SLOVENSKI STANDARD
SIST EN 61800-7-202:2008

01-junij-2008

Električni pogonski sistemi z nastavljivo hitrostjo - 7-202. del: Generični vmesnik in uporaba profilov za električne pogonske sisteme - Specifikacija za profil tipa 2 (IEC 61800-7-202:2007)

Adjustable speed electrical power drive systems - Part 7-202: Generic interface and use of profiles for power drive systems - Profile type 2 specification (IEC 61800-7-202:2007)

Elektrische Leistungsantriebssysteme mit einstellbarer Drehzahl - Teil 7-202: Generisches Interface und Nutzung von Profilen für Leistungsantriebssysteme (PDS) - Spezifikation von Profil-Typ 2 (IEC 61800-7-202:2007)

Entraînements électriques de puissance à vitesse variable - Partie 7-202: Interface et utilisation génériques de profils pour les entraînements électriques de puissance - Spécifications des profils de type 2 (CEI 61800-7-202:2007)

iTeh STANDARD PREVIEW
(standards.iteh.ai)
SIST EN 61800-7-202:2008
https://standards.iteh.ai/catalog/standards/sist/9e70d634-3f6c-481f-b525-

Ta slovenski standard je istoveten z: **EN 61800-7-202:2008**

ICS:

29.200	Usmerniki. Pretvorniki. Stabilizirano električno napajanje	Rectifiers. Convertors. Stabilized power supply
35.100.05	Večslojne uporabniške rešitve	Multilayer applications

SIST EN 61800-7-202:2008 **en**

2003-01.Slovenski inštitut za standardizacijo. Razmnoževanje celote ali delov tega standarda ni dovoljeno.

iTeh STANDARD PREVIEW
(standards.iteh.ai)

SIST EN 61800-7-202:2008
https://standards.iteh.ai/catalog/standards/sist/9c70d054-3f0c-48f1-b325-8c645fc2ec2e/sist-en-61800-7-202-2008

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 61800-7-202

April 2008

ICS 29.200; 35.100.05

English version

Adjustable speed electrical power drive systems - Part 7-202: Generic interface and use of profiles for power drive systems - Profile type 2 specification

(IEC 61800-7-202:2007)

Entraînements électriques de puissance à vitesse variable - Partie 7-202: Interface et utilisation génériques de profils pour les entraînements électriques de puissance - Spécifications des profils de type 2 (CEI 61800-7-202:2007)

Elektrische Leistungsantriebssysteme mit einstellbarer Drehzahl - Teil 7-202: Generisches Interface und Nutzung von Profilen für Leistungsantriebssysteme (PDS) - Spezifikation von Profil-Typ 2 (IEC 61800-7-202:2007)

iTeh STANDARD PREVIEW
(standards.iteh.ai)
SIST EN 61800-7-202:2008
https://standards.iteh.ai/catalog/standards/sist/9c700f84-3f0e-4e0f-b375-8c645b2ec2e/sist-en-61800-7-202-2008

This European Standard was approved by CENELEC on 2008-02-01. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CENELEC member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the Central Secretariat has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Bulgaria, Cyprus, the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.

CENELEC

European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

Central Secretariat: rue de Stassart 35, B - 1050 Brussels

© 2008 CENELEC - All rights of exploitation in any form and by any means reserved worldwide for CENELEC members.

Foreword

The text of document 22G/184/FDIS, future edition 1 of IEC 61800-7-202, prepared by SC 22G, Adjustable speed electric drive systems incorporating semiconductor power converters, of IEC TC 22, Power electronic systems and equipment, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 61800-7-202 on 2008-02-01.

