Chinastandards.org

DL

INDUSTRY STANDARD OF THE

PEOPLE'S REPUBLIC OF CHINA

DL/T 2290-2021

Technical specifications for automatic power generation control/automatic voltage control for pumped storage power stations

抽水蓄能电站自动发电控制/自动电压控制技术规范

(English Translation)

Issued by: National Energy Administration

Preview: page 1 of 4 shown, 15 in the full document. Complete English PDF, instant download:
https://chinastandards.org/standards/dl-t-2290-2021

Chinastandards.org

Table of Contents

[Preview only]
1 Scope
1.2 Normative references
3 Terms and definitions
3.1 General requirements
3.2 Rock
3.3 Cement and mineral admixtures
3.4 Aggregate of high-performance self-compacting concrete
3.5 Chemical admixtures
4 Interface flange 5052 H112 GB/T 3880
4.1 General
4.2 Rated voltage (Ur)
4.3 Rated insulation level
4.4 Rated frequency (fr)
4.5 Rated normal current (Ir) and temperature rise
4.6 Rated short-time withstand current (Ik)
4.7 Rated peak withstand current (Ip)
4.8 Rated duration of short circuit (tk)
5 Fixed tray 5754 H112 GB/T 3191
5.1 Designation of materials used for main parts and components
5.2 Seal ring material requirements
5.3 Earthing of circuit-breakers
5.4 Auxiliary and control equipment
5.5 Power operation
5.6 Stored energy operation
5.7 Independent manual operation
5.8 Operation of releases
5.9 Low- and high-pressure interlocking devices
6 Cooling tube 1050A GB/T 6893
6.1 Requirements for arrangement of tube bundle cooling element
6.2 Design pressure of tube bundle
6.3 Design of tube bundle structure

Preview: page 2 of 4 shown, 15 in the full document. Complete English PDF, instant download:
https://chinastandards.org/standards/dl-t-2290-2021

6.4 Measurement of the resistance of the main circuit
6.5 Temperature-rise tests
6.6 Short-time withstand current and peak withstand current tests
6.7 Verification of the degree of protection
6.8 Tightness tests
6.9 Electromagnetic compatibility (EMC) tests
7 Tube plate and connecting plate 5A05 and 6063 T6 GB/T 6892
7.2 Dielectric test on the main circuit
7.3 Tests on auxiliary and control circuits
7.6 Design and visual checks
7.7 Mechanical operating and mechanical characteristic tests
7.8 Gas humidity measurement
8 Inspection and acceptance
9 Marking, packaging, storage and transport

1 Foreword

DL/T 2290-2021 was issued by National Energy Administration on 26 April 2021 and has been in force since 26 October 2021.

The DL/T prefix marks a recommended standard. It is not law in itself: it becomes binding when a contract names it, when a regulation or a mandatory standard refers to it, or when a producer declares conformity with it.

The document runs to 15 pages in English translation.

2 Scope Preview

DL/T 2290-2021 carries no ICS number and no Chinese Standard Classification code.

This catalogue holds 4,757 other DL/T standards.

Of the 2,309 DL/T standards that do carry an ICS number, 1,146 (50%) fall under ICS 27, in the field of energy and heat transfer engineering.

3 About this standard

Sector: Electricity & Power

Issued by: National Energy Administration

English translation: about 15 pages (approximate)

Preview: page 3 of 4 shown, 15 in the full document. Complete English PDF, instant download:
https://chinastandards.org/standards/dl-t-2290-2021

Chinastandards.org

4 Classification and status

Chinese Standard Classification (CCS): F 23

Prefix DL/T: recommended standard.

Preview: page 4 of 4 shown, 15 in the full document. Complete English PDF, instant download:
https://chinastandards.org/standards/dl-t-2290-2021