Turntide Smart Motor System™

Product Certifications

The Turntide Smart Motor System, along with each product within Turntide's HVAC retrofit solution, is designed and tested to meet a wide range of important safety certifications and industry standards from UL, CSA and IEC.

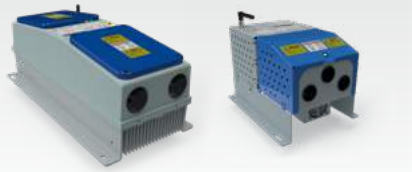
Certifications by Product

V01 / V02 / V03 Motors



UL	CSA	IEC
1004-7	C22.2#77	60034-1 60204-1

P06 / SL121 Motor Controllers



UL	CSA	IEC
61800-5-1 61800-5-2	C22.2#74 C22.2#61800-5-2	61800-5-1 61800-5-2 61800-3

Certifications List

UL-CSA Standards

- UL 61800-5-1 Adjustable Speed Electrical Power Drive Systems - Part 5-1: Safety Requirements - Electrical, Thermal and Energy
- UL 61800-5-2 Adjustable Speed Electrical Power Drive Systems - Part 5-2: Safety Requirements - Functional
- CSA C22.2#274:2017 Ed.2 Adjustable Speed Drivers
- CSA C22.2#61800-5-2:2021 Ed.1 Adjustable Speed Electrical Power Drive Systems - Part 5-2: Safety Requirements - Functional

Overall System Standards

- UL 1004-7 Electronically Protected Motors
- UL 1004-8 Inverter Duty Motors
- CSA C22.2 Motors and Generators
- CSA C22.2#77 Motors with Inherent Overheating
- IEC 60034-1: 2017 (Ed.13.0) Rotating Machines Protection Rating and Performance (Motors)
- IEC 60204-1: 2016 (Ed. 6.0) Rotating Machine Basic Safety (Motors)

IEC

- IEC 61800-5-1 Adjustable Speed Electrical Power Drive Systems – Part 5-1: Safety Requirements – Electrical, Thermal and Energy
- IEC 61800-5-2 Adjustable Speed Electrical Power Drive Systems - Part 5-2: Safety Requirements - Functional
- IEC 61800-3 Adjustable speed electrical power drive systems - Part 3: EMC requirements and specific test methods

Turntide works with Intertek, which provides third-party validation with testing and certification.

An ETL mark can be found on all Turntide products to indicate compliance with the listed standards.

Conformance

- Motor controller suitable for use in other environmental air handling spaces (plenums) in accordance with Section 300.22 (C) Other Spaces Used for Environmental Air (Plenums) of the National Electrical Code
- Required: Breaker rating 4xxVAC, 30A
- Required: Fuse rating 6xxVAC, 30A, Class RK5
- Breakers must be UL489SH3 listed

TURNTIDE TECHNOLOGIES

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