The following dates were fixed:

– latest date by which the EN has to be implemented at national level by publication of an identical national standard or by endorsement	(dop)	2008-11-01
– latest date by which the national standards conflicting with the EN have to be withdrawn	(dow)	2011-02-01

The International Electrotechnical Commission (IEC) and CENELEC draw attention to the fact that it is claimed that compliance with this document may involve the use of a patent concerning:

Publication/ Application serial number	Holder	Title
US 11/241,539	[RA]	Time Stamped Motion Control Network Protocol That Enables Balanced Single Cycle Timing and Utilization of Dynamic Data Structures

The IEC and CENELEC take no position concerning the evidence, validity and scope of this patent right.

iTeh STANDARD PREVIEW
(standards.iteh.ai)

The holder of this patent right has assured the IEC that he/she is willing to negotiate licences under reasonable and non-discriminatory terms and conditions with applicants throughout the world. In this respect, the statement of the holder of this patent right is registered with the IEC. Information may be obtained from:

SIST EN 61800-7-202:2008
https://standards.iteh.ai/catalog/standards/sist/9c70d054-3f0c-48f1-b325-8c645fc2ec2e/sist-en-61800-7-202-2008

[RA] Rockwell Automation, Inc.
1201 S. Second Street
Milwaukee, WI 53204
USA
Attention: Intellectual Property Dept.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights other than those identified above. IEC and CENELEC shall not be held responsible for identifying any or all such patent rights.

Annex ZA has been added by CENELEC.

———————

Endorsement notice

The text of the International Standard IEC 61800-7-202:2007 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following notes have to be added for the standards indicated:

IEC 61158	NOTE	Harmonized in EN 61158 series (not modified).
IEC 61158-2	NOTE	Harmonized as EN 61158-2:2008 (not modified).
IEC 61158-3-2	NOTE	Harmonized as EN 61158-3-2:2008 (not modified).
IEC 61158-4-2	NOTE	Harmonized as EN 61158-4-2:2008 (not modified).
IEC 61499-1	NOTE	Harmonized as EN 61499-1:2005 (not modified).
IEC 61784-1	NOTE	Harmonized as EN 61784-1:2008 (not modified).
IEC 61784-2	NOTE	Harmonized as EN 61784-2:2008 (not modified).
IEC 61800	NOTE	Harmonized in EN 61800 series (not modified).
IEC 61800-7-201	NOTE	Harmonized as EN 61800-7-201:2008 (not modified).
IEC 61800-7-203	NOTE	Harmonized as EN 61800-7-203:2008 (not modified).
IEC 61800-7-204	NOTE	Harmonized as EN 61800-7-204:2008 (not modified).
IEC 61800-7-301	NOTE	Harmonized as EN 61800-7-301:2008 (not modified).
IEC 61800-7-302	NOTE	Harmonized as EN 61800-7-302:2008 (not modified).
IEC 61800-7-303	NOTE	Harmonized as EN 61800-7-303:2008 (not modified).
IEC 61800-7-304	NOTE	Harmonized as EN 61800-7-304:2008 (not modified).

iTeh STANDARD PREVIEW
(standards.iteh.ai)
SIST EN 61800-7-202:2008
https://standards.iteh.ai/catalog/standards/sist/9c70d054-3f0c-48f1-b325-8c645fc2ec2e/sist-en-61800-7-202-2008

Annex ZA
(normative)

Normative references to international publications with their corresponding European publications

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

NOTE When an international publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

Publication	Year	Title	EN/HD	Year
IEC 60204-1 (mod)	-[1)]	Safety of machinery - Electrical equipment of machines - Part 1: General requirements	EN 60204-1	2006[2)]
IEC 61131-3	-[1)]	Programmable controllers - Part 3: Programming languages	EN 61131-3	2003[2)]
IEC 61158-5-2	-[1)]	Industrial communication networks - Fieldbus specifications - Part 5-2: Application layer service definition - Type 2 elements	EN 61158-5-2	2008[2)]
IEC 61158-6-2	-[1)]	Industrial communication networks - Fieldbus specifications - Part 6-2: Application layer protocol specification - Type 2 elements	EN 61158-6-2	2008[2)]
IEC 61588	2004	Precision clock synchronization protocol for networked measurement and control systems	-	-
IEC 61800-7	Series	Adjustable speed electrical power drive systems - Generic interface and use of profiles for power drive systems	EN 61800-7	Series
IEC 61800-7-1	-[1)]	Adjustable speed electrical power drive systems - Part 7-1: Generic interface and use of profiles for power drive systems - Interface definition	EN 61800-7-1	2008[2)]
IEEE 802.1Q	-[1)]	IEEE Standard for Local and Metropolitan Area Networks: Virtual Bridged Local Area Networks	-	-

