

JIS

JAPANESE
INDUSTRIAL
STANDARD

Translated and Published by
Japanese Standards Association

JIS C 1263-1 : 2009

Var-hour meters—Part 1: General measuring instrument

ICS 17.220.20

Reference number : JIS C 1263-1 : 2009 (E)

Date of Establishment: 2009-04-20

Date of Public Notice in Official Gazette: 2009-04-20

Investigated by: Japanese Industrial Standards Committee
Standards Board
Technical Committee on Testing and Measurement
Technology

JIS C 1263-1:2009, First English edition published in 2010-07

Translated and published by: Japanese Standards Association
4-1-24, Akasaka, Minato-ku, Tokyo, 107-8440 JAPAN

In the event of any doubts arising as to the contents,
the original JIS is to be the final authority.

© JSA 2010

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from the publisher.

Printed in Japan

KK/AT

Contents

| | Page |
|---|------|
| Introduction..... | 1 |
| 1 Scope..... | 1 |
| 2 Normative references | 1 |
| 3 Classification..... | 2 |
| 3.1 Applicable circuits | 2 |
| 3.2 System configuration | 2 |
| 3.3 Rated voltage, rated current, rated frequency and weather resistance..... | 5 |
| 3.4 Meter constant | 5 |
| 3.5 Pulse constant | 5 |
| 4 Performance | 5 |
| 4.1 General..... | 5 |
| 4.2 Allowable limits of measurement error..... | 5 |
| 4.3 Electrical performance | 6 |
| 4.4 Mechanical performance | 8 |
| 4.5 Temperature rise of current coils and terminals | 9 |
| 4.6 Insulation performance..... | 9 |
| 4.7 Durability | 10 |
| 4.8 Performance of transmitter..... | 10 |
| 5 Structure and dimensions | 11 |
| 5.1 Wire connection method and terminal arrangement | 11 |
| 5.2 Symbol and color of terminals | 11 |
| 5.3 Dimensions | 13 |
| 5.4 Structure and dimensions of transmitter | 15 |
| 6 Tests | 18 |
| 6.1 General..... | 18 |
| 6.2 Test methods | 18 |
| 7 Inspections..... | 28 |
| 7.1 Type inspection | 28 |
| 7.2 Acceptance inspection | 28 |
| 8 Designation of products | 29 |
| Annex A (normative) Combination with transformer and allowable limits of overall error | 30 |

Foreword

This translation has been made based on the original Japanese Industrial Standard established by the Minister of Economy, Trade and Industry through deliberations at the Japanese Industrial Standards Committee in accordance with the Industrial Standardization Law.

Consequently **JIS C 1263**:1995 was withdrawn and replaced with this Standard.

This **JIS** document is protected by the Copyright Law.

Attention is drawn to the possibility that some parts of this Standard may conflict with a patent right, application for a patent after opening to the public, utility model right or application for registration of utility model after opening to the public which have technical properties. The relevant Minister and the Japanese Industrial Standards Committee are not responsible for identifying the patent right, application for a patent after opening to the public, utility model right or application for registration of utility model after opening to the public which have the said technical properties.

JIS C 1263 consists of the following 2 parts under the general title “*Var-hour meters*”:

Part 1: General measuring instrument

Part 2: Measuring instruments used in transaction or certification

Var-hour meters—Part 1: General measuring instrument

Introduction

This Japanese Industrial Standard is established in order to specify the technical requirements needed for var-hour meters as general measuring instrument. Since this Standard does not include the requirements concerning the marking method, the var-hour meters cannot be given the marking as stipulated in Article 19 of the Industrial Standardization Law, which indicates their conformity to this Standard.

1 Scope

This Standard specifies the var-hour meters for general use, namely, var-hour meters used in combination with instrument transformers, var-hour meters for summation measurement of multi circuits of the current composing system, transmitter-incorporating var-hour meters, and transmitter-incorporating var-hour meters for summation measurement of multi circuits of the current composing system, in three-phase three-wire system and three-phase four-wire system circuits (hereafter referred to as “meters”). For meters provided with auxiliary devices, this Standard shall be applied to the var-hour meter units under such a condition that the auxiliary devices are attached.

This Standard applies the voltage and current with a waveform that is approximately sinusoidal.

This Standard is applied only to the meters equipped with the reversal preventing device or reverse measurement blocking device.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this Standard. The most recent editions of the standards (including amendments) indicated below shall be applied.

JIS B 1101 *Slotted head screws*

JIS B 1135 *Slotted head wood screws*

JIS C 1210 *General rules for electricity meters*

JIS C 1281 *Weather-proof performance of electricity meters*

JIS C 1736-1 *Instrument transformers for metering service—Part 1: General measuring instrument*

JIS C 4003 *Thermal evaluation and classification of electrical insulation*

JIS C 60068-2-6 *Environmental testing Part 2: Tests—Test Fc: Vibration (sinusoidal)*

JIS C 60068-2-27 *Basic environmental testing procedures Part 2: Tests, Test Ea and guidance: Shock*