



POWER ELECTRONICS

— SINCE 1999 —



POWER ELECTRONICS

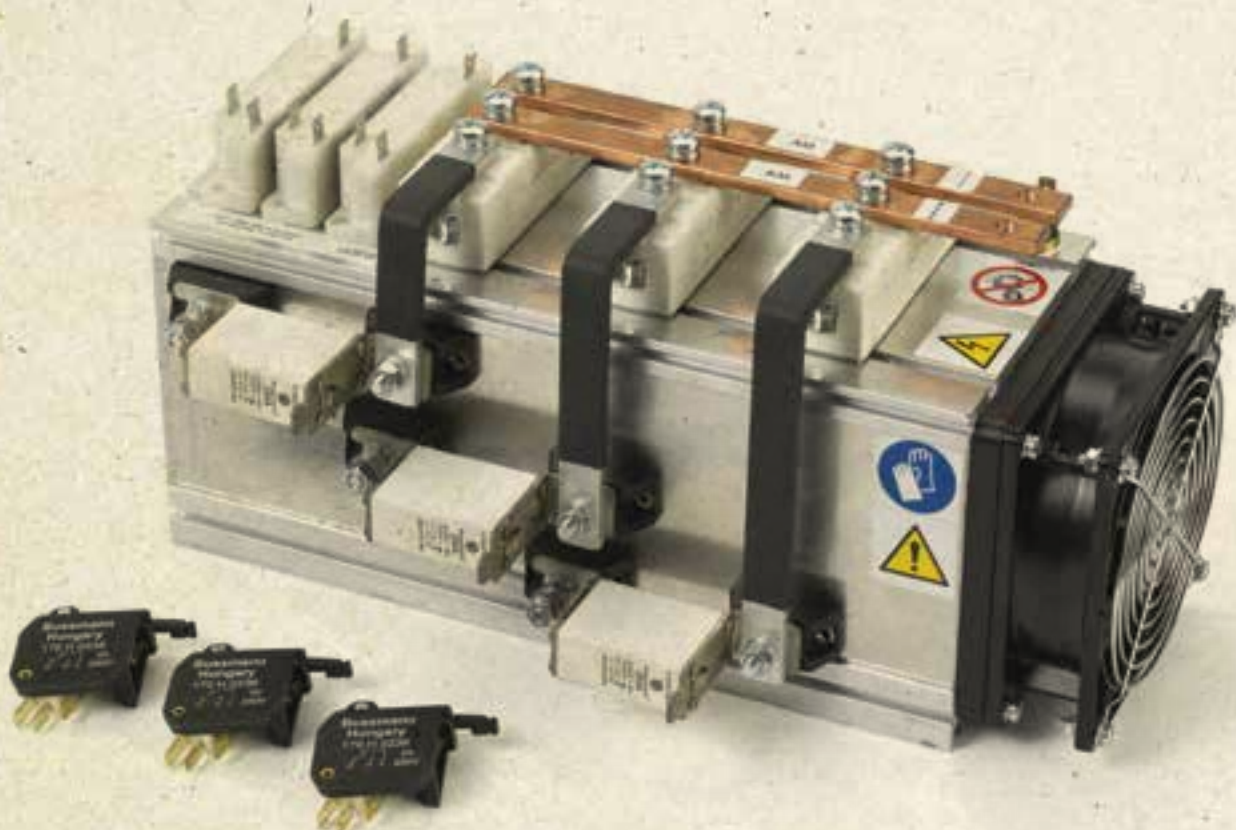
**CONTROLLATE LE VIBRAZIONI E AVRETE
IL POTERE DI CONTROLLARE LA SOSTANZA
E L'ENERGIA DELLA MATERIA**

***CONTROL THE VIBRATIONS AND THE POWER
TO CONTROL SUBSTANCE AND MATERIAL
ENERGY WILL EVENTUALLY BE GIVEN***

JASMUHEEN

CONVERTITORI DI CORRENTE

CONVERTER ASSEMBLIES



03

Assemblati di semiconduttori nelle varie configurazioni a ponte non controllato, semi controllato, total-controllato. Completi di circuiti RC, fusibili, varistori e termostati. Correnti fino a 6000 A.

Converter Assemblies using thyristors and diodes. Non-controllable, half controllable, fully controllable rectifier stacks complete of RC-snubber circuits, fuses, varistors and bimetal thermal trips. Currents up to 6000 A.

**CARATTERISTICHE
TECNICHE COME
PUNTI DI FORZA**

- > Tensioni fino a 10 KV
- > Correnti fino a 6000 A

**CAMPI DI
APPLICAZIONE**

- > Navale e ferroviario
- > Rifasatori
- > Azionamenti per controllo
velocità motori
- > Impianti galvanici
- > Gruppi di continuità
- > Saldatrici

OCRAM unisce qualità e robustezza costruttiva
in un binomio perfetto che rende i suoi convertitori
estremamente **sicuri dal punto di vista operativo.**
Riesce inoltre a **personalizzare il prodotto**
costruendolo sulle specifiche richieste del cliente
ed a garantire sempre un affidabile servizio di
assistenza pre e post vendita.

PUNTI DI FORZA ED APPLICAZIONI

AC/DC

ALIMENTATORI



CONTROLLO
MOTORI



TRASPORTO



ENERGIA
EOLICA

**TECHNICAL SPECS
AS STRENGTHS**

- > Reverse Voltage up to 10 KV
- > Output current up to 6000 A

**APPLICATION
FIELDS**

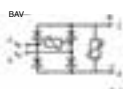
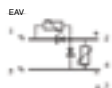
- > Rail/Naval Equipments
- > Power Factor correctors
- > Motor Drives
- > Galvanic Equipments
- > UPS
- > Welding Machines

OCRAM devices are a finest quality and safety toughness perfect match. We can customize our products to meet our customers' specific needs, guaranteeing a total customer care.

STRENGTHS AND APPLICATIONS

**AC/DC**POWER
SUPPLIESMOTOR
DRIVESTRANSPORT
EQUIPMENTWIND
ENERGY

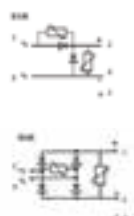
Rectifier bridges with varistor



V_{RSM} V_{RRM}				
550 V 510 V	BAV 460 D9 EAV 510 D13			
Parameter	Conditions	BAV 460 D9	EAV 510 D13	Units
I_D	$T_{amb} = 45^\circ\text{C}$ isolated	1,2	1,1	A
I_{FSM}	$T_{vj} = 25^\circ\text{C}$, 10 ms	150		A
	$T_{vj} = 150^\circ\text{C}$, 10 ms	130		A
I^2t	$T_{vj} = 25^\circ\text{C}$, 8,3... 10 ms	130		A ² s
	$T_{vj} = 150^\circ\text{C}$, 8,3... 10 ms	100		A ² s
V_F	$T_{vj} = 25^\circ\text{C}$, $I_F = 10$ A max	1,2		V
$V_{(TO)}$ r_T	$T_{vj} = T_{vjmax}$	0,85		V
	$T_{vj} = T_{vjmax}$	30		m Ω
T_{vj} T_{slg}		- 40... + 150 - 40... + 100		$^\circ\text{C}$ $^\circ\text{C}$
$R_{thja} (tot)$		22	44	$^\circ\text{C}/\text{W}$
V_{isol} at Pole 3	$T_{amb} = 25^\circ\text{C}$, $t = 60$ sec.	3000		V _{ac}



Rectifier bridges with varistor



V_{RSM} V_{RRM}	
630 V 630 V	BGR EGR

Parameter	Conditions	BGR	EGR	Units
I_D	$T_{amb} = 45^\circ\text{C}$ isolated	1,2	1,1	A
I_{FSM}	$T_{vj} = 25^\circ\text{C}$, 10 ms	150		A
	$T_{vj} = 150^\circ\text{C}$, 10 ms	130		A
I^2t	$T_{vj} = 25^\circ\text{C}$, 8,3... 10 ms	130		A^2s
	$T_{vj} = 150^\circ\text{C}$, 8,3... 10 ms	100		A^2s
V_F	$T_{vj} = 25^\circ\text{C}$, $I_F = 10\text{ A}$ max	1,2		V
$V_{(TO)}$ r_T	$T_{vj} = T_{vjmax}$	0,85		V
	$T_{vj} = T_{vjmax}$	30		m Ω
T_{vj} T_{slg}		- 40... + 150		$^\circ\text{C}$
		- 40... + 100		$^\circ\text{C}$
$R_{thja} \text{ (tot)}$		22	44	$^\circ\text{C/W}$
$V_{isol} \text{ at Pole 3}$	$T_{amb} = 25^\circ\text{C}$, $t = 60\text{ sec.}$	3000		Vac

