



EXCEL | MATE MSD

Manual Service Disconnect



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Amphenol PCD Manual Service Disconnect

Excel|Mate MSD is a safe and a reliable solution for HEV servicing.

Equipped with a two-stage lever to open the HVIL circuit prior to the separation of HV contacts, it is a tool-free solution for disconnecting the internal high voltage battery pack and protecting it from short circuit. All HV conductive contact surfaces on the receptacle assembly are finger-touch safe.

Available in a scalable design with a variety of fuse ratings.



KEY FEATURES

A two-stage lever provides an HVIL time delay

2 x integrated internal HVIL

Unique cooling structure

Dual-channel design lowers temperature rise

No tools required to unmate

Various fuse ratings

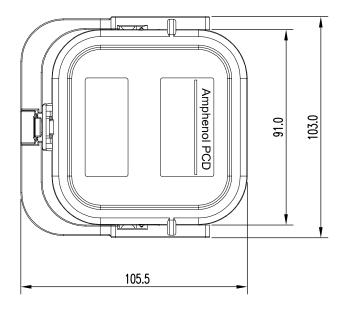
Receptacle can be front or rear mounted

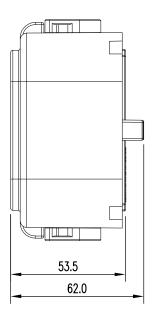
APPLICATION

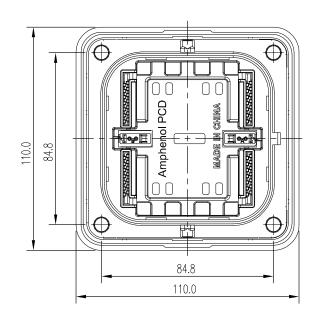
It is a tool-free solution for disconnecting the internal high voltage battery pack and protecting it from short circuit.

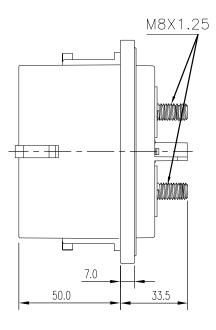
MECHANICAL		
Mating cycles	≥ 50 cycles	
ELECTRICAL		
Fuse specification	up to 630A	
With fuse:		
Rated current	Current is approximately 1/3 the fuse rating	
Rated voltage	500V DC to 600V DC	
With shunt:		
Rated current	260A Max @ Ambient 70°C	
Rated voltage	1000V DC Max	
ENVIRONMENTAL		
Protection degree	IP67, IP6K9K (mated)	
Ambient temperature	-40°C to 70°C	
Storage temperature	-40°C to 85°C	
Operating temperature	-40°C to 125°C	
Flammability	UL94V0	
STANDARDS		
USCAR-2		
USCAR-37		
LV-215		
RoHS		

