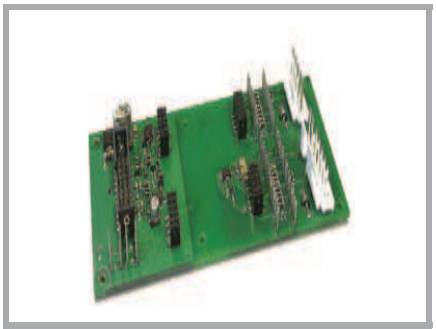
Board 1 SKYPER 32PRO R



SKYPER®

Adaptor board

Board 1 SKYPER 32PRO R

Preliminary Data

Features

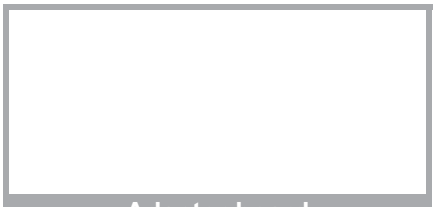
- Two output channels
- Failure management

Typical Applications*

- Adaptor board for SKYPER 32 IGBT drivers in bridge circuits for industrial applications
- DC bus up to 1200V

Footnotes

All characteristics listed in the data sheet are guilty for the use with SKYPER 32
Please consider the derating of the ambient temperature
Please refer to the datasheet of SKYPER 32 for further information



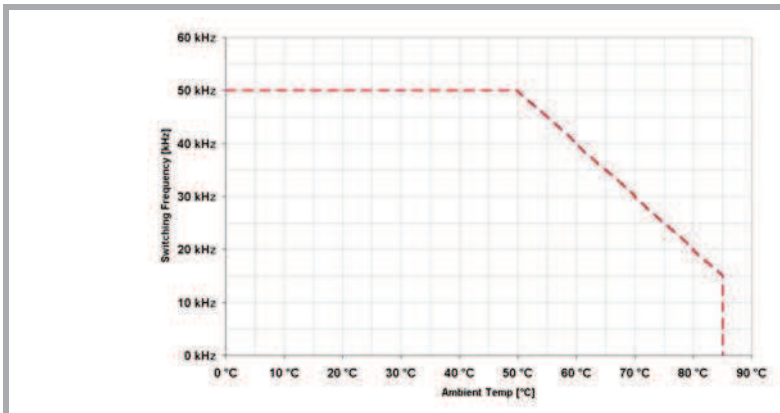
Adaptor board

Absolute Maximum Ratings

Symbol	Conditions	Values	Unit
Vs	Supply voltage primary	16	V
$Iout_{PEAK}$	Output peak current	15	A
$Iout_{AVmax}$	Output average current	50	mA
f_{max}	max. switching frequency	50	kHz
V_{CE}	Collector emitter voltage sense across the IGBT	1700	V
$V_{isol\ IO}$	Isolation test voltage input - output (AC, rms, 2s)	4000	V
V_{isolPD}	Partial discharge extinction voltage, rms, $Q_{PD} \leq 10pC$	1500	V
V_{isol12}	Isolation test voltage output 1 - output 2 (AC, rms, 2s)	1500	V
$R_{Gon\ min}$		1.5	Ω
$R_{Goff\ min}$	Minimum rating for external R_{Goff}	1.5	Ω
T_{op}	Operating temperature	-25 ... 85	°C
T_{stg}	Storage temperature	-25 ... 85	°C

Characteristics

Symbol	Conditions	min.	typ.	max.	Unit
Vs	Supply voltage primary side	14.4	15	15.6	V
V_j	input signal voltage on / off		15 / 0		V
V_{IT+}	Input treshold voltage HIGH			12.3	V
V_{IT-}	Input threshold voltage (LOW)	4.6			V
$V_{G(on)}$	Turn on gate voltage output		15		V
$V_{G(off)}$	Turn off gate voltage output		-7		V
$t_{d(on)IO}$	Input-output turn-on propagation time		1.2		µs
$t_{d(off)IO}$	Input-output turn-off propagation time		1.2		µs



Derating

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

* The specifications of our components may not be considered as an assurance of component characteristics. Components have to be tested for the respective application. Adjustments may be necessary. The use of SEMIKRON products in life support appliances and systems is subject to prior specification and written approval by SEMIKRON. We therefore strongly recommend prior consultation of our personal.