Discrete rectifier diodes with non-isolated heatsinks

STACK
B2U
14 A... 2560 A
Non-controllable rectifier
stacks in two-pulse bridge
connection



Natural cooling; $T_{amb} \leq 45^\circ\text{C}$

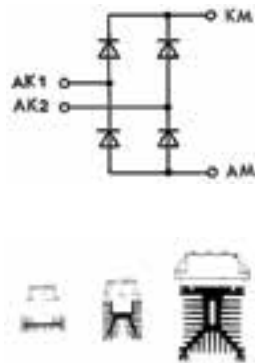
Code Designation* V _{VRMS} / V _D - I _d V / V - A	Device Type	Heatsink Type / L mm	Thermal Trip °C	Overall Dimensions			Outline Figure
				Height mm	Width mm	Depth mm	
B2U... / ... - 100	SKN 100	C3/120		120	234	130	12 α
-165	SKN/R 100	P1/150		150	375	250	15 α
-190	SKN/R 130	P1/200		200	375	250	15 b
-275	SKN/R 240	P1/200		200	375	250	15 b
-350	SKN/R 240	P1/400		400	375	250	15 c
-430	SKN/R 320	P1/400		400	375	250	15 c
-490	SKN/R 320	P4/400		400	475	270	19 α
-600	SKN 501	P11/415		635	500	275	21 α
-645	SKN 870	P11/415		635	500	275	21 α
-845	SKN 870	U3/515		740	560	290	25 α
-1090	SKN 1500	U3/515		740	560	290	25 α



Forced air cooling; $T_{amb} \leq 35^\circ\text{C}$

Code Designation* V _{VRMS} / V _D - I _d V / V - A	Device Type	Heatsink Type / L mm	Thermal Trip °C	Overall Dimensions			Outline Figure
				Height mm	Width mm	Depth mm	
B2U... / ... -245 F	SKN/R 100	P1/150	85	208	375	250	15 α
-310 F	SKN/R 130	P1/200	85	258	375	250	15 b
-485 F	SKN/R 240	P1/200	100	258	375	250	15 b
-545 F	SKN/R 240	P1/400	95	458	375	250	15 c
-675 F	SKN/R 320	P1/400	100	458	375	250	15 c
-885 F	SKN 501	P18/130	112	558	382	344	28 α
-1200 F	SKN 870	P18/130	112	558	382	344	28 b
-1525 F	SKN 1500	P18/130	132	558	406	344	28 b
-1865 F	SKN 2000	P18/130	132	558	406	344	28 b
-1970 F	SKN 1500	N4/250	118	790	542	400	34
-2560 F	SKN 2000	N4/250	118	790	542	400	34

Bridge rectifiers and diode modules, isolated from the heatsink



Natural cooling; $T_{amb} \leq 45^\circ\text{C}$

Code Designation* $V_{VRMS} / V_D - I_d$ V / V - A	Device Type	Heatsink Type / L mm	Thermal Trip $^\circ\text{C}$	Overall Dimensions			Outline Figure
				Height mm	Width mm	Depth mm	
B2U... / ... - 14	SKB 25	P5A/100		100	106	42	1
-17	SKB 25	P1A/120		120	120	120	5 α
-21	SKB 30	P5A/100		100	106	50	1
-23	SKB 30	R4A/120		120	99	71	3
-29	SKB 30	P1A/120		120	120	120	5 α
-34	SKB 50	P1A/120		120	120	120	5 α
-40	SKB 52	P1A/120		120	120	120	5 α
-48	SKB 72	P1A/120		120	120	120	5 α
-50	SKKD 46	P3/120		120	125	174	6 α
-53	SKKD 26	P3/180		180	125	174	6 b
-63	SKKD 81	P3/120		120	125	174	6 α
-65	SKKD 100	P3/120		120	125	174	6 α
-70	SKKD 81	P3/180		180	125	174	6 b
-73	SKKD 100	P3/180		180	125	174	6 b
-90	SKKD 162	P3/180		180	125	174	6 b



Forced air cooling; $T_{amb} \leq 35^\circ\text{C}$

Code Designation* $V_{VRMS} / V_D - I_d$ V / V - A	Device Type	Heatsink Type / L mm	Thermal Trip $^\circ\text{C}$	Overall Dimensions			Outline Figure
				Height mm	Width mm	Depth mm	
B2U... / ... -38 F	SKB 30	P1A/120	60	168	120	120	5 α
-47 F	SKB 50	P1A/120	56	168	120	120	5 α
-71 F	SKKD 26	P3/120	63	168	125	174	6 α
-89 F	SKKD 46	P3/120	71	168	125	174	6 α
-95 F	SKKD 46	P3/180	63	228	125	174	6 b
-129 F	SKKD 81	P3/120	75	168	125	174	6 α
-141 F	SKKD 100	P3/120	80	168	125	174	6 α
-150 F	SKKD 100	P3/180	75	228	125	174	6 b
-210 F	SKKD 162	P3/180	85	228	125	174	6 b
-240 F	SKKD 162	P3/265	80	313	125	174	6 c
-250 F	SKKD 201	P3/180	90	228	125	174	6 b
-285 F	SKKD 201	P3/265	85	313	125	174	6 c
-335 F	SKKD 260	P3/265	95	313	125	174	6 c
-385 F	SKKD 201	P16/200	63	433	249	210	8
-490 F	SKKD 260	P16/200	71	433	249	210	8

Discrete thyristors and rectifier diodes with non-isolated heatsinks

B2 HK, B2 HKF
15 A... 1700 A
Half-controllable rectifier stacks
in two-pulse bridge connection



Natural cooling; $T_{amb} \leq 45^\circ\text{C}$

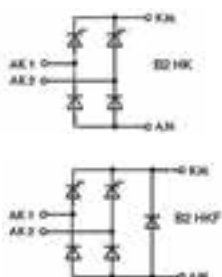
Code Designation* $V_{VRMS} / V_D - I_d$ V / V - A	Device Type		Heatsink Type / L mm	Thermal Trip $^\circ\text{C}$	Overall Dimensions			Outline Figure
					Height mm	Width mm	Depth mm	
B2HK... / ... - 73	SKT 55	SKR 70	P1.2/200		200	249	170	13 α
-90	SKT 55	SKR 70	P1/150		150	375	250	15 α
-115	SKT 100	SKR 100	P1/150		150	375	250	15 α
-132	SKT 130	SKR 130	P1/200		200	375	250	15 b
-160	SKT 160	SKR 130	P1/200		200	375	250	15 b
-195	SKT 160	SKR 240	P1/400		400	375	250	15 c
-255	SKT 250	SKR 320	P1/400		400	375	250	15 c
-300	SKT 300	SKR 320	P1/400		400	375	250	15 c
-345	SKT 250	SKR 320	P1/400		400	475	270	19 α
-415	SKT 300	SKR 320	P1/400		400	475	270	19 α
-445	SKT 600	SKR 870	P11/415		635	500	275	21 α
-490	SKT 760	SKR 870	P11/415		635	500	275	21 α
-535	SKT 600	SKR 870	U3/515		740	560	290	25 α
-590	SKT 760	SKR 870	U3/515		740	560	290	25 α
-695	SKT 1200	SKR 1500	U3/515		740	560	290	25 α



Forced air cooling; $T_{amb} \leq 35^\circ\text{C}$

Code Designation* $V_{VRMS} / V_D - I_d$ V / V - A	Device Type		Heatsink Type / L mm	Thermal Trip $^\circ\text{C}$	Overall Dimensions			Outline Figure
					Height mm	Width mm	Depth mm	
B2HK... / ... - 210 F	SKT 100	SKR 100	P1/200 F	65	258	375	250	15 b
-245 F	SKT 130	SKR 130	P1/200 F	75	258	375	250	15 b
-295 F	SKT 160	SKR 130	P1/200 F	75	258	375	250	15 b
-480 F	SKT 250	SKR 320	P1/400 F	80	458	375	250	15 c
-595 F	SKT 300	SKR 320	P1/400 F	85	458	375	250	15 c
B2HK... / ... - 465 F	SKT 240	SKN 501	P18/130 F	80	558	382	344	28 α
-530 F	SKT 340	SKN 501	P18/130 F	80	558	382	344	28 α
-645 F	SKT 491	SKN 501	P18/130 F	90	558	382	344	28 α
-785 F	SKT 551	SKN 501	P18/130 F	90	558	382	344	28 α
-865 F	SKT 600	SKN 870	P18/130 F	90	558	406	344	28 b
-965 F	SKT 760	SKN 870	P18/130 F	90	558	406	344	28 b
-1035 F	SKT 1000	SKN 1500	P18/130 F	100	558	406	344	28 b
-1225 F	SKT 1200	SKN 1500	P18/130 F	100	558	406	344	28 b
-1245 F	SKT 760	SKN 870	N4/250 F	80	790	542	400	34
-1435 F	SKT 1000	SKN 1500	N4/250 F	90	790	542	400	34
-1700 F	SKT 1200	SKN 1500	N4/250 F	90	790	542	400	34

