

V V I _{TAV} = 55 A (sin. 180; T _c = 92 °C) 500 400 SKT 55/04D 700 600 SKT 55/06D 900 800 SKT 55/08D	V_{RSM}	V_{RSM} V_{RRM}	$I_{TRMS} = 110 A$	A (maximum value for continuous operation)		
700 600 SKT 55/06D	V	V	V	I _{TAV} = 55 A (sin. 180; T _c = 92 °C)		
	500	500 4	100 SKT 55/04D			
900 800 SKT 55/08D	700	700 6	300 SKT 55/06D			
1 222 222	900	900 8	300 SKT 55/08D			
1300 1200 SKT 55/12E	1300	1300 12	200 SKT 55/12E			
1500 1400 SKT 55/14E	1500	1500 14	400 SKT 55/14E			
1700 1600 SKT 55/16E	1700	1700 10	600 SKT 55/16E			
1900 1800 SKT 55/18E	1900	1900 18	800 SKT 55/18E			

Stud Thyristor

Line Thyristor

SKT 55

Features

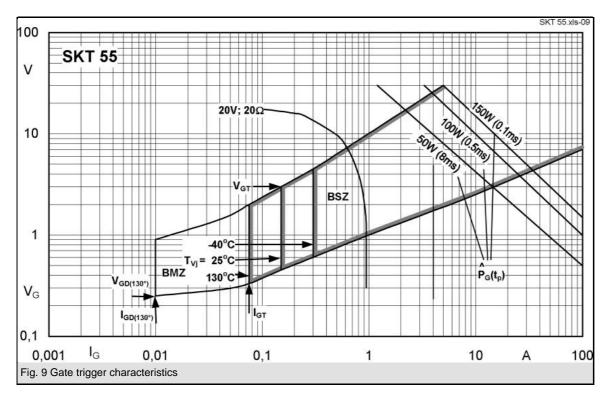
- Hermetic metal case with glass insulator
- Threaded stud ISO M12
- International standard case

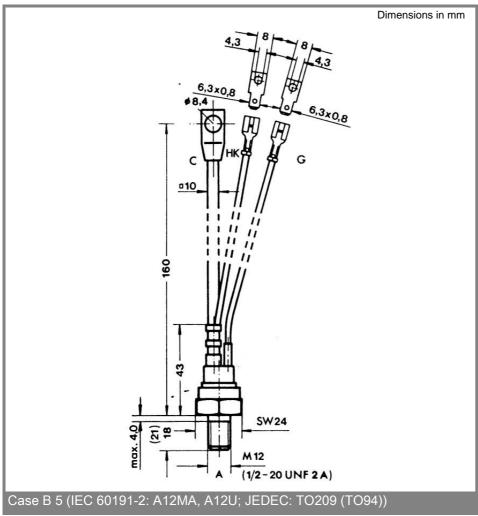
Typical Applications*

- DC motor control (e. g. for machines tools)
- Controlled rectifiers(e. g. for battery charging)
- AC controllers
 (e. g. for temperature control)
- Recommended snubber network e. g. for $V_{VRMS} \le 400 \text{ V}$: R = 47 $\Omega/10 \text{ W}$, C = 0,22 μF

Symbol	Conditions	Values	Units
I _{TAV}	sin. 180; T _c = 100 (85) °C;	47 (63)	Α
I _D	K3; T _a = 45 °C; B2 / B6	42 / 60	Α
_	K1,1; T _a = 45 °C; B2 / B6	76 /110	Α
I _{RMS}	K3; T _a = 45 °C; W1C	46	Α
I _{TSM}	T _{vi} = 25 °C; 10 ms	1300	Α
	T _{vi} = 130 °C; 10 ms	1100	Α
i²t	T _{vj} = 25 °C; 8,35 10 ms	8500	A²s
	T _{vj} = 130 °C; 8,35 10 ms	6000	A²s
V _T	T _{vi} = 25 °C; I _T = 200 A	max. 1,8	V
$V_{T(TO)}$	T _{vi} = 130 °C	max. 0,9	V
r _T	T _{vj} = 130 °C	max. 4	mΩ
I_{DD} ; I_{RD}	$T_{vj} = 130 ^{\circ}\text{C}; V_{RD} = V_{RRM}; V_{DD} = V_{DRM}$	max. 25	mA
t _{gd}	T_{vj} = 25 °C; I_G = 1 A; di_G/dt = 1 A/ μ s	1	μs
t_{gr}	V _D = 0,67 * V _{DRM}	2	μs
(di/dt) _{cr}	T _{vi} = 130 °C	max. 50	A/µs
(dv/dt) _{cr}	T _{vi} = 130 °C ; SKTD / SKTE	max. 500 / 1000	V/µs
t _q	T _{vi} = 130 °C ,	100	μs
I _H	$T_{vj} = 25 ^{\circ}\text{C}$; typ. / max.	150 / 250	mA
I_{L}	T_{vj} = 25 °C; typ. / max.	300 / 600	mA
V _{GT}	T _{vi} = 25 °C; d.c.	min. 3	V
I _{GT}	$T_{vj} = 25 ^{\circ}\text{C}; \text{d.c.}$	min. 150	mA
V_{GD}	$T_{vj} = 130 ^{\circ}\text{C}; \text{ d.c.}$	max. 0,25	V
I_{GD}	$T_{vj} = 130 ^{\circ}\text{C}; \text{d.c.}$	max. 10	mA
R _{th(j-c)}	cont.	0,4	K/W
R _{th(j-c)}	sin. 180	0,47	K/W
$R_{th(j-c)}$	rec. 120	0,53	K/W
$R_{th(c-s)}$		0,08	K/W
T_{vj}		- 40 + 130	°C
T_{stg}		- 55 + 150	°C
V _{isol}		-	V~
M_s	to heatsink	10	Nm
а		5 * 9,81	m/s²
m	approx.	100	g
Case		B 5	







^{*} The specifications of our components may not be considered as an assurance of component characteristics. Components have to be tested for the respective application. Adjustments may be necessary. The use of SEMIKRON