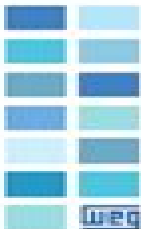
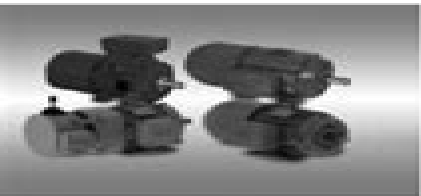




Brake Motor

Instructions Manual for Installation, Operation and Maintenance of Electric Motors



1. Introduction

This manual provides important information about WEG three-phase and single-phase brake motors that must be followed during the installation, operation and maintenance. Thus, we recommend to read this manual carefully before performing any services on the motor. Noncompliance with these instructions informed in this manual and others indicated on the website www.weg.net voids the product warranty and may cause serious personal injuries and material damages.

2. Installation

Brake motors must be only installed in places compatible with their mounting features and in applications and environments for which they are intended. Brake motors installed outdoors or in the vertical position require the use of additional shelter to protect them from water, for instance, use of a drip cover.

2.1. Brake Coil Power Supply

The electromagnetic coil powered by direct current (DC) supplied by a bridge rectifier consisting of silicon diodes and varistors, which filter undesirable voltage spikes and enable a fast current shutdown. The direct current power supply provides higher speed and reliable brake operation. The alternating current (AC) power supply for the bridge rectifier can be obtained from an independent source, or from the motor terminals. This power supply can be 220/230/240 V, 50/60Hz/470 V, or 440/480/490 V only for 50 Hz, according to the features of the bridge rectifier/coil assembly. The electromagnetic coil can be operated continuously within a 10% of its rated voltage.



The power supply from the bridge rectifier is required to release the brake, if the motor does not accelerate upon starting, turn it off and check the bridge rectifier connections. The brake coil may not be powered, if the motor still does not accelerate, contact the nearest WEG service center.

2.2. Connection Diagram

The brake motor allows two different connections for Direct Current power supply providing either delayed or normal engagement. The connection diagrams below show the electrical connection when the bridge rectifier is supplied directly from the motor terminals.

A) Delayed engagement: the bridge rectifier of the brake coil can be supplied directly from the motor terminals, without interruption, as shown in figure 1.

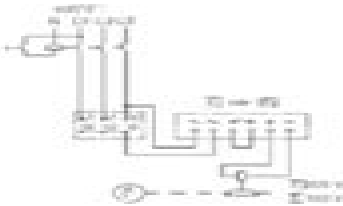


Figure 1: connection diagram of the bridge rectifier for delayed engagement.

B) Normal engagement: for normal engagement, the bridge rectifier must be connected as shown in figure 2.

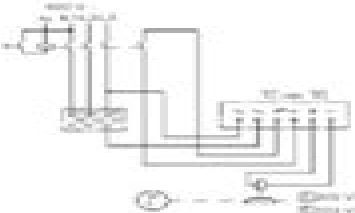


Figure 2: connection diagram of the bridge rectifier for normal engagement.



The cable entries used for power supply and control must be fitted with components (such as, cable glands and conduits) that meet the applicable standards and regulations in each country and the degree of protection indicated on the motor nameplate. Not-used cable inlet holes in the terminal box must be properly closed with plugs in order to assure the degree of protection indicated on the motor nameplate. For flameproof motors with brake, these components must be certified according to the type of protection and the Equipment Protection Level (EPL) indicated on the motor nameplate.

3. Brake Operation

When the motor is disconnected from the power supply, the current flowing through the electromagnetic coil is interrupted and it stops operating. The pressure springs then push the armature towards the motor, compressing the motor braking disc between the two friction surfaces (armature plate and endshield), thus stopping the motor. Upon a new startup, the system starts the motor and supplies the electromagnetic coil simultaneously. The armature plate is then attracted to the electromagnetic frame, overcoming the spring pressure and releasing the brake disc, which disengages easily and moves away from the friction surfaces. The braking action stops and allows the motor to turn freely.

4. Maximum Allowed Load Inertia

The maximum load inertia and the maximum load torque indicated on table 1 must be considered for the operation of flameproof motors with brake. For brake motors to be applied in non-hazardous areas or for motors driving different loads than those shown in the table 1, contact WEG.

Table 1: maximum allowed load inertia for flameproof motors with brake.

Frame size	Number of poles	Normal Applications		
		Maximum load inertia (kg.m ²)	Maximum load torque (Nm)	Maximum load inertia (kg.m ²)
100	2/4/6/8	0	100	0.0005
		0	100	0.0005
		0	100	0.0005
		0	100	0.0005
112	2/4/6/8	0	100	0.0005
		0	100	0.0005
		0	100	0.0005
		0	100	0.0005

Note: the values shown in table 1 are valid for braking time of 1 second and motor operation at the rated speed.

WEG and its subsidiaries are not responsible for any damage caused by the use of this manual.



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Weg Brake Motor Manual

G Orfield

A red circular graphic with a gradient, appearing as a stylized arrow or a light effect, positioned to the right of the author's name.

Weg Brake Motor Manual:

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