PRODUCT DIMENSIONS

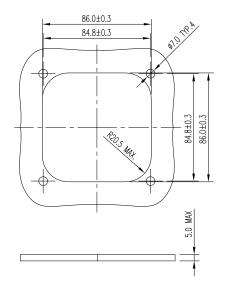






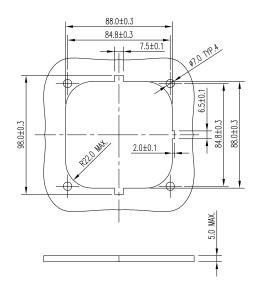


FRONT MOUNTED





REAR MOUNTED





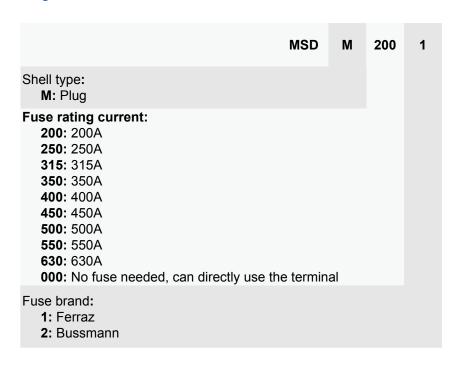
DUST CAP AVAILABLE P/N: C270006810

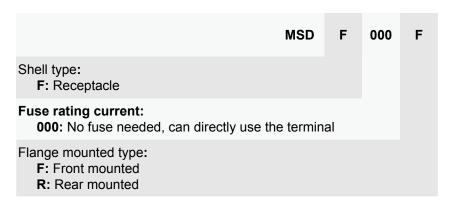




HOW TO ORDER - EXCEL|MATE MSD

Plug





EXCEL|MATE MSD V - TECHNICAL CHARACTERISTICS



MSD V is an upgraded version of the standard MSD.

It provides a rated voltage of 800V and a plug with integrated fuse. The other parameters remain unchanged.

KEY FEATURES

A two-stage lever provides an HVIL time delay

2 x integrated internal HVIL

Unique cooling structure

Dual-channel design lowers temperature rise

No tools required to unmate

Various fuse ratings

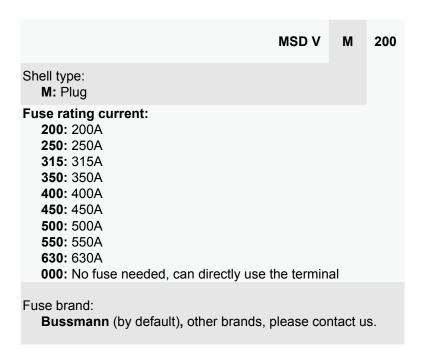
Receptacle can be front or rear mounted

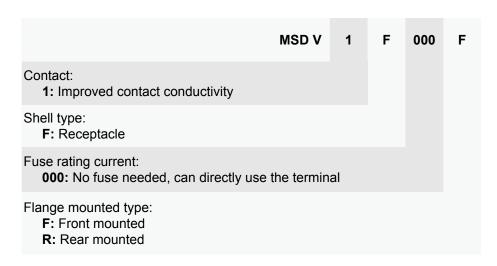
APPLICATION

It is a tool-free solution for disconnecting the internal high voltage battery pack and protecting it from short circuit.

MECHANICAL		
Mating cycles	≥ 50 cycles	
ELECTRICAL		
Fuse specification	up to 630A	
With fuse:		
Rated current	Current is approximately 1/3 the fuse rating	
Rated voltage	800V DC	
With shunt:		
Rated current	260A Max @ Ambient 70°C	
Rated voltage	1000V DC Max	
ENVIRONMENTAL		
Protection degree	IP67, IP6K9K (mated)	
Ambient temperature	-40°C to 70°C	
Storage temperature	-40°C to 85°C	
Operating temperature	-40°C to 125°C	
Flammability	UL94V0	
STANDARDS		
USCAR-2		
USCAR-37		
LV-215		
RoHS		

Plug





EXCEL|MATE MSD XL - TECHNICAL CHARACTERISTICS



APPLICATION

It is a tool-free solution for disconnecting the internal high voltage battery pack and protecting it from short circuit.

MECHANICAL

Mating cycles	≥ 500 cycles	
ELECTRICAL		
Fuse specification	up to 630A	
With fuse:		
Rated current	300A Max	
Rated voltage	1000V DC	
With shunt:		
Rated current	300A	
Rated voltage	1500V DC Max	

ENVIRONMENTAL		
Protection degree	IP67, IP6K9K (mated)	
Ambient temperature	-40°C to 70°C	
Storage temperature	-40°C to 85°C	
Operating temperature	-40°C to 125°C	
Flammability	UL94V0	
STANDARDS		
USCAR-2		
USCAR-37		
LV-215		
RoHS		

