

Global Motor Systems Network



EMSA Newsflash - Zurich September 2021 - www.iea-4e.org/emsa

Dear Nathalie,

Welcome to the latest Newsflash of the 4E Electric Motor Systems Annex ([EMSA](#)).

Events

International Motors Workshop on 16 September (Webinar)

The European Copper Institute hosts its 10th International Motors workshop, covering policy and technology aspects. The event will take place as a webinar.



Programme:

- **Product sustainability - tomorrow's market and regulatory requirements**
Jesper Jerlang - Danfoss
- **Efficient motor systems for a Net Zero world**
Conrad U. Brunner - Impact Energy
- **Key findings of the US comprehensive motor study**
Anibal de Almeida - University of Coimbra
- **Motor renovation - Potential savings and views from various EU Member States**
Tomas Jezdinsky - European Copper Institute
- **Sustainable mobility using optimised steels**
Sigrid Jacobs - ArcelorMittal
- **Modelling and optimisation of electric motors with hairpin windings**
Shaoshen Xue - Motor Design Limited
- **Direct coil cooling through hollow wire**
Manuel Hartong - Dynamic E flow
- **Casting zero porosity rotors**
Péter Szilágyi - Breuckmann eMobility

[Register](#) today to secure your participation!

Webinar on coordination and alignment of energy efficiency standards for pumps, fans, compressors



A new IEC Academy webinar is upcoming which will present the coordination and alignment of energy efficiency standards for improving and optimising the energy consumption of electric driven machine units – e.g. pump, fan, compressor and describing joint efforts into defining calculation and measurement of energy losses in electro-mechanical systems.

Programme:

- **Introduction**
Philippe Vollet, IEC ACEE Chair
- **CAISEMS (Coordination and Alignment of IEC & ISO Standards for Energy Efficient Electric Motor Driven Systems) and JAG (Joint Advisory Group)**
Maarten van Werkhoven, IEC ACEE TG6 convenor
- **Coordination Example TC2 & TC117**
Conrad U. Brunner, IEC ACEE TG6, ISO TC117

Date : **22 November 2021**

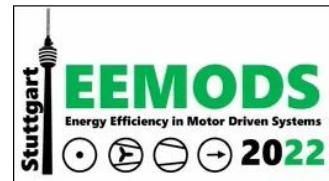
Time: **12 pm (CET)**

[Registration](#)

EEMODS 2021: moved to 3 – 5 May 2022

The 12th edition of the „International Conference on Energy Efficiency in Motor Driven Systems“ is postponed to 3 - 5 May 2022. The conference will be held in Stuttgart, Germany.

More information: [eemods22](#)



News

More stringent minimum requirements for induction motors and variable speed drives in the EU in effect since 1 July 2021

Since 1 July 2021, the following minimum energy efficiency requirements apply in the European Union:

- IE2 (or better) for three-phase electric motors with nominal power of 0.12 kW up to 0.75 kW
- IE3 (or better) for three-phase electric motors with nominal power of 0.75 kW up to 1 000 kW
- IE2 for variable frequency drives with 3 phases input, rated for operation with motors with nominal output power of 0.12 up to 1 000 kW



For more information, see [Commission Regulation \(EU\) 2019/1781](#) and [Commission Regulation \(EU\) 2021/341](#).

For a summary, see [EMSA news](#)

Joint ISO & IEC Advisory Group for Electric Driven Machine Units established

The project Coordination and Alignment of IEC & ISO Standards for Energy Efficient Electric Motor Driven Systems reached its goal: a Joint Advisory Group (JAG) between ISO & IEC was established.

The **JAG 22: Optimized Energy and Power Consumption of Electric Driven Machine Units [e.g. pump, fan, compressor]** has the following objectives:

- Facilitate the exchange and coordination between ISO and IEC in the field of all types of Electric Driven Machine Units



- Identify the relevant coordination issues and proposed solutions and describe these considerations or results of such exchange and coordination discussions for guidance, reference.

The JAG is a joint IEC and ISO advisory group involving IEC SC 22G (PDS, secretariat), IEC TC 2 (motors) and ISO TC 117 (fans). ISO TC 115 (pumps) and ISO TC 118 (compressors) are invited to participate, as well as any other interested ISO and IEC committee.

For more information, contact: Maarten van Werkhoven mvanwerkhoven@tpabv.nl

[CAISEM project brief](#)

Publications

New version of the Motor Systems Tool includes loss models for motors, drives & transmissions

A new version of the Motor Systems Tool is now available online. The new features include:

- Stronger, robust run-time
- AMCA loss models for motors, drives & transmissions (ANSI/AMCA 207-17)
- Slip calculator
- Dynamic duty points
- Dynamic language selection



Download the tool [here](#).

Best regards,

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EMSA is the Electric Motor Systems Annex of the International Energy Agency's Technology Collaboration Programme on Energy Efficient End-use Equipment 4E. Currently Australia, Austria, Denmark, European Commission, Netherlands, New Zealand, Sweden, USA and Switzerland participate actively in EMSA. Canada, China, France, Japan, Korea, and the United Kingdom participate in other 4E Annexes.

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