



PowerFlex 400 Adjustable Frequency AC Drive

Catalog Number Z2C, Series B



ATTENTION

- Before installing, configuring, operating or maintaining this product, read this document and the documents listed in the Additional Resources section for installation, programming, or operating equipment. Users should familiarize themselves with instructions and safety instructions in addition to requirements of all applicable codes, laws, and standards.
- Installation, adjustments, putting into service, use, assembly, disassembly and repair must be performed by qualified, trained personnel in accordance with applicable code of practice.
- If this equipment is used in a manner not specified by this manufacturer, the user assumes the responsibility for the consequences.
- Field status equipment has operational characteristics differing from those of standard equipment. Refer to the following documents for the Application, Installation, and Maintenance of Field Status Controls, publication 500-0.1, available from your local Rockwell Automation sales office or online at <http://www.rockwellautomation.com/literature>. Document differences (important differences between field status equipment and standard) are indicated by a field status icon.



ATTENTION

- Do not install, configure, operate or maintain this product until you have read the product documentation and the documents in the Additional Resources section for installation, programming, or operating equipment. For the Application, Installation, and Maintenance of Field Status Controls, publication 500-0.1, available from your local Rockwell Automation sales office or online at <http://www.rockwellautomation.com/literature>.
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Additional Resources

These documents contain additional information concerning the installation, programming, and application of the AC drive.

English	This document is available in multiple languages at http://www.rockwellautomation.com/literature . Select publication language and type "Z2C-0001" in the search box.
French	Document technique en français. Sélectionnez la langue et le type de publication "Z2C-0001" dans la zone de recherche.
German	Les documents sont disponibles dans différentes langues à l'adresse http://www.rockwellautomation.com/literature . Sélectionnez la langue et le type de publication "Z2C-0001" dans la zone de recherche.
Italian	Le documenti sono disponibili in diverse lingue sul sito http://www.rockwellautomation.com/literature . Selezionare la lingua desiderata e digitare "Z2C-0001" nel campo di ricerca.
Spanish	Para encontrar más ayuda de instalación, programación o aplicación de este producto, visite http://www.rockwellautomation.com/literature . Seleccione el idioma de publicación y escriba "Z2C-0001" en el campo de búsqueda.
Portuguese	Para obter mais informações sobre este produto, visite o nosso site http://www.rockwellautomation.com/literature . Selecione a língua de publicação e entre com "Z2C-0001" na caixa de pesquisa.
ES-ES	Para obtener más ayuda de instalación, programación o aplicación de este producto, visite http://www.rockwellautomation.com/literature . Seleccione el idioma de publicación y escriba "Z2C-0001" en el campo de búsqueda.
FR-FR	Les documents sont disponibles en différentes langues sur le site http://www.rockwellautomation.com/literature . Sélectionnez la langue et le type de publication "Z2C-0001" dans la zone de recherche.
DE-DE	Die Dokumente sind in verschiedenen Sprachen auf der Website http://www.rockwellautomation.com/literature verfügbar. Wählen Sie die gewünschte Sprache und geben Sie "Z2C-0001" ein.
IT-IT	Per trovare maggiori informazioni su questo prodotto, visitate il nostro sito http://www.rockwellautomation.com/literature . Selezionare la lingua di pubblicazione e digitare "Z2C-0001" nella casella di ricerca.
PT-BR	Para obter mais informações sobre este produto, visite o nosso site http://www.rockwellautomation.com/literature . Selecione a língua de publicação e entre com "Z2C-0001" na caixa de pesquisa.

