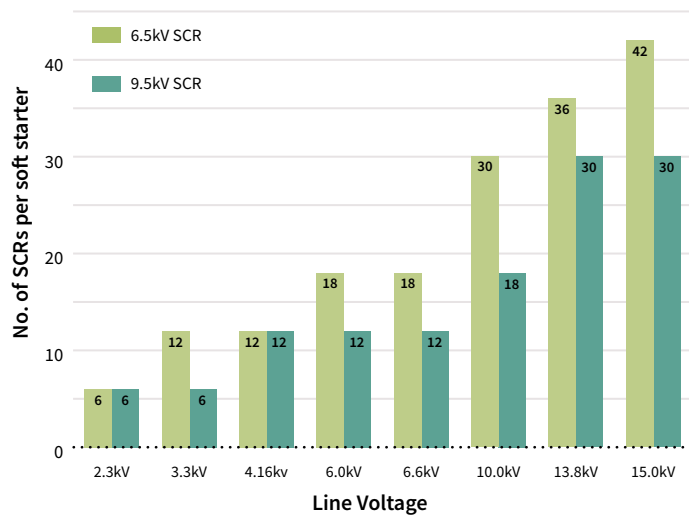


Product Brief

600 A / 9.5 kV Thyristor

For medium-voltage soft starters,
power supplies and general-purpose drives

The 9.5 kV thyristor silicon controlled rectifiers (SCRs) disc has been developed and designed for the special requirements of medium-voltage soft starter as well as medium-voltage power supply applications. For these kinds of applications, it is necessary to use several silicon controlled rectifiers in series connection. The T600N95TOH is optimized to deliver excellent voltage sharing under all operating conditions. High-tech production processes deliver outstanding dynamic parameters for best-cost designs with less series-connected devices. The SCR is also suitable for general-purpose line voltage rectifier applications, e.g. power supplies and general-purpose drives.



The diagram above shows that 33% - 50% fewer SCRs, heat sinks and gate units are needed 9.5 kV SCRs are used instead of the 6.5 kV versions. This results in both significant cost and volume reductions as well as higher reliability.



Key benefits

- > Less devices in series due to high blocking voltage
- > Simple way of series connection
- > High surge current capability
- > Easy for mounting due to standard housing

Key features

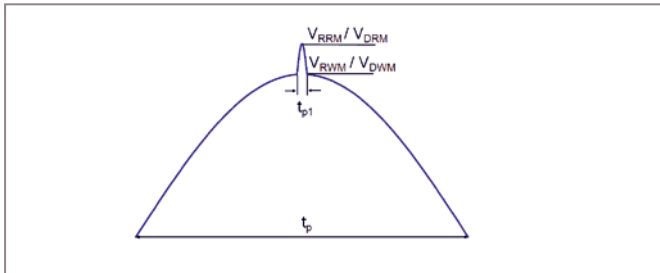
- > Ratings
 - $V_{DRM} = V_{RRM} = 9500\text{ V}$
 - $I_{TAVM} = 600\text{ A}$
- > Housing Dimensions
 - Height = 26 mm
 - Diameter = 75 mm

Applications

- > Medium-voltage soft starters
- > Medium-voltage power supplies
- > General-purpose drives

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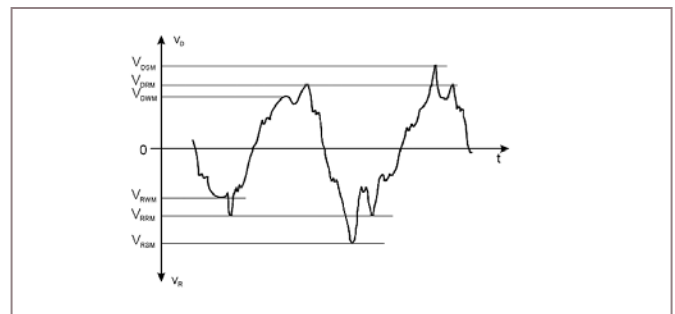


Electrical parameters

T600N95TOH		
> V_{DRM}	= V_{RRM}	= 9500 V
> V_{DWM}	= V_{RWM}	= 8000 V
> t_p	= 10 ms;	t_{p1} = 300 μ s
> I_{TAVM}	= 600 A	(T_c = 85 °C)
> I_{TSM}	= 12 kA	

According to IEC standard 60747-6

- > V_{DSM} – Non-repetitive peak off-state voltage
The highest instantaneous voltage of any non-repetitive off-state voltage.
- > V_{DRM} – Repetitive peak off-state voltage
The highest instantaneous voltage of any repetitive offstate voltage.
- > V_{DWM} – Crest working off-state voltage
The highest instantaneous value of the off-voltage, excluding all repetitive and non-repetitive transient voltages.



Sales Information

Part number	Status	Order number
T600N95TOH	in production	SP000972222

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