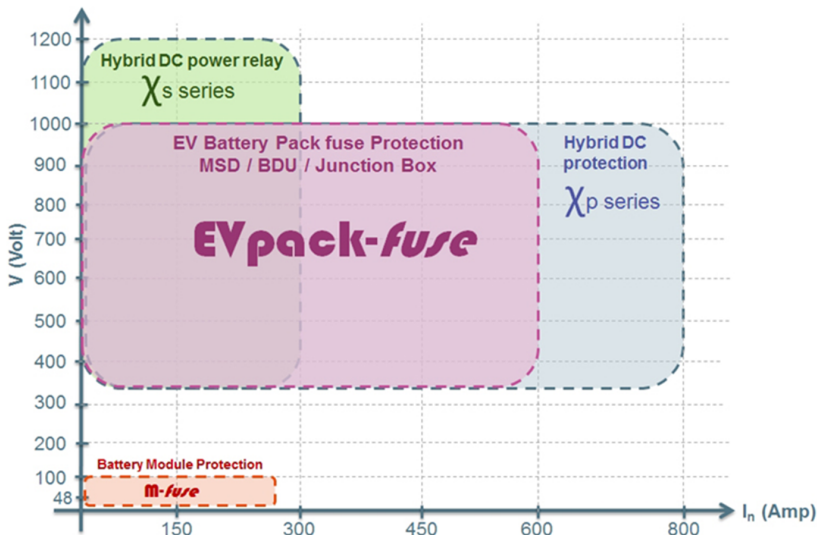
BATTERY PACK FUSES



EVpack-fuse line-up belongs to the new DC Over-Current protection (O.C.P.) range developed by MERSEN to address specific needs in EV/ HEV and Battery Electrical Storage System.

EVpack-fuse provides the ultimate protection of the battery pack offering reliable clearing of DC fault currents.

It has been specifically engineered and tested to provide DC applications best-in-class protection performance: Up to 550VDC, Current rating (I_n)= 5 to 50A, Interrupting Rating (IR) = 20kA, L/R ≤ 1ms, Minimum Breaking Capacity (MBC) < 3kA for a perfect matching with DC contactor.



FEATURES & BENEFITS

- Design for DC applications
- Low watt losses
- High cycling performance
- Full coverage of battery module voltage and current
- Ultra compact size
- Current Ratings (I_n): 5 to 50A
- Interrupting Rating (IR): 20kA @ 550VDC, L/R < 1ms

APPLICATIONS

- EV/HEV
- Electrical Energy Storage
- Battery pack protection
- Battery Disconnect Unit (BDU)
- Battery Junction Box for auxiliaries
- Battery charger
- Supercapacitor pack protection
- Backup protection for DC relay / disconnect / switch
- Maintenance Safety Disconnect (MSD)

STANDARDS

- Power Cycling & Vibration: JASO D622
- IATF - ISO/TS 16949 Quality management undergoing certification



EV pack-fuse

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Shah & Shah Enterprise

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PRODUCT RANGE



MEV55C30

MEV55C Ferrule Fuse

Catalog number	Rated DC voltage	Rated current I _n	Power dissipation at 0.5 I _n	Min. breaking capacity (MBC)	Max. time to clear MBC	Weight
MEV55C5	550 V	5 A	0.25 W	10 A	10 s	7.5 g
MEV55C6	550 V	6 A	0.29 W	12 A	10 s	7.5 g
MEV55C7	550 V	7 A	0.31 W	14 A	10 s	7.5 g
MEV55C8	550 V	8 A	0.4 W	16 A	10 s	7.5 g
MEV55C10	550 V	10 A	0.45 W	20 A	10 s	7.5 g
MEV55C12	550 V	12 A	0.47 W	24 A	10 s	7.5 g
MEV55C15	550 V	15 A	0.49 W	30 A	100 s	7.5 g
MEV55C20	550 V	20 A	0.56 W	40 A	100 s	7.5 g
MEV55C25	550 V	25 A	0.63 W	50 A	100 s	7.5 g
MEV55C30	550 V	30 A	0.68 W	60 A	100 s	7.5 g
MEV55C30/50	550 V	50 A	1 W	180 A	10 s	7.5 g