iTeh STANDARD PREVIEW
(standards.iteh.ai)
SIST EN 61800-7-202:2008
https://standards.iteh.ai/catalog/standards/sist/9c70d054-3f0c-48f1-b325-8c0451c28c2e/sist-en-61800-7-202-2008

[1)] Undated reference.

[2)] Valid edition at date of issue.

IEC 61800-7-202

Edition 1.0 2007-11

INTERNATIONAL STANDARD

Adjustable speed electrical power drive systems – Part 7-202: Generic interface and use of profiles for power drive systems – Profile type 2 specification

iTeh STANDARD PREVIEW
(standards.iteh.ai)
SIST EN 61800-7-202:2008
https://standards.iteh.ai/catalog/standards/sist/9c70d054-3f0c-48f1-b325-8c645fc2ec2e/sist-en-61800-7-202-2008

INTERNATIONAL ELECTROTECHNICAL COMMISSION

PRICE CODE XJ

ICS 29.200; 35.100.05

ISBN 2-8318-9376-3

CONTENTS

FOREWORD 9
INTRODUCTION 11

1 Scope 14
2 Normative references 14
3 Terms, definitions and abbreviated terms 15
3.1 Terms and definitions 15
3.2 Abbreviated terms 21
4 General 21
4.1 General 21
4.2 Control modes 22
4.2.1 General 22
4.2.2 Control methods 22
4.2.3 Control nomenclature 22
4.2.4 Position Control 23
4.2.5 Velocity Control 24
4.2.6 Acceleration Control 26
4.2.7 Torque Control 26
4.2.8 No Control 27
5 Data types 28
5.1 Data type overview 28
5.2 Conventions 29
6 CIP Drive Profile 29
6.1 Object model 29
6.1.1 Object overview 29
6.1.2 Object description 30
6.2 How objects affect behaviour 30
6.3 Defining object interfaces 30
6.4 I/O Connection messages 31
6.4.1 General 31
6.4.2 CIP Motion I/O connection 31
6.4.3 Controller-to-Device connection 34
6.4.4 Device-to-Controller connection 46
6.4.5 Fixed Device connection format 53
6.4.6 CIP Motion connection timing 54
6.5 Drive startup procedure 63
6.5.1 General 63
6.5.2 Motion I/O Connection creation 63
6.5.3 Motion Axis Object configuration 63
6.5.4 Time Synchronisation 64
6.6 Device visualisation 65
6.7 Ethernet Quality of Service (QoS) 65
7 Motion Axis Object 66
7.1 General considerations 66
7.1.1 General 66
7.1.2 Object overview 66

iTeh STANDARD PREVIEW
(standards.iteh.ai)
SIST EN 61800-7-202:2008
https://standards.iteh.ai/catalog/standards/sist/9c70d054-3f0c-48f1-b325-8c645fc2ec2e/sist-en-61800-7-202-2008

