

Stromschienen aus Kupfer

Benennung für Dauerstrom

DIN
43 671

Copper bus bars design for continuous current

1 Allgemeines

Diese Norm dient zur Dauerstrombenennung von Stromschienen, die von Luft umgeben sind und nicht künstlich gekühlt werden.

Sie enthält:

Hinweise für die Temperaturen;

Tabellen der Dauerströme, die Stromschienentemperaturen von 65 °C verursachen, bei einer Temperatur der umgebenden Luft von 35 °C und unter den im Geltungsbereich sowie bei den einzelnen Tabellen genannten Betriebsbedingungen;

Umrechnungsfaktoren für Abweichungen von den Voraussetzungen der Tabellen.

Die physikalischen Randbedingungen für die Tabellen und Umrechnungsfaktoren sind gegenüber der technischen Praxis idealisiert, so daß in komplizierten Fällen, z. B. in Niederspannungs-Schaltanlagen großer Packungsdichte mit wesentlichem Wärmefluss in den Stromschienen und örtlich sehr unterschiedlichen Lufttemperaturen, mit den Angaben dieser Norm nicht unmittelbar auf die tatsächlichen Stromschienenbelastbarkeiten bzw. Stromschienentemperaturen geschlossen werden kann.

2 Geltungsbereich

2.1 Für Innenanlagen basieren die Tabellen auf den Annahmen:

Umgebende Luft unbewegt;

Blanke Stromschienen teilweise oxidiert, so daß der Emissionsgrad 0,4 ist ¹⁾);

oder

Stromschienen gestrichen — bei Schienenpaketen nur die Außenflächen — so daß der Emissionsgrad etwa 0,9 ist.

¹⁾ Diese Annahme besteht sich auf einen Zustand, der sich im Betrieb durch natürliche Alterung — abhängig von den Umgebungsbedingungen — mehr oder weniger schnell einstellt.

Für Innenanlagen gelten daher die Tabellen

für offene Anlagen in ruhiger Luft mit dem 1 bis 1,1fachen der Tabellenwerte, da hier erfahrungsgemäß oft geringe stromschienenfeindliche Luftbewegungen auftreten;

für gekapselte Anlagen ohne eingebaute Ventilatoren etwa mit dem 0,8 bis 1,1fachen der Tabellenwerte je nach Strömungs- und Strahlungseinfluß der unmittelbaren Stromschienen-Umgebung.

2.2 Für Freiluft basieren die Tabellen auf den Annahmen: Leichte Luftbewegung, z. B. infolge Bodenthermik, von 0,6 m/s;

Blanke Stromschienen normal oxidiert, so daß der Emissionsgrad 0,6 ist und die Sonneneinstrahlung 0,45 kW/m² betragen kann ¹⁾);

oder

Stromschienen gestrichen, so daß der Emissionsgrad etwa 0,9 ist und die Sonneneinstrahlung 0,7 kW/m² betragen kann.

Für Freiluft erlassen die Tabellen deshalb mitteleuropäische Verhältnisse.

3 Hinweise für die Temperaturen

3.1 Lufttemperatur

Bei offenen Anlagen gilt als Temperatur der die Schienen umgebenden Luft die in den einschlägigen VDE-Bestimmungen festgelegte Umgebungstemperatur von maximal 35 °C als Mittelwert über 24 Stunden. Kurzzeitig darf die Temperatur 40 °C erreichen.

In gekapselten Anlagen gilt als Temperatur der die Schienen umgebenden Luft die Temperatur im Inneren der Kapselung.

3.2 Stromschienenenerwärmung und Stromschienentemperatur

3.2.1 Anschlußschienen von Betriebsmitteln

Unabhängig von der jeweils zulässigen Einbauart und den dafür genannten Dauerströmen sind Betriebsmittel vielfach so bemessen, daß sie mit Stromschienen angeschlossen werden müssen, die beim Nennstrom des Gerätes und ungekapselten Einbau höchstens 30 °C Eigenwärmerhöhung aufweisen.

Fortsetzung Seite 2 bis 8
Erläuterungen Seite 9

Deutsche Elektrotechnische Kommission - Fachnormenausschuß Elektrotechnik im DIN gemeinsam mit Vorschriftenausschuß des VDE

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