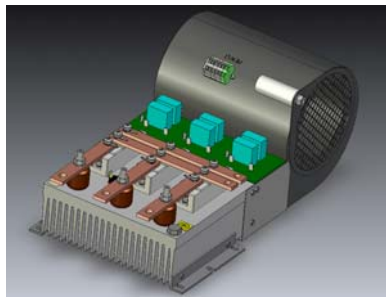


# SKS 360F B6C 240 V16



**SEMISTACK Thyristor**

## Three-phase controlled bridge rectifier

SKS 360F B6C 240 V16  
Preliminary Data

### Features

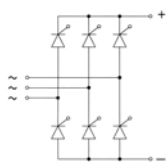
- P16/200F heatsink
- Isolated base modules
- Forced air cooled

### Typical Applications

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

### Options

No. 08767220



**B6C**

Characteristics						
Symbol	Conditions	min.	typ.	max.	Unit	
<b>Electrical Data</b>						
$I_d$		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	$\text{kA}^2\text{s}$	
	$T_{vj} = 125^{\circ}\text{C}$			125	$\text{kA}^2\text{s}$	
$(di/dt)_{cr}$	$T_{vj} = 125^{\circ}\text{C}$			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		$\Omega$	
RC	Capacitance		0.47		$\mu\text{F}$	
Thermal trip	normally closed		75		$^{\circ}\text{C}$	
<b>Mechanical Data</b>						
$dv/dt_{AIR}$	required airflow per fan				$\text{m}^3/\text{h}$	
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			
<b>Fan Data</b>						
Fan	included in the stack ( <b>YES</b> )					
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	

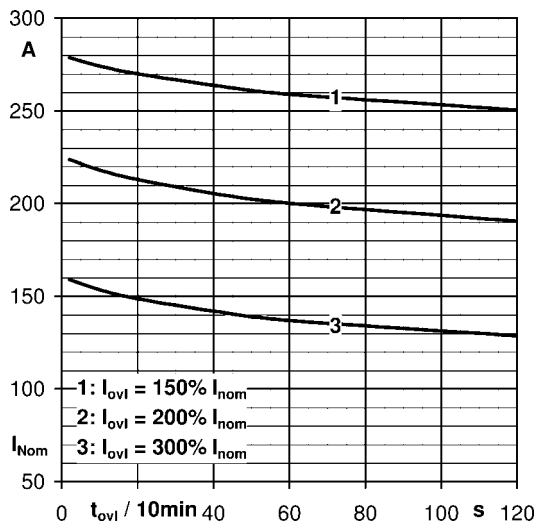


Fig. 1 Maximal overload factor vs nom current and ovl duration,  $T_{amb} = 35^{\circ}\text{C}$

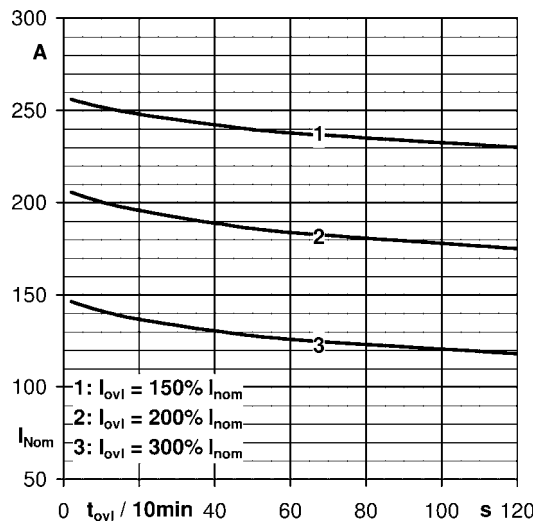


Fig. 2 Maximal overload factor vs nom current and ovl duration,  $T_{amb} = 45^{\circ}\text{C}$

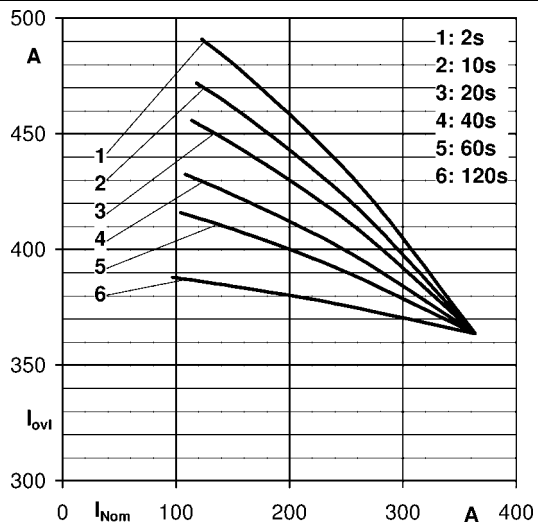


Fig. 3 Maximal overload duration vs nom current and ovl factor,  $T_{amb} = 35^{\circ}\text{C}$

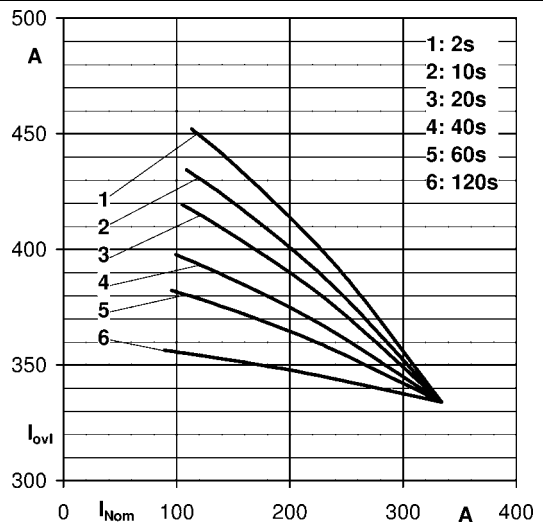


Fig. 4 Maximal overload duration vs nom current and ovl factor,  $T_{amb} = 45^{\circ}\text{C}$

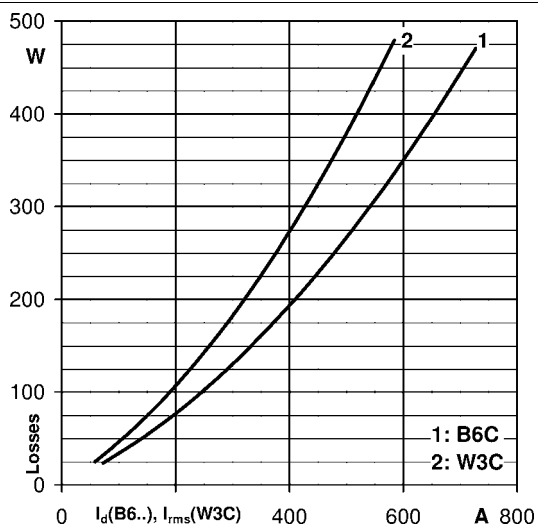


Fig. 5 Power losses

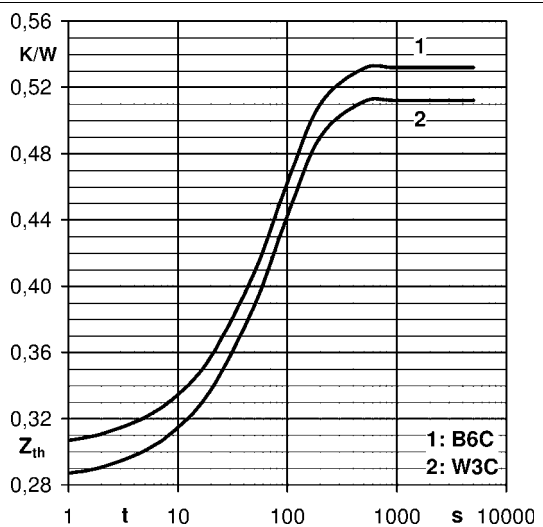
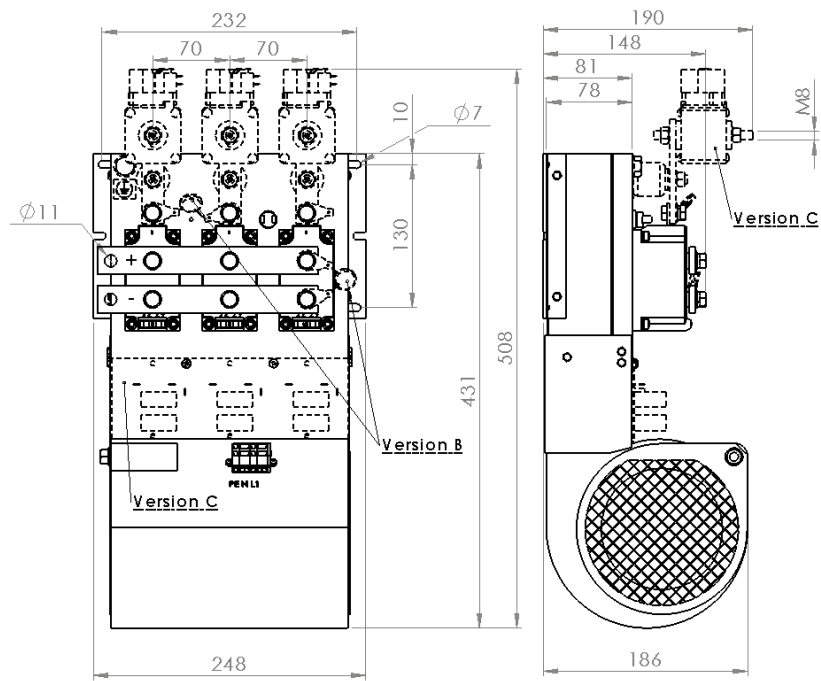


Fig. 6 Thermal impedance  $Z_{th}(j-a)$

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

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