7.1.3 Motion Axis Object abstraction 66
7.1.4 Motion Control Axis Object 67
7.1.5 Drive control classification 67
7.1.6 Required vs. Optional in implementation 68
7.2 Class attributes 76
7.2.1 General 76
7.2.2 Semantics 79
7.3 Instance attributes 82
7.3.1 General 82
7.3.2 Motion Control configuration attributes 83
7.3.3 Motor attributes 85
7.3.4 Feedback attributes 92
7.3.5 Event Capture attributes 98
7.3.6 Command reference generation attributes 102
7.3.7 Control mode attributes 106
7.3.8 Stopping & Braking attributes 116
7.3.9 DC Bus Control attributes 119
7.3.10 Power and thermal management attributes 120
7.3.11 Axis Status Attributes 122
7.3.12 Exception, fault, and alarm status attributes 126
7.3.13 Exception limit attributes 131
7.3.14 Exception action configuration attribute 132
7.3.15 Initialisation fault status attributes 134
7.3.16 Start inhibit status attributes 136
7.3.17 Axis statistical attributes 137
7.3.18 Axis info attributes 138
7.3.19 General purpose I/O attributes 138
7.3.20 Local Mode Attributes 139
7.4 Common services 139
7.4.1 Supported services 139
7.4.2 Service specific data 140
7.5 Object specific services 141
7.5.1 Supported services 141
7.5.2 Service specific data 142
7.6 Behaviour 151
7.6.1 State model 151
7.6.2 State behaviour 154
7.6.3 Fault and alarm behaviour 157
7.6.4 Start Inhibit behaviour 158
7.6.5 Visualization behaviour 158
7.6.6 Command generation behaviour 163
7.6.7 Feedback Interface Behavior 166
7.6.8 Event Capture Behavior 169
7.6.9 Control Mode Behaviour 170

Bibliography 181

Figure 1 – Structure of IEC 61800-7 13

iTeh STANDARD PREVIEW
(standards.iteh.ai)
SIST EN 61800-7-202:2008
https://standards.iteh.ai/catalog/standards/sist/9c70d054-3f0c-48ff-b325-8c0451e2ee2e/sist-en-61800-7-202-2008

Figure 2 – Open loop position control 23
Figure 3 – Closed loop position control 24
Figure 4 – Open loop velocity control 25
Figure 5 – Closed loop velocity control 25
Figure 6 – Acceleration control 26
Figure 7 – Torque control 27
Figure 8 – No control 28
Figure 9 – Object Model for a CIP Motion drive 29
Figure 10 – CIP Motion I/O connection model 31
Figure 11 – Controller-to-Device Connection Format 32
Figure 12 – Device-to-Controller Connection Format 33
Figure 13 – CIP Motion I/O Connection Channels 34
Figure 14 – CIP Motion Controller-to-Device Connection Format 34
Figure 15 – Connection Header 35
Figure 16 – Connection Format 35
Figure 17 – Connection Header 36
Figure 18 – Instance Data Block 37
Figure 19 – Instance Data Header 38
Figure 20 – Cyclic Data Header 38
Figure 21 – Cyclic Write Data Block 43
Figure 22 – Event Data Block 43
Figure 23 – Service Data Block 45
Figure 24 – CIP Motion Controller-to-Device Connection Format 46
Figure 25 – Connection Header 46
Figure 26 – Connection Header 47
Figure 27 – Adjustment of actual position data based on device time stamp 48
Figure 28 – Instance Data Block 48
Figure 29 – Instance Data Header 49
Figure 30 – Cyclic Data Block 49
Figure 31 – Cyclic Read Data Block 50
Figure 32 – Event Data Block 51
Figure 33 – Service Data Block 52
Figure 34 – Fixed Controller to Device Connection Format (fixed size = 16 bytes) 53
Figure 35 – Fixed Device to Controller Connection Format (fixed size = 16 bytes) 53
Figure 36 – CIP Motion I/O Connection timing model 54
Figure 37 – Controller-to-Drive Connection timing with fine interpolation 55
Figure 38 – Controller-to-Drive Connection timing with unequal update periods 57
Figure 39 – Use of Time Stamp to adjust actual position to the controller's timebase 58
Figure 40 – Coordination of two drives with different Update Periods. 59
Figure 41 – Coordination of multiple drive axes in case of delayed Controller-to-Device Connection packets 60
Figure 42 – Propagation of a step change in time 61
Figure 43 – Group Sync of CIP Motion drives 64

iTeh STANDARD PREVIEW
(standards.iteh.ai)
SIST EN 61800-7-202:2008
https://standards.iteh.ai/catalog/standards/sist/9c70d054-3f0c-48f1-b325-8e643c2e3e2e/sist-en-61800-7-202-2008

