

DC / DC POWER SUPPLY with very high insulation voltage

# SW32 - 24D35U

$V_{in} = 24 \text{ V}$   
 $V_{out} = 35 \text{ V}$   
 $V_{iso} = 32 \text{ kV}$   
 $P_{max} = 100 \text{ W}$

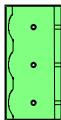
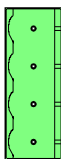
## APPLICATIONS

- Auxiliary power supply for high voltage power semiconductors (IGCTs from ABB)
- Serially connected high voltage power semiconductors
- DC and AC (65 kHz) Output voltage, Connector on the top of the device

## ELECTRICAL DATA

PARAMETER	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Input Voltage $V_{in}$	DC voltage	23	24	25	V
Output Voltage $V_{out}$	DC voltage, Load: 2 W to 80 W	28	35	40	V
Max. Output Power $P_{max}$	$V_{in} = 24\text{V}$	80	100		W
Input Power	$P_{out} = 80 \text{ W}$ , $V_{in} = 24\text{V}$		95	98	W
Insulation Voltage output to ground $V_{iso}$	50 Hz AC voltage, 30 s, without partial discharge ( $< 10\text{pC}$ )	30	32		kV
Insulation Capacitance	output to ground		20		pF
Max. dv/dt (Insulation)	ground connection at base plate			25	kV/ $\mu\text{s}$
Short Circuit Time	output shortened	1			min
Ambient temperature	max. load of 80W	-20		50	$^{\circ}\text{C}$
Storage temperature		-20		70	$^{\circ}\text{C}$

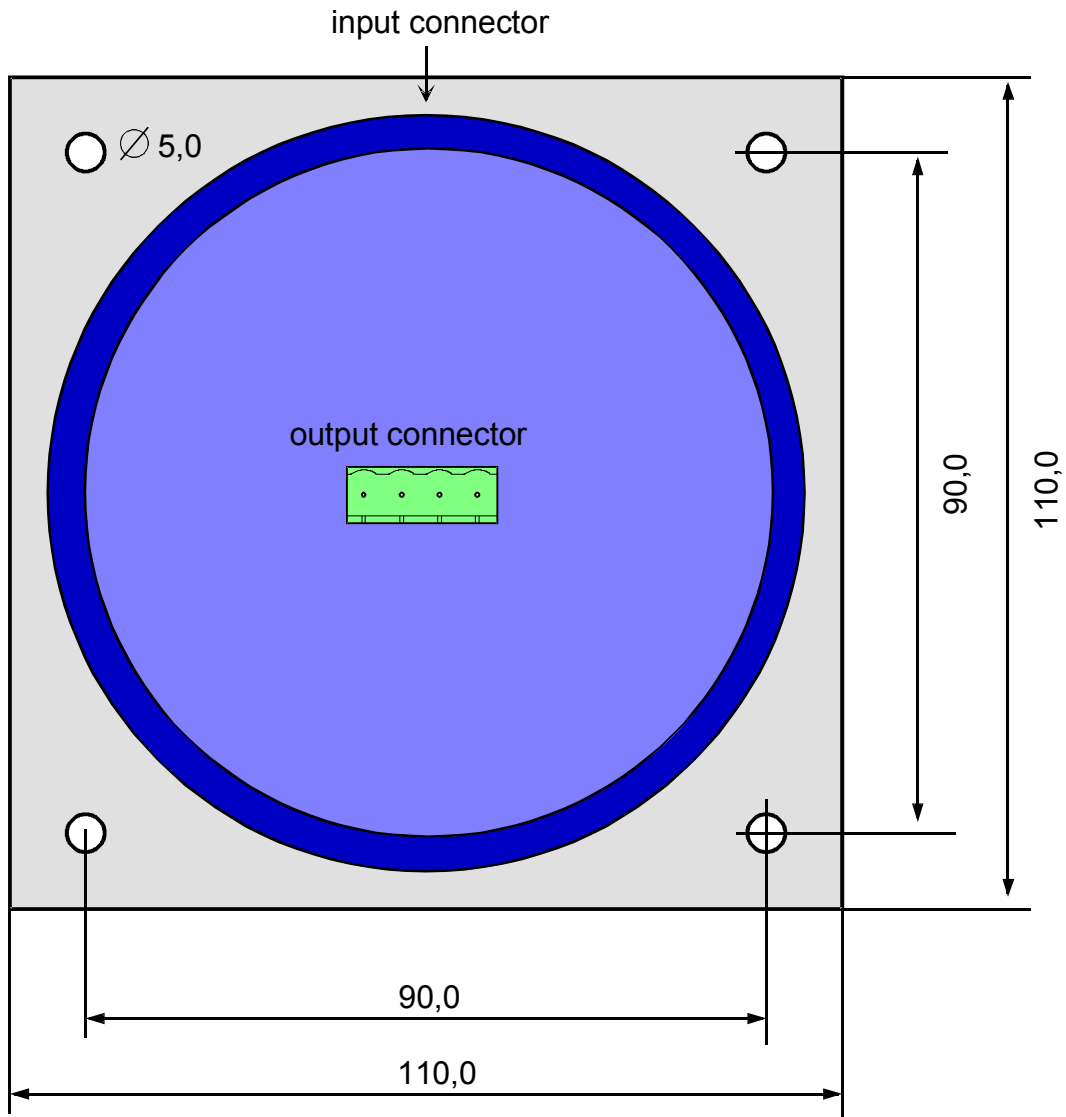
## CONNECTION DATA

Input Connector Phoenix 1926028		1 = Ground (earth) 2 = Input voltage + 3 = Input voltage -
Output Connector Phoenix 1755752		1 = AC Output voltage ~ 2 = DC Output voltage - 3 = DC Output voltage + 4 = AC Output voltage ~

## INSTALLATION INSTRUCTIONS

- It is important to make a low inductive ground (earth) connection.
- The environment must be clean and dry. Excessive temperature should be avoided.
- For supply of IGCT gate units the DC output has to be used.

## DIMENSIONS



PARAMETER	TYP	UNIT
Height	148	mm
Creepage distance output to input side (earth)	210	mm
Weight	1800	g

## IMPORTANT NOTICE

Siebel & Scholl GmbH reserves the right to change specifications without notice. Siebel & Scholl GmbH makes no warranty regarding the suitability of this product for any particular purpose. Mounting only by technical experts.

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03. 2011