MEV55C15-S

MEV55C -S Surface Mount Fuse

Catalog number	Rated DC voltage	Rated current I _n	Power dissipation at 0.5 I _n	Min. breaking capacity (MBC)	Max. time to clear MBC	Weight
MEV55C5-S	550 V	5 A	0.25 W	10 A	10 s	9.9 g
MEV55C6-S	550 V	6 A	0.29 W	12 A	10 s	9.9 g
MEV55C7-S	550 V	7 A	0.31 W	14 A	10 s	9.9 g
MEV55C8-S	550 V	8 A	0.4 W	16 A	10 s	9.9 g
MEV55C10-S	550 V	10 A	0.45 W	20 A	10 s	9.9 g
MEV55C12-S	550 V	12 A	0.47 W	24 A	10 s	9.9 g
MEV55C15-S	550 V	15 A	0.49 W	30 A	100 s	9.9 g
MEV55C20-S	550 V	20 A	0.56 W	40 A	100 s	9.9 g
MEV55C25-S	550 V	25 A	0.63 W	50 A	100 s	9.9 g
MEV55C30-S	550 V	30 A	0.68 W	60 A	100 s	9.9 g
MEV55C30/50-S	550 V	50 A	1 W	180 A	10 s	9.9 g



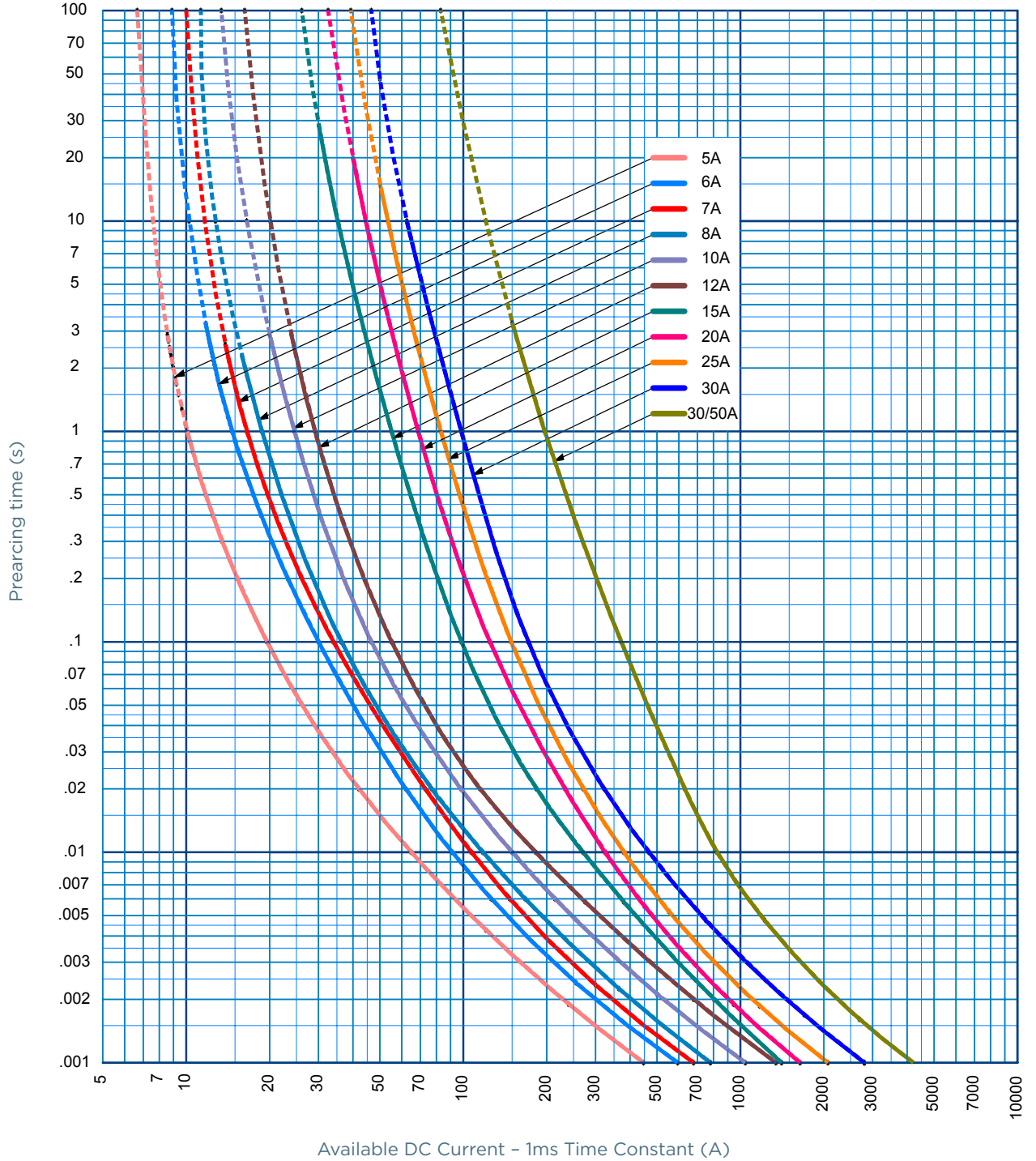
MEV55C30-P

MEV55C -P PC Board Mount

Catalog number	Rated DC voltage	Rated current I _n	Power dissipation at 0.5 I _n	Min. breaking capacity (MBC)	Max. time to clear MBC	Weight
MEV55C5-P	550 V	5 A	0.25 W	10 A	10 s	9.9 g
MEV55C6-P	550 V	6 A	0.29 W	12 A	10 s	9.9 g
MEV55C7-P	550 V	7 A	0.31 W	14 A	10 s	9.9 g
MEV55C8-P	550 V	8 A	0.4 W	16 A	10 s	9.9 g
MEV55C10-P	550 V	10 A	0.45 W	20 A	10 s	9.9 g
MEV55C12-P	550 V	12 A	0.5 W	24 A	10 s	9.9 g
MEV55C15-P	550 V	15 A	0.45 W	30 A	100 s	9.9 g
MEV55C20-P	550 V	20 A	0.54 W	40 A	100 s	9.9 g
MEV55C25-P	550 V	25 A	0.59 W	50 A	100 s	9.9 g
MEV55C30-P	550 V	30 A	0.65 W	60 A	100 s	9.9 g
MEV55C30/50-P	550 V	50 A	1.1 W	180 A	10 s	9.9 g

