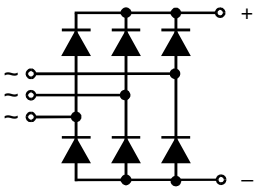
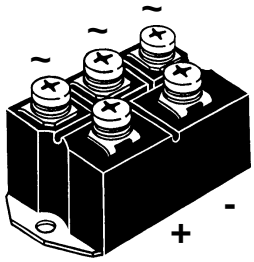
Three Phase Rectifier Bridge

I_{dAV} = 63/88 A
V_{RRM} = 800-1800 V

V_{RSM} V	V_{RRM} V	Type	
600	600	VUO 62-06NO7	VUO 82-06NO7
800	800	VUO 62-08NO7	VUO 82-08NO7
1200	1200	VUO 62-12NO7	VUO 82-12NO7
1400	1400	VUO 62-14NO7	VUO 82-14NO7
1600	1600	VUO 62-16NO7	VUO 82-16NO7
1800	1800	VUO 62-18NO7*	VUO 82-18NO7*



* delivery time on request



Symbol	Test Conditions		Maximum Ratings VUO 62	VUO 82	
I_{dAV}	T_C = 110°C, module		63	88	A
I_{dAV}	T_A = 45°C (R_{thCA} = 0.6 K/W), module		48	57	A
I_{FSM}	T_{VJ} = 45°C;	t = 10 ms (50 Hz), sine	550	750	A
	V_R = 0	t = 8.3 ms (60 Hz), sine	600	820	A
	T_{VJ} = T_{VJM}	t = 10 ms (50 Hz), sine	500	670	A
	V_R = 0	t = 8.3 ms (60 Hz), sine	550	740	A
I^2t	T_{VJ} = 45°C	t = 10 ms (50 Hz), sine	1520	2800	A^2s
	V_R = 0	t = 8.3 ms (60 Hz), sine	1520	2800	A^2s
	T_{VJ} = T_{VJM}	t = 10 ms (50 Hz), sine	1250	2250	A^2s
	V_R = 0	t = 8.3 ms (60 Hz), sine	1250	2250	A^2s
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 VUO 62	VUO 82	
I_R	V_R = V_{RRM}; T_{VJ} = 25°C	≤	0.3	0.3	mA
	V_R = V_{RRM}; T_{VJ} = T_{VJM}	≤	5	5	mA
V_F	I_F = 150 A; T_{VJ} = 25°C	≤	1.8	1.6	V
V_{T0}	For power-loss calculations only		0.8	0.8	V
r_T			8	5	mΩ
R_{thJC}	per diode		1.45	1.1	K/W
	per module		0.24	0.183	K/W
R_{thJH}	per diode		1.87	1.52	K/W
	per module		0.31	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 IEC 60747 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 registered E72873

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")