KEY FEATURES

1 x integrated internal HVIL

Unique cooling structure

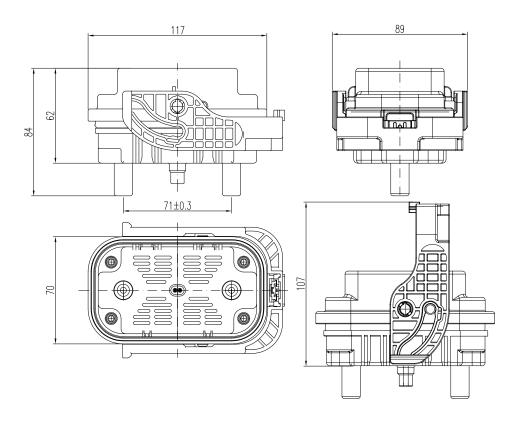
High current contacts with Amphenol Radsok technology

No tools required to unmate

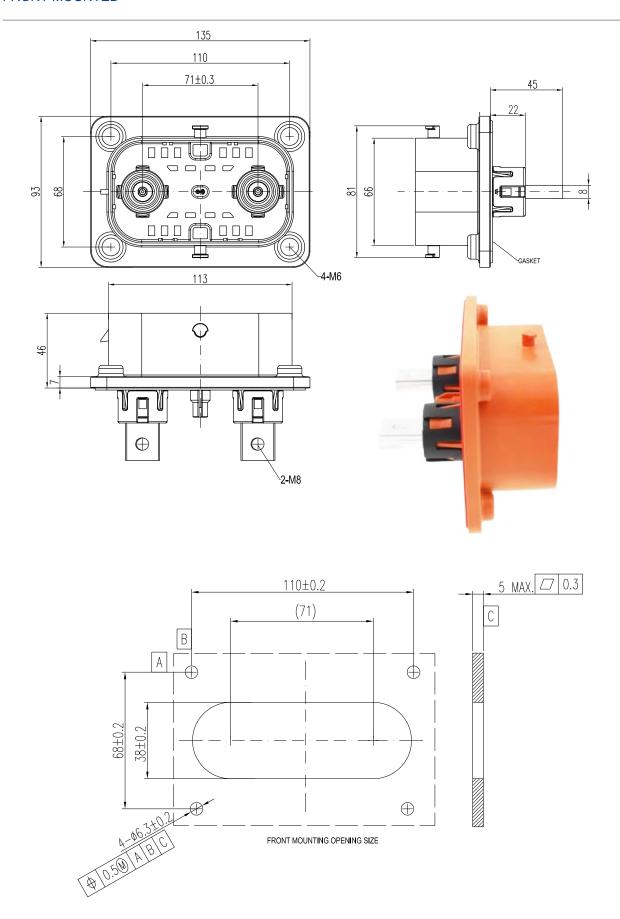
Various fuse ratings

Receptacle can be front or rear mounted

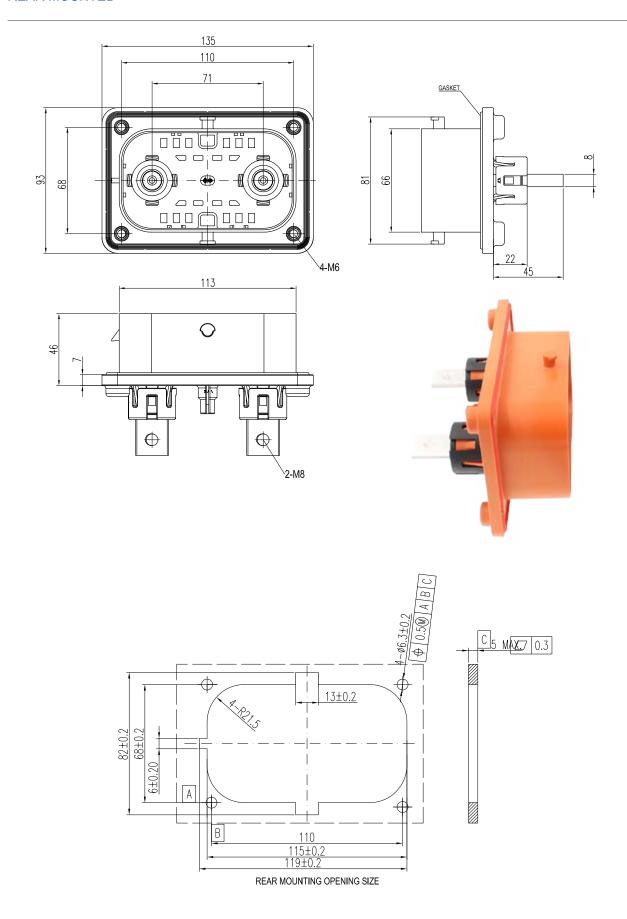
PRODUCT DIMENSIONS



FRONT MOUNTED

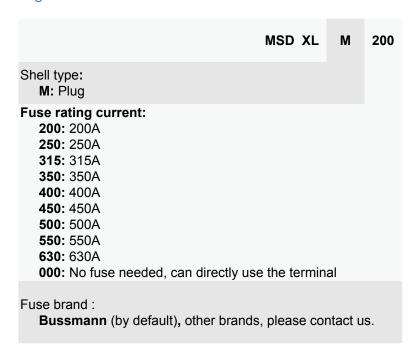


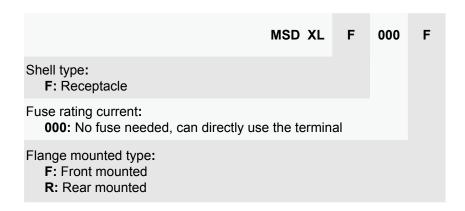
REAR MOUNTED



HOW TO ORDER - EXCEL|MATE MSD XL

Plug





EXCELIMATE MINI MSD



Amphenol PCD MINI Manual Service Disconnect

Mini MSD has been developped from the standard MSD.Smaller in size and lower in cost, it offers a more compact solution.

Available in a scalable design with a variety of fuse ratings.



KEY FEATURES

A two-stage lever provides an HVIL time delay

1 x integrated internal HVIL

Unique cooling structure