Figure 44 – Object components for CIP motion architecture 66
Figure 45 – Controller Consumed Connection Data Format 79
Figure 46 – Controller Produced Connection Data Format 80
Figure 47 – Control Mode bit field 84
Figure 48 – IEEE per phase motor model 85
Figure 49 – Feedback Configuration bit field 97
Figure 50 – Event Checking Control word field 100
Figure 51 – Event Checking Status word field 101
Figure 52 – Interpolation Control word field 105
Figure 53 – Get Axis Attribute List Request Format 142
Figure 54 – Get Axis Attribute List Response Format 143
Figure 55 – Get Axis Attribute List Response – Example 1 144
Figure 56 – Get Axis Attribute List Response – Example 2 144
Figure 57 – Get Axis Attribute List Response – Example 3 144
Figure 58 – Get Axis Attribute List Response – Example 4 144
Figure 59 – Set Axis Attribute List Request Format 145
Figure 60 – Set Axis Attribute List Request – Example 1 146
Figure 61 – Set Axis Attribute List Request – Example 2 146
Figure 62 – Set Axis Attribute List Request – Example 3 146
Figure 63 – Set Axis Attribute List Response Format 146
Figure 64 – Set Cyclic Write List Request Format 147
Figure 65 – Set Cyclic Write List Response Format 147
Figure 66 – Set Cyclic Read List Request Format 148
Figure 67 – Set Cyclic Read List Response Format 148
Figure 68 – Motion Axis Object State Model 152
Figure 69 – Command Generator 163
Figure 70 – Feedback Channels 1 and 2 167
Figure 71 – Feedback Channels 3 and 4 168
Figure 72 – Event Capture Functionality 169
Figure 73 – No Control (Feedback Only) 171
Figure 74 – Closed Loop Position Control 172
Figure 75 – Closed Loop Velocity Control 174
Figure 76 – Open Loop Frequency Control 176
Figure 77 – Acceleration Control 177
Figure 78 – Torque Control 178
Figure 79 – Closed Loop Current Vector Control 179

Table 1 – Data types 28
Table 2 – Objects present in a CIP Motion drive device 30
Table 3 – Object effect on behavior 30
Table 4 – Object interfaces 30
Table 5 – Time Data Set 36
Table 6 – Axis Control 39

iTeh STANDARD PREVIEW
(standards.iteh.ai)
SIST EN 61800-7-202:2008
https://standards.iteh.ai/catalog/standards/sist/9c70d054-3f0c-48f1-b325-
SIST EN 61800-7-202:2008

