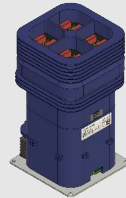


Quad AC / DC POWER SUPPLY
with very high insulation voltage

GIS80 - 24AD



$V_{in} = 230\text{ V}$
 $V_{out} = 24\text{ V}$
 $V_{iso} = 60\text{ kV}$
 $P_{max} = 400\text{ W}$



Datasheet Revision 5

28.05.2024

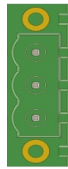
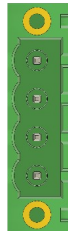
APPLICATIONS

- Auxiliary power supply for medium voltage applications on a 36kV system level.

ELECTRICAL DATA

PARAMETER	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Input Voltage V_{in}	AC voltage 50 / 60 Hz (or DC)	150	230	250	V
Output Voltage V_{out}	DC voltage, load 5...80 W	24		30	V
Max. Output Power P_{max1}	Power of one output channel	100		120	W
Continuous Power	Power of one output channel		100		W
Max. Output Power P_{max}	Power of all four channels together		400		W
Input current	with power factor correction		1.6	3.5	A
Insulation Voltage output to ground V_{iso}	50 Hz AC voltage, 60 sec, without partial discharge ($< 10\text{pC}$)	80			kV
		60	80		kV
Insulation Voltage output to output	50 Hz AC voltage, 60 sec, without partial discharge ($< 10\text{pC}$)		20		kV
			10		kV
Max. dv/dt (Insulation)	ground connection at base plate		100		kV/ μs
BIL voltage	1,2 μs / 50 μs lightning voltage impulse		230		kV
storage temperature		-30		70	$^{\circ}\text{C}$
ambient temperature		-20		60	$^{\circ}\text{C}$
Short Circuit Time				60	sec

CONNECTION DATA

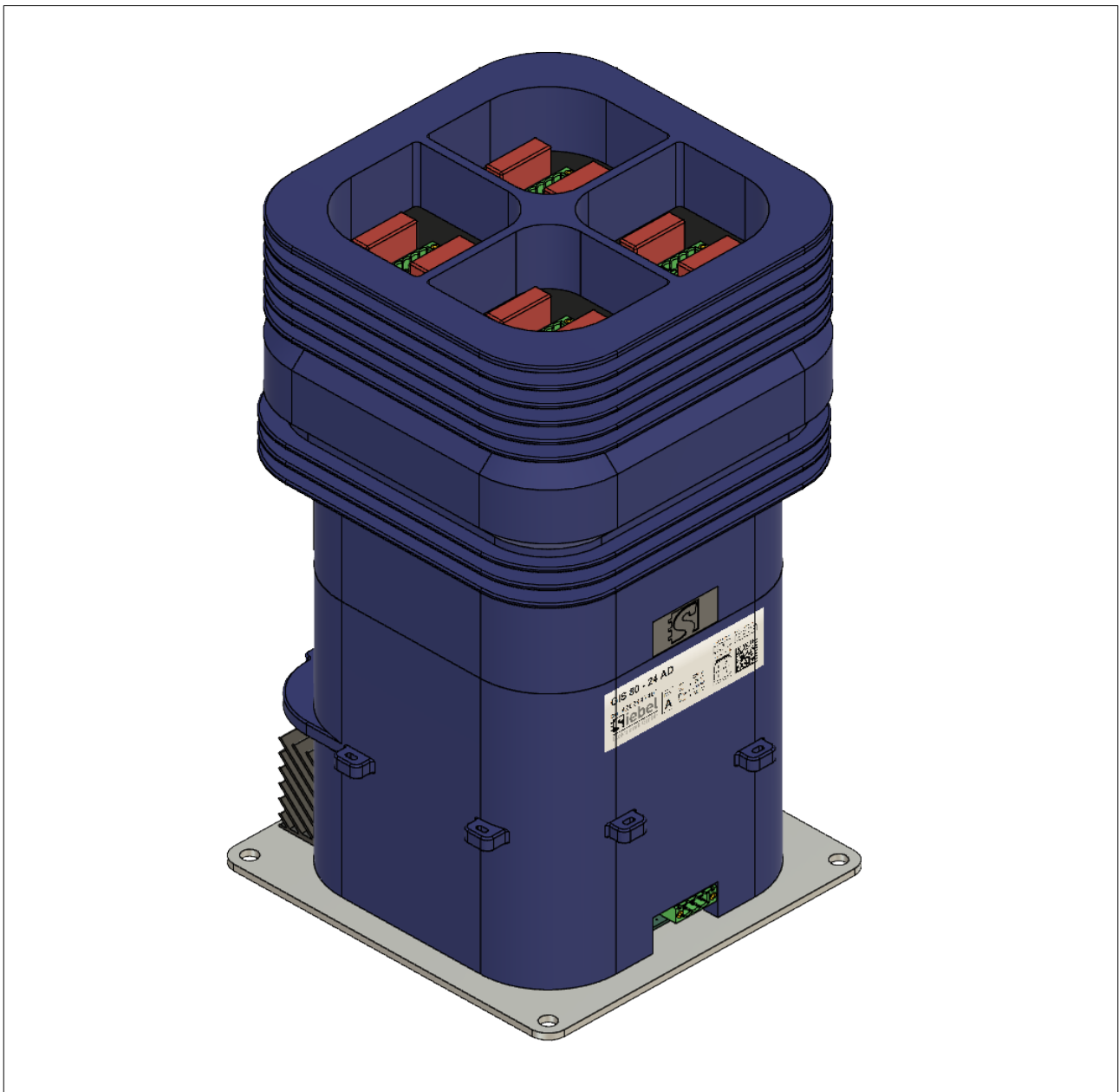
Input Connector Phoenix 1776511		<p>1 = PE (ground, earth) 2 = N (neutral) 3 = L (line, phase)</p>
Output Connector (4 x) Phoenix 1777099		<p>1 = AC1 (AC voltage 70 kHz) 2 = DC- (DC voltage negative) 3 = DC+ (DC voltage positive) 4 = AC1 (AC voltage 70 kHz)</p>

