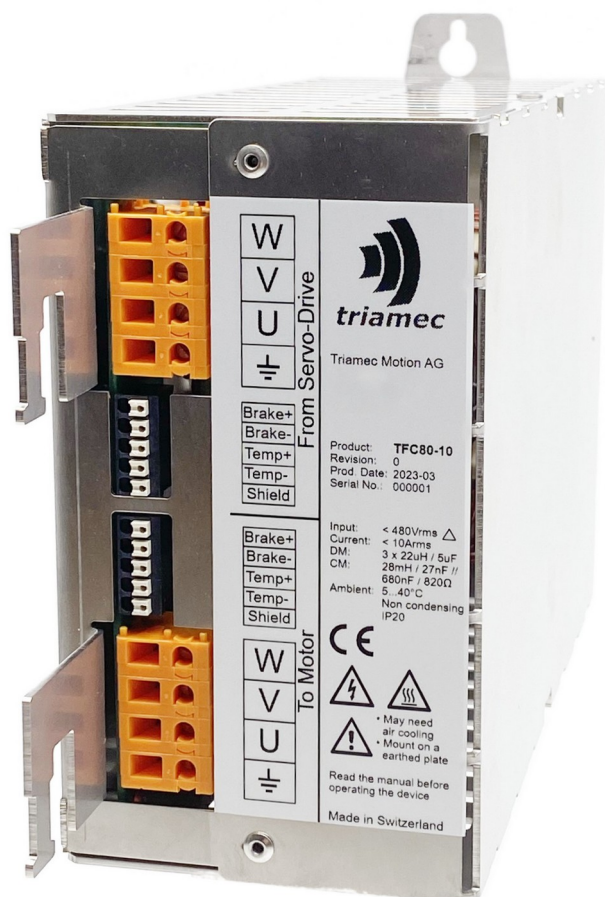


TFS-T Motor-Side Filters (Revision 4)

Combined common-mode and sinus filtering for spindle motors



Motor-side filters of the T-series are single-axis filters with combined common-mode and sinus filter stages.

Common-mode filters are designed to suppress common-mode voltage oscillations, protecting motor bearings and tools from electro-erosion. Furthermore, the suppression of common-mode fluctuations reduces electromagnetic interference, which is key to achieving highest EMC standards.

The sinus filter stage attenuates PWM switching effects in the differential-mode, which helps to protect sensitive motors.

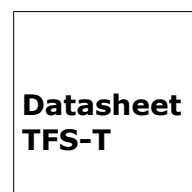
T-series filters are optimized for low-inductance motors, such as spindles. For high-inductance motors, please refer to the C-series.

Properties

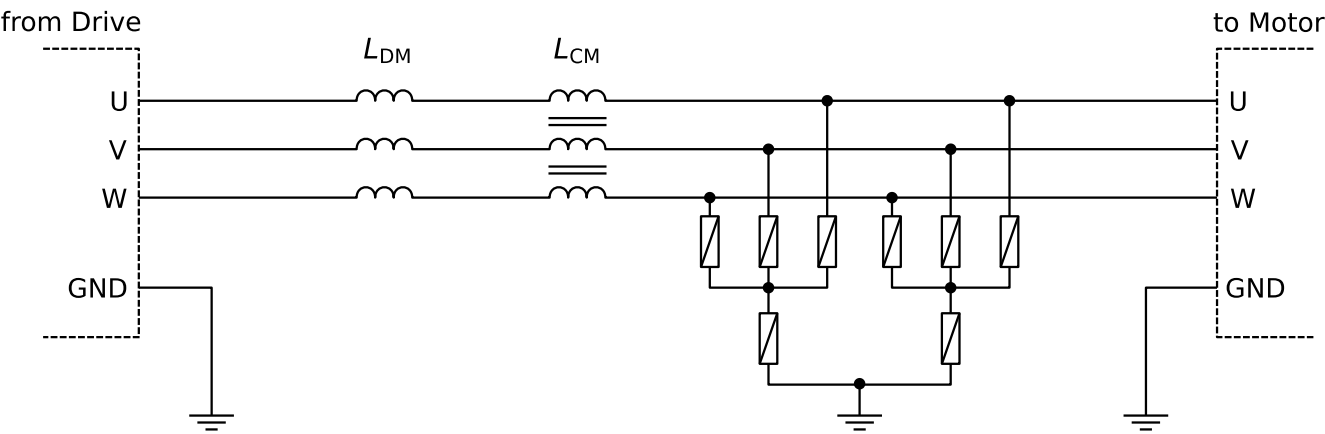
- Combined sinus and common-mode filter
- Optimized for low-inductance motors
- Designed for 50 to 100 kHz PWM frequencies

Applications

- Protect motor, tools, and workpieces from electrical arcing and electrochemical erosion
- Meet the highest EMC standards
- Reduce thermal issues at the rotor and protect sensitive motors through the sinus filter stage



Schematic Illustration



Specifications

	TFS-T-80-15-50	TFS-T-130-15-50	TFS-T-350-15-50	TFS-T-700-10-50
Max Voltage	80+10% V _{DC}	130+10% V _{DC}	350+10% V _{DC}	700+10% V _{DC}
Continuous Current	15 A _{rms}	15 A _{rms}	15 A _{rms}	10 A _{rms}
Min PWM Frequency	50 – 100 kHz			
Dimensions W×H×D	83 × 175 × 250 mm			
Weight	2.90 kg			

Subject to change without notice.

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Control



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