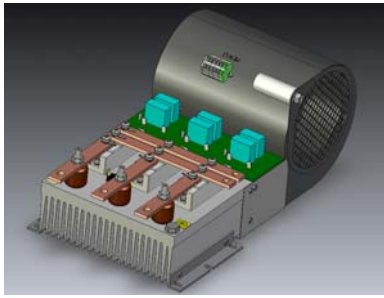


SKS 360F B6C 240 V16



SEMISTACK Thyristor

Three-phase controlled bridge rectifier

SKS 360F B6C 240 V16

Preliminary Data

Features

- P16/200F heatsink
- Isolated base modules
- Forced air cooled

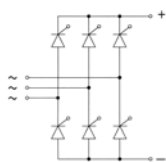
Typical Applications

- Industrial rectifiers
- Softstarters
- AC control
- DC motor control

Options

No. 08767220

Characteristics				
Symbol	Conditions	min.	typ.	max. Unit
Electrical Data				
I_d	no overload			360 A
	$T_{amb}=35^{\circ}\text{C}$			
	150 % overload, 60s every 10 min.		258	388 A
	200 % overload, 60s every 10 min.		217	435 A
V_{CES}				1200 V
V_{DC}	DC voltage applied to the capacitor bank			510 V
V_{AC}	network voltage (line side), -20% / +15%			380 V
V_{isol}	50 Hz / 1 min.		2500	V
i^2t	$T_{vj} = 25^{\circ}\text{C}$			145 kA^2s
	$T_{vj} = 125^{\circ}\text{C}$			125 kA^2s
$(di/dt)_{cr}$	$T_{vj} = 125^{\circ}\text{C}$			200 $\text{A}/\mu\text{s}$
$(dv/dt)_{cr}$				1000 $\text{V}/\mu\text{s}$
V_{GT}		2		V
I_{GT}		150		mA
P_{tot}	$T_{amb} = 35^{\circ}\text{C}$		1015	W
R_{thja}	per component		0.53	K/W
T_{vj}		- 40		125 $^{\circ}\text{C}$
Fuse	No fuse		-	A
RC	Resistance		33	Ω
RC	Capacitance		0.47	μF
Thermal trip	normally closed		75	$^{\circ}\text{C}$
Mechanical Data				
dv/dt_{AIR}	required airflow per fan			m^3/h
w	approx. total weight			kg
Size	Width x Depth x Height (with fan)	248	431	148 mm
T_{stg}		5		60 $^{\circ}\text{C}$
T_{amb}		5		60 $^{\circ}\text{C}$
Altitude	Installation height w/o derating			1000 m
Protection			IP00	
Pollution	EN 50178		2	
Fan Data				
Fan	included in the stack (YES)			
Type	SKF 16A-230-01			
V_{Fan}	Fan voltage		230	V
f_{FAN}	Fan frequency		50	Hz
I_{FAN}	Fan current		0,6	A
P_{FAN}	Fan power		135	W



B6C

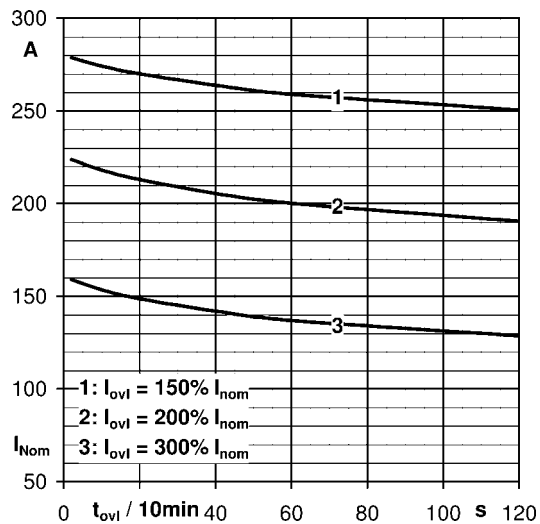


Fig. 1 Maximal overload factor vs nom current and ovl duration, $T_{amb} = 35^{\circ}\text{C}$

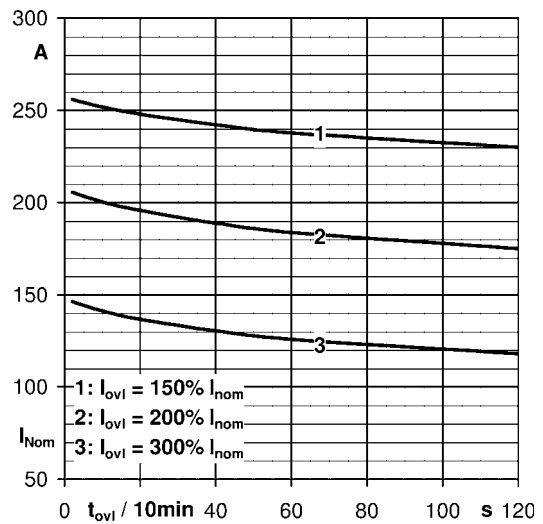


Fig. 2 Maximal overload factor vs nom current and ovl duration, $T_{amb} = 45^{\circ}\text{C}$

