NEW CE APPROVED

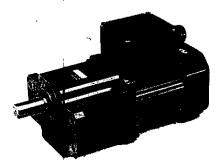
Panasonic G-series AC geared motors Fitting and operating instructions

Publication No.

391

Page 1 of 4 June 2002

Panasonic AC geared motors comprise a totally enclosed standard motor with grease lubricated bearings and a grease-filled gearbox, neither of which will require any maintenance during the running of the unit under normal operating conditions. On installation, the mounting of the motor must allow a free flow of cooling air over the surface of the motor. This condition must be maintained under all circumstances. The method of mounting should also limit the radial force applied to the gearbox output shaft.



Fitting instructions

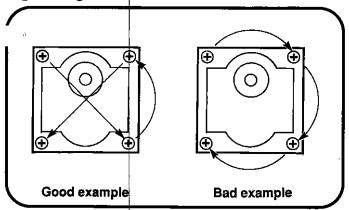
For models 40W and below, it is recommended that e output shaft bearing housing should be used as a locating spigot for mounting the unit. Firstly, remove the four fixing nuts, taking care that the motor and gearbox do not separate. The four fixing bolts should be used to secure the unit to the machine.

Alternatively, foot mounts can be supplied to ease mounting. Refer to our Stockline catalogue or contact the Bedford office for further details.

For models 60W and above, it is recommended that the shaft spigot is used for location, with the four mounting clearance holes on the gearbox used for securing the unit to the machine.

When tightening the fixing bolts ensure the following procedure is followed.

Tightening of bolts



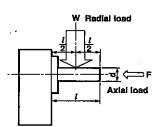
In the event of the unit being separated, this may invalidate the warranty.

It is recommended that a new O-ring is then fitted to ensure proper sealing

Radial and axial loads

Radial load shows how much bending load may be applied to the output shaft of the gearbox at 1/2 length position. This applies to the application when the motor and machine are connected with a chain or belt

but does not apply when a soft flexible coupling is used. Since excessive radial and axial loads affect the life of the geared motor, please do not exceed the maximum stated loads.



Type	Permissible radial load (N)	Permissible axial load (N)
60 mm ² 6W	98	29
70 mm² 15W	196	39
80 mm ² 25W	294	49
90 mm ² 40W	39⁄2	98
90 mm ² 60-90W	58 ; 8	147
90 mm² HT	784	147

Spare 'O' rings

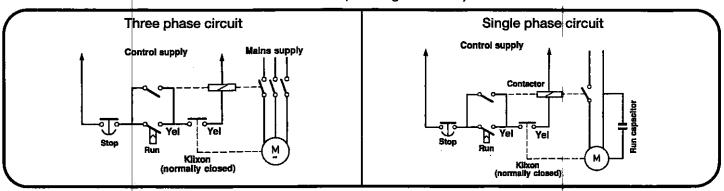
Motor size	Stock no.	
60 mm ²	P9-110 750	
70 mm²	P9-110 769	
80 mm²	P9-110 986	
90 mm²	P9-112 617	
	1	

IMPORTANT

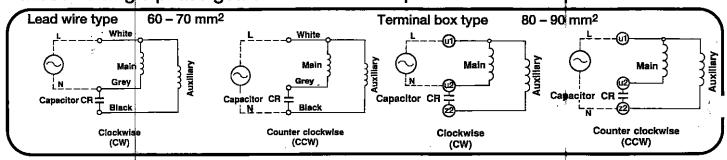
When face mounting the geared motor to an assembly, DO NOT remove or twist the gearhead from or on the motor. This will cause the O-ring to deform resulting in grease leakage when reassembled.

60 mm² motors are impedance protected.

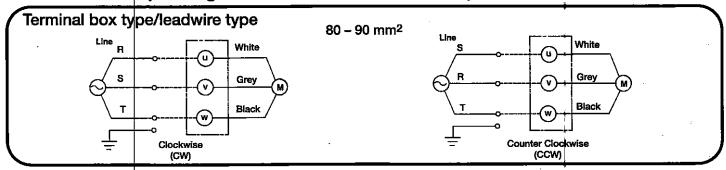
IMPORTANT: For 70/80/90mm motors the thermal switch is no longer in series with motor windings. Please ensure that thermal switch is wired as in our recommendations (see diagram below).



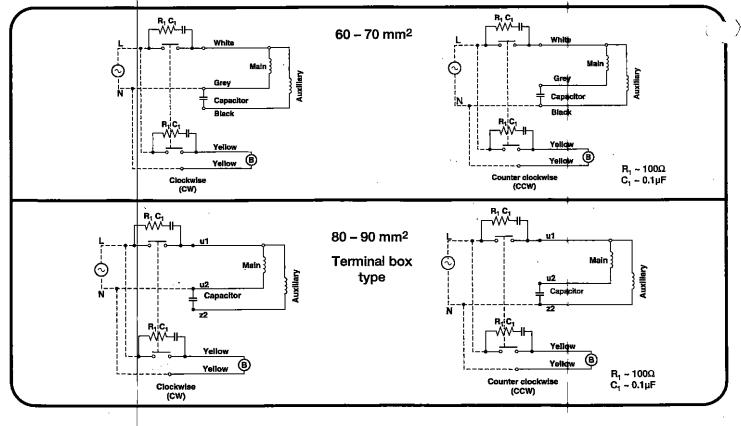
Panasonic single phase geared motors 230V/1ph/50Hz or 110V/1ph/50-60Hz