Frame	Drive power and the appropriate motor nameplate for agency listing. http://www.rockwellautomation.com/literature . Full-power drive is designed to meet or exceed NEMA motor ratings.
AC Drive	AC Drive power and the appropriate motor nameplate for agency listing. http://www.rockwellautomation.com/literature . Full-power drive is designed to meet or exceed NEMA motor ratings.
DC Drive	See motor catalog for DC drive and the appropriate motor nameplate. http://www.rockwellautomation.com/literature . Full-power drive is designed to meet or exceed NEMA motor ratings.
Notes	See motor catalog for DC drive and the appropriate motor nameplate. http://www.rockwellautomation.com/literature . Full-power drive is designed to meet or exceed NEMA motor ratings.
PowerFlex 400 AC Drive Manual (Z2C-0000)	General information on the parameters and specifications of the PowerFlex 400 adjustable frequency drive.
AC Drive Installation Guidelines (500-0.1)	Provides additional information needed to properly install PowerFlex 400 drives.
Wiring and Grounding Guidelines for PowerFlex 400 AC Drives (500-0.1)	Provides additional information needed to properly wire and ground PowerFlex 400 drives.
Industrial Automation Wiring and Grounding Guidelines (500-0.1)	Provides general guidelines for installing a Rockwell Automation industrial system.

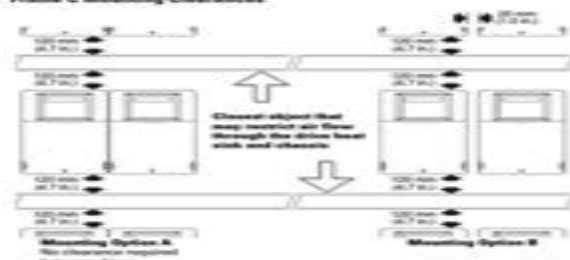
Mounting Considerations

- Mount the drive upright on a flat, vertical and level surface.

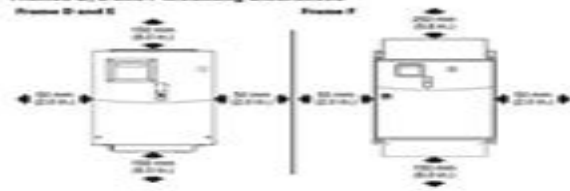
Frame	Temperature Range
1	0 to 50°C (32 to 122°F)
2	0 to 50°C (32 to 122°F)
3	0 to 50°C (32 to 122°F)
4	0 to 50°C (32 to 122°F)
5	0 to 50°C (32 to 122°F)
6	0 to 50°C (32 to 122°F)
7	0 to 50°C (32 to 122°F)
8	0 to 50°C (32 to 122°F)
9	0 to 50°C (32 to 122°F)
10	0 to 50°C (32 to 122°F)

Minimum Mounting Clearances

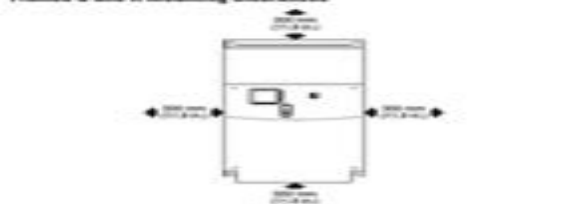
Frame C Mounting Clearances



Frames D, E and F Mounting Clearances



Frames G and H Mounting Clearances



Ambient Operating Temperatures

Frame	Temperature Range	Ambient Rating	Minimum Mounting Clearances
1	0 to 50°C (32 to 122°F)	IP40/UL Type 1	See Mounting Option A
2	0 to 50°C (32 to 122°F)	IP40/UL Type 1	See Mounting Option B
3	0 to 50°C (32 to 122°F)	IP40/UL Type 1	See Mounting Option C
4	0 to 50°C (32 to 122°F)	IP40/UL Type 1	See Mounting Option D
5	0 to 50°C (32 to 122°F)	IP40/UL Type 1	See Mounting Option E
6	0 to 50°C (32 to 122°F)	IP40/UL Type 1	See Mounting Option F
7	0 to 50°C (32 to 122°F)	IP40/UL Type 1	See Mounting Option G
8	0 to 50°C (32 to 122°F)	IP40/UL Type 1	See Mounting Option H
9	0 to 50°C (32 to 122°F)	IP40/UL Type 1	See Mounting Option I
10	0 to 50°C (32 to 122°F)	IP40/UL Type 1	See Mounting Option J

