

Product Brief

Silicon controlled rectifiers for medium-voltage soft starters

6500 V thyristor disc series

The 6.5 kV thyristor disc series consists of four robust and powerful disc device types developed and designed for the special requirements of medium-voltage soft starter applications. All devices are designed for high surge current capability. Excellent voltage sharing optimizes series connection capabilities for soft starter applications in particular. High-tech production processes deliver outstanding dynamic parameters for best-cost designs with less series-connected devices.

The devices are also suitable for general-purpose line voltage rectifier applications, e.g. power supplies and standard drives.

Typical applications for medium-voltage drives

- > Mining excavators
- > Gas and Oil pumps
- > Compressors for cooling stations

Key benefits

- > Simple way of series connection
- > High surge current capability
- > Easy for mounting due to standard housing

Key features

- > Blocking voltage
 $V_{\text{DRM}} = V_{\text{RRM}} = 6500 \text{ V}$
- > Housing dimensions
Diameter = 58 mm ... 111 mm
Height = 26 mm

Applications

- > Medium-voltage soft starters
- > Medium-voltage power supplies
- > Standard drives



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Electrical parameters – outline dimensions

Part Number	$V_{DRM} = V_{RRM}$	I_{TAVM}	I_{TSM}
T280N65TOF	=6500 V	=280 A ($T_c = 85^\circ\text{C}$)	=4.8 kA
T570N65TOF	=6500 V	=540 A ($T_c = 85^\circ\text{C}$)	=9.4 kA
T1060N65TOF	=6500 V	=1060 A ($T_c = 85^\circ\text{C}$)	=22.5 kA
T1620N65TOF	=6500 V	=1620 A ($T_c = 85^\circ\text{C}$)	=32 kA

Part Number	Dimensions (mm)	Notes
T58.26K0	$\phi 58.2$, $\phi 36.5 \pm 0.1$, $\phi 56.2$, 26.5 ± 0.2 , $\phi 3.5 \times 3.5$ both sides, 5 Connector 4.8x0.5, 4 Connector 2.8x0.5, 4 Connector $\phi 1.5$ based on AMP60598	Creepage distance: 20mm Clearance distance: 15mm
T75.26K0	$n 75.1 \pm 2$, $n 50 \pm 0.1$, $n 73.5 \pm 2$, 26.5 ± 0.2 , $\phi 3.5 \times 3.5$ both sides, 5 Connector 4.8x0.5, 4 Connector 2.8x0.5, 4 Connector 1.5 based on AMP60598	Creepage distance: 20mm Clearance distance: 15mm overall height based on contact pressure
T100.26K0	$\phi 100.2$, $\phi 67 \pm 0.1$, $\phi 93.2 \pm 0.2$, 26.5 ± 0.2 , $\phi 3.5 \times 3.5$ both sides, 5 Connector 4.8x0.5, 4 Connector 2.8x0.5, 4 Connector $\phi 1.5$ based on AMP60598	Creepage distance: 20mm Clearance distance: 15mm
T111.26K0	$\phi 111.2$, $\phi 72 \pm 0.1$, $\phi 106.2 \pm 0.2$, 26.5 ± 0.2 , $\phi 3.5 \times 3.5$ both sides, 5 connector 4.8x0.5, 4 connector 2.8x0.5, 4 connector $\phi 1.5$ based on AMP 60598	Creepage distance: 20mm Clearance distance: 15mm

Sales Information

Part number	Status	Ordering code
T280N65TOF	in production	SP001216020
T570N65TOF	in production	SP001215982
T1060N65TOF	in production	SP000880960
T1620N65TOF	in production	SP000991194

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