SKN 400

	V _{RSM}	V _{RRM}	I _{FRMS} = 700 A (ma	ximum value for continuous oper	ation)
	V	V	I _{FAV} = 4	I _{FAV} = 400 A (sin. 180; T _c = 100 °C)	
	1800	1800	SKN 400/18		
	2400	2400	SKN 400/24		
	2700	2700	SKN 400/27		
	3000	3000	SKN 400/30		
	Symbol Conditions		Values	Units	
	I _{FAV}	sin. 180; T _c = 85 (100) °C		445 (400)	А
	ID	K 0,55; T _a = 45 °C; B2 / B6		310 / 450	A
Stud Diode		K 0,55F; T _a = 35 °C	; B2 / B6	700 / 1000	А
Rectifier Diode	I _{FSM}	T _{vj} = 25 °C; 10 ms T _{vi} = 160 °C; 10 ms		9000	Α
				7500	А
	i²t	T _{vi} = 25 °C; 8,3 10 ms		400000	A²s
	T _{vi} = 160 °C; 8,3 10 ms		280000	A²s	
	V _F	T _{vi} = 25 °C; I _F = 1200 A		max. 1,45	V
SKN 400	V _(TO)	$T_{v_i}^{i} = 160 \ ^{\circ}C$		max. 0,9	V
	r _T	T _{vi} = 160 °C		max. 0,5	mΩ
	I_{RD} $T_{vj} = 160 \text{ °C}; V_{RD} = V_{RRM}$		max. 60	mA	
	Q _{rr}	T _{vj} = 160 °C; - di _F /dt = 10 A/μs		400	μC
	R _{th(j-c)}			0,11	K/W
	R _{th(c-s)}			0,01	K/W
	T _{vi}			- 40 + 160	°C
Features	T _{stg}			- 55 + 160	°C
Reverse voltages up to 3000 V	V _{isol}			-	٧~
Hermetic metal case with ceramic	M _s to heatsink		60	Nm	
insulator with extra long creepage	a			5 * 9,81	m/s²
distances	m	approx.		500	g
Threaded stud ISO M24 x 1,5	Case			E 17	-
SKN: anode to stud					

Typical Applications

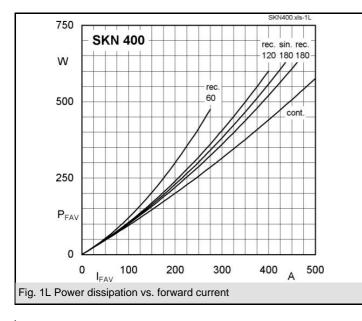
- High voltage rectifier diode, especially for traction applications
- Cooling via heatsinks
- Non-controllable and half-controllable rectifiers
- Free-wheeling diodes

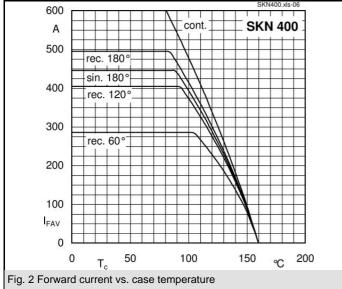
SKN

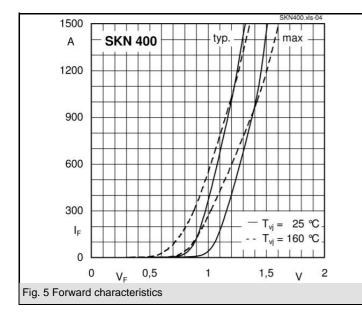
• Recommended snubber network: RC: 1 μ F, 20 Ω (P_R = 2 W), R_p = 25 k Ω (P_R = 20 W)

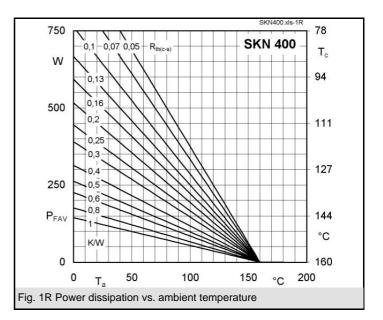


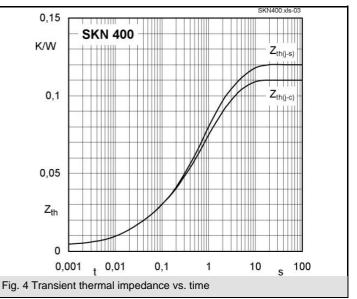
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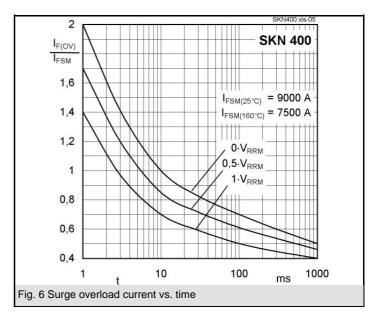




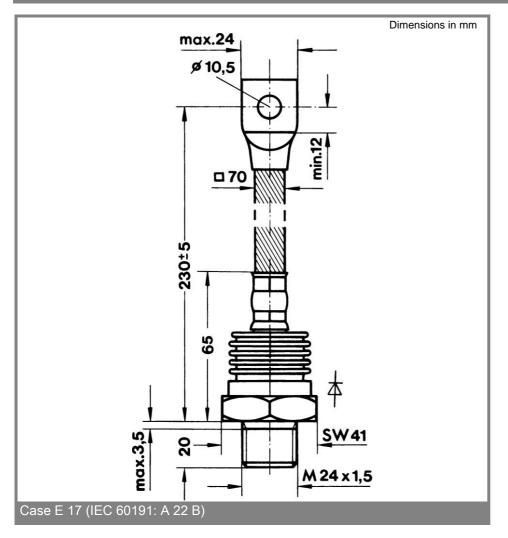








SKN 400



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