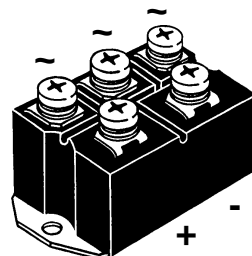
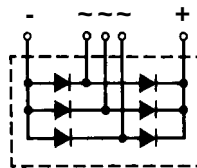


Three Phase Rectifier Bridges

VUO 82 $I_{dAV} = 88 \text{ A}$
 $V_{RRM} = 800 - 1800 \text{ V}$

V_{RSM}	V_{RRM}	Type
V	V	
800	800	VUO 82-08NO7
1200	1200	VUO 82-12NO7
1400	1400	VUO 82-14NO7
1600	1600	VUO 82-16NO7
1800	1800	VUO 82-18NO7*

* delivery time on request



Symbol	Test Conditions		Maximum Ratings	
I _{dAV}	T _C = 110°C, module		88	A
I _{dAV}	T _A = 45°C (R _{thCA} = 0.6 K/W), module		57	A
I _{FSM}	T _{VJ} = 45°C;	t = 10 ms (50 Hz), sine	750	A
	V _R = 0	t = 8.3 ms (60 Hz), sine	820	A
	T _{VJ} = T _{VJM}	t = 10 ms (50 Hz), sine	670	A
	V _R = 0	t = 8.3 ms (60 Hz), sine	740	A
∫i ² dt	T _{VJ} = 45°C	t = 10 ms (50 Hz), sine	2800	A ² s
	V _R = 0	t = 8.3 ms (60 Hz), sine	2800	A ² s
	T _{VJ} = T _{VJM}	t = 10 ms (50 Hz), sine	2250	A ² s
	V _R = 0	t = 8.3 ms (60 Hz), sine	2250	A ² s
T _{VJ}			-40...+150	°C
T _{VJM}			150	°C
T _{stg}			-40...+125	°C
V _{ISOL}	50/60 Hz, RMS	t = 1 min	2500	V~
	I _{ISOL} ≤ 1 mA	t = 1 s	3000	V~
M _d	Mounting torque (M5)		5 ± 15 %	Nm
	Terminal connection torque (M5)		5 ± 15 %	Nm
Weight	typ.		160	g

Symbol	Test Conditions	Characteristic Values			
I_R	$V_R = V_{RRM}$;	$T_{VJ} = 25^{\circ}\text{C}$	$\leq$	0.3	mA
	$V_R = V_{RRM}$;	$T_{VJ} = T_{VJM}$	$\leq$	5	mA
V_F	$I_F = 150\text{ A}$;	$T_{VJ} = 25^{\circ}\text{C}$	$\leq$	1.6	V
V_{T0}	For power-loss calculations only			0.8	V
r_T	$T_{VJ} = T_{VJM}$			5	mΩ
R_{thJC}	per diode; DC current			1.1	K/W
	per module			0.183	K/W
R_{thJK}	per diode; DC current			1.52	K/W
	per module			0.253	K/W
d_S	Creeping distance on surface			10	mm
d_A	Creepage distance in air			9.4	mm
a	Max. allowable acceleration			50	m/s ²

Data according to DIN/IEC 747 and refer to a single diode unless otherwise stated.
 IXYS reserves the right to change limits, test conditions and dimensions.

Features

- Package with screw terminals
- Isolation voltage 3000 V~
- Planar passivated chips
- Blocking voltage up to 1800 V
- Low forward voltage drop
- UL applied

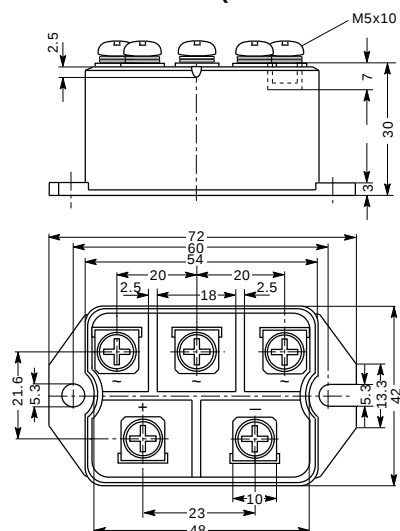
Applications

- Supplies for DC power equipment
- Input rectifiers for PWM inverter
- Battery DC power supplies
- Field supply for DC motors

Advantages

- Easy to mount with two screws
- Space and weight savings
- Improved temperature and power cycling

Dimensions in mm (1 mm = 0.0394")



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