Bridge rectifiers and thyristor/diode modules, isolated from the heatsink



Natural cooling; $T_{amb} \leq 45^\circ\text{C}$

Code Designation* V _{VRMS} / V _D - I _d V / V - A	Device Type	Heatsink Type / L mm	Thermal Trip °C	Overall Dimensions			Outline Figure
				Height mm	Width mm	Depth mm	
B2HKF.../-15	SKCH 28	P5A/100		100	106	45	1
-16	SKCH 28	P13A/125		125	104	75	2
-23	SKCH 28	P1A/120		120	120	120	5 α
-28	SKCH 40	P1A/120		120	120	120	5 α
B2HK.../-15	SKBH 28	P5A/100		100	106	45	1
-23	SKBH 28	P1A/120		120	120	120	5 α
-35	SKKH 26	P3/120		120	125	174	6 α
-43	SKKH 41	P3/120		120	125	174	6 α
-50	SKKH 56	P3/120		120	125	174	6 α
-60	SKKH 91	P3/120		120	125	174	6 α
-70	SKKH 91	P3/180		180	125	174	6 b
-76	SKKH 105	P3/180		180	125	174	6 b
-77	SKKH 132	P3/180		180	125	174	6 b

Forced air cooling; $T_{amb} \leq 35^\circ\text{C}$

Code Designation* V _{VRMS} / V _D - I _d V / V - A	Device Type	Heatsink Type / L mm	Thermal Trip °C	Overall Dimensions			Outline Figure
				Height mm	Width mm	Depth mm	
B2HKF.../... -32 F	SKB 33	P1A/120	50	168	120	120	5 α
-47 F	SKCH 40	P1A/120	63	168	120	120	5 α
B2HK.../... -57 F	SKKH 26	P3/120	63	168	125	174	6 α
-81 F	SKKH 41	P3/120	63	168	125	174	6 α
-96 F	SKKH 56	P3/120	71	168	125	174	6 α
-100 F	SKKH 56	P3/180	63	228	125	174	6 b
-109 F	SKKH 71	P3/120	75	168	125	174	6 α
-130 F	SKKH 91	P3/120	85	168	125	174	6 α
-140 F	SKKH 91	P3/180	75	228	125	174	6 b
-145 F	SKKH 105	P3/180	80	228	125	174	6 b
-157 F	SKKH 105	P3/265	75	313	125	174	6 c
-170 F	SKKH 132	P3/180	85	228	125	174	6 b
-191 F	SKKH 132	P3/265	85	313	125	174	6 c
-223 F	SKKH 162	P3/265	80	313	125	174	6 c
-250 F	SKKH 132	P16/200	63	433	249	210	8
-290 F	SKKH 162	P16/200	63	433	249	210	8
-300 F	SKKH 131	P16/200	63	433	249	210	8
-330 F	SKKH 161	P16/200	63	433	249	210	8
-450 F	SKKH 250	P16/200	75	433	249	210	8

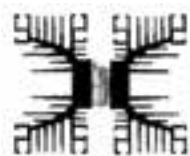
Discrete thyristors with non-isolated heatsinks

STACK

B2C

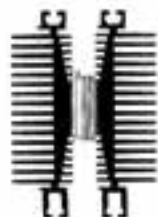
15 A... 1575 A

Fully controllable converter stacks
in twopulse bridge connection



Natural cooling; Tamb ≤ 45 °C

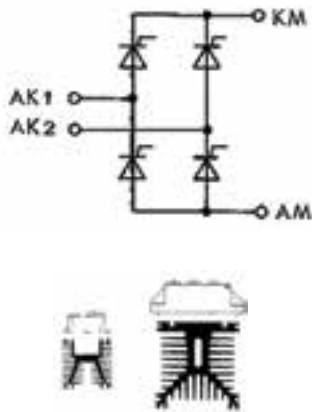
Code Designation*	Device	Heatsink	Thermal	Overall Dimensions			Outline
V _{VRMS} / V _D - I _d V / V - A	Type	Type / L mm	Trip °C	Height mm	Width mm	Depth mm	Figure
B2C.../... -67	SKT 55	P1.2/100		215	249	170	14 α
-100	SKT 55	P1/150		315	375	250	16 α
-120	SKT 100	P1/150		315	375	250	16 α
-130	SKT 130	P1/200		415	375	250	16 b
-155	SKT 160	P1/200		415	375	250	16 b
-220	SKT 250	P1/200		415	375	250	16 b
-260	SKT 300	P1/200		415	375	250	16 b
-280	SKT 240	P11/415		635	500	275	21 α
-308	SKT 340	P11/415		635	500	275	21 α
-330	SKT 491	P11/415		635	500	275	21 α
-400	SKT 551	P11/415		635	500	275	21 α
-445	SKT 600	P11/415		635	500	275	21 α
-490	SKT 760	P11/415		635	500	275	21 α
-590	SKT 760	U3/515		740	560	290	25 α
-695	SKT 1200	U3/515		740	560	290	25 α



Forced air cooling; Tamb ≤ 35 °C

Code Designation* V _{VRMS} / V _D - I _d V / V - A	Device Type	Heatsink Type / L mm	Thermal Trip °C	Overall Dimensions			Outline Figure
				Height mm	Width mm	Depth mm	
B2C.../... -150 F	SKT 55	P1/150	60	373	375	250	16 α
-200 F	SKT 100	P1/150	65	373	375	250	16 α
-235 F	SKT 130	P1/150	80	373	375	250	16 α
-285 F	SKT 160	P1/150	80	373	375	250	16 α
-395 F	SKT 250	P1/150	90	373	375	250	16 α
-475 F	SKT 300	P1/150	95	373	375	250	16 α
-465 F	SKT 240	P18/130	80	558	382	344	28 α
-530 F	SKT 340	P18/130	80	558	382	344	28 α
-645 F	SKT 491	P18/130	80	558	382	344	28 α
-780 F	SKT 551	P18/130	80	558	382	344	28 α
-865 F	SKT 600	P18/130	90	558	406	344	28 b
-965 F	SKT 760	P18/130	90	558	406	344	28 b
-1035 F	SKT 1000	P18/130	100	558	406	344	28 b
-1225 F	SKT 1200	P18/130	100	558	406	344	28 b
-1330 F	SKT 1000	N4/250	90	790	542	400	34
-1575 F	SKT 1200	N4/250	90	790	542	400	34

Bridge rectifiers and thyristor modules, isolated from the heatsink



Natural cooling; $T_{amb} \leq 45^\circ\text{C}$

Code Designation* V _{VRMS} / V _D - I _d V / V - A	Device Type	Heatsink Type / L mm	Thermal Trip °C	Overall Dimensions			Outline Figure
				Height mm	Width mm	Depth mm	
B2C.../... -15	SKBT 28	P5A/100		100	106	45	1
-23	SKBT 28	P1A/120		120	120	120	5 α
-24	SKKT 41	R4A/120		120	99	80	4
-28	SKKT 19	P3/120		120	125	174	6 α
-35	SKKT 26	P3/120		120	125	174	6 α
-43	SKKT 41	P3/120		120	125	174	6 α
-50	SKKT 56	P3/120		120	125	174	6 α
-57	SKKT 56	P3/180		180	125	174	6 b
-62	SKKT 71	P3/180		180	125	174	6 b
-70	SKKT 91	P3/180		180	125	174	6 b
-76	SKKT 105	P3/180		180	125	174	6 b
-77	SKKT 132	P3/180		180	125	174	6 b



Forced air cooling; $T_{amb} \leq 35^\circ\text{C}$

Code Designation* V _{VRMS} / V _D - I _d V / V - A	Device Type	Heatsink Type / L mm	Thermal Trip °C	Overall Dimensions			Outline Figure
				Height mm	Width mm	Depth mm	
B2C.../... -34 F	SKBT 28	P1A/120	56	168	120	120	5 α
-45 F	SKKT 19	P3/120	56	168	125	174	6 α
-60 F	SKKT 26	P3/180	60	228	125	174	6 b
-85 F	SKKT 41	P3/180	63	228	125	174	6 b
-96 F	SKKT 56	P3/120	71	168	125	174	6 α
-109 F	SKKT 71	P3/120	75	168	125	174	6 α
-140 F	SKKT 91	P3/180	75	228	125	174	6 b
-157 F	SKKT 105	P3/265	75	313	125	174	6 c
-191 F	SKKT 132	P3/265	85	313	125	174	6 c
-223 F	SKKT 162	P3/265	80	313	125	174	6 c
-250 F	SKKT 132	P16/200	63	433	249	210	8
-290 F	SKKT 162	P16/200	63	433	249	210	8
-300 F	SKKT 131	P16/200	63	433	249	210	8
-354 F	SKKT 213	P16/200	71	433	249	210	8
-387 F	SKKT 253	P16/200	71	433	249	210	8
-420 F	SKKT 210	P16/200	71	433	249	210	8
-450 F	SKKT 250	P16/200	71	433	249	210	8

