



Snubberless[™] Triacs in TO-3PF packages for dusty and humid environments

T2650-6PF and T4050-6PF





Is it possible to design industrial AC switches for the harshest environments?



Triacs in TO-3PF plastic molded package

Increase AC switching robustness in dusty and humid environments





Triacs for Dusty and Humid Environments (Pollution Degree 3 and 4)

Thanks to their creepage distance, TO-3PF Triacs work in the most dusty and humid environments.







T2650-6PF and T4050-6PF offer a creepage distance of 4.4 mm. They are compatible with:

- 120V AC Application up to Pollution degree 4
- 240V AC applications up to Pollution degree 3



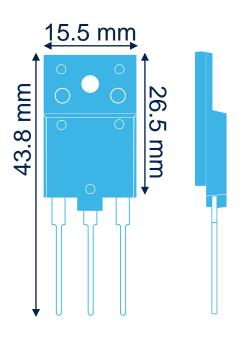
Standards IEC60664 and UL-840 pollution degree definitions:

- Degree 3 Intermittent conductivity due to dust or moisture condensation.
- Degree 4 Persistent conductivity due to dust, rain or snow.

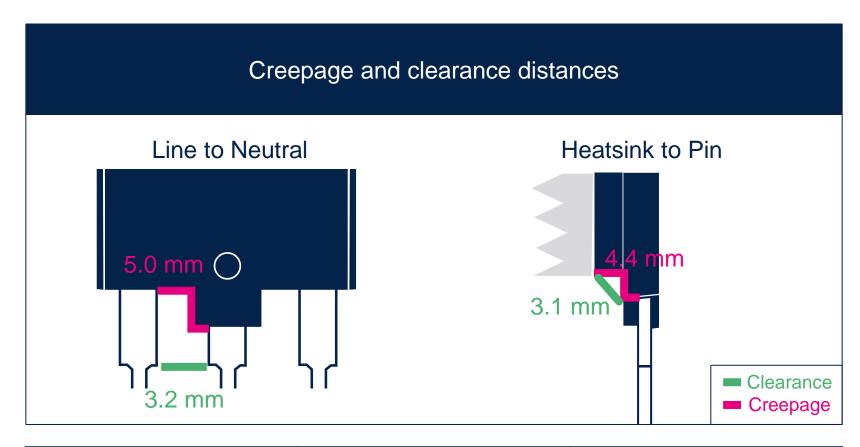




About the TO-3PF package



The TO-3PF provides an insulated tab (rated at 2.5kV rms). Recognized by UL, representative samples of this component have been evaluated by UL and meet applicable UL requirements for UL-1557 standard (File Ref. 81734).



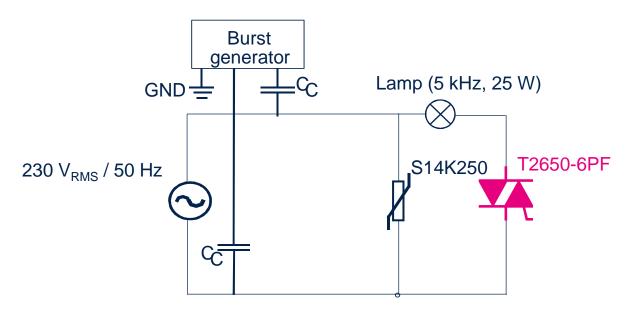
Packing	Base Quantity Packing Info		
Tube	30	TN1173 on st.com	





Snubberless™: EFT immunity Electrical fast transient burst test

Snubberless™ Triacs in TO-3PF can pass the IEC61000-4-4 without snubber



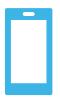
Triac reference	L + GND	L - GND	N + GND	N - GND
T2650-6PF T4050-6PF	> 6.6 kV	> 6.6 kV	> 6.6 kV	> 6.6 kV

Tested samples withstand at least ±6.6 kV without any RC network (25°C)





Developer tools and design resources



Portfolio & Datasheets

Link to ST.com

Phone apps

E-Design suite

Intelligent design tools

Link to ST.com





Portfolio

Link to ST.com

Selector guide

TO-3PF Triacs

Application notes

Product know-how and design tips

Link to ST.com





Reference design

Link to ST.com

Evaluation boards

Online support

Ask your questions

Link to ST.com







ST Thyristors are environment friendly

Recognized and compliant: Environment and Flammability



No Fluorine

No Chlorine

No Bromine

No lodine

No Astatine



No Lead Plating

No Mercury

No Cadmium

No Hexavalent Chromium No PBB No PBDE



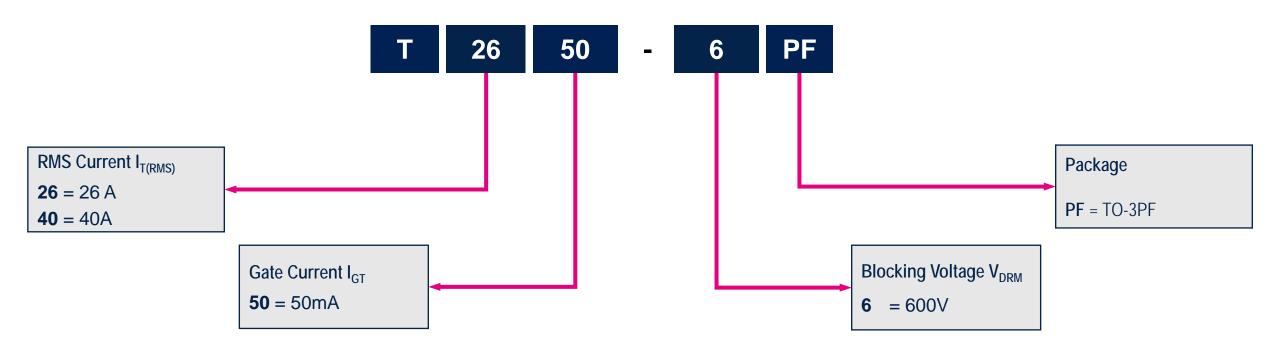
UL94-V0 Flammability







TO-3PF Triac naming scheme





Our technology starts with You



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