



MD160S-M5

Glass Passivated Three Phase Rectifier Bridge

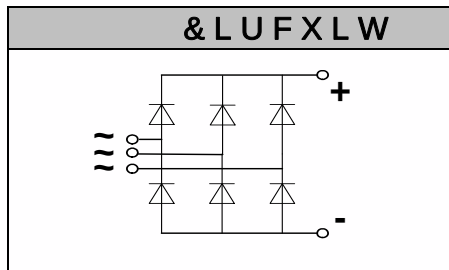
V_{RRM} 800 to 1800V
I_D 160 A

Applications

- Three phase rectifiers for power supplies
- Rectifiers for DC motor field supplies
- Battery charger rectifiers
- Input rectifiers for variable frequency drives

Features

- Three phase bridge rectifier
- Blocking voltage: 800 to 1800V
- Heat transfer through aluminum oxide DBC ceramic isolated metal baseplate
- Glass passivated chip
- UL recognized applied for file no. E360040



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Maximum Ratings

Symbol	Conditions	Values	Units
I _D	Three phase, full wave $f_c=100$	160	A
I _{FSM}	$t=10\text{ms}$ $T_{vj}=45$	1800	A
I^2t	$t=10\text{ms}$ $T_{vj}=45$	16200	A ² s
V _{isol}	a.c. 50Hz; r.m.s.; 1min	3000	V
T _{vj}		-40 to +150	
T _{stg}		-40 to +125	
M _t	To terminals (M6)	5–15%	Nm
M _s	To heatsink (M6)	5–15%	Nm
Weight	Module (Approximately)	194	g

Thermal Characteristics

Symbol	Conditions	Values	Units
R _{th(j-c)}	Per diode	0.65	/W
R _{th(c-s)}	Module	0.03	/W

Electrical Characteristics

Symbol	Conditions	Values			Units
		Min.	Typ.	Max.	
V _{FM}	T=25 I _F =300A	É	1.50	1.75	V
I _{RD}	T _{vj} =25 V _{RD} =V _{RRM} T _{vj} =150 V _{RD} =V _{RRM}	É	É	0.5 6	mA mA



Performance Curves