1. Frame 1 drives require installation of the PowerFlex 400 AC Drive (Z2C-0000) Type 1, which is not an agency listing.

Drive Dimensions

PowerFlex 400 Frames

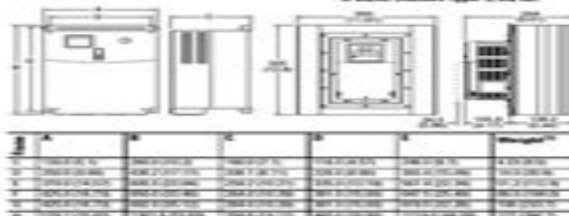
Output Power	Frame Size
0.5 to 1.5 kW	1
2 to 3 kW	2
4 to 7.5 kW	3
10 to 15 kW	4
20 to 30 kW	5
40 to 60 kW	6
75 to 110 kW	7
150 to 225 kW	8
300 to 450 kW	9
600 to 900 kW	10

PowerFlex 400 Frames C-H

Dimensions are in mm and (in.). Weights are in kg and (lb).

IP40/UL Type 1

Change Mount for Frame C (IP40/UL Type 1) to IP40/UL Type 1



1. Weights include IGBT and Diode Pack (IP40/UL Type 1).

Specifications, Fuses and Circuit Breakers

Frame	Output Rating	Input Rating	Breaker Protection	Fuse Rating
1	0.5 to 1.5 kW	1.5 to 2.0 kW	1.5 to 2.0 kW	1.5 to 2.0 kW
2	2 to 3 kW	3 to 4 kW	3 to 4 kW	3 to 4 kW
3	4 to 7.5 kW	7.5 to 10 kW	7.5 to 10 kW	7.5 to 10 kW
4	10 to 15 kW	15 to 20 kW	15 to 20 kW	15 to 20 kW
5	20 to 30 kW	30 to 40 kW	30 to 40 kW	30 to 40 kW
6	40 to 60 kW	60 to 80 kW	60 to 80 kW	60 to 80 kW
7	75 to 110 kW	110 to 150 kW	110 to 150 kW	110 to 150 kW
8	150 to 225 kW	225 to 300 kW	225 to 300 kW	225 to 300 kW
9	300 to 450 kW	450 to 600 kW	450 to 600 kW	450 to 600 kW
10	600 to 900 kW	900 to 1200 kW	900 to 1200 kW	900 to 1200 kW

- 1. Recommended fuses: Type 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100.
- 2. Recommended fuses: Type 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100.
- 3. Recommended fuses: Type 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100.
- 4. Recommended fuses: Type 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100.

