

Drilled holes and screw connections for busbars

Rectangular cross section busbars

DIN
43 673
 Part 1

 Stromschienen-Bohrungen und -Verschraubungen; Stromschienen mit
 Rechteck-Querschnitt

Supersedes July 1971 edition

As it is current practice in standards published by the International Organization for Standardization (ISO), the comma has been used throughout as a decimal marker.

There are no relevant regional or international standards in existence which cover the field of application of this standard.

Dimensions in mm

1 Field of application and purpose

This standard applies to rectangular cross section busbars, which are specified in DIN 43 670 and DIN 43 671 in respect of constant current rating. This standard specifies the location and size of drilled holes in busbars and contains basic data concerning the design and construction of the screw connections.

If expansion joints in accordance with DIN 45 276 Part 1 to Part 3 are used, the drilled holes and screw connections should in this case also be designed and constructed in accordance with DIN 43 673 Part 1.

Screw connections for busbars which form part of type tested installations do not come under the field of application of this standard.

2 Dimensions, designation






Permissible deviations for spacings of hole centres: $\pm 0,3$ mm

2.1 Drilled holes for busbars

Designation of a shape 1 drilled hole pattern for busbars of nominal width $b = 12$ mm and drilled hole diameter $d = 5,5$ mm:

Drilled hole pattern DIN 43 673 — 1 — 12 — 5,5

Table 1.

Shape ¹⁾	12 to 50		25 to 60			60 to 120			120 to 160			160 to 200		
	1		2			3			4			5		
Drilled holes at the ends of the busbar (nominal hole pattern)														
Dimensions of drilled holes	Nominal hole diameter d	e_1	d	e_1	e_2	e_1	e_2	e_3	e_1	e_2	e_3	e_1	e_2	e_3
	12	5,5	6	—	—	—	—	—	—	—	—	—	—	—
	16	6,5	7,5	—	—	—	—	—	—	—	—	—	—	—
	20	8,0	10	—	—	—	—	—	—	—	—	—	—	—
	25	11	12,5	11	12,5	30	—	—	—	—	—	—	—	—
	30	11	15	11	15	30	—	—	—	—	—	—	—	—
	40	13,5	20	13,5	20	40	—	—	—	—	—	—	—	—
	50	13,5	25	13,5	20	40	—	—	—	—	—	—	—	—
	60	—	—	13,5	20	40	17	25	25	—	—	—	—	—
	80	—	—	—	—	—	—	—	30	40	40	—	—	—
	100	—	—	—	—	—	—	—	30	40	50	—	—	—
	120	—	—	—	—	—	—	—	30	40	60	—	—	—
	160	—	—	—	—	—	—	—	—	—	—	20	40	40
	200	—	—	—	—	—	—	—	—	—	—	20	40	50

1) The shape designations 1 to 4 and 5 are in accordance with DIN 45 206 Part 2 "Flat connections".

2) For busbar widths of 120 mm and over, one end of the busbar or the end of one stack of busbars shall be slotted.

Continued on pages 2 to 4

No guarantee can be given as to the validity of this standard in all cases for special circumstances or special applications.

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Translation
 from the German original
 by G. F. F. F. F. F.

Din 43673 1

Otto Guthmann



Din 43673 1:

Rečnik DIN normi ,1971 **Deutsche Nationalbibliographie und Bibliographie des im Ausland erschienenen deutschsprachigen Schrifttums** ,1966 *Deutsche Nationalbibliographie* ,1966 **Contact and Long-Term Behavior of Current-Carrying Connections in Electrical Power Engineering** Stephan Schlegel,Michael Gatzsche,Christian Hildmann,Toni Israel,2024-11-16 This book summarizes insights into stationary high current connections across all voltage levels These are applied in existing facilities and for new constructions in electrical power engineering e mobility and battery storage technology Current carrying stationary connections are indispensable in countless applications Complex systems often fail due to inadequate or heavily loaded connections A large number of these connections are assembled and must function reliably over their required lifespan To ensure this under current demands correct conductor and coating materials must be chosen robust design and construction ensured proper installation guaranteed and a secured temperature limit for the desired lifespan considering environmental conditions must be known The book covers theories on contact physics key conductor and coating materials factors influencing electrical contact behavior the relationship between mechanical and electrical contact behavior aging physics and long term behavior under various operating and environmental conditions along with design criteria for construction Additionally it presents approaches to numerically model electrical mechanical thermal behavior introduces evaluation criteria and outlines qualification testing methods It serves as a comprehensive reference based on scientific research and practical insights from the past 40 years Bibliographie der Deutschen Bibliothek Deutsche Bibliothek (Frankfurt am Main, Germany),1966 1948 accompanied by Erg nzungsheft 1 2 Neuerscheinungen ausserhalb des Buchhandels **Deutsche Bibliographie** ,1963 **Deutsche Elektrotechnik** ,1956 *World Translations Index* ,1995 Metallurgie und Giessereitechnik ,1953 Hochspannungs- und Niederspannungs-Schaltanlagen Botho Fleck,1952 **Elektrie** ,1989 Aluminium ,1964 DIN Begriffslexikon Deutscher Normenausschuss,Karl Quak,1961 **Draht** ,1954 **Switchgear Manual** Otto Guthmann,1978 **Die Praxis der anodischen Oxydation des Aluminiums** Walter Georg Willy Hübner,A. Schiltknecht,1961 *Biochemie für Mediziner* Markus Linnemann,Michael Kühl,2006-09-03 In der medizinischen Grundlagenforschung nimmt die Biochemie einen immer bedeutenderen Rang ein doch leider stellt das Fach nur allzu oft eine der gro en H rden vor dem Physikum dar Mit diesem Lehrbuch verhelfen die Autoren den Studenten der Medizin und der Zahnmedizin im vorklinischen Studienabschnitt ganz entscheidend zu einem Verst ndnis f r die Biochemie und Pathobiochemie Die Biochemie wird f cher bergreifend dargestellt wobei auf ausf hrliche klinische Bez ge Pathobiochemie Klinische Chemie besonderer Wert gelegt wird In der 7 Auflage wurden die Kapitel Aminos urestoffwechsel und Immunologie vollst ndig neu bearbeitet weitere 5 Abschnitte wurden ebenfalls aktualisiert Im gesamten Buch wurden klinische Bez ge wenn n tig neueren Entwicklungen angepasst sowie Abbildungen modernisiert Die folgenden 7 Kapitel bzw Abschnitte wurden ganz neu aufgenommen Intrazellul res

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Leptin Eine Fragensammlung wurde mit aufgenommen **Aluminum-Taschenbuch** Aluminium-Zentrale, 1963 *Siemens*
Zeitschrift, 1966 Elektrotechnische Zeitschrift, 1980

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