

Solid State

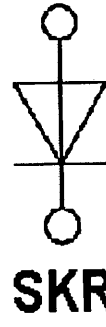
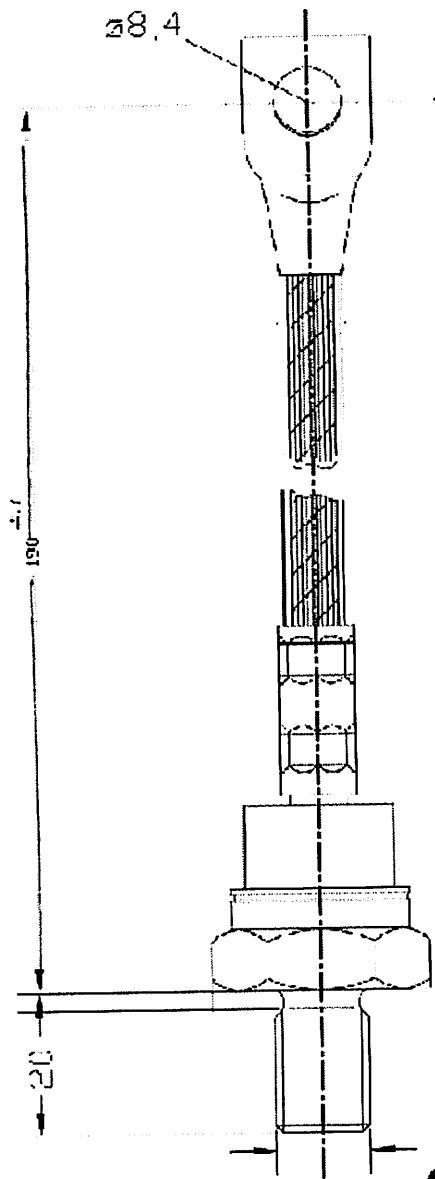
SKN/SKR240 Series

240 Amp Rectifier

Up to 1800 Volts

V_{RSM} V	V_{RRM} V	$I_{FRMS} = 500$ A (maximum value for continuous operation)	
		$I_{FAV} = 240$ A (sin. 180; $T_c = 125$ °C)	
400	400	SKN 240/04	SKR 240/04
800	800	SKN 240/08	SKR 240/08
1200	1200	SKN 240/12	SKR 240/12
1400	1400	SKN 240/14	SKR 240/14
1600	1600	SKN 240/16	SKR 240/16
1800	1800	SKN 240/18	SKR 240/18

Symbol	Conditions	Values	Units
I_{FAV}	sin. 180; $T_c = 100$ °C	320	A
I_D	K 0,55; $T_a = 45$ °C; B2 / B6	340 / 480	Λ
	K 0,55F; $T_a = 35$ °C; B2 / B6	620 / 840	A
I_{FSM}	$T_{vj} = 25$ °C; 10 ms	6000	A
	$T_{vj} = 180$ °C; 10 ms	5000	A
i^2t	$T_{vj} = 25$ °C; 8,3 ... 10 ms	180000	Λ ² s
	$T_{vj} = 180$ °C; 8,3 ... 10 ms	125000	Λ ² s
V_F	$T_{vj} = 25$ °C; $I_F = 750$ A	max. 1,4	V
$V_{j(TO)}$	$T_{vj} = 180$ °C	max. 0,85	V
r_T	$T_{vj} = 180$ °C	max. 0,6	mΩ
I_{RD}	$T_{vj} = 180$ °C; $V_{RD} = V_{RRM}$	max. 60	mA
Q_{TT}	$T_{vj} = 160$ °C; $-di_{L}/dt = 10$ A/μs	200	μC
$R_{th(j-c)}$		0,2	K/W
$R_{th(c-s)}$		0,03	K/W
T_{vj}		- 40 ... + 180	°C
T_{sig}		- 55 ... + 180	°C



3/4 - 16 - 2A