Discrete rectifier diodes with non-isolated heatsinks

STACK

B6U

15 A... 4015 A

Non controllable rectifier stack in
six-pulse bridge connection



Natural cooling; Tamb ≤ 45 °C

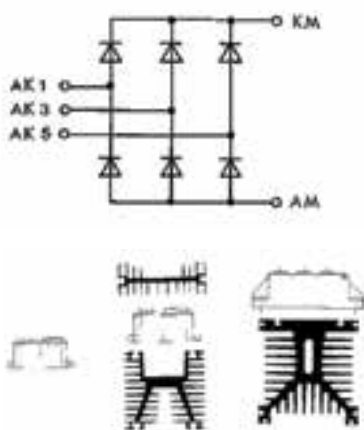
Code Designation* V _{VRMS} / V _D - I _d V / V - A	Device Type	Heatsink Type / L mm	Thermal Trip °C	Overall Dimensions			Outline Figure
				Height mm	Width mm	Depth mm	
B6U.../-145	SKN 100	C3/120		120	326	130	12 b
-235	SKN/R 100	P1/150		150	510	250	15 d
-285	SKN/R 130	P1/200		200	510	250	15 e
-410	SKN/R 240	P1/200		200	510	250	15 e
-510	SKN/R 240	P1/400		400	510	250	15 f
-630	SKN/R 320	P1/400		400	510	250	15 f
-700	SKN/R 320	P4/400		400	660	270	19 b
-855	SKN 501	P11/415		635	700	275	21 b
-950	SKN 870	P11/415		635	700	275	21 b
-1200	SKN 1500	P11/415		635	700	275	21 b
-1570	SKN 1500	U3/515		740	800	290	25 b
-1900	SKN 2000	U3/515		740	800	290	25 b



Forced air cooling; Tamb ≤ 35 °C

Code Designation* V _{VRMS} / V _D - I _d V / V - A	Device Type	Heatsink Type / L mm	Thermal Trip °C	Height mm	Width mm	Depth mm	Outline Figure
B6U.../-350 F	SKN/R 100	P1/150	85	208	510	250	15 d
-440 F	SKN/R 130	P1/200	85	258	510	250	15 e
-690 F	SKN/R 240	P1/200	100	258	510	250	15 e
-780 F	SKN/R 240	P1/400	95	458	510	250	15 f
-965 F	SKN/R 320	P1/400	100	458	510	250	15 f
-1140 F	SKN 501	P17/130	118	558	426	344	29
-1600 F	SKN 870	P17/130	118	558	426	344	29
-1940 F	SKN 1500	P17/130	132	558	426	344	29
-2300 F	SKN 1500	P18/180	118	709	610	380	31
-2475 F	SKN 870	N4/250	90	790	711	378	36
-3060 F	SKN 1500	N4/250	100	790	711	378	36
-4015 F	SKN 2000	N4/250	112	790	711	378	36

Bridge rectifiers and SEMIPACK diode modules, isolated from the heatsink



Natural cooling; $T_{amb} \leq 45^\circ\text{C}$

Code Designation* V _{VRMS} / V _D - I _d V / V - A	Device Type	Heatsink Type / L mm	Thermal Trip °C	Overall Dimensions			Outline Figure
				Height mm	Width mm	Depth mm	
B6U.../-15	SKD 25	P5A/100		100	106	42	1
-20	SKD 25	P1A/120		120	120	120	5 α
-26	SKD 31	P5A/100		100	106	45	1
-32	SKD 31	P1A/120		120	120	120	5 α
-46	SKD 62	P1A/120		120	120	120	5 α
-54	SKD 82	P1A/120		120	120	120	5 α
-66	SKKD 46	P3/180		180	125	174	6 b
-70	SKKD 81	P3/120		120	125	174	6 α
-85	SKKD 81	P3/180		180	125	174	6 b
-91	SKKD 100	P3/180		180	125	174	6 b
-115	SKKD 162	P3/180		180	125	174	6 b



Forced air cooling; $T_{amb} \leq 35^\circ\text{C}$

Code Designation* $V_{VRMS} / V_D - I_d$ V / V - A	Device Type	Heatsink Type / L mm	Thermal Trip $^\circ\text{C}$	Height mm	Width mm	Depth mm	Outline Figure
B6U.../-56 F	SKD 31	P1A/120	71	168	120	120	5 α
-60 F	SKD 50	P1A/120	63	168	120	120	5 α
-85 F	SKD 60	P1A/120	71	168	120	120	5 α
-100 F	SKD 100	P1A/120	75	168	120	120	5 α
-120 F	SKD 100	P1A/200	63	248	120	120	5 α
-145 F	SKD 160	P1A/120	95	168	120	120	5 α
-175 F	SKKD 81	P3/180	80	228	125	174	6 b
-190 F	SKKD 100	P3/180	80	228	125	174	6 b
-214 F	SKKD 100	P3/265	75	313	125	174	6 c
-260 F	SKKD 162	P3/180	90	228	125	174	6 b
-314 F	SKKD 162	P3/265	85	313	125	174	6 c
-349 F	SKKD 201	P3/265	90	313	125	201	6 c
-425 F	SKKD 162	P16/200	63	433	249	210	8
-515 F	SKKD 201	P16/200	71	433	249	210	8
-655 F	SKKD 260	P16/200	80	433	249	210	8

Discrete thyristors and rectifier diodes with non-isolated heatsinks

STACK
B6 HK, B6 HKF
25 A... 3420 A
Half-controllable rectifier stacks in
six-pulse bridge connection



Natural cooling; $T_{amb} \leq 45^\circ\text{C}$

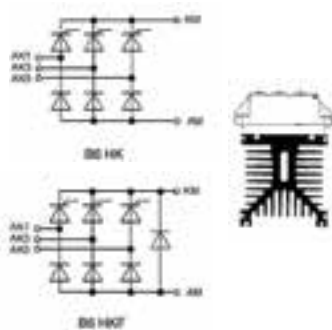
Code Designation* $V_{VRMS} / V_D - I_d$ V / V - A	Device Type		Heatsink Type / L mm	Thermal Trip $^\circ\text{C}$	Overall Dimensions			Outline Figure
					Height mm	Width mm	Depth mm	
B6HK.../-95	SKT 55	SKR 70	P1.2/200		200	336	170	13 b
-125	SKT 55	SKR 70	P1/150		150	510	250	15 d
-155	SKT 100	SKR 100	P1/150		150	510	250	15 d
-175	SKT 100	SKR 100	P1/200		200	510	250	15 e
-225	SKT 160	SKR 240	P1/200		200	510	250	15 e
-275	SKT 160	SKR 240	P1/400		400	510	250	15 f
-360	SKT 250	SKR 320	P1/400		400	510	250	15 f
-435	SKT 300	SKR 320	P1/400		400	510	250	15 f
-485	SKT 250	SKR 320	P4/400		400	660	270	19 b
-600	SKT 300	SKR 320	P4/400		400	660	270	19 b
-635	SKT 600	SKN 870	P11/415		635	700	275	21 b
-700	SKT 760	SKN 1500	P11/415		635	700	275	21 b
-845	SKT 600	SKN 1500	U3/515		740	800	290	25 b
-1000	SKT 1200	SKN 1500	U3/515		740	800	290	25 b



