A100-BMD

MOTOR BRAKE MONITOR

IMPROVE SAFETY WITH EARLY MOTOR BRAKE FAILURE DETECTION

The motor brake is a crucial component of a safe and efficiently functioning elevator. With time and usage, the brake's parts can wear down or even break. It's essential to address these straightforward maintenance items before they evolve into significant functional or safety problems.

By monitoring the brake's switches, the A100-BMD brake monitor detects failures to pick or drop, worn brake pads, open or shorted solenoid coils, and other common brake issues. Early intervention in addressing these problems can help prevent sudden car jerking, drifting after leveling, entrapments, and other safety hazards.

* EARLY DETECTION

The A100-BMD monitors both pick/drop failures and the duration of the pick/drop cycles. Often, before a brake fully fails, it shows early signs, such as sticking or a delayed response. By catching these changes, preventative maintenance can be carried out.

* 24/7 CONTINUOUS MONITORING

The A100-BMD continuously monitors the pick/drop and wear pad switches for signs of necessary brake maintenance, 24 hours a day, 7 days a week. This ongoing detection adds an extra layer of safety between scheduled in-person maintenance visits.

* INCREASE PASSENGER SAFETY

A brake that fails to fully engage after leveling or engages while the car is in motion can pose serious safety risks for passengers. By identifying potential brake issues early, these hazardous situations can be prevented.

* PREVENT ENTRAPMENTS

Once a fault is detected, the car will finish its current trip, the doors will open, and passengers will be allowed to exit before the elevator is disabled. This process helps prevent entrapments and allows for maintenance to be conducted on a scheduled basis.

* A UNIVERSAL SOLUTION

The A100-BMD is compatible with all controllers and brake switches, including those from Dover, EC, Fujitec, KONE, MCE, OTIS, Schindler, ThyssenKrupp (TK), Virginia Controls, and Westinghouse.

* SINGLE, SMALL DEVICE

Combines both the controller and switch interface into a 4.1" x 3.3" x 2.1" package, fitting easily in the control cabinet. This eliminates the need for routing electrical conduit or sourcing additional enclosures.

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ARGUS ELEVATOR, LLC

Elevator Safety Made Simple™

MECHANICAL SPECIFICATIONS

PARAMETER	VALUE / RANGE
Product dimensions	4.1” x 3.3” x 2.1”
Product weight	0.8 lbs.

ELECTRICAL SPECIFICATIONS

PARAMETER	VALUE / RANGE
Rated supply voltage	90V to 300V AC/DC
Supply frequency	DC / 50Hz / 60 Hz
Supply current	60mA @ 115VAC / 35mA @ 230VAC / 30mA @ 277VAC
Power consumption	6.9VA @ 115VAC / 8.1VA @ 230VAC / 8.3VA @ 277VAC
Inputs available	12 independent and isolated
Inputs rated voltage	0 to 400V AC/DC
Inputs current consumption	0.8mA @ 120V / 1.5mA @ 300V
Inputs bandwidth	DC to 240Hz
Inputs impedance	150 kΩ
Outputs available	4 (two fixed and two programmable)
Outputs type	N.O. and N.C dry contacts
Output duty	Pilot duty: 1.2A @300VAC / 0.1A @ 300VDC
Operating rate	5Hz

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