



Quick Topics

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SmarTRAQ Specifications



SmarTRAQ

SmarTRAQ is a closed-loop technology, limitless, door operator designed to replace older mechanical circuits, cams, and resistors with a digital control system providing precise door operation and reliable performance. Because *SmarTRAQ* is limitless, Door Open Limit and Door Closed Limit signals are generated electronically – DOL and DCL mechanical switches are not required. *SmarTRAQ* dramatically improves door operation regardless of lobby door mass and wind loading. *SmarTRAQ* is A17.1, CSA-B44.1 compliant.

SmarTRAQ provides flexibility:

- Choose to modernize an existing installation economically with a new brushless motor and microprocessor-based inverter drive (re-using existing mechanical equipment)
- Replace the complete operator with a new brushless motor, microprocessor-based inverter drive, and new center-parting or side-slide door operator package.



Product Specification

The *SmarTRAQ* limitless, closed-loop, door operator includes a permanent-magnet, brushless motor with a built-in encoder and a microprocessor-based inverter drive. The compact inverter drive enclosure mounts easily on the elevator car. The motor replaces the original motor when re-using existing operator packages or mounts to the new operator package when the complete door operator is being replaced or newly installed.

Table 1.1 SmarTRAQ Specifications, Interface Data, and Code Compliance

Door Operator Drive Technical Data	
Input Voltage	120VAC, 50/60Hz, Single-phase
Output Voltage	3-Phase, 30VAC, 9A (26A peak)
Power Requirement	300VA
Controller Type	Closed Loop, Distance and Velocity Feedback, Limitless
Door Motor Technical Data	
Type	Three-phase, synchronous, brushless motor with permanent magnet excitation and built-in digital encoder
Motor	0.564 HP, 3-Phase AC, 8-Pole, 30 Volt, 9A (26A peak), 0 – 2000 RPM, 0 – 133Hz
Encoder	640 PPR (Pulses Per Revolution)
Elevator Control Interface Data	
Input Signals	Door Open Door Close Nudging Heavy Door
Input Signal Level	Dry Contact
Output Signals	Door Open Limit Door Close Limit Limit 1 Limit 2
Output Signal Level	N.O./N.C. Contact, 10 Amp
Code Compliance	
For ASME A17.1-1996 (Rule 210.15), ASME A17.1-2000/CSA B44-00 (Requirement 2.26.5), or CSA B44-94 (Requirement 3.12.1.5) compliance, mechanical Door Position Monitoring Switch must be provided.	

Application

SmarTRAQ offers wide mechanical and electrical interface, providing a cost-effective solution for modernization of existing door operators or for new installations. *SmarTRAQ* models support:

- MCE
 - Center-Parting Door Operator Package
 - Two-Speed Center-Parting Door Operator Package
 - Single-Speed Side Slide Door Operator Package
 - Two-Speed Side Slide Door Operator Package
- Westinghouse
 - Model A Series
 - Model B Series
 - Model BB2
 - Model E Series
 - Model EZ
 - Model HY
 - Model MG
- Haughton
 - T
 - T1
 - TH
- Montgomery
 - MAC Series
- Dover
 - DC Series
 - HD Series
- Otis
 - 6970
 - 7300
 - 7782
- GAL
 - All Models
- Armor
 - C4

SmarTRAQ Models

To support a wide selection of door operators, *SmarTRAQ* motor configurations include:

Figure 1.1 Motor Configurations