Table 7 – Command Data Set 39
Table 8 – Command Data Element to Motion Axis Object Attribute mapping 40
Table 9 – Actual Data Set 40
Table 10 – Actual Data Element to Motion Axis Object Attribute Mapping 41
Table 11 – Status Data Set configuration 41
Table 12 – Interpolation Control 42
Table 13 – Axis Response 50
Table 14 – Event Type 52
Table 15 – Propagation of a step change in time (example 1) 61
Table 16 – Propagation of a step change in time (example 2) 63
Table 17 – CIP Motion visualisation components 65
Table 18 – Instance attribute implementation vs. Device Control Code 68
Table 19 – Class attributes for the Motion Axis Object 77
Table 20 – Node Control bit definitions 80
Table 21 – Node Status bit definitions 81
Table 22 – Node Faults code definitions 81
Table 23 – Node Alarms code definitions 82
Table 24 – Dynamic Unit vs. Feedback Configuration 83
Table 25 – Motion Control configuration attributes 83
Table 26 – Motion Control field enumeration definitions 84
Table 27 –Control Method field enumeration definitions 84
Table 28 – General Motor Info Attributes 86
Table 29 – General Motor Configuration Attributes 86
Table 30 – General PM Motor Configuration Attributes 89
Table 31 – General Rotary Motor Configuration Attributes 89
Table 32 – General Linear Motor Configuration Attributes 90
Table 33 – Rotary PM Motor Configuration Attributes 90
Table 34 – Linear PM Motor Configuration Attributes 91
Table 35 – Induction Motor Configuration Attributes 91
Table 36 – General Feedback Info Attributes 92
Table 37 – Feedback Configuration Attributes 93
Table 38 – Feedback Selection field enumeration definitions 98
Table 39 – Event Attributes 99
Table 40 – Event Checking Control bit definitions 100
Table 41 – Event Checking Status bit definitions 101
Table 42 – Command Generator Signal Attributes 102
Table 43 – Command Generator Configuration Attributes 103
Table 44 – Command Target Update enumeration definition 105
Table 45 – Position Loop Signal Attributes 106
Table 46 – Position Loop Configuration Attributes 107
Table 47 – Velocity Loop Signal Attributes 108
Table 48 – Velocity Loop Configuration Attributes 108
Table 49 – Acceleration Signal Attributes 110

iTeh STANDARD PREVIEW
(standards.iteh.ai)
SIST EN 61800-7-202:2008
https://standards.iteh.ai/catalog/standards/sist/9c70d054-3f0c-48f1-b325-fa0142e3e2e4/sist-en-61800-7-202-2008

Table 50 – Torque/Force Reference Signal Attributes 110
Table 51 – Torque/Force Reference Configuration Attributes 111
Table 52 – Current Loop Signal Attributes 112
Table 53 – Current Loop Configuration Attributes 114
Table 54 – Frequency Control Signal Attributes 114
Table 55 – Frequency Control Configuration Attributes 115
Table 56 – Drive Output Attributes 115
Table 57 – Stopping/Braking Attributes 116
Table 58 – Stopping Mode enumeration definitions 117
Table 59 – DC Bus Control Attributes 119
Table 60 – Power and Thermal Management Status Attributes 121
Table 61 – Power and Thermal Management Configuration Attributes 122
Table 62 – Axis Status Attributes 123
Table 63 – Axis Status bit definitions 124
Table 64 – Axis I/O Status bit definitions 124
Table 65 –Status Data Set bit definitions 125
Table 66 – Exception, Fault and Alarm Status Attributes 126
Table 67 – Standard Exception Table 129
Table 68 – Exception Factory Limit Info Attributes 131
Table 69 – Exception User Limit Configuration Attributes 132
Table 70 – Exception Action Configuration Attribute 133
Table 71 – Exception Action Bit Definitions 133
Table 72 – Initialisation Fault Status Attributes 134
Table 73 – Standard Initialisation Fault Table 136
Table 74 – Start Inhibit Status Attributes 136
Table 75 – Standard Start Inhibit Table 137
Table 76 –Statistical Attributes 137
Table 77 – Axis Info Attributes 138
Table 78 – General Purpose I/O Attributes 138
Table 79 – Local Mode Configuration Attributes 139
Table 80 – Motion Axis Object – Common Services 139
Table 81 – Group_Sync Request Data Structure 140
Table 82 – Group_Sync Response Data Structure 140
Table 83 – Motion Axis Object – Object Specific Services 141
Table 84 – Run Motor Test Request Data Structure 149
Table 85 – Get Motor Test Response Data Structure 149
Table 86 – Run Inertia Test Request Data Structure 150
Table 87 – Get Inertia Test Response Data Structure 150
Table 88 – Run Hookup Test Request Data Structure 151
Table 89 – Get Hookup Test Response Data Structure 151
Table 90 – Axis Control Request Code 152
Table 91 – Axis Response Acknowledge Codes 153
Table 92 – Completion Criteria for Requested Operation 153

iTeh STANDARD PREVIEW
(standards.iteh.ai)
SIST EN 61800-7-202:2008
https://standards.iteh.ai/catalog/standards/sist/9c70d054-3f0c-48f1-b325-8e0451e2e2e0/sist-en-61800-7-202-2008