Forced air cooling; $T_{amb} \leq 35^\circ\text{C}$

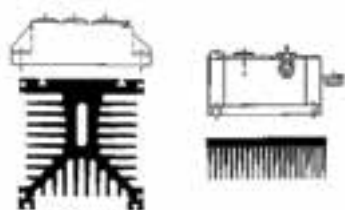
Code Designation* $V_{VRMS} / V_D - I_d$ V / V - A	Device Type		Heatsink Type / L mm	Thermal Trip $^\circ\text{C}$	Overall Dimensions			Outline Figure
					Height mm	Width mm	Depth mm	
B6HK... / ... - 285 F	SKT 100	SKR 100	P1/200	63	258	510	250	15 e
-340 F	SKT 130	SKR 130	P1/200	75	258	510	250	15 e
-410 F	SKT 160	SKR 130	P1/200	75	258	510	250	15 e
-665 F	SKT 250	SKR 320	P1/400	75	458	510	250	15 f
-840 F	SKT 300	SKR 320	P1/400	80	458	510	250	15 f
-980 F	SKT 551	SKN 501	P17/130	90	558	426	344	29
-1080 F	SKT 600	SKN 870	P17/130	95	558	426	344	29
-1200 F	SKT 760	SKN 870	P17/130	95	558	426	344	29
-1260 F	SKT 1000	SKN 1500	P17/130	100	558	426	344	29
-1500 F	SKT 1200	SKN 1500	P17/130	100	558	426	344	29
-1600 F	SKT 1000	SKN 1500	P17/180	95	709	610	380	31
-1890 F	SKT 1200	SKN 1500	P17/180	95	709	610	380	31
-2185 F	SKT 1000	SKN 1500	N4/250	80	790	711	400	36
-2580 F	SKT 1200	SKN 1500	N4/250	80	790	711	400	36
-3420 F	SKT 1800	SKN 2000	N4/250	90	790	711	400	36

Thyristor/diode modules, isolated from the heatsink



Natural cooling; $T_{amb} \leq 45^\circ\text{C}$

Code Designation* V _{VRMS} / V _D - I _d V / V - A	Device Type	Heatsink Type / L mm	Thermal Trip °C	Overall Dimensions			Outline Figure
				Height mm	Width mm	Depth mm	
B6HK.../... -25	SKKH 26	R4A/120		120	99	80	3
-43	SKKH 26	P3/120		120	125	174	6 α
-47	SKKH 26	P3/180		180	125	174	6 b
-52	SKKH 41	P3/120		120	125	174	6 α
-60	SKKH 56	P3/120		120	125	174	6 α
-68	SKKH 56	P3/180		180	125	174	6 b
-75	SKKH 91	P3/120		120	125	174	6 α
-85	SKKH 91	P3/180		180	125	174	6 b
-88	SKKH 105	P3/180		180	125	174	6 b
-100	SKKH 132	P3/180		180	125	174	6 b



Forced air cooling; $T_{amb} \leq 35^\circ\text{C}$

Code Designation* $V_{VRMS} / V_D - I_d$ V / V - A	Device Type	Heatsink Type / L mm	Thermal Trip $^\circ\text{C}$	Height mm	Width mm	Depth mm	Outline Figure
B6HK.../-77 F	SKKH 26	P3/180	63	228	125	174	6 b
-102 F	SKKH 41	P3/120	75	168	125	174	6 a
-119 F	SKKH 56	P3/120	75	168	125	174	6 a
-130 F	SKKH 56	P3/180	71	228	125	174	6 b
-158 F	SKKH 91	P3/120	85	168	125	174	6 a
-175 F	SKKH 91	P3/180	80	228	125	174	6 b
-201 F	SKKH 105	P3/265	80	313	125	174	6 c
-229 F	SKKH 132	P3/265	90	313	125	174	6 c
-266 F	SKKH 162	P3/265	85	313	125	174	6 c
-280 F	SKKH 131	P3/265	90	313	125	174	6 c
-300 F	SKKH 161	P3/265	90	313	125	201	6 c
-320 F	SKKH 132	P16/200	71	433	249	210	8
-360 F	SKKH 162	P16/200	75	433	249	210	8
-380 F	SKKH 131	P16/200	71	433	249	210	8
-415 F	SKKH 161	P16/200	71	433	249	210	8
-585 F	SKKH 250	P16/200	75	433	249	210	8

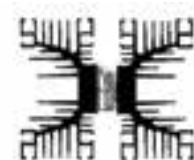
Discrete thyristors with non-isolated heatsinks

STACK

B6C

21 A... 3440 A

Fully controllable converter stacks
in sixpulse bridge connection



Natural cooling; Tamb ≤ 45 °C

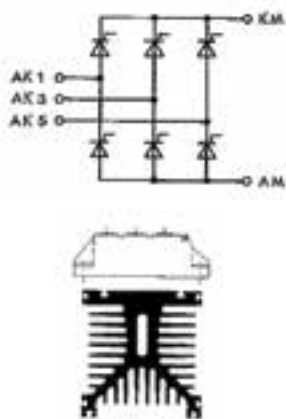
Code Designation* V _{VRMS} / V _D - I _d V / V - A	Device Type	Heatsink Type / L mm	Thermal Trip °C	Overall Dimensions Height Width Depth mm mm mm			Outline Figure
B6C.../... -95	SKT 55	P1.2/100		215	336	170	14 b
-130	SKT 55	P1/120		255	510	250	16 c
-175	SKT 100	P1/150		315	510	250	16 d
-225	SKT 160	P1/150		315	510	250	16 d
-320	SKT 250	P1/200		415	510	250	16 e
-380	SKT 300	P1/200		415	510	250	16 e
-395	SKT 240	P11/415		635	700	275	21 b
-440	SKT 340	P11/415		635	700	275	21 b
-470	SKT 491	P11/415		635	700	275	21 b
-570	SKT 551	P11/415		635	700	275	21 b
-635	SKT 600	P11/415		635	700	275	21 b
-700	SKT 760	P11/415		635	700	275	21 b
-845	SKT 760	U3/515		740	800	290	25 b
-1000	SKT 1200	U3/515		740	800	290	25 b



Forced air cooling; Tamb ≤ 35 °C

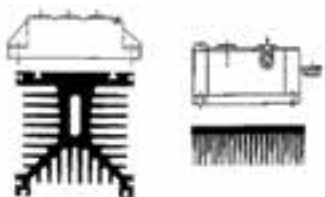
Code Designation* V _{VRMS} / V _D - I _d V / V - A	Device Type	Heatsink Type / L mm	Thermal Trip °C	Height mm	Width mm	Depth mm	Outline Figure
-200 F	SKT 55	P1/150	56	373	510	250	16 d
-280 F	SKT 100	P1/150	63	373	510	250	16 d
-325 F	SKT 130	P1/150	75	373	510	250	16 d
-395 F	SKT 160	P1/150	75	373	510	250	16 d
-550 F	SKT 250	P1/150	85	373	510	250	16 d
-680 F	SKT 300	P1/150	95	373	510	250	16 d
-740 F	SKT 300	P1/200	90	473	510	250	16 e
-800 F	SKT 491	P17/130	90	558	426	344	29
-980 F	SKT 551	P17/130	90	558	426	344	29
-1080 F	SKT 600	P17/130	95	558	426	344	29
-1200 F	SKT 760	P17/130	95	558	426	344	29
-1260 F	SKT 1000	P17/130	100	558	426	344	29
-1500 F	SKT 1200	P17/130	100	558	426	344	29
-1600 F	SKT 1000	P18/180	95	709	610	380	31
-1890 F	SKT 1200	P18/180	95	709	610	380	31
-2185 F	SKT 1000	N4/250	80	790	711	400	36
-2580 F	SKT 1200	N4/250	80	790	711	400	36
-3440 F	SKT 1800	N4/250	90	790	711	400	36

Bridge rectifiers and SEMIPACK thyristor modules, isolated from the heatsink



Natural cooling; $T_{amb} \leq 45^\circ\text{C}$

Code Designation* $V_{VRMS} / V_D - I_d$ $V / V - A$	Device Type	Heatsink Type / L mm	Thermal Trip $^\circ\text{C}$	Overall Dimensions Height Width Depth mm mm mm			Outline Figure
B6C.../-21	SKKT 19	R4A/120		120	99	80	4
-25	SKKT 26	R4A/120		120	99	80	4
-35	SKKT 19	P3/120		120	125	174	6 α
-43	SKKT 26	P3/120		120	125	174	6 α
-52	SKKT 41	P3/120		120	125	174	6 α
-60	SKKT 41	P3/180		180	125	174	6 b
-68	SKKT 56	P3/180		180	125	174	6 b
-75	SKKT 91	P3/120		120	125	174	6 α
-85	SKKT 91	P3/180		180	125	174	6 b
-100	SKKT 132	P3/180		180	125	174	6 b