Dual-channel design lowers temperature rise

No tools required to unmate

Various fuse ratings

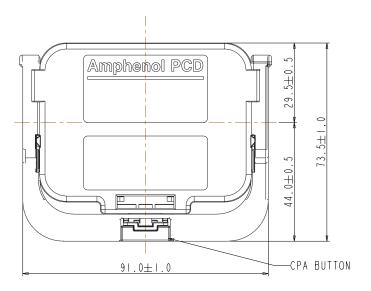
Receptacle can be front or rear mounted

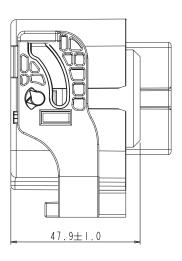
APPLICATION

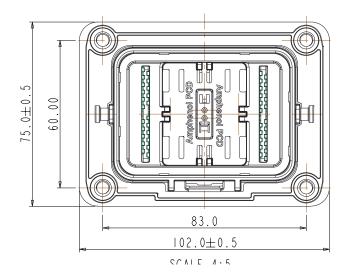
It is a tool-free solution for disconnecting the internal high voltage battery pack and protecting it from short circuit.

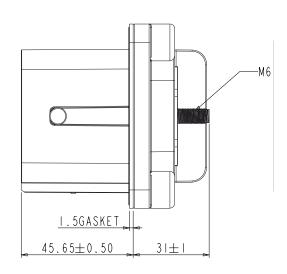
on our.	
MECHANICAL	
Mating cycles	≥ 50 cycles
ELECTRICAL	
Fuse specification	up to 400A
With fuse:	
Rated current	Current is approximately 1/3 the fuse rating (170A Max)
Rated voltage	750V DC
With shunt:	
Rated current	170A Max
Rated voltage	1500V DC Max
ENV	VIRONMENTAL
Protection degree	IP67, IP6K9K (mated)
Ambient temperature	-40°C to 70°C
Storage temperature	-40°C to 85°C
Operating temperature	-40°C to 125°C
Flammability	UL94V0
STANDARDS	
USCAR-2	
USCAR-37	
LV-215	
RoHS	