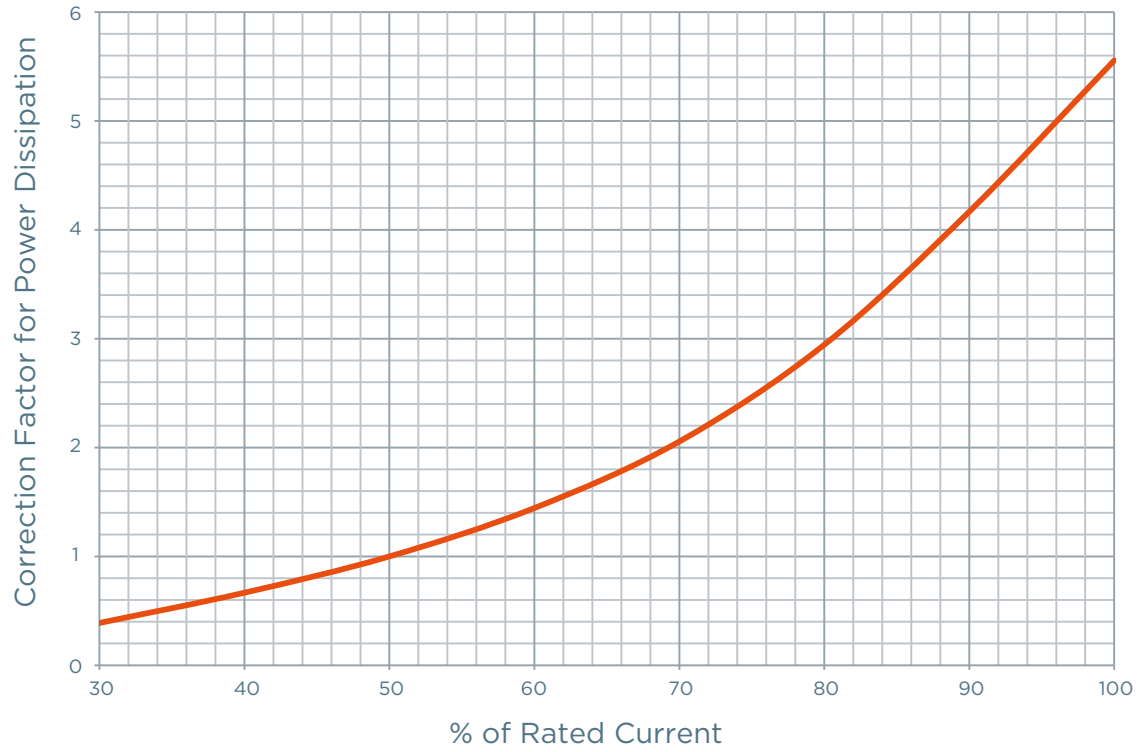
TIME CURRENT CHARACTERISTIC CURVES

MEV55C, -S, -P



POWER DISSIPATION

MEV55C, -S, -P

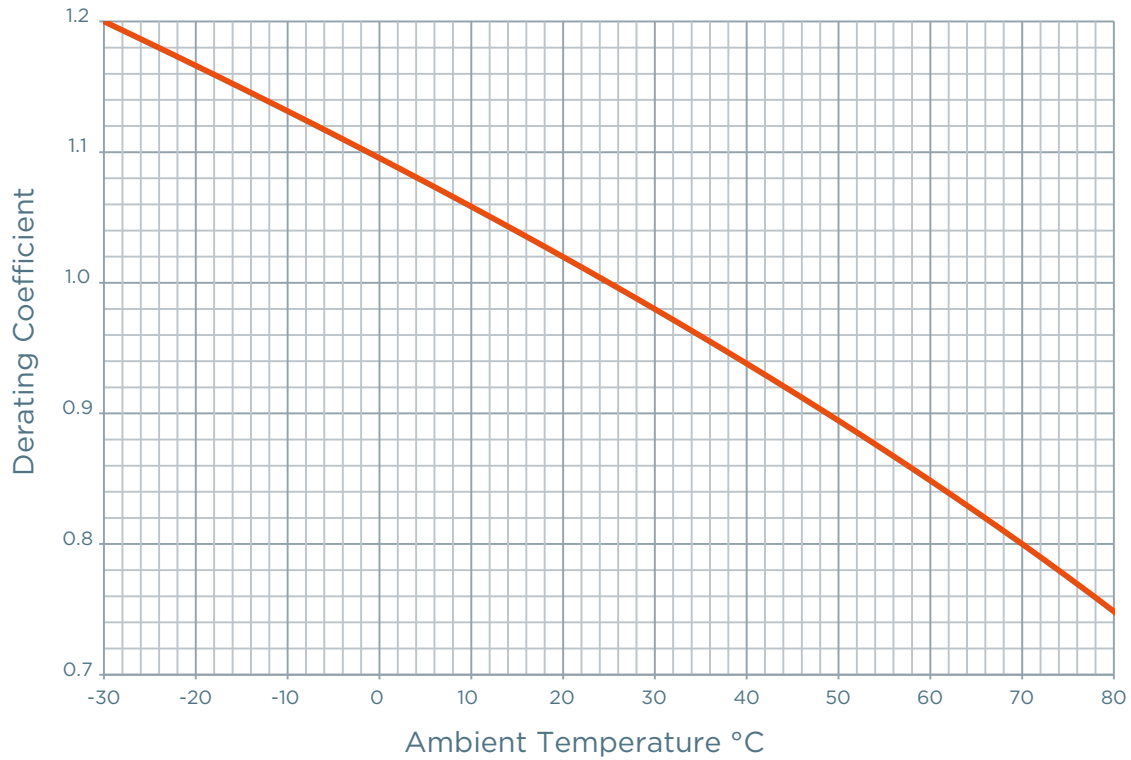


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550 VDC Max., L/R \leq 1ms, 5 - 50A

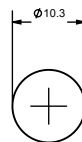
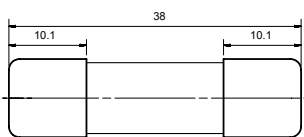
TEMPERATURE DERATING

MEV55C, -S, -P



DIMENSIONS

MEV55C Ferrule Fuse (5-50A)



