# **Board 4S SKYPER 32 R Gold**



### Adaptor board

Order Nr. L5063001

#### **Board 4S SKYPER 32 R Gold**

#### **Features**

- Two output channels
- · Gold nickel finish
- · Failure management

#### Typical Applications\*

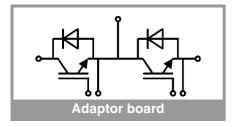
- Adaptor board for SKYPER 32 IGBT drivers in bridge circuits for industrial applications
- · PCB with gold plating
- DC bus up to 1000V

#### **Remarks**

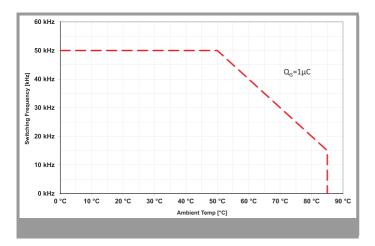
- With external high voltage diode
- Please Note: the insulation test is not performed as a series test at SEMIKRON and must be performed by the user
- According to VDE 0110-20
- Output charge can be expanded to 6,3µQ with boost capacitors
- Insulation coordination in compliance with EN50178 PD2
- Operating temperature is real ambient temperature around the driver core
- Degree of protection: IP00

Absolute Maximum Ratings						
Symbol	Conditions	Values	Unit			
Vs	Supply voltage primary	16	V			
Iout <sub>PEAK</sub>	Output peak current	15	Α			
Iout <sub>AVmax</sub>	Output average current	50	mA			
f <sub>max</sub>	Max. switching frequency	50	kHz			
V <sub>CE</sub>	Collector emitter voltage sense across the IGBT	1700	V			
V <sub>isol IO</sub>	Insulation test voltage input - output (AC, rms, 2s)	4000	V			
V <sub>isolPD</sub>	Partial discharge extinction voltage, rms, Q <sub>PD</sub> ≤ 10pC	1200	V			
V <sub>isol12</sub>	Insulation test voltage output 1 - output 2 (AC, rms, 2s)	1500	V			
R <sub>Gon min</sub>	Minimum rating for external R <sub>Gon</sub>	1.5	Ω			
R <sub>Goff min</sub>	Minimum rating for external R <sub>Goff</sub>	1.5	Ω			
T <sub>op</sub>	Operating temperature	-40 85	°C			
T <sub>stg</sub>	Storage temperature	-40 85	°C			

Characteristics							
Symbol	Conditions	min.	typ.	max.	Unit		
V <sub>s</sub>	Supply voltage primary side	14.4	15	15.6	l v		
V <sub>i</sub>	Input signal voltage on / off		15/0		V		
V <sub>IT+</sub>	Input threshold voltage (HIGH)			12.3	٧		
V <sub>IT-</sub>	Input threshold voltage (LOW)	4.6			V		
$V_{G(on)}$	Turn on output voltage		15		V		
$V_{G(off)}$	Turn off output voltage		-7		V		
t <sub>d(on)IO</sub>	Input-output turn-on propagation time		1.1		μs		
t <sub>d(off)IO</sub>	Input-output turn-off propagation time		1.1		μs		



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This is an electrostatic discharge sensitive device (ESDS), international standard IEC 60747-1, chapter IX.

#### \*IMPORTANT INFORMATION AND WARNINGS

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