
**Electrically propelled road vehicles —
Test specification for electric
propulsion components —**

Part 5:
**Operating load testing of the motor
system**

*Véhicules à propulsion électrique — Spécification d'essai pour les
composants de propulsion électrique —*

Partie 5: Essai de charge de fonctionnement d'un système de moteur

ISO 21782-5:2021

<https://standards.iteh.ai/catalog/standards/iso/e138d4a3-e8ad-4dd7-9f27-2192fef36317/iso-21782-5-2021>



iTeh Standards
(<https://standards.iteh.ai>)
Document Preview

[ISO 21782-5:2021](https://standards.iteh.ai/catalog/standards/iso/e138d4a3-e8ad-4dd7-9f27-2192fef36317/iso-21782-5-2021)

<https://standards.iteh.ai/catalog/standards/iso/e138d4a3-e8ad-4dd7-9f27-2192fef36317/iso-21782-5-2021>



COPYRIGHT PROTECTED DOCUMENT

© ISO 2021

All rights reserved. Unless otherwise specified, or required in the context of its implementation, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
CP 401 • Ch. de Blandonnet 8
CH-1214 Vernier, Geneva
Phone: +41 22 749 01 11
Email: copyright@iso.org
Website: www.iso.org

Published in Switzerland

Contents

Page

Foreword	iv
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Symbols and abbreviated terms	1
5 Tests and requirements	1
5.1 Endurance test	1
5.1.1 General	1
5.1.2 Test diagram	2
5.1.3 Test conditions	2
5.1.4 Test procedure	3
5.1.5 Test requirements	5
5.2 Surge voltage measurement test	6
5.2.1 General	6
5.2.2 Test diagram	6
5.2.3 Test conditions	7
5.2.4 Test procedure	8
5.2.5 Test requirements	8
5.3 Over speed test	8
5.3.1 General	8
5.3.2 Test diagram	8
5.3.3 Test conditions	9
5.3.4 Test procedure	9
5.3.5 Test requirements	9
6 Test report	9
Annex A (informative) Methods for determining the rank for over speed test	10
Annex B (informative) Test report	12