



## Certificate of Conformity

As a proof of the characteristics as assured the actuator type DREHMO D120-D-80, Ident-No. 120508 manufactured by Messrs. EMG, Industriestr. 1, 57482 Wenden has been subjected to the following tests being representative for the series D30, D60, D120, D249, D250, D500 and D1000 (testing time: 1st quarter 1993).

1. **Motor operation at different ambient temperatures**

Test: acc. VDE 0530 part 1/07.91 para. 15.6.1.

Technical data, actuators, Drehmo-Standard, leaflet EMG No. A96.V2.6.67/0992.

Result: The disconnection torques as measured are all within the range of the nominal torque  $\pm 10\%$ . All other measured values are within the set range.

2. **S2 operation**

Test: acc. DIN VDE 0530 part 1/07.91 para. 15.6.1

Result: The temperature rise after 10 min. was measured: in the oil: 24,2 K  
at the motor: 12,9 K.  
and is therefore not critical.

3. **Reproducibility of the torque setting**

Test: acc. to technical data, actuators, Drehmo-Standard series, leaflet  
EMG No. A 96.V2.6.67/0992

Result: The max. deviation amounted to less than 10 %.

4. **Handwheel forces**

Test: acc. DIN 3250 sheet 2

Result: The measured values of the max. handwheel forces are within the permissible range.

5. **Enclosure IP 67**

Test: acc. DIN 40050/07.80

Result: The enclosure IP 67 has been met.

6. **Enclosure IP 68**

Test: acc. DIN 40050/07.80

Result: The enclosure IP 68 has been met.

7. **Durability**

Test: acc. technical data, actuators, Drehmo-standards, leaflet EMG No. A96.V2.6.67/0992.

Result: All measured values are also after 10000 switching cycles with the set range.

8. **Salt Mist Test**

Test: acc. DIN IEC 68 part 2-52/07.85

Result: test passed.

9. **SO<sub>2</sub> Test**

Test: acc. DIN 50018/06.88

Result: test passed.

This certificate contains a summary of the test results of the test report No. GEL3-EE-7.2/3/2134/93  
Ko/Lz dated 26.03.1993.

Mannheim, 29 April 1993

A handwritten signature in black ink, appearing to be 'M. H.', located at the bottom left of the page.