Dimensions in mm

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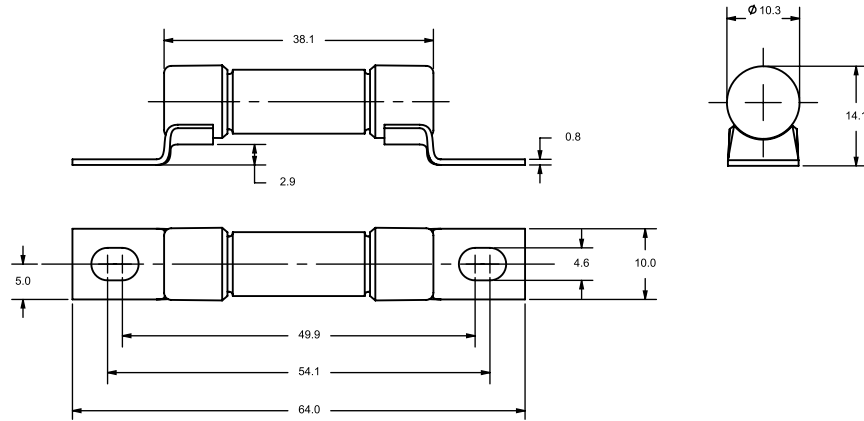


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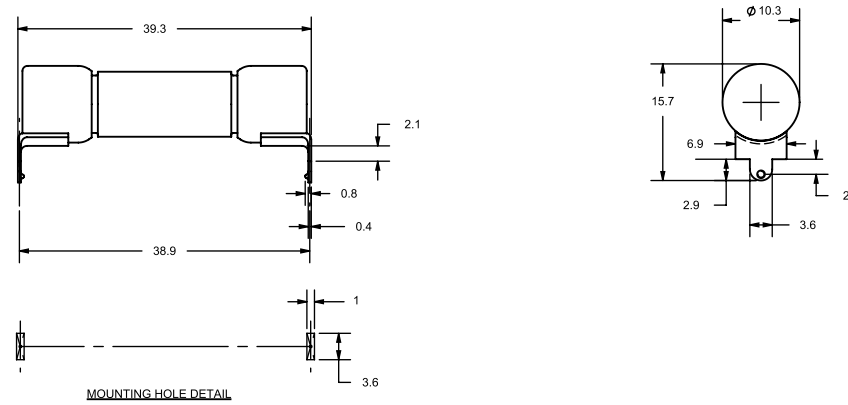
DIMENSIONS

MEV55C -S Surface Mount Fuse (5-50A)



Dimensions in mm

MEV55C -P PC Board Mount (5-50A)



Dimensions in mm

ACCESSORIES

Fuse blocks



30311



30312



30313



30321



30322



30323

Catalog number	Item number	Rated DC voltage	Application DC Fuses	Number of poles/ phases	Contact Materials	Wire Range	Tightening torque (recommended)
Open-style fuse blocks							
Screw w/ double quick connects at both ends							
30310	30310	600 V	MEV55C fuses up to 30A	Adder	Tin-plated Copper	Cu #10-14	2.3 N-m
30311	30311	600 V	MEV55C fuses up to 30A	1	Tin-plated Copper	Cu #10-14	2.3 N-m
30312	30312	600 V	MEV55C fuses up to 30A	2	Tin-plated Copper	Cu #10-14	2.3 N-m
30313	30313	600 V	MEV55C fuses up to 30A	3	Tin-plated Copper	Cu #10-14	2.3 N-m
Pressure plate (sems) w/ double quick connects at both ends							
30320	30320	600 V	MEV55C fuses up to 30A	Adder	Tin-plated Copper	Cu #10-14	2.3 N-m
30321	30321	600 V	MEV55C fuses up to 30A	1	Tin-plated Copper	Cu #10-14	2.3 N-m
30322	30322	600 V	MEV55C fuses up to 30A	2	Tin-plated Copper	Cu #10-14	2.3 N-m
30323	30323	600 V	MEV55C fuses up to 30A	3	Tin-plated Copper	Cu #10-14	2.3 N-m
Copper box							
30350	30350	600 V	MEV55C fuses up to 30A	Adder	Tin-plated Copper	Cu #6-14	3.9 N-m
30351	30351	600 V	MEV55C fuses up to 30A	1	Tin-plated Copper	Cu #6-14	3.9 N-m
30352	30352	600 V	MEV55C fuses up to 30A	2	Tin-plated Copper	Cu #6-14	3.9 N-m
30353	30353	600 V	MEV55C fuses up to 30A	3	Tin-plated Copper	Cu #6-14	3.9 N-m