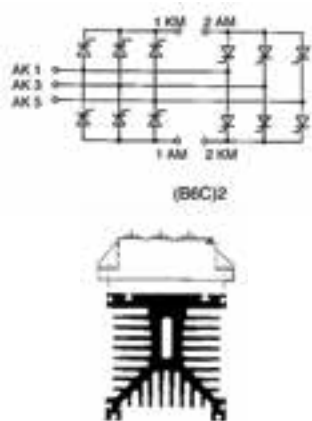


Forced air cooling; $T_{amb} \leq 35^\circ\text{C}$

Code Designation* $V_{VRMS} / V_D - I_d$ $V / V - A$	Device Type	Heatsink Type / L mm	Thermal Trip $^\circ\text{C}$	Height mm	Width mm	Depth mm	Outline Figure
B6C.../-65 F	SKDT 60	P1A/120	63	168	120	120	5 α
-77 F	SKKT 26	P3/180	63	228	125	174	6 b
-102 F	SKKT 41	P3/120	75	168	125	174	6 α
-110 F	SKKT 41	P3/180	63	228	125	174	6 b
-119 F	SKKT 56	P1A/120	75	168	120	120	5 α
-134 F	SKKT 71	P3/120	85	168	125	174	6 α
-158 F	SKKT 91	P1A/120	85	168	120	120	5 α
-175 F	SKKT 91	P3/180	80	228	125	174	6 b
-180 F	SKKT 105	P3/180	85	228	125	174	6 b
-201 F	SKKT 105	P3/265	80	313	125	174	6 c
-229 F	SKKT 132	P3/265	90	313	125	174	6 c
-266 F	SKKT 162	P3/265	85	313	125	174	6 c
-280 F	SKKT 131	P3/265	90	313	125	201	6 c
-320 F	SKKT 132	P16/200	71	433	249	210	8
-360 F	SKKT 162	P16/200	75	433	249	210	8
-380 F	SKKT 131	P16/200	71	433	249	210	8
-415 F	SKKT 161	P16/200	71	433	249	210	8
-550 F	SKKT 210	P16/200	75	433	249	210	8
-585 F	SKKT 250	P16/200	75	433	249	210	8

Thyristor modules, isolated from the heatsinks

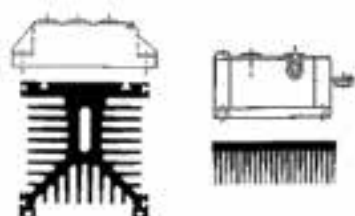
STACK
(B6C) 2..., (B6C) 2L...
38 A... 608 A
Two inverse parallel
six-pulse bridge
connections for four
quadrant converters



Natural cooling; Tamb ≤ 45 °C

Code Designation* V _{VRMS} / V _D - I _d V / V - A	Device Type	Heatsink Type / L mm	Thermal Trip °C	Overall Dimensions Height mm Width mm Depth mm			Outline Figure
(B6C)2.../... -38	SKKT 19	P3/180		180	125	174	6 b
-47	SKKT 26	P3/180		180	125	174	6 b
-60	SKKT 41	P3/180		180	125	174	6 b
-68	SKKT 56	P3/180		180	125	174	6 b
-75	SKKT 71	P3/180		180	125	174	6 b
-85	SKKT 91	P3/180		180	125	174	6 b
-88	SKKT 105	P3/180		180	125	174	6 b

Bridges not connected together

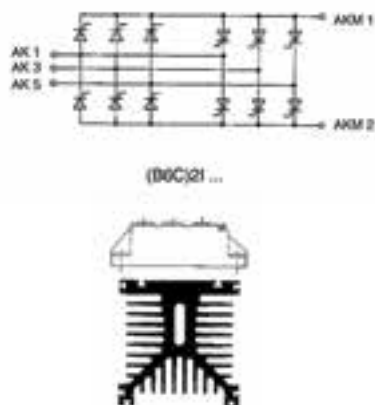


Forced air cooling; Tamb ≤ 35 °C

Code Designation* V _{VRMS} / V _D - I _d V / V - A	Device Type	Heatsink Type / L mm	Thermal Trip °C	Height mm	Width mm	Depth mm	Outline Figure
(B6C)2.../... -60 F	SKKT 19	P3/180	60	228	125	174	6 b
-77 F	SKKT 26	P3/180	63	228	125	174	6 b
-110 F	SKKT 41	P3/180	63	228	125	174	6 b
-130 F	SKKT 56	P3/180	71	228	125	174	6 b
-150 F	SKKT 71	P3/180	80	228	125	174	6 b
-180 F	SKKT 91	P3/180	80	228	125	174	6 b
-210 F	SKKT 71	P16/200	50	433	249	210	10
-260 F	SKKT 91	P16/200	56	433	249	210	10
-352 F	SKKT 132	P16/300	63	570	265	210	11
-395 F	SKKT 162	P16/300	63	570	265	210	11
-468 F	SKKT 213	P16/300	75	570	265	210	11
-515 F	SKKT 253	P16/300	75	570	265	210	11
-656 F	SKKT 210	P16/300	75	570	265	210	11
-608 F	SKKT 250	P16/300	75	570	265	210	11

Bridges not connected together

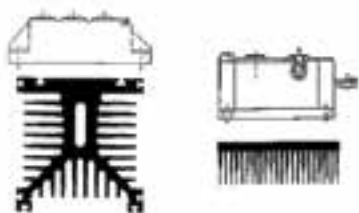
Thyristor modules, isolated from the heatsink



Natural cooling; Tamb ≤ 45 °C

Code Designation* V _{VRMS} / V _D - I _d V/V - A	Device Type	Heatsink Type / L mm	Thermal Trip °C	Overall Dimensions			Outline Figure
				Height mm	Width mm	Depth mm	
(B6C)2L.../-38	SKKT 19	P3/180		180	125	174	6 b
-47	SKKT 26	P3/180		180	125	174	6 b
-60	SKKT 41	P3/180		180	125	174	6 b
-68	SKKT 56	P3/180		180	125	174	6 b
-75	SKKT 71	P3/180		180	125	174	6 b
-85	SKKT 91	P3/180		180	125	174	6 b
-88	SKKT 105	P3/180		180	125	174	6 b

Bridges connected in antiparallel



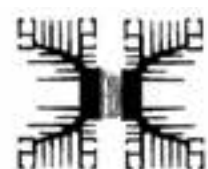
Forced air cooling; Tamb ≤ 35 °C

Code Designation* V _{VRMS} / V _D - I _d V / V - A	Device Type	Heatsink Type / L mm	Thermal Trip °C	Height mm	Width mm	Depth mm	Outline Figure
(B6C)2L.../-60 F	SKKT 19	P3/180	60	228	125	174	6 b
-77 F	SKKT 26	P3/180	63	228	125	174	6 b
-110 F	SKKT 41	P3/180	63	228	125	174	6 b
-130 F	SKKT 56	P3/180	71	228	125	174	6 b
-150 F	SKKT 71	P3/180	80	228	125	174	6 b
-180 F	SKKT 91	P3/180	80	228	125	174	6 b
-210 F	SKKT 71	P16/200	50	433	249	210	10
-260 F	SKKT 91	P16/200	56	433	249	210	10
-352 F	SKKT 132	P16/300	63	570	265	210	11
-395 F	SKKT 162	P16/300	63	570	265	210	11
-468 F	SKKT 213	P16/300	75	570	265	210	11
-515 F	SKKT 253	P16/300	75	570	265	210	11
-656 F	SKKT 210	P16/300	75	570	265	210	11
-608 F	SKKT 250	P16/300	75	570	265	210	11

Bridges connected in antiparallel

Discrete thyristors with non-isolated heatsinks

STACK
W 1 C
27 A... 1260 A
Single phase a.c. controller stacks



Natural cooling; Tamb ≤ 45 °C

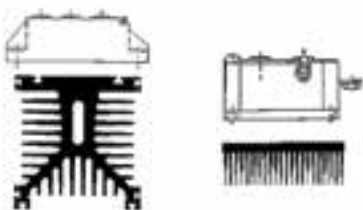
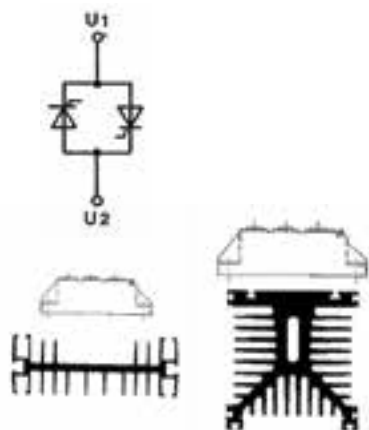
Code Designation* V _{VRMS} / V _D - I _d V/V - A	Device Type	Heatsink Type / L mm	Thermal Trip °C	Overall Dimensions			Outline Figure
				Height mm	Width mm	Depth mm	
W1C... -110	SKT 55	P1/120		120	375	210	17 α
-135	SKT 100	P1/120		120	375	210	17 α
-145	SKT 130	P1/120		120	375	210	17 α
-175	SKT 160	P1/120		120	375	210	17 α
-205	SKT 160	P1/200		200	375	210	17 c
-230	SKT 250	P1/150		150	375	210	17 b
-256	SKT 250	P1/200		200	375	210	17 c
-310	SKT 300	P1/200		200	375	210	17 c
-312	SKT 240	P11/415		415	176	280	23
-344	SKT 340	P11/415		415	176	280	23
-370	SKT 491	P11/415		415	176	280	23
-445	SKT 551	P11/415		415	176	280	23
-495	SKT 600	P11/415		415	176	280	23
-550	SKT 760	P11/415		415	176	280	23
-595	SKT 600	U3/515		515	220	295	24
-628	SKT 760	U3/515		515	220	295	24
-780	SKT 1200	U3/515		515	220	295	24



