SKN 175, SKR 175



V _{RSM}	V _{RRM}	I_{FRMS} =260 A (maximum value for continuous operation) I_{FAV} = 175 A (sin. 180; T_c = 125 °C)	
800	800	SKN 175/08 ¹	SKR 175/08 ¹
1200	1200	SKN 175/12 ¹	SKR 175/12 ¹

Stud Diode

Rectifier Diode

SKN 175 SKR 175

Features

- Reverse voltages up to 1200 V
- Hermetic metal cases with glass insulator
- Threaded stud M12x1,75 mm.
- SKN: anode to stud
- SKR: cathode to stud

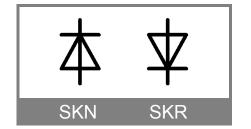
Typical Applications *

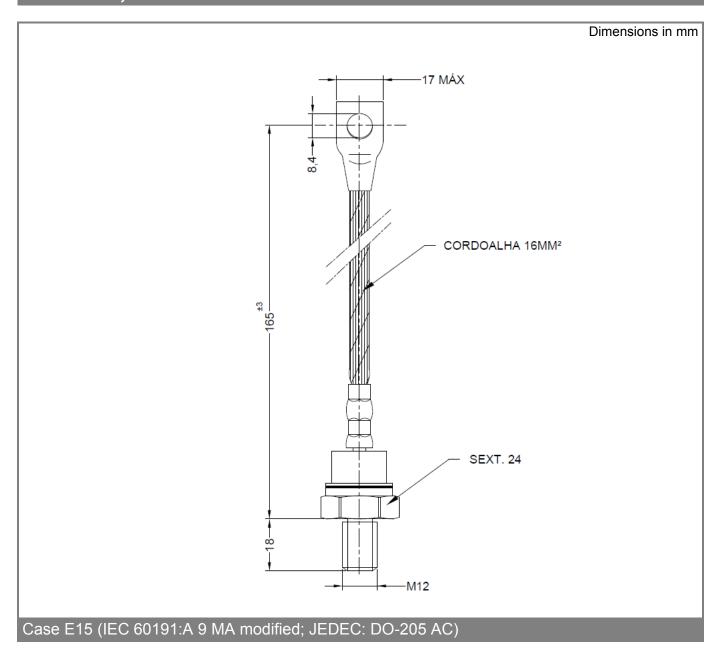
- All-purpose mean power rectifier diodes
- Cooling via heatsinks
- Non-controllable and halfcontrollable rectifiers
- Free-wheeling diodes
- Recommended snubber network:

R_C: 1,0 μ F, 20 Ω (P_R = 2W), R_p: 25 k Ω (P_R = 20 W)

 To include isolation silicone sleeve, "C/ ESPAG." should be added in description.
Mounting with grease-like thermal compound or joint contact compound.

Symbol	Condition	Values	Units
I _{FAV}	sin. 180 ; T _C = 100 (130) °C	225 (160)	Α
I _{FSM}	T _{vj} = 25° C ; 10 ms	4000	Α
	$T_{vj} = 180^{\circ} \text{ C}$; 10 ms	3300	A
i ² t	$T_{vj} = 25^{\circ} \text{ C}$; 8,310 ms	80000	A ² s
	T _{vj} = 180° C ; 8,310 ms	54400	A ² s
VF	$T_{vj} = 25^{\circ} \text{ C}, I_F = 500 \text{ A}$	max. 1,3	V
$V_{(TO)}$	$T_{vj} = 180^{\circ} C$	max. 0,8	V
r_{T}	$T_{vj} = 180^{\circ} C$	max. 1,0	mΩ
I_{RD}	$T_{vj} = 180^{\circ} \text{ C}$; $V_R = V_{RRM}$	max. 22	mA
	$T_{vj} = 25^{\circ} C$; $V_R = V_{RRM}$	max. 1	mA
Qrr	T _{vj} = 160°C, -di _F /dt = 10 A/μs	typ. 80	μC
R _{th(j-c)}		0,25	K/W
R _{th(c-s)}		0,08	K/W
T_{vj}		-40+180	°C
T _{stg}		-40+180	°C
Visol		_	V~
Ms	to heatsink	10	Nm
	to heatsink (lubricated) ²	7.5	Nm
а	, ,	5 * 9,81	m/s ²
m	approx.	100	g
Case		E14	





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