

The low-voltage motors with squirrel-cage rotors for implementation in automatic smoke and heat extraction units to EN 12101-3 are mainly designed for driving smoke extraction fans. For this reason, they are known as smoke-extraction motors. They are mainly used in buildings or structures in which smoke control is necessary due to their shape and arrangement.

Temperature/time classification according to EN 12101-3

- F200 corresponds to 200 °C for 120 min.
- F300 corresponds to 300 °C for 60 min.
- F400 corresponds to 400 °C for 120 min.

Testing and test certificates

The smoke-extraction motors are tested by the Research and Testing Laboratory of the Department of Air-Conditioning Systems and Building Services Installations of the Technical University of Munich in accordance with EN 12101-3.

Test conditions for F200/F300:

- Temperature 300 °C
- Time 120 min.

The test certificates are available.



Forschungs- und Versuchslabor des Lehrstuhls für Bauklimatik und Haustechnik der Technischen Universität München Link Prof Dr. Ins. Gerhard Hausley

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Nachweis über die Prüfung von Niederspannungs-Motoren nach DIN EN 12101-3 : Juni 2002

In Brandversuchen nach DIN EN 12101-3 : Juni 2002 wurden folgende Motoren ge-Sietness AG Automaticie

Hersteller Typenbezeichnung Monorbauget@en: Geprüfe Baugriden Printeelinease Pridmannie: Prüftemporatur und Zeit: Mechanische Belastung:

Elektrische Belantung:

Standardentriche 91056 Erlangen Brandgaumotoren in Al-von BG 80 bis BG 225 BG 80 and BG 225 29.03 2001 - 05.04 2002 01/3224-1 300°C withrend mehr als 120 Minute

names- and Astrichutechnik

gleichzeitig axial und radial willrend der Temperatarbeansprachung 80% der Nennaufnahmeleistung with

Temperaturbeausprachung

Erreichte Temperatar-Zeit Klasse: F200 and F300

Howeis Der Forliegende Nachweis ersetzt kein Konformitä refiker and he Konformitätserklärung nach DIN EN 12101-3 : Juni 2002

Die Bescheelbung der Prüfergebnisse sowie der Motoren sind in den Bilgenden Publichers Nr.

01/3224-1 12103-3 : Juni 2002, D.5.1 and 01/3224-1 12105-3 : Juni 2002, D.5.2 beachrisben.

Dachasi/ München, 16. Oktober 2002

The motors are manufactured with aluminum or cast-iron housings in accordance with the smoke classes. The smoke-extraction motors are based on the standard motors and comprise the following motor types:

- Temperature/time classes F200 and F300
 - Self-ventilated motors Aluminum series 1LA7 and 1LA5, cast-iron series 1LG6 – Version with integrated fan (metal)
 - Self-ventilated motors Aluminum series 1LA7 and 1LA5 double pole-changing with square-law load torque - Version with integrated fan (metal)
 - Forced-air cooled motors Aluminum series 1PP7 and 1PP5, cast-iron series 1PP6 - Version without integrated fan, located in air flow of fan to be driven
 - Forced-air cooled motors Aluminum series 1PP7 and 1PP5 double pole-changing with square-law load torque -Version without integrated fan, located in air flow of fan to be driven
- Temperature/time classes F400
 - Self-ventilated motors Cast-iron series 1LA6 and 1LG6 -Version with integrated fan (metal)
 - Self-ventilated motors Cast-iron series 1LA6 double pole-changing with square-law load torque -Version with integrated fan (metal)
 - Forced-air cooled motors Cast-iron series 1PP6 Version without integrated fan, located in air flow of fan to be driven
 - Forced-air cooled motors Cast-iron series 1PP6 double pole-changing with square-law load torque -Version without integrated fan, located in air flow of fan to be driven.

The resonance of mountings and reactions from driven machines can cause high levels of vibration in the overall equipment unit. This has a significant effect on the expected service life of the bearing.

These vibrations are evaluated in accordance with Zones A and B according to ISO 10816.