

Liquid pumps — Pump units with frequency inverters — Guarantee and compatibility tests

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ICS 23.080

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Summary of pages

This document comprises a front cover, an inside front cover, the EN title page, pages 2 to 8, an inside back cover and a back cover.

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Liquid pumps — Pump units with frequency inverters — Guarantee and compatibility tests

Pompes pour liquides — Groupes de pompage équipés d'un variateur de fréquence — Essais de garantie et de compatabilité

Flüssigkeitspumpen — Pumpenaggregate mit Frequenzumrichter — Garantie- und Verträglichkeitsprüfungen

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Comité Européen de Normalisation
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Foreword

This European Standard has been prepared by Technical Committee CEN/TC 197, Pumps, the Secretariat of which is held by AFNOR.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by November 1999, and conflicting national standards shall be withdrawn at the latest by November 1999.

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Introduction

Several standards define the acceptance testing of liquid pumps, and the means for the verification of the guarantee performance of the pump.

Electric motors for alternating current operate at speeds which are dependent upon the number of poles, and the power line frequency. By means of an inverter, the frequency can be varied and a pump operated over a range of speed related duty points. The design of the inverter requires special care in selecting and matching the electric motor and the test instrumentation to be used during the tests, as well as in analysing the readings taken, in order for a true assessment to be made of the pump performance and of the compatibility of the elements making up the unit.