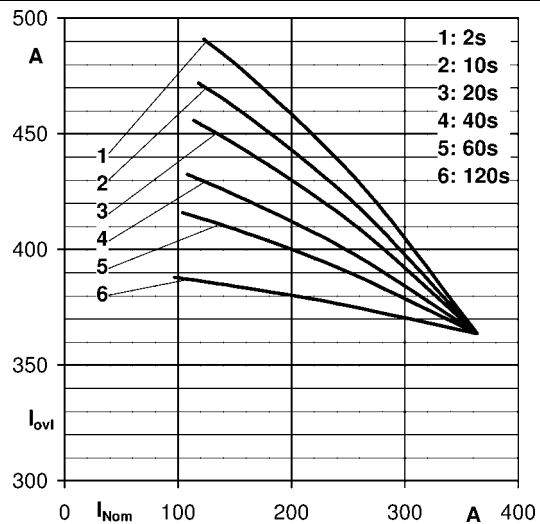


Fig. 3 Maximal overload duration vs nom current and ovl factor, $T_{amb} = 35^{\circ}\text{C}$

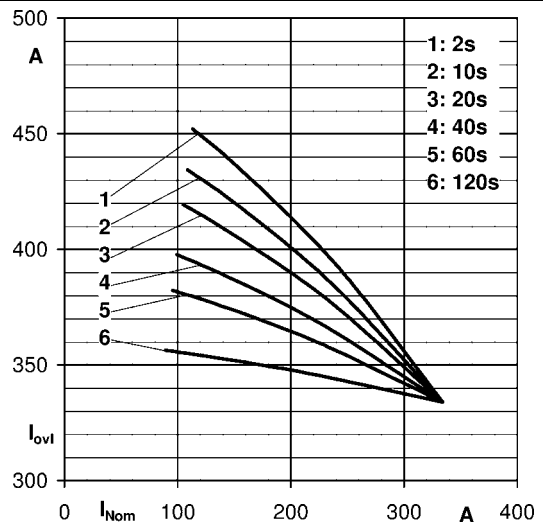


Fig. 4 Maximal overload duration vs nom current and ovl factor, $T_{amb} = 45^{\circ}\text{C}$

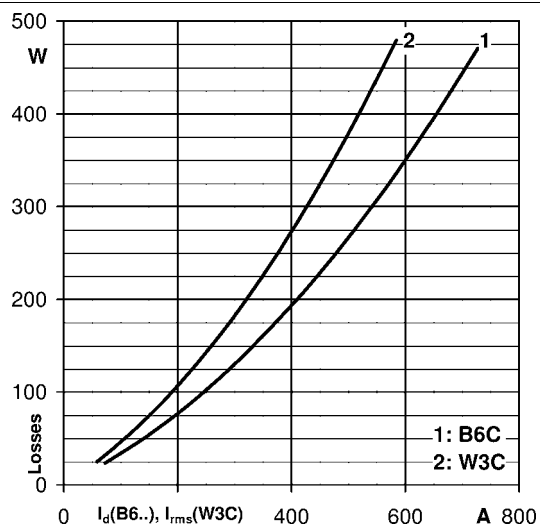


Fig. 5 Power losses

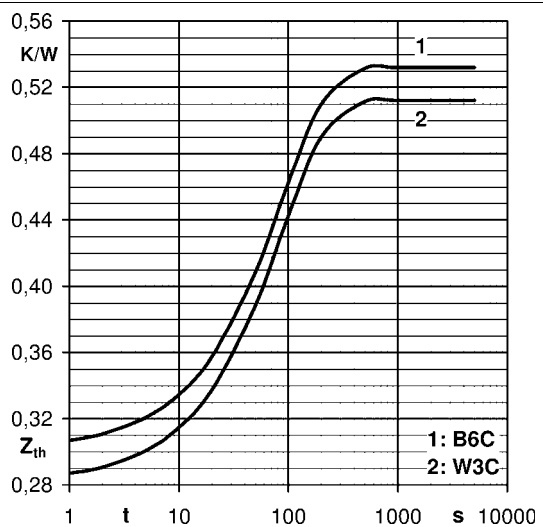
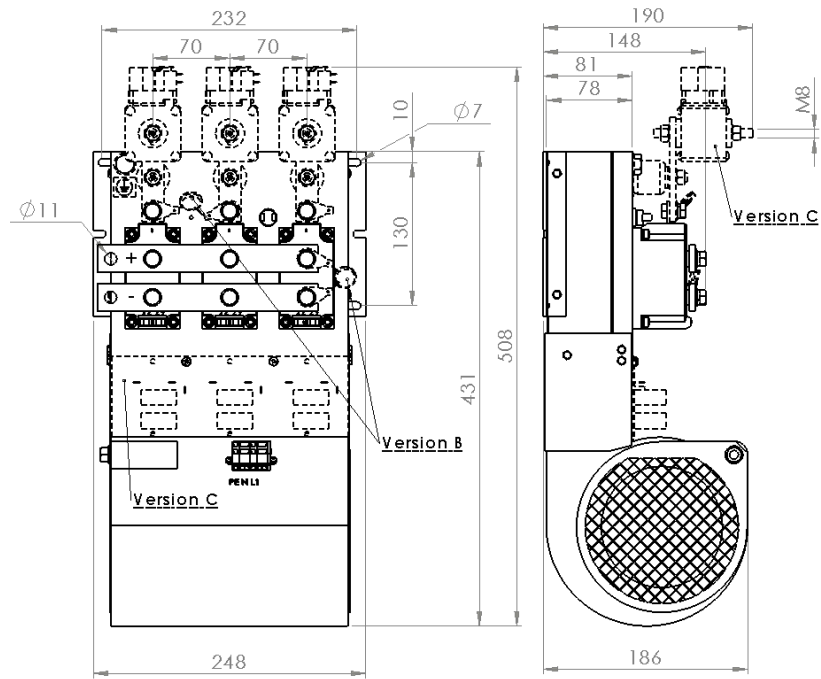


Fig. 6 Thermal impedance $Z_{th}(j-a)$

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Note: Stack design may vary depending upon the version. Please contact SEMIKRON for further details.

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