Forced air cooling; Tamb ≤ 35 °C

Code Designation* V _{VRMS} / V _D - I _d V/V - A	Device Type	Heatsink Type / L mm	Thermal Trip °C	Height mm	Width mm	Depth mm	Outline Figure
W 1 C... -166 F	SKT 55	P1/120	56	178	375	210	17 α
-226 F	SKT 100	P1/120	63	178	375	230	17 α
-264 F	SKT 130	P1/120	80	178	375	230	17 α
-319 F	SKT 160	P1/120	80	178	375	230	17 α
-490 F	SKT 250	P1/150	85	208	375	230	17 b
-600 F	SKT 300	P1/150	90	208	375	230	17 b
-665 F	SKT 300	P1/200	85	208	375	230	17 c
-990 F	SKT 760	P19/190	95	315	215	320	37
-1260 F	SKT 1200	P19/190	100	315	215	320	37

Thyristor modules, isolated from the heatsink



Natural cooling; Tamb ≤ 45 °C

Code Designation* V _{VRMS} / I _{VRMS} V - A	Device Type	Heatsink Type / L mm	Thermal Trip °C	Overall Dimensions Height Width Depth mm mm mm			Outline Figure
W1C... -27	SKKT 19	R4A/120		120	99	80	4
-33	SKKT 26	R4A/120		120	99	80	4
-41	SKKT 41	R4A/120		120	99	80	4
-47	SKKT 56	R4A/120		120	99	80	4
-52	SKKT 71	R4A/120		120	99	80	4
-57	SKKT 91	R4A/120		120	99	80	4
-65	SKKT 41	P3/120		120	125	174	6 α
-75	SKKT 56	P3/120		120	125	174	6 α
-85	SKKT 71	P3/120		120	125	174	6 α
-100	SKKT 91	P3/120		120	125	174	6 α
-105	SKKT 105	P3/120		120	125	174	6 α
-110	SKKT 91	P3/180		120	125	174	6 b
-118	SKKT 105	P3/180		120	125	174	6 b

Forced air cooling; Tamb ≤ 35 °C

Code Designation* V _{VRMS} / I _{VRMS} V - A	Device Type	Heatsink Type / L mm	Thermal Trip °C	Height mm	Width mm	Depth mm	Outline Figure
W 1 C... -55 F	SKKT 19	P3/120	50	168	125	174	6 α
-72 F	SKKT 26	P3/120	50	168	125	174	6 α
-107 F	SKKT 41	P3/120	56	168	125	174	6 α
-127 F	SKKT 56	P3/120	56	168	125	174	6 α
-150 F	SKKT 71	P3/120	63	168	125	174	6 α
-184 F	SKKT 91	P3/120	63	168	125	174	6 α
-192 F	SKKT 105	P3/120	63	168	125	174	6 α
-200 F	SKKT 105	P3/180	63	228	125	174	6 b
-240 F	SKKT 132	P3/180	71	228	125	174	6 b
-265 F	SKKT 162	P3/180	71	228	125	174	6 b
-279 F	SKKT 131	P3/180	80	228	125	201	6 b
-322 F	SKKT 213	P3/180	85	228	125	201	6 b
-355 F	SKKT 253	P3/180	85	228	125	201	6 b
-383 F	SKKT 210	P3/180	85	228	125	201	6 b
-410 F	SKKT 250	P3/180	80	228	125	201	6 b
-429 F	SKKT 213	P16/200	63	433	249	210	9
-472 F	SKKT 253	P16/200	63	433	249	210	9
-526 F	SKKT 210	P16/200	63	433	249	210	9
-566 F	SKKT 250	P16/200	63	433	249	210	9

Discrete thyristors with non-isolated heatsinks

STACK
W3C2
3 x 21 A... 3 x 1760 A
Three-phase a.c. controller stacks
with two control elements for
multicycle control ¹⁾

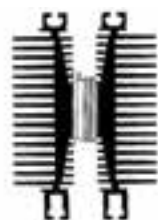


Natural cooling; Tamb ≤ 45 °C

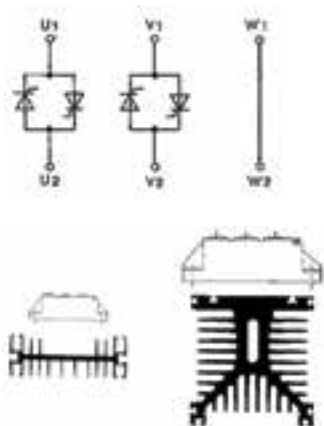
Code Designation* V _{VRMS} / I _{RMS} V - A	Device Type	Heatsink Type / L mm	Thermal Trip °C	Overall Dimensions			Outline Figure
				Height mm	Width mm	Depth mm	
W3C2... -105	SKT 55	P1/120		255	375	210	18 α
-135	SKT 100	P1/150		315	375	210	18 b
-145	SKT 130	P1/150		315	375	210	18 b
-175	SKT 160	P1/150		315	375	210	18 b
-190	SKT 160	P1/200		415	375	210	18 c
-230	SKT 250	P1/200		415	375	210	18 c
-275	SKT 300	P1/200		415	375	210	18 c
-312	SKT 240	P11/415		495	500	325	22 α
-344	SKT 340	P11/415		495	500	325	22 α
-370	SKT 491	P11/415		495	500	325	22 α
-445	SKT 551	P11/415		495	500	325	22 α
-495	SKT 600	P11/415		495	500	325	22 α
-550	SKT 760	P11/415		495	500	325	22 α
-595	SKT 600	U3/515		690	560	290	26 α
-628	SKT 760	U3/515		690	560	290	26 α
-780	SKT 1200	U3/515		690	560	290	26 α

Forced air cooling; Tamb ≤ 35 °C

Code Designation* V _{VRMS} / I _{RMS} V - A	Device Type	Heatsink Type / L mm	Thermal Trip °C	Height mm	Width mm	Depth mm	Outline Figure
W3C2... -166 F	SKT 55	P1/150	56	373	375	210	18 b
-226 F	SKT 100	P1/150	63	373	375	210	18 b
-264 F	SKT 130	P1/150	80	373	375	210	18 b
-319 F	SKT 160	P1/150	80	373	375	210	18 b
-438 F	SKT 250	P1/150	90	373	375	210	18 b
-531 F	SKT 300	P1/150	95	373	375	210	18 b
-590 F	SKT 340	P18/130	80	563	358	342	27 α
-715 F	SKT 491	P18/130	90	563	358	342	27 α
-880 F	SKT 551	P18/130	90	563	358	342	27 α
-960 F	SKT 600	P18/130	90	563	382	342	27 b
-1080 F	SKT 760	P18/130	90	563	382	342	27 b
-1150 F	SKT 1000	P18/130	100	563	382	342	27 b
-1370 F	SKT 1200	P18/130	100	563	382	342	27 b
-1490 F	SKT 1000	N4/250	90	790	422	488	33
-1760 F	SKT 1200	N4/250	90	790	422	488	33



Thyristor modules, isolated from the heatsink

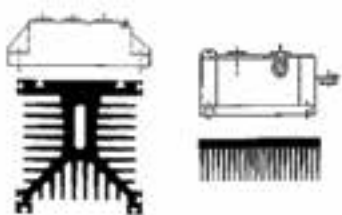


Natural cooling; $T_{amb} \leq 45^\circ\text{C}$

Code Designation* $V_{VRMS} / V_{IRMS}^{(2)}$ V/V - A	Device Type	Heatsink Type / L mm	Thermal Trip $^\circ\text{C}$	Overall Dimensions Height Width Depth mm mm mm			Outline Figure
W3C2... -21	SKKT 19	R4A/120		120	99	80	4
-25	SKKT 26	R4A/120		120	99	80	4
-29	SKKT 41	R4A/120		120	99	80	4
-42	SKKT 26	P3/180		180	125	174	6 b
-47	SKKT 41	P3/120		120	125	174	6 a
-55	SKKT 41	P3/180		180	125	174	6 b
-65	SKKT 56	P3/180		180	125	174	6 b
-70	SKKT 71	P3/180		180	125	174	6 b
80	SKKT 91	P3/180		180	125	174	6 b
-86	SKKT 105	P3/180		180	125	174	6 b

1) i.e. for heating control. With phase control, this circuit configuration would cause a strong imbalance of currents in the three phases.

