

Project Nan	ne				dilizii a co. ka	
please refer to this name in every correspondence regarding the stack described below						
Device						
□ Disc	☐ Module if possible					
rectifier circuit with mid-point tapping						
Uncontrolled	□ M1U	□ M2U	□ М3U	□ M3.2U	□ M6U	
Full controlled	□ M1C	□ M2C	□ M2C □ M3C		□ M6C	
		□ with com	☐ with common cathode		□ with common anode	
bridge rectifie	er circuit					
uncontrolled	□ B2U	□ B6U	□ B6.2U			
half controlled	□ В2Н	□ В6Н	□ B6.2H	☐ thyr. with com	nmon anode	
full controlled	□ B2C	□ B6C	□ B6.2C			
prepared for operation □ parallel □ serial □ antiparallel						
AC switch						
half controlled	□ W1H	□ W2H	□ W3H			
full controlled	□ W1C	□ W2C □ W3C				
supply voltag	е	frequency				
V			Hz			
output current						
A <sub>DC</sub> (rectifier) or A <sub>RMS</sub> (AC switch)						
load mode						
□ permanent						
□ overload overcurrent □ A time □ s preload current □ A						
non periodical overload according to separate diagram						
temperature of cooling media (e.g. ambient temperature)						
T <sub>min</sub> °C T <sub>max</sub> °C						
cooling mode						
natural air	☐ forced air	□ water	□ oil I	own Rtha	K/W	
	□ without fan	□ fan 230V <i>A</i>	.C □ fan 115	5VAC		



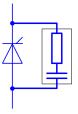
temperature switch									
□ without		☐ O (NC normally closed)			□s	☐ S (NO normally open)			
		□ special temperature			Э	Т		°C	
overvoltage	overvoltage protection								
no overvolta	age prote	ection							
RC1: TSE - snubber circuit				□ RC2: snu	ubbe	r inp	ut bridge		
□ RC3: RC1 -	+RC2								
□ ARC: AC side RC-snubber				□ DRC: DC side protection					
fuses									
☐ without			□ се	ll fuses				arm fuses	
quantity pieces  attachments number of enclosed sheets / data files with additional information  space for remarks									
customer						l e			
company:					stree	et:			
name:				post bo	x:				
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e-mail:					Dat	te: [			
please send back this checklist to your responsible sales or contact person – otherwise send back to e-mail: info@infineon.com or fax: 0049 (0)2902 764-1102									



#### **Overvoltage Protection Circuits**

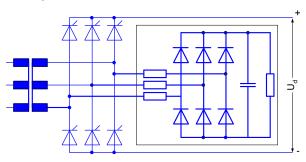
#### RC1 TSE snubber circuit

To avoid over voltages due to the reverse recovery charge effect every diode/thyristor is equipped with a parallel RC snubber which absorbs the charge/energy and which is a damping for possible oscillations.



#### RC2 input snubber bridge

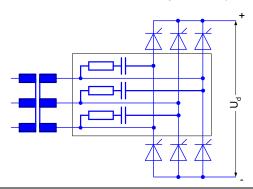
To absorb surge voltages of higher magnitude inrushing from line an auxiliary rectifier is mounted in parallel to the rectifier. This auxiliary rectifier has a storage capacitor connected to the output which will absorb inrushing surges. Besides this there is also a restricted functionality as TSE.



#### ARC AC side RC snubber

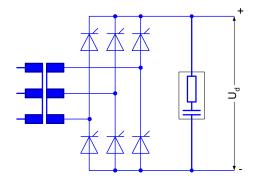
To absorb surge voltages of lower magnitude inrushing from line RC snubber are placed phase to phase on the Ac side of the rectifier

(recommended for DC currents up to 200A)



#### DRC DC side RC snubber

To avoid overvoltage at the DC side of a rectifier a RC snubber is mounted. This is helpful if there is no capacitor as DC link close to the rectifier output





rectifier circuits with mid-point tapping

M1U	M2U	M3	M3.2U	M6U
***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  **		~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~		
M1C	M2C	M3C	M3.2C	M6C
~ 3 1 +	+	+	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	+

<sup>\*)</sup> All star rectifiers available also with common anode.

bridge rectifier circuits

bridge rectifier circuits					
uncontrolled	B2U	B6U	B6.2U***		
	~ +				
half controlled**	B2H	B6H	B6.2H***		
	~ +	~ * * * * * *			
full controlled	B2C	B6C	B6.2C***		
	~ +	~ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			

<sup>\*\*)</sup> All half controlled bridge rectifiers available also with thyristors with common anode.

#### **AC** switches

AC Switches		
W1H	W2H	W3H
**	<b>* * * *</b>	
W1C	W2C	W3C

<sup>\*\*\*)</sup>Can be prepared for series, parallel or anti-parallel operation.



Examples of most common standard circuits:

