

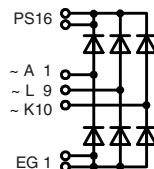
# Three Phase Rectifier Bridge

## in ECO-PAC 2

$I_{dAV} = 117 \text{ A}$   
 $V_{RRM} = 800-1800 \text{ V}$

Preliminary data

$V_{RSM}$ V	$V_{RRM}$ V	Types
900	800	VUO 122-08NO7
1300	1200	VUO 122-12NO7
1500	1400	VUO 122-14NO7
1700	1600	VUO 122-16NO7
1900	1800	VUO 122-18NO7



Pin arrangement see outlines

**B3**

Symbol	Conditions	Maximum Ratings
$I_{dAV}$ ①	$T_C = 100^\circ\text{C}$ , module	117 A
$I_{FSM}$	$T_{VJ} = 45^\circ\text{C}$ ; $V_R = 0$	t = 10 ms (50 Hz), sine 900 A t = 8.3 ms (60 Hz), sine 990 A
	$T_{VJ} = T_{VJM}$ $V_R = 0$	t = 10 ms (50 Hz), sine 770 A t = 8.3 ms (60 Hz), sine 850 A
$I^2t$	$T_{VJ} = 45^\circ\text{C}$ $V_R = 0$	t = 10 ms (50 Hz), sine 4050 A <sup>2</sup> s t = 8.3 ms (60 Hz), sine 4050 A <sup>2</sup> s
	$T_{VJ} = T_{VJM}$ $V_R = 0$	t = 10 ms (50 Hz), sine 2950 A <sup>2</sup> s t = 8.3 ms (60 Hz), sine 2950 A <sup>2</sup> 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~
	$I_{ISOL} \leq 1 \text{ mA}$ t = 1 s	3000 V~
$M_d$	Mounting torque (M4)	1.5 - 2 Nm
Weight	typ.	22 g

### Features

- Package with DCB ceramic base plate
- Isolation voltage 3000 V~
- Planar passivated chips
- Low forward voltage drop
- Leads suitable for PC board soldering

### Applications

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

### Advantages

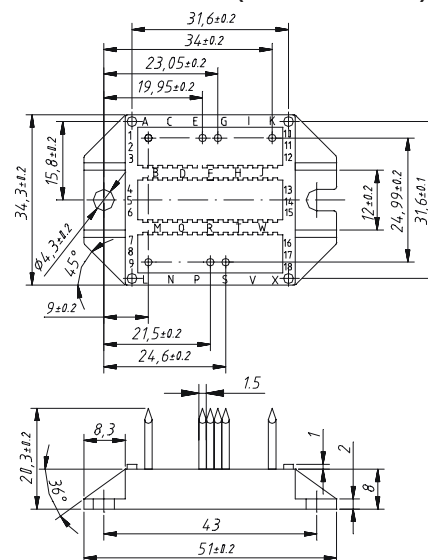
- Easy to mount with two screws
- Space and weight savings
- Improved temperature and power cycling capability
- Small and light weight

Symbol	Conditions	Characteristic Values
$I_R$	$V_R = V_{RRM}$ ; $T_{VJ} = 25^\circ\text{C}$	$\leq 0.5 \text{ mA}$
	$V_R = V_{RRM}$ ; $T_{VJ} = T_{VJM}$	$\leq 5 \text{ mA}$
$V_F$	$I_F = 200 \text{ A}$ ; $T_{VJ} = 25^\circ\text{C}$	$\leq 1.75 \text{ V}$
$V_{T0}$	For power-loss calculations only	0.8 V
$r_T$		4 mΩ
$R_{thJC}$	per diode; DC current	0.85 K/W
	per module	0.142 K/W
$R_{thJH}$	per diode, DC current (typ.)	1.15 K/W
	per module (typ.)	0.192 K/W
$d_s$	Creeping distance on surface	11.2 mm
$d_A$	Creepage distance in air	9.7 mm
$a$	Max. allowable acceleration	50 m/s <sup>2</sup>

Data according to IEC 60747 refer to a single diode unless otherwise stated

① for resistive load at bridge output.

### Dimensions in mm (1 mm = 0.0394")



IXYS reserves the right to change limits, test conditions and dimensions.