2) RMS current per phase.



Forced air cooling; $T_{amb} \leq 35^\circ\text{C}$

Code Designation* $V_{VRMS} / V_{IRMS}^{(2)}$ V/V - A	Device Type	Heatsink Type / L mm	Thermal Trip $^\circ\text{C}$	Height mm	Width mm	Depth mm	Outline Figure
W3C2... -50 F	SKKT 19	P3/120	56	168	125	174	6 a
-67 F	SKKT 26	P3/180	60	228	125	174	6 b
-91 F	SKKT 41	P3/120	63	168	125	174	6 a
-107 F	SKKT 56	P3/120	71	168	125	174	6 a
-122 F	SKKT 71	P3/120	75	168	125	174	6 a
-155 F	SKKT 91	P3/180	75	228	125	174	6 b
-163 F	SKKT 105	P3/180	80	228	125	174	6 b
-190 F	SKKT 132	P3/180	90	228	125	174	6 b
-210 F	SKKT 162	P3/180	90	228	125	174	6 b
-275 F	SKKT 132	P16/200	71	433	249	210	9
-305 F	SKKT 162	P16/200	71	433	249	210	9
-333 F	SKKT 131	P16/200	63	433	249	210	9
-393 F	SKKT 213	P16/200	71	433	249	210	9
-433 F	SKKT 253	P16/200	71	433	249	210	9
-478 F	SKKT 210	P16/200	75	433	249	210	9
-513 F	SKKT 250	P16/200	75	433	249	210	9

Discrete thyristors with non-isolated heatsinks

STACK

W3C

3 x 16 A... 3 x 2695 A

Three-phase a.c. controller stacks



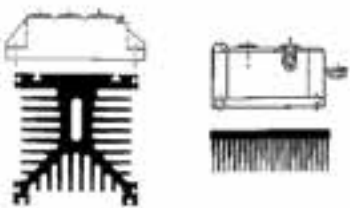
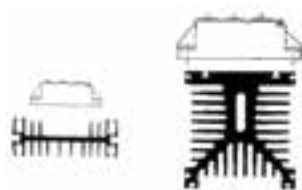
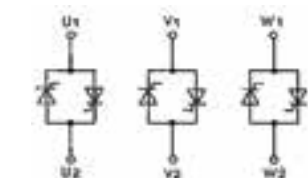
Natural cooling; Tamb ≤ 45 °C

Code Designation* V _{VRMS} / V _{IRMS} V - A	Device Type	Heatsink Type / L mm	Thermal Trip °C	Overall Dimensions			Outline Figure
				Height mm	Width mm	Depth mm	
W3C... -105	SKT 55	P1/120		255	510	210	18 d
-135	SKT 100	P1/150		315	510	210	18 e
-175	SKT 160	P1/150		315	510	210	18 e
-190	SKT 160	P1/200		415	510	210	18 f
-230	SKT 250	P1/200		415	510	210	18 f
-275	SKT 300	P1/200		415	510	210	18 f
-312	SKT 240	P11/415		495	700	325	22 b
-344	SKT 340	P11/415		495	700	325	22 b
-370	SKT 491	P11/415		495	700	325	22 b
-445	SKT 551	P11/415		495	700	325	22 b
-495	SKT 600	P11/415		495	700	325	22 b
-550	SKT 760	P11/415		495	700	325	22 b
-595	SKT 600	U3/515		690	800	280	26 b
-628	SKT 760	U3/515		690	800	280	26 b
-780	SKT 1200	U3/515		690	800	280	26 b

Forced air cooling; Tamb ≤ 35 °C

Code Designation* V _{VRMS} / V _{IRMS} V - A	Device Type	Heatsink Type / L mm	Thermal Trip °C	Overall Dimensions			Outline Figure
				Height mm	Width mm	Depth mm	
W3C... -166 F	SKT 55	P1/150	56	373	510	210	18 e
-226 F	SKT 100	P1/150	63	373	510	210	18 e
-264 F	SKT 130	P1/150	80	373	510	210	18 e
-319 F	SKT 160	P1/150	80	373	510	210	18 e
-438 F	SKT 250	P1/150	90	373	510	210	18 e
-531 F	SKT 300	P1/150	95	373	510	210	18 e
-570 F	SKT 300	P1/200	90	473	510	210	18 f
-640 F	SKY 491	P17/130	90	563	376	342	30
-785 F	SKY 551	P17/130	90	563	376	342	30
-850 F	SKY 600	P17/130	95	563	376	342	30
-950 F	SKY 760	P17/130	95	563	376	342	30
-1000 F	SKY 1000	P17/130	100	563	376	342	30
-1130 F	SKY 1200	P17/130	100	563	376	342	30
-1275 F	SKT 1000	P18/180	95	719	532	360	32
-1510 F	SKT 1200	P18/180	95	719	532	360	32
-1770 F	SKT 1000	N4/250	85	790	591	488	35
-2090 F	SKT 1200	N4/250	85	790	591	488	35
-2695 F	SKT 1800	N4/250	90	790	591	488	35

Thyristor modules, isolated from the heatsink



Natural cooling; Tamb ≤ 45 °C

Code Designation*	Device	Heatsink	Thermal	Overall Dimensions			Outline
V _{VRMS} / I _{IRMS} V - A	Type	Type / L mm	Trip °C	Height mm	Width mm	Depth mm	Figure
W3C... -16	SKKT 19	R4A/120		120	99	80	4
-19	SKKT 26	R4A/120		120	99	80	4
-27	SKKT 19	P3/120		120	125	174	6 a
-37	SKKT 26	P3/180		180	125	174	6 b
-45	SKKT 41	P3/180		180	125	174	6 b
-52	SKKT 56	P3/180		180	125	174	6 b
-56	SKKT 71	P3/180		180	125	174	6 b
-65	SKKT 91	P3/180		180	125	174	6 b
-70	SKKT 105	P3/180		180	125	174	6 b
-75	SKKT 132	P3/180		180	125	174	6 b

Forced air cooling; Tamb ≤ 35 °C

Code Designation* V _{VRMS} / I _{IRMS} V - A	Device Type	Heatsink Type / L mm	Thermal Trip °C	Height mm	Width mm	Depth mm	Outline Figure
W3C... -46 F	SKKT 19	P3/120	63	168	125	174	6 a
-59 F	SKKT 26	P3/120	63	168	125	174	6 a
-85 F	SKKT 41	P3/180	71	228	125	174	6 b
-100 F	SKKT 56	P3/180	63	228	125	174	6 b
-106 F	SKKT 71	P3/120	85	168	125	174	6 a
-124 F	SKKT 91	P3/120	85	168	125	174	6 a
-140 F	SKKT 105	P3/180	85	228	125	174	6 b
-163 F	SKKT 132	P3/180	95	228	125	174	6 b
-185 F	SKKT 162	P3/180	90	228	125	174	6 b
-205 F	SKKT 162	P3/265	90	313	125	201	6 c
-251 F	SKKT 213	P3/265	95	313	125	201	6 c
-277 F	SKKT 253	P3/265	95	313	125	201	6 c
-312 F	SKKT 162	P16/200	71	433	249	210	9
-365 F	SKKT 213	P16/200	75	433	249	210	9
-402 F	SKKT 253	P16/200	75	433	249	210	9
-440 F	SKKT 210	P16/200	80	433	249	210	9
-471 F	SKKT 250	P16/200	80	433	249	210	9

Discrete rectifier diodes with non-isolated heatsinks

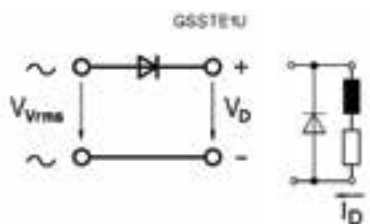
STACK

E1U

52 A ... 790 A

Free wheeling diodes

Blocking diodes



Natural cooling; Tamb ≤ 45 °C

Code Designation* V _{VRMS} / V _D - I _{IRMS} V/V - A	Device Type	Heatsink Type / L mm	Thermal Trip °C	Overall Dimensions			Outline Figure
				Height mm	Width mm	Depth mm	
E1U.../-52	SKN 100	C3/120		120	40	130	12
-75	SKN 70	P1/60		60	120	210	17 α
-110	SKN 100	P1/120		120	120	210	17 α
-135	SKN 130	P1/150		150	120	210	17 b
-195	SKN 240	P1/150		150	120	210	17 b
-250	SKN 320	P1/200		200	120	210	17 c
-335	SKN 320	P4/200		200	170	270	20 α
-520	SKN 1500	P11/200		200	176	275	21 α
-790	SKN 2000	U3/250		250	220	295	24

CONTATTI

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