PRODUCT DIMENSIONS

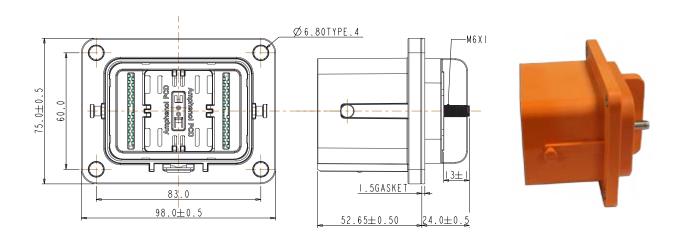




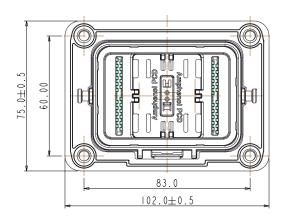


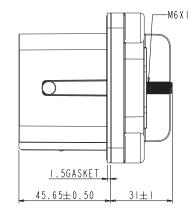


FRONT MOUNTED



REAR MOUNTED





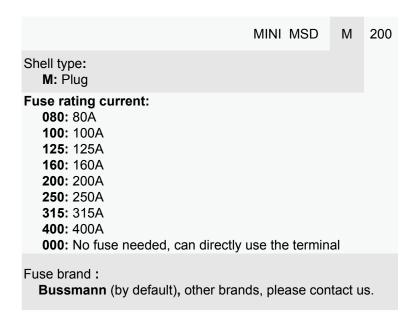


DUST CAP AVAILABLE: P/N: C270006809





Plug







APPLICATION

It is a tool-free solution for disconnecting the internal high voltage battery pack and protecting it from short

circuit.		
MECHANICAL		
Mating cycles	≥ 50 cycles	
ELECTRICAL		
Fuse specification	up to 400A	
With fuse:		
Rated current	Current is approximately 1/3 the fuse rating (220A Max)	
Rated voltage	750V DC	
With shunt:		
Rated current	220A Max	
Rated voltage	1500V DC Max	
ENVIRONMENTAL		
Protection degree	IP67, IP6K9K (mated)	
Ambient temperature	-40°C to 70°C	
Storage temperature	-40°C to 85°C	
Operating temperature	-40°C to 125°C	
Flammability	UL94V0	
STANDARDS		
USCAR-2		
USCAR-37		

KEY FEATURES

A two-stage lever provides an HVIL time delay

1 x integrated internal HVIL

Unique cooling structure

Dual-channel design lowers temperature rise

No tools required to unmate

Various fuse ratings

Receptacle can be front or rear mounted

LV-215

RoHS

HOW TO ORDER - EXCELIMATE MINI MSD V

Plug: With fuse

Shell type:
 M: Plug

Fuse rating current:
 0802: 80A
 1002: 100A
 1252: 125A
 1602: 160A
 2002: 200A
 2502: 250A
 3152: 315A
 4002: 400A

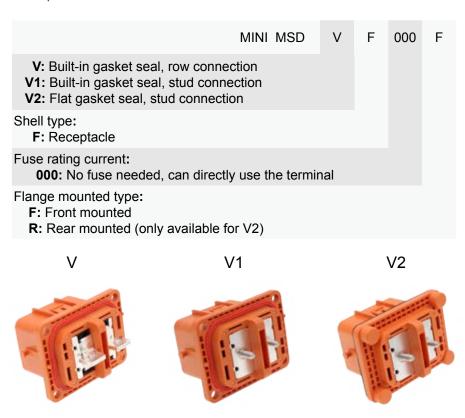
Fuse brand:
 Bussmann (by default), other brands, please contact us.

Plug: With shunt

MINI MSD VM 000

Shell type:
VM: Plug, shunt

000: No fuse needed, can directly use the terminal





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Notes:

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Amphenol PCD Shenzhen reserves the right to clarify this catalog.