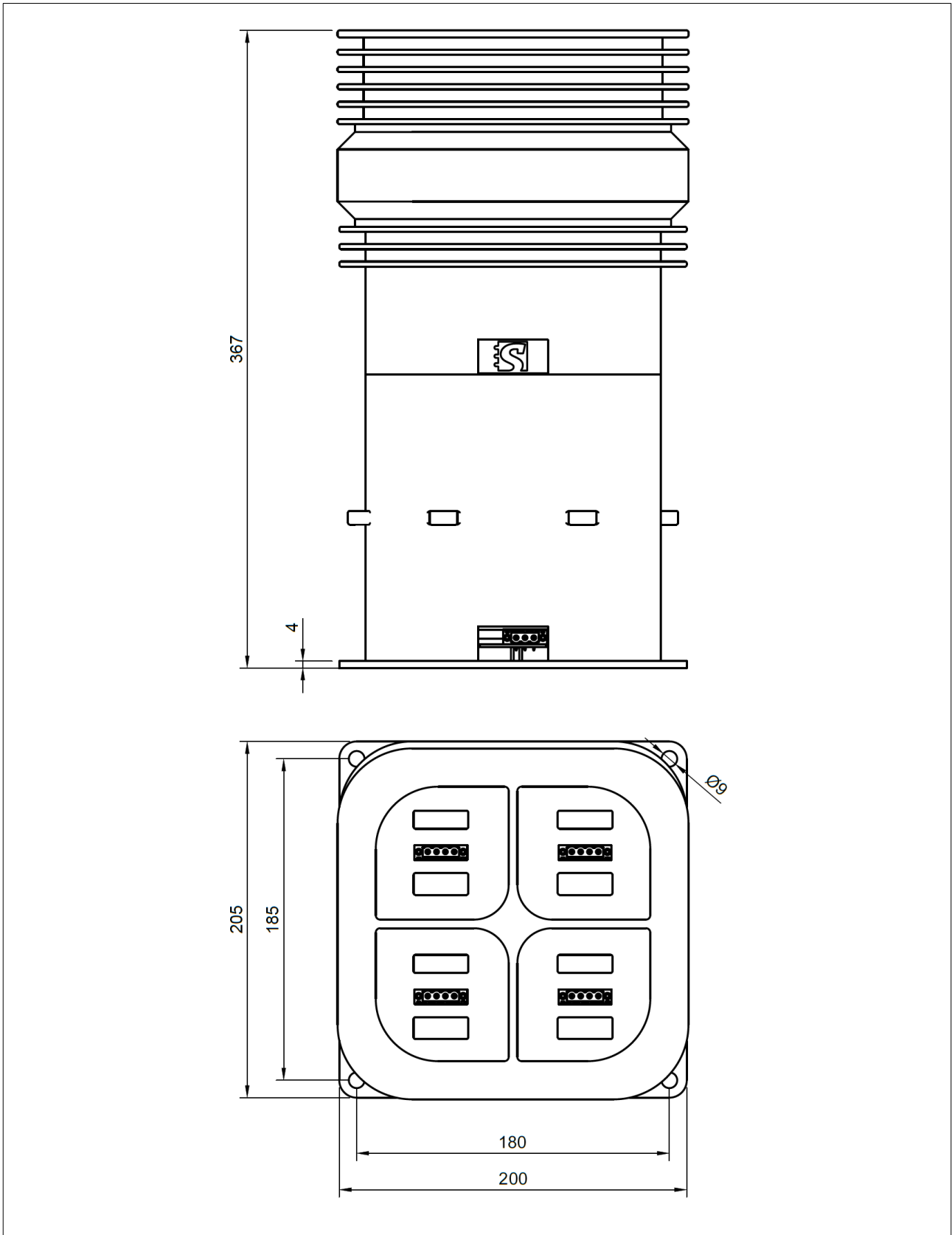
INSTALLATION INSTRUCTIONS

- It is important to establish a low inductive ground connection.
- The environment must be clean and dry. Excessive temperature should be avoided.

DIMENSIONS (typical)

PARAMETER		UNIT
Height	367	mm
Creepage distances output to input side	700	mm
Creepage distances output to output	110	mm
Clearance output to input side	380	mm
Weight	13000	g





IMPORTANT NOTICE

Siebel Elektronik GmbH reserves the right to change specifications without notice. Siebel Elektronik GmbH does not provide a guarantee regarding the suitability of this product for any particular purpose. Mounting only by technical experts.