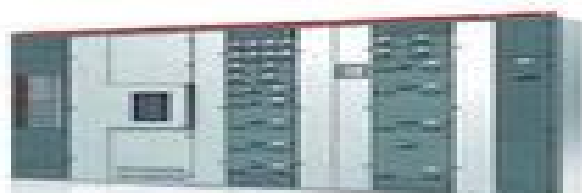


ABB

[QUADROS ELÉCTRICOS ABB E A NOVA NORMA IEC 61439]



ABB

IEC 61439
MNS & MNS /S - Already there

A ABB sendo uma das mais importantes companhias de engenharia do mundo, ajudamos os nossos clientes a utilizar eficientemente a energia eléctrica, a aumentar a produtividade industrial e a reduzir o impacto ambiental de forma sustentável, no respeito pela legislação local e normas internacionais.

Neste sentido, a nova referência normativa IEC 61439, substitui e anula a IEC 60439 de 2004. Desta forma:

- é abandonado o duplo papel da IEC 61439-1, tanto como produto padrão como produto completo de registo geral, abrangido pelas partes adicionais da IEC 60439;
- por conseguinte, a IEC 61439 é a única norma de "registo geral", a qual deverá reportar as partes subsidiárias dos produtos da IEC 61439;
- a diferenciação entre os Quadros de Série 3000 e os Quadros Derivados de Série 3000 é eliminada através da abordagem por verificação;
- são introduzidas três tipos diferentes, porém equivalentes, de verificação das exigências: através de ensaio, por cálculo/método ou por satisfação das regras de concepção;
- as exigências que dizem respeito aos equipamentos foram simplificadas;
- o factor de diversidade abstruído é abordado em maior detalhe;
- foram incorporados os requisitos para instalações vazias para montagem (C00 40208);
- toda a sua estrutura está alinhada com a nova função de norma de registo geral.

Evolução e estrutura normativa da IEC 61439

A nova referência norm. - substituição - CONJUNTOS ABB

IEC 60439-1	IEC 61439-1
IEC 60439-1	IEC 61439-1 Registo geral
IEC 60439-2	IEC 61439-2 Cálculo de capacidade de condução de corrente
IEC 60439-3	IEC 61439-3 Cálculo de capacidade de aquecimento
IEC 60439-4	IEC 61439-4 Cálculo de capacidade de aquecimento
IEC 60439-5	IEC 61439-5 Cálculo de capacidade de aquecimento
IEC 60439-6	IEC 61439-6 Cálculo de capacidade de aquecimento
IEC 60439-7	IEC 61439-7 Cálculo de capacidade de aquecimento

De acordo com a legislação em vigor, o quadro eléctrico é constituído por um conjunto de equipamentos, convenientemente agrupados, incluindo as suas ligações, estruturas de suporte e isolamento, destinado a proteger, a comandar ou a controlar instalações eléctricas.

IEC 61439-1:2009, Parte 1: Registo geral

Nesta nova referência técnica técnica é usado também o termo "conjunto de equipamentos" para se referir ao conjunto de equipamentos que se encontra no "armário", por ser este o termo usado na Norma anterior e outros equipamentos (C00 40208).

O objectivo da norma IEC 61439 é harmonizar na prática, tanto quanto possível, todas as regras e requisitos de carácter geral aplicáveis a conjuntos de equipamentos de baixa tensão (CONJUNTOS), de forma a obter uma uniformização dos requisitos de verificação dos CONJUNTOS e, assim, evitar qualquer verificação segundo outros métodos.

Desta forma, as exigências das diferentes normas aplicáveis a CONJUNTOS, que podem ser consideradas como gerais, foram compiladas na presente norma de referência, em harmonia com aspectos específicos de interesse da aplicação abrangida, como, por exemplo, equipamentos, equipamentos de baixa tensão, entre outros.

Para cada tipo de conjunto de equipamentos de baixa tensão são necessárias também duas normas principais para determinar todos os requisitos e testes os métodos de verificação correspondentes.

A actual norma de referência é designada sob a denominação "Parte 1" das normas especificações que incluem os diferentes tipos de conjuntos de equipamentos de baixa tensão.

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Michael Hoelscher

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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