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Technical Brochures

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Power cable rating examples for calculation tool verification

It is important that the current rating calculations of power cables are reliable and trustworthy. However, setting-up a current rating calculation according to the IEC 60287 standards is difficult and requires making decisions regarding the selection of the equations to use and the parameters to adopt, often in the absence of guidance provided by the standards. This often leads to different calculation results for similar cable installations depending on the engineer and the tool used to make the calculation, even in straightforward situations. CIGRE WG B1.56 has now developed both guidance on how to deliver consistent calculation results and has developed a procedure with which any calculation spreadsheet, tool, own or commercial software can be verified as recommended by CIGRE TB 640. The verification procedure comprises 11 case studies ranging between MV and EHV and comprising DC, XLPE, SCFF and pipe type cables for both land and submarine installations, against which the calculation tool can be verified in full detail. The key benefit which is provided is that with such a verification in place, current rating calculations for power cables become demonstrably reliable, trustworthy and consistent.

More Informations :

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