

Thyristor/Diode Module stack

Electrical Characteristics						
Symbol	Conditions		min	typ	max	Unit
Electrical Data						
I_D	Maximum DC current	$T_{AMBIENT} = 35^{\circ}C$; No overload		970		A
V_{AC}	Maximum AC voltage (+/-10%)			500		V_{AC}
V_{BUS}	DC Bus voltage			670		V_{DC}
P_{TOTAL}	Maximum stack power			650		kW
P_{LOSS}	Stack power loss ($T_{AMBIENT} = 35^{\circ}C$)					W

Environmental Data						
Symbol	Conditions		min	typ	max	Unit
Mechanical Data						
Drawing	SEMIKRON document number.revision.version			12101502.00.B		-
Weight	Approximate total weight			24.0		kg
Altitude	Installation altitude without derating				1 000	m
Protection	IEC 60529			IP00		-
Pollution degree	EN 50178			2		-

Fan Data						
Symbol	Conditions		min	typ	max	Unit
Type	SEMIKRON fan designation			SKF 16A-230-11		-
V_{FAN}	Fan voltage			230		V_{AC}
f_{FAN}	Fan frequency			50/60		Hz
I_{FAN}	Fan maximum input current			0.60/0.68		A
P_{FAN}	Fan power			135/154		W

Stack Protection						
Symbol	Conditions		min	typ	max	Unit
RC Circuit						
Type	RC in parallel with each electrical switch			RC SMPK 5		-
R	Resistance (11W)			100		Ohm
C				0.22		μF

Fuses						
Symbol	Conditions		min	typ	max	Unit
Size	1 fuse per phase, with microswitches			33		-
$I_{N RMS}$	Caliber			1 250		A
U_N	Nominal voltage (IEC)			690		V
I^2t	Total at U_N at room temperature (approx. 20...25°C)				1 942.5	kA^2s

Bimetal Thermal Trip						
Symbol	Conditions		min	typ	max	Unit
T_S	Switching temperature over which thermal trip is open			100		$^{\circ}C$
$I_{TC MAX}$	Maximum permissible current			1		A
				3		A

SEMISTACK® CLASSICS - B6HK

Three phase half-controlled rectifier

Preliminary Data

Ordering No. 08800509
Description SKS 970F B6HK 650 V16 SU

Features

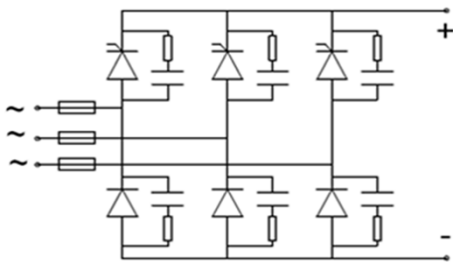
- Isolated power stacks
- SKKH 570/16
- Heatsink P16/300
- Forced air cooling
- RC circuit included
- Fuses with microswitches
- Thermal trip included

Typical Applications

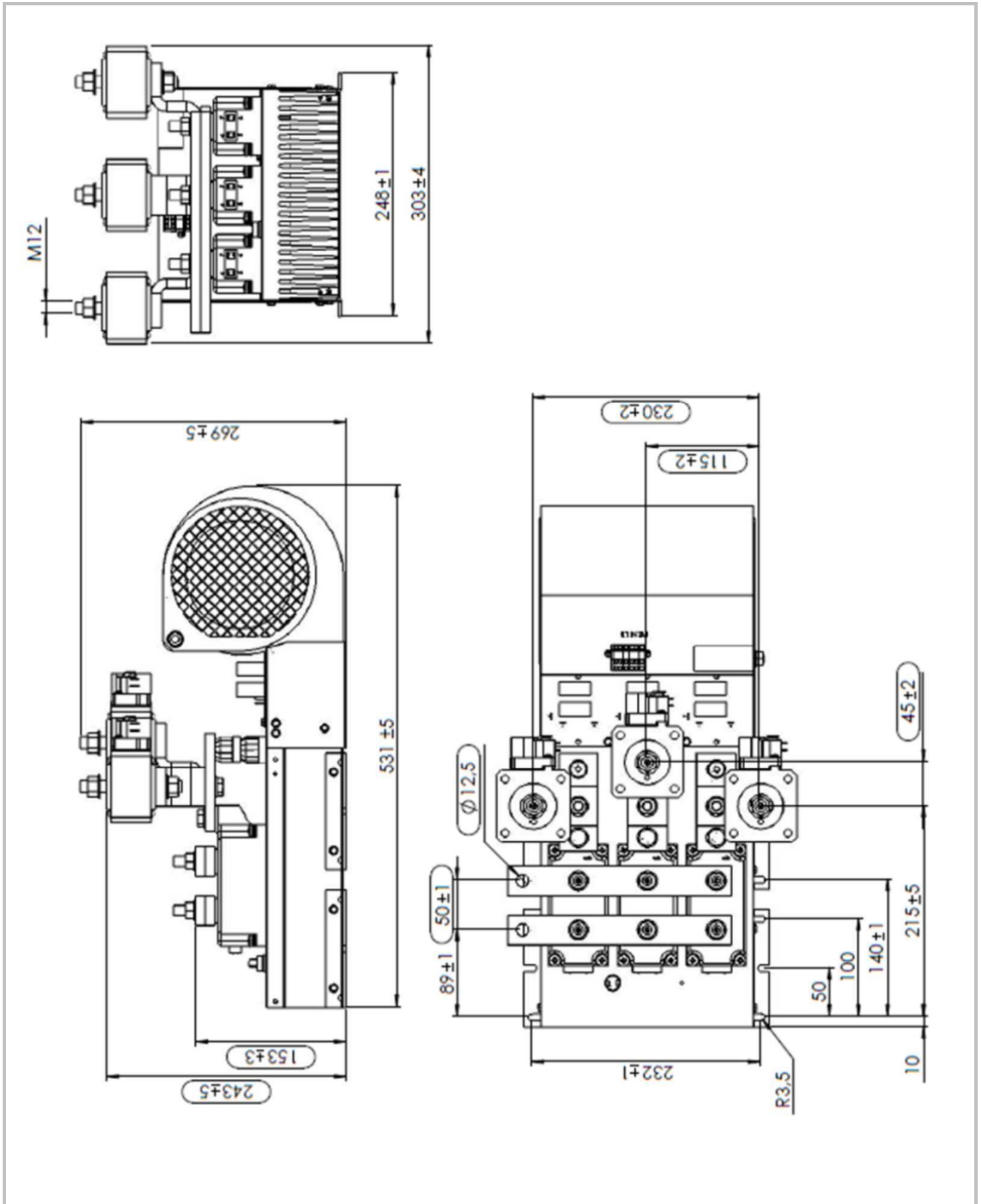
- Soft charge
- Industrial heating

Remarks

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Dimensions

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