5. Recommended fuses: Type 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100.

6. Recommended fuses: Type 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100.

7. Recommended fuses: Type 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100.

8. Recommended fuses: Type 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100.

9. Recommended fuses: Type 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100.

10. Recommended fuses: Type 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100.

11. Recommended fuses: Type 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100.

12. Recommended fuses: Type 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100.

13. Recommended fuses: Type 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100.

14. Recommended fuses: Type 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88,

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Technical Manual United States. War Department,1977 **Technical Manual** United States Department of the Army,1955 **Machinery** ,1956 **Machinery** Fred Herbert Colvin,Lester Gray French,1959 Railway Machinery ,1959 May 2022 - Surplus Record Machinery & Equipment Directory Surplus Record,2022-05-01 SURPLUS RECORD is the leading independent business directory of new and used capital equipment machine tools machinery and industrial equipment listing over 95 000 industrial assets including metalworking and fabricating machine tools chemical and process equipment cranes air compressors pumps motors circuit breakers generators transformers turbines and more Over 1 100 businesses list with the SURPLUS RECORD May 2022 issue Vol 99 No 5 *March 2022 - Surplus Record Machinery & Equipment Directory* Surplus Record,2022-03-01 SURPLUS RECORD is the leading independent business directory of new and used capital equipment machine tools machinery and industrial equipment listing over 95 000 industrial assets including metalworking and fabricating machine tools chemical and process equipment cranes air compressors pumps motors circuit breakers generators transformers turbines and more Over 1 100 businesses list with the SURPLUS RECORD March 2022 issue Vol 99 No 3 Yearbook and List of Active Members of the National Education Association National Education Association of the United States,1913 Today's Education National Education Association of the United States,1913 *N.E.A. Bulletin* National Education Association of the United States,1964 N.E.A. Bulletin ,1973 **Keystone Metal Quarry Catalog** ,1938 **What Determines Social Behavior? Investigating the Role of Emotions, Self-Centered Motives, and Social Norms** Corrado Corradi-Dell'Acqua,Leonie Koban,Susanne Leiberg,Patrik Vuilleumier,Ernst Fehr,2016-09-28 Human behavior and decision making is subject to social and motivational influences such as emotions norms and self other regarding preferences The identification of the neural and psychological mechanisms underlying these factors is a central issue in psychology behavioral economics and social neuroscience with important clinical social and even political implications However despite a continuously growing interest from the scientific community the processes underlying these factors as well as their ontogenetic and phylogenetic development have so far remained elusive In this Research Topic we collect articles that provide challenging insights and stimulate a fruitful controversy on the question of what determines social behavior Indeed over the last decades research has shown that introducing a social context to otherwise abstract tasks has diverse effects on social behavior On the one hand it may induce individuals to act irrationally for instance to refuse money but on the other hand it improves individuals reasoning in that formerly difficult abstract problems can be easily solved These lines of research led to distinct although not necessarily mutually exclusive models for socially driven behavioral changes For instance a popular theoretical framework interprets human behavior as a result of a conflict between cognition and emotion with the cognitive system promoting self interested choices and the emotional system triggered by the social context operating against them Other theories favor social norms and deontic heuristics in biasing

human reasoning and encouraging choices that are sometimes in conflict with one's interest Few studies attempted to disentangle between these as well as other models As a consequence although insightful results arise from specific domains tasks a comprehensive theoretical framework is still missing Furthermore studies employing neuroimaging techniques have begun to shed some light on the neural substrates involved in social behavior implicating consistently although not exclusively portions of the limbic system the insular and the prefrontal cortex In this context a challenge for present research lies not only in further mapping the brain structures implicated in social behavior or in describing in detail the functional interaction between these structures but in showing how the implicated networks relate to different theoretical models This is Research Topic hosted by members of the Swiss National Center of Competence in Research Affective Sciences Emotions in Individual Behaviour and Social Processes We collected contributions from the international community which extended the current knowledge about the psychological and neural structures underlying social behavior and decision making In particular we encouraged submissions from investigators arising from different domains psychology behavioral economics affective sciences etc implementing different techniques behavior electrophysiology neuroimaging brain stimulations on different populations neurotypical adults children brain damaged or psychiatric patients etc Animal studies are also included as the data reported are of high comparative value Finally we also welcomed submissions of meta-analytical articles mini reviews and perspective papers which offer provocative and insightful interpretations of the recent literature in the field

Field & Stream ,1971-02 FIELD STREAM America's largest outdoor sports magazine celebrates the outdoor experience with great stories compelling photography and sound advice while honoring the traditions hunters and fishermen have passed down for generations **Scientific and Technical Aerospace Reports** ,1990 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database *List of Active Corresponding Members of the National Educational Association of the United States* National Educational Association (U.S.),1913 The Publishers' Circular and General Record of British and Foreign Literature ,1888 **Publishers' circular and booksellers' record** ,1888

Fiftieth anniversary yearbook and list of active members of the National Educational Association National Education Association of the United States,1914 *Air Conditioning Heating & Refrigeration News* ,1971

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