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VUO122-18NO7

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EIS electronic components
Distributor of IXYS Corporation: Excellent Integrated System Limited
Datasheet of VUO122-18NO7 - RECT BRIDGE 3PH 1800V ECO-PAC2
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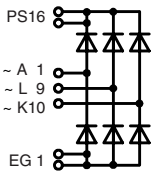
IXYS **VUO 122**

Three Phase Rectifier Bridge
in ECO-PAC 2

I_{dAV} = 117 A
V_{RRM} = 800-1800 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 arangement see outlines

Symbol	Conditions		Maximum Ratings	
I_{dAV} ①	T_C = 100°C, module		117	A
I_{FSM}	T_{VJ} = 45°C;	t = 10 ms (50 Hz), sine	900	A
	V_R = 0	t = 8.3 ms (60 Hz), sine	990	A
	T_{VJ} = T_{VJM}	t = 10 ms (50 Hz), sine	770	A
	V_R = 0	t = 8.3 ms (60 Hz), sine	850	A
I^2t	T_{VJ} = 45°C	t = 10 ms (50 Hz), sine	4050	A^2s
	V_R = 0	t = 8.3 ms (60 Hz), sine	4050	A^2s
	T_{VJ} = T_{VJM}	t = 10 ms (50 Hz), sine	2950	A^2s
	V_R = 0	t = 8.3 ms (60 Hz), sine	2950	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 (M4)		1.5 - 2	Nm
Weight	typ.		22	g

Symbol	Conditions		Characteristic Values		
I_R	V_R = V_{RRM};	T_{VJ} = 25°C	≤	0.5	mA
	V_R = V_{RRM};	T_{VJ} = T_{VJM}	≤	5	mA
V_F	I_F = 200 A;	T_{VJ} = 25°C	≤	1.75	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^2

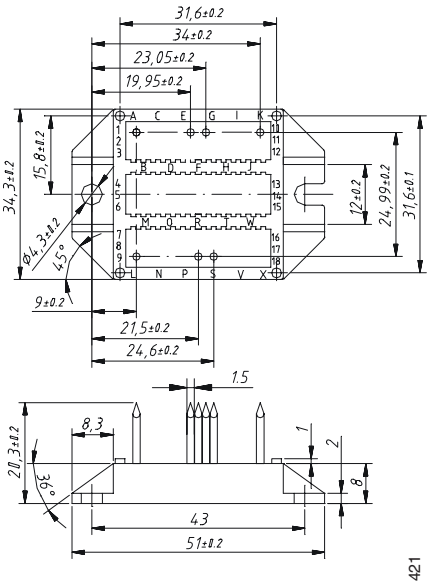
Data according to IEC 60747 refer to a single diode unless otherwise stated
① for resistive load at bridge output.

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

Dimensions in mm (1 mm = 0.0394")



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

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