

AMIKON TECHNICAL DOCUMENTATION

Product Data Sheet

ICS Triplex T8442C

Trusted TMR speed monitor



MACHINES	INPUTS	MAX FREQUENCY	SPARE
Up to 3 groups	Triplicated speed	30000 Hz	Companion Slot

ICS Triplex T8442C is a conformal-coated Trusted TMR speed monitor for rotating machinery. Three independent machine groups each combine triplicated speed inputs with two redundant output drives, supporting overspeed and acceleration protection alongside a separate speed-control function.

01

PRODUCT IDENTITY AND SPECIFICATIONS

Product model	T8442C
Machine groups	3 independent machine groups
Speed input arrangement	3 triplicated speed inputs per machine group
Output arrangement	2 quad-redundant output drives per machine group
Active/passive input frequency	Up to 30000 Hz at the module/FTA interface
Input duty cycle	20-80%, steady state
Speed measurement resolution	+/-1 RPM
Speed measurement accuracy	0.01% full scale or 1 RPM, whichever is greater

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02 TECHNICAL DATA

DC-coupled detection threshold	200 mV peak-to-peak at the module/FTA interface
Backplane supply	20-32 V DC; 22 W at 24 V DC
Field supply	18-32 V DC
Input/output termination	T8846 SIFTA and T8891 SOFTA
Spare-slot arrangement	Companion Slot only; SmartSlot unavailable
Sequence of events	1 ms resolution; +/-0.5 ms accuracy
Operating temperature	0 to +60 degrees C
Storage and humidity	-25 to +70 degrees C; 10-95% RH, noncondensing

03 APPLICATION AND CONFIGURATION

- The speed monitor links three machine groups to the Trusted IMB. Field sensors and output circuits require the dedicated termination assemblies; module-interface ratings are not bare field-sensor connection ratings.
- Check the exact order suffix, actual hardware revision, termination assemblies and approved machine configuration. SmartSlot replacement is not supported.
- Ratings describe the documented equipment, not packed dimensions, shipping weight or a certified supplied-unit origin.

04 OFFICIAL DOCUMENTATION

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PDF pp. 1, 21-27: role and installation; p. 66: spare-slot restriction; pp. 69-71: ratings.

Independent Amikon reference, not an OEM manual. Use the complete manufacturer instructions matching the actual hardware and firmware. No manufacturer pages are reproduced.

AMIKON PRODUCT SUPPORT

+86-18020776786

INFO@AMIKON.CN

AMIKONG.COM