Panasonic three phase geared motors 230V or 400V/3ph/50-60Hz

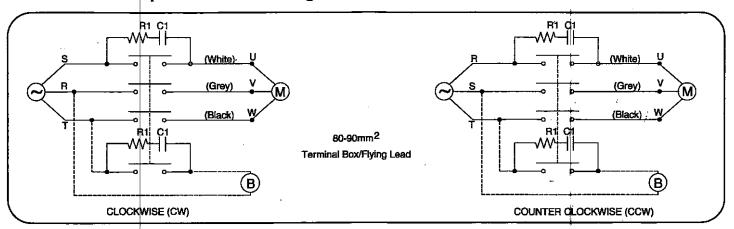


Panasonic single phase geared brake motors 230/1/50 or 115/1/50-60 Hz

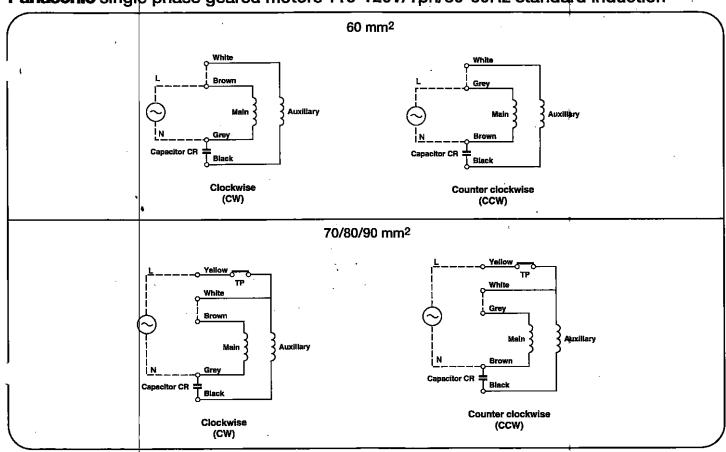


Panasonic G-series AC geared motors

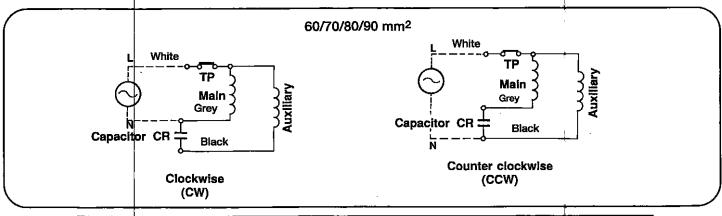
Panasonic three phase 230V/400V geared brake motors



Panasonic single phase geared motors 115-120V/1ph/50-60Hz standard induction



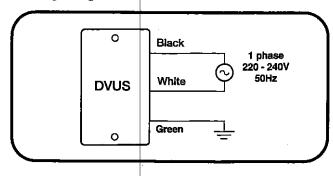
Panasonic single phase geared motors 115-120V/1ph/50-60Hz - Quick reversible



IMPORTANT

NOTE: Check rotation before installing. Direction may vary with gearbox ratio.

Wiring diagram for DVUS controllers



IMPORTANT

Thermal protection

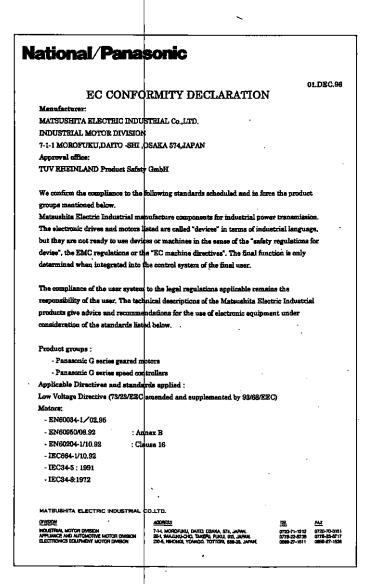
For protection against damage by overheating as a result of overloading, some motors may be fitted with a thermal switch (a Klixon). The extra wires in the terminal box should be connected into the motor start/stop circuit to eliminate any motor damage when overheating occurs.

Extension cables are required for these controllers. One end plugs straight into controller. The other is terminated as specified in instructions. Wiring for the mains supply cabling is shown opposite. For further details contact our Bedford office.

EC Conformity

The Panasonic G-series product range complies with the required EC directives.

The standards for compliance, which are considered appropriate for electric motors and controllers are detailed in the manufacturers declaration below. Further copies are available on request.



National/Panasonic

Controllers:

- DIN VDE 0180 /A1/04.89
- DIN VIDE 0160/05.88
- DIN VDE 0110 PARTI JANUARY 1989

These products should be installed by qualified personnel in accordance with our fitting and operating instructions. The machine into which they are incorporated should not be put into service until it has been declared to be in conformily with the applicable Directive(e).

Matsushita Electric Industrial will continue to consider all relevant standards and legal regulations for the design and manufacture of its products. Concerning EC guidelines, it is the intention that Matsushita Electric Industrial will comply with the EC directives as and when each becomes affective. Also original technical construction files are kept in Matsushita Electric Industrial Osaka Japan.

H. Jamel HIBOAKI TAMAE Gerjaral Manager of Engineer Departm

MATSUSHITA ELECTRIC INDUSTRIAL COLLTD.

DIVISION

SIDLETAILL MOTOR DIVISION

APPLIANCE AND ALTOMOTIVE MOTOR DIVISION

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