

Australian/New Zealand Standard™

Safety of household and similar electrical appliances

Part 2.40: Particular requirements for electrical heat pumps, air-conditioners and dehumidifiers (IEC 60335-2-40:1995, MOD)



AS/NZS 3350.2.40:2001

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee EL-002, Safety of Household and Similar Electrical Appliances and Small Power Transformers. It was approved on behalf of the Council of Standards Australia on 2 October 2001 and on behalf of the Council of Standards New Zealand on 12 October 2001.

This Standard was published on 12 November 2001.

The following are represented on Committee EL-002:

Association of Certification Bodies
Australian Chamber of Commerce and Industry
Australian Electrical and Electronic Manufacturers Association
Canterbury Manufacturers Association New Zealand
Consumer Electronic Suppliers Association, Australia
Electrical regulatory authorities, Australia
Electrical test laboratories
Electrical consultants
Electricity Supply Association of Australia
Institution of Engineers Australia
Metal Trades Industries Association of Australia
Ministry of Consumer Affairs, New Zealand

Keeping Standards up-to-date

Standards are living documents which reflect progress in science, technology and systems. To maintain their currency, all Standards are periodically reviewed, and new editions are published. Between editions, amendments may be issued. Standards may also be withdrawn. It is important that readers assure themselves they are using a current Standard, which should include any amendments which may have been published since the Standard was purchased.

Detailed information about joint Australian/New Zealand Standards can be found by visiting the Standards Web Shop at www.standards.com.au or Standards New Zealand web site at www.standards.co.nz and looking up the relevant Standard in the on-line catalogue.

Alternatively, both organizations publish an annual printed Catalogue with full details of all current Standards. For more frequent listings or notification of revisions, amendments and withdrawals, Standards Australia and Standards New Zealand offer a number of update options. For information about these services, users should contact their respective national Standards organization.

We also welcome suggestions for improvement in our Standards, and especially encourage readers to notify us immediately of any apparent inaccuracies or ambiguities. Please address your comments to the Chief Executive of either Standards Australia or Standards New Zealand at the address shown on the back cover.

AS/NZS 3350.2.40:2001
(Incorporating Amendment No. 1)

Australian/New Zealand Standard™

**Safety of household and similar
electrical appliances**

**Part 2.40: Particular requirements for
electrical heat pumps, air-conditioners
and dehumidifiers
(IEC 60335-2-40:1995, MOD)**

Originated in Australia as C179—1970.
Originated in New Zealand as NZS/AS 3179—1986.
Jointly revised and designated AS/NZS 3179—1993.
Revised and designated AS/NZS 3350.2.40:1997.
Second edition AS/NZS 3350.2.40:2001.
Reissued incorporating Amendment No. 1 (May 2007).

COPYRIGHT

© Standards Australia/Standards New Zealand

All rights are reserved. No part of this work may be reproduced or copied in any form or by any means, electronic or mechanical, including photocopying, without the written permission of the publisher.

Jointly published by Standards Australia, GPO Box 476, Sydney, NSW 2001 and Standards New Zealand, Private Bag 2439, Wellington 6020

ISBN 0 7337 4440 0

CONTENTS

	Page
PREFACE	5
Clause	
1 Scope	7
2 Definitions	8
3 General requirement.....	10
4 General conditions for the tests	10
5 Void	10
6 Classification.....	10
7 Marking and instructions	11
8 Protection against access to live parts	13
9 Starting of motor-operated appliances.....	13
10 Power input and current.....	13
11 Heating	13
12 Void	18
13 Leakage current and electric strength at operating temperature	18
14 Void	18
15 Moisture resistance	18
16 Leakage current and electric strength	19
17 Overload protection of transformers and associated circuits	20
18 Endurance.....	20
19 Abnormal operation	20
20 Stability and mechanical hazards	27
21 Mechanical strength	27
22 Construction	27
23 Internal wiring.....	30
24 Components	30
25 Supply connection and external cords	30
26 Terminals for external conductors	31
27 Provision for earthing.....	31
28 Screws and connections	31
29 Creepage distances, clearances and distances through insulation	31
30 Resistance to heat, fire and tracking	32
31 Resistance to rusting	32
32 Radiation, toxicity and similar hazards	32

Annexes	36
Annex A (normative) Normative references.....	36
Annex D (normative) Alternative requirements for protected motor units.....	37
Annex F (normative) Motors not isolated from the supply mains and having basic insulation not designed for the rated voltage of the appliance	37
Annex AA (informative) Examples for operating temperatures of the appliance	38
Annex ZZ (informative) Variations to IEC 60335-2-40:1995 for application in Australia and New Zealand	39
Figure 101a) – Arrangement for heating test of appliances with supplementary heater – upflow application	33
Figure 101b) – Arrangement for heating test of appliances with supplementary heater – downflow application.....	34
Figure 102 – Supply circuit for locked-rotor test of a motor of the single-phase type – Revise as needed for three-phase test	35
Table 3 – Temperature limits.....	16
Table 6 – Maximum winding temperature.....	21
Table 7 – Maximum abnormal temperature	26
Table 101 – Minimum clearances and creepage distances for motor-compressors.....	32

This is a free preview. Purchase the entire publication at the link below:

[Product Page](#)

-
- [Looking for additional Standards? Visit Intertek Inform Infostore](#)
 - [Learn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation](#)
-