



BSI Standards Publication

**Inland navigation vessels — Electrical
shore connection, three-phase current
400 V, 50 Hz, at least 250 A**

National foreword

This British Standard is the UK implementation of EN 16840:2017.

This standard is intended for use by operators of inland navigations vessels intending to connect the electrical systems of such a vessel to a low voltage shore supply of rated amperage greater than 200A three-phase.

In the UK, operators of inland navigation vessels fitted with low voltage, generator-supported electrical systems should note the safety guidance contained in ENA Engineering Recommendation G59, Issue 3, Amendment 1:2014 in order to obtain the necessary Distribution Network Operator (DNO) consent for temporarily connecting the vessel's electrical systems to the UK electricity grid. Guidance in G59 addresses the two types of connection implied in Subclause B.2.4 (Electrical Requirements) of EN16840:

- a) Infrequent short term parallel operation; or
- b) Switched alternative-only operation (for connection of a de-energized inland navigation vessel's electrical system to a DNO supply facility and vice-versa).

For seagoing vessels connecting to either high voltage or low voltage shore supplies, BS IEC/IEEE 80005 Parts 1–3 apply with identical requirements in the UK for DNO consent.

The UK participation in its preparation was entrusted to Technical Committee SME/32, Ships and marine technology - Steering committee.

A list of organizations represented on this committee can be obtained on request to its secretary.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

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Compliance with a British Standard cannot confer immunity from legal obligations.

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Amendments/corrigenda issued since publication

Date	Text affected
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