Table 93 – Successful Axis Control Request Cycle 154
Table 94 – Unsuccessful Axis Control Request Cycle 154
Table 95 – Axis State Mapping to Identity Object with LED Behavior 159
Table 96 – CIP Motion Device Seven-Segment Display Behavior 160
Table 97 – CIP Motion Multi-Character Alphanumeric Display Behavior 161
Table 98 – Multi-Axis Multi-Character Alphanumeric Display Behavior 162

iTeh STANDARD PREVIEW
(standards.iteh.ai)
SIST EN 61800-7-202:2008
https://standards.iteh.ai/catalog/standards/sist/9c70d054-3f0c-48f1-b325-8c645fc2ec2e/sist-en-61800-7-202-2008

INTERNATIONAL ELECTROTECHNICAL COMMISSION

ADJUSTABLE SPEED ELECTRICAL POWER DRIVE SYSTEMS –

Part 7-202: Generic interface and use of profiles for power drive systems – Profile type 2 specification

FOREWORD

1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as "IEC Publication(s)"). Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
2) The formal decisions or agreements of IEC on technical matters express, as nearly as possible, an international consensus of opinion on the relevant subjects since each technical committee has representation from all interested IEC National Committees.
3) IEC Publications have the form of recommendations for international use and are accepted by IEC National Committees in that sense. While all reasonable efforts are made to ensure that the technical content of IEC Publications is accurate, IEC cannot be held responsible for the way in which they are used or for any misinterpretation by any end user.
4) In order to promote international uniformity, IEC National Committees undertake to apply IEC Publications transparently to the maximum extent possible in their national and regional publications. Any divergence between any IEC Publication and the corresponding national or regional publication shall be clearly indicated in the latter.
5) IEC provides no marking procedure to indicate its approval and cannot be rendered responsible for any equipment declared to be in conformity with an IEC Publication.
6) All users should ensure that they have the latest edition of this publication.
7) No liability shall attach to IEC or its directors, employees, servants or agents including individual experts and members of its technical committees and IEC National Committees for any personal injury, property damage or other damage of any nature whatsoever, whether direct or indirect, or for costs (including legal fees) and expenses arising out of the publication, use of, or reliance upon, this IEC Publication or any other IEC Publications.
8) Attention is drawn to the Normative references cited in this publication. Use of the referenced publications is indispensable for the correct application of this publication.
9) Attention is drawn to the possibility that some of the elements of this IEC Publication may be the subject of patent rights. IEC shall not be held responsible for identifying any or all such patent rights.

iTeh STANDARD PREVIEW
(standards.iteh.ai)
SIST EN 61800-7-202:2008
https://standards.iteh.ai/catalog/standards/sist/9c70a054-31de-48ff-8525-8c645fc2ec2e/sist-en-61800-7-202-2008

The International Electrotechnical Commission (IEC) draws attention to the fact that it is claimed that compliance with this document may involve the use of a patent concerning the following:

Publication/ Application serial number	Holder	Title
US 11/241,539	[RA]	Time Stamped Motion Control Network Protocol That Enables Balanced Single Cycle Timing and Utilization of Dynamic Data Structures

The IEC takes no position concerning the evidence, validity and scope of this patent right.

The holder of this patent right has assured the IEC that he is willing to negotiate licences under reasonable and non-discriminatory terms and conditions with applicants throughout the world. In this respect, the statement of the holder of this patent right is registered with IEC. Information may be obtained from