

Specification for

Metal-sheathed heating elements for industrial use

Committees responsible for this British Standard

The preparation of this British Standard was entrusted by the Power Electrical Engineering Standards Policy Committee (PEL/-) to Technical Committee PEL/87, upon which the following bodies were represented:

- Association of Manufacturers Allied to the Electrical and Electronic Industry (BEAMA Ltd.)
- British Glass Manufacturers' Confederation
- British Lighting Association for the Preparation of Standards (BRITLAPS)
- British National Committee for Electroheat
- British Steel plc
- Committee for Electrical Equipment for Use in Flammable Atmosphere (BEAMA Ltd.)
- Electric Trace Heating Industry Council (ETHIC)
- Electricity Association
- Energy Industries Council
- Engineering Equipment and Materials Users' Association
- Engineering Industries Association
- Health and Safety Executive
- Induction and Dielectric Heating Manufacturers' Association
- Institution of Electrical Engineers
- Lighting Industry Federation Ltd.
- Ministry of Defence

This British Standard, having been prepared under the direction of the Power Electrical Engineering Standards Policy Committee, was published under the authority of the Board of BSI and comes into effect on 30 September 1990

© BSI 07-1999

The following BSI references relate to the work on this standard:
Committee reference PEL/87
Draft for comment 87/26023 DC

ISBN 0 580 18861 2

Amendments issued since publication

Amd. No.	Date	Comments

Contents

	Page
Committees responsible	Inside front cover
Foreword	ii
1 Scope	1
2 Definitions	1
3 General requirements	1
4 General notes on tests	1
5 Rating	1
6 Marking	1
7 Rated power	2
8 Electrical insulation and leakage current at operating temperature	2
9 Electrical insulation and leakage current in humid conditions	2
10 Routine tests	3
11 Construction	3
12 Supply connections	3
13 Screws and connections	3
14 Creepage distances, clearances and distances through insulation	3
Figure 1 — Diagram for leakage current measurement at operating temperature for single-phase connection of element	5
Figure 2 — Diagram for electrical strength test at operating temperature	5
Table 1 — Relationship of sheath diameter of element to circular cross section of the former	4
Table 2 — Torque values for screwed connections	4
Table 3 — Creepage distances and clearances	4
Publication(s) referred to	Inside back cover

Foreword

This British Standard has been prepared under the direction of the Power Electrical Engineering Standards Policy Committee.

A British Standard does not purport to include all the necessary provisions of a contract. Users of British Standards are responsible for their correct application.

Compliance with a British Standard does not of itself confer immunity from legal obligations.

Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, pages 1 to 6, an inside back cover and a back cover.

This standard has been updated (see copyright date) and may have had amendments incorporated. This will be indicated in the amendment table on the inside front cover.