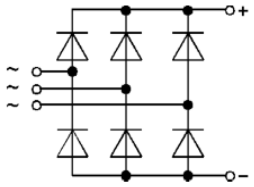
Three Phase Bridge Rectifier, 200 Amps

Features

- Easy connections
- Excellent power volume ratio
- Insulated type



MDS



Voltage Ratings (T_J = 25°C unless otherwise noted)				
Type number	**Voltage code**	**V_{RRM}, Max. repetitive peak reverse voltage (V)**	**V_{RSM}, Max. non-repetitive peak reverse voltage (V)**	**I_{RRM} max @ T_J max (mA)**
MDS200	80	800	900	15
	100	1000	1100	
	120	1200	1300	
	140	1400	1500	
	160	1600	1700	

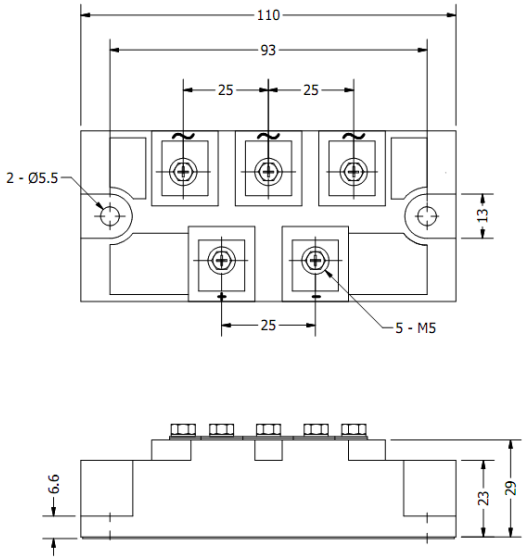
Electrical Specifications (T_J = 25°C unless otherwise noted)				
Parameters	**Conditions**	**Symbol**	**Values**	**Units**
Maximum DC output current	T_C = 85°C	I_{DC}	200	A
Forward surge current (non-repetitive), one cycle	f = 50 Hz	I_{FSM}	1800	A
Fusing current		I^2t	16200	A^2s
Maximum forward voltage drop	I_{FM} = 200A, T_J = 25 °C	V_{FM}	1.4	V
RMS isolation voltage		V_{ISO}	3000	V

Thermal and Mechanical Specifications (T_J = 25°C unless otherwise noted)				
Parameters		**Symbol**	**Values**	**Units**
Maximum operating junction temperature range		T_J	- 40 to + 125	°C
Maximum storage temperature range		T_{STG}	- 40 to + 125	°C
Maximum thermal resistance, junction to case		$R_{th(J-C)}$	0.10	°C/W
Mounting torque	to heatsink	F	4 ± 15%	Nm
	to terminal		4 ± 15%	
Approximate weight	Package – E	W	340	g
	Package – F		460	
	Package – S		295	

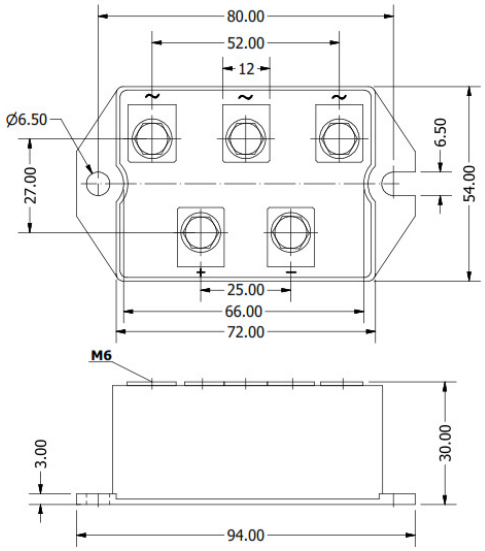
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sales@nainasemi.com • www.nainasemi.com

Package Outline

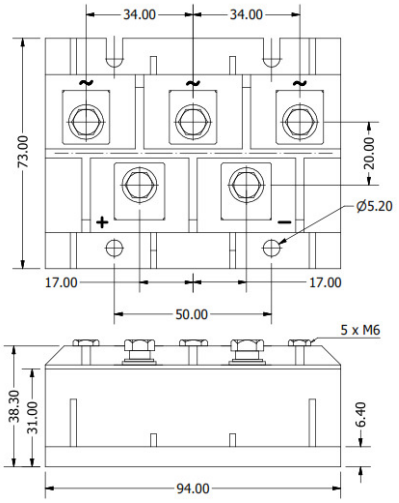
(All dimensions in mm)



Package Type	E



Package Type	S



Package Type	F

Ordering Table

MDS	*200*	*/*	*120*
1	2		3

1 – Three-Phase Bridge

2 – Current = I_D

3 – Voltage Code x 10 = V_{RRM} (See Voltage Ratings Table)

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