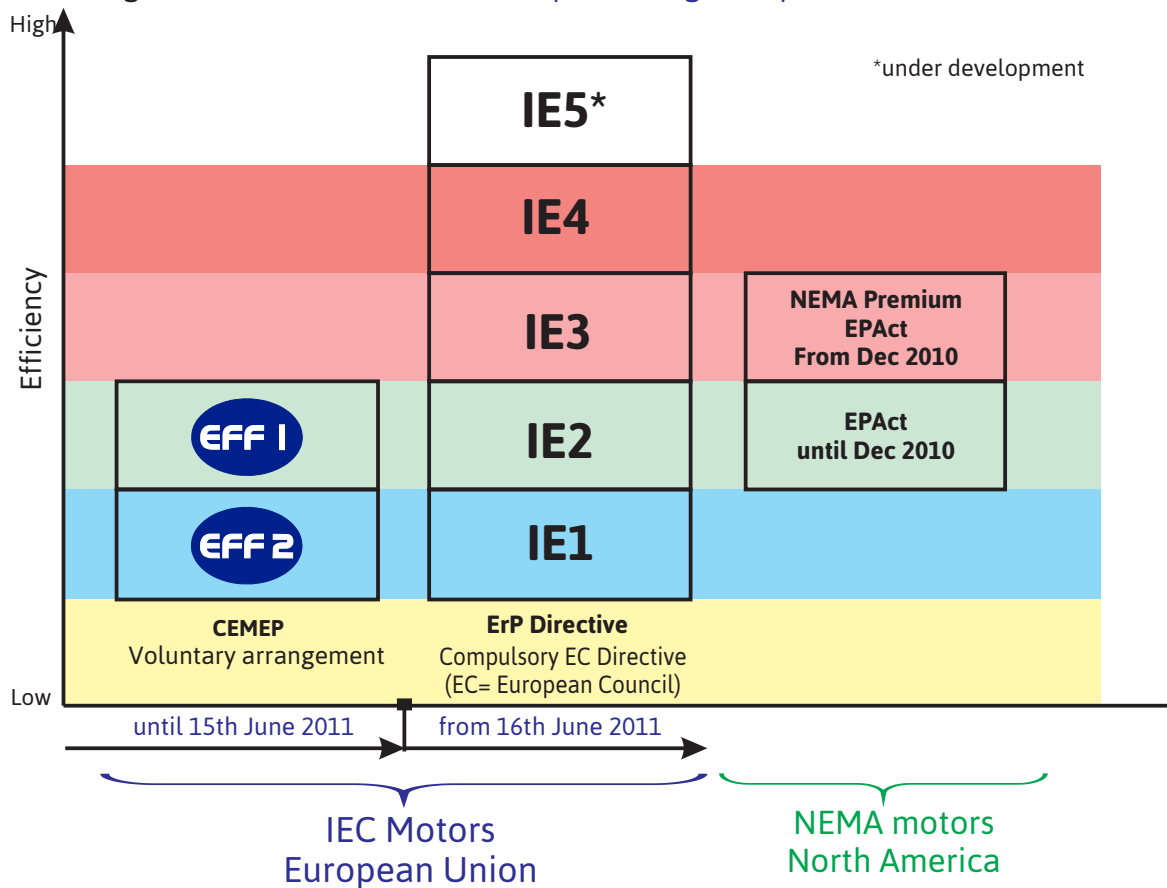




Motor technologies and their energy efficiency potential (Defined in IEC 60034-30-1)		IE1	IE2	IE3	IE4	IE5
Three-phase cage-rotor induction motors (ASM)	Random wound motors (all enclosures) (all ratings)	Yes	Yes	Yes	Difficult	No
	Form wound motors IP2x (open motors)	Yes	Yes	Difficult	No	No
	Form wound motors IP4x and above (closed motors)	Yes	Yes	Yes	Difficult	No
Three-phase wound-rotor induction motors		Yes	Yes	Yes	Difficult	No
Single-phase induction motors	Start capacitor	Difficult	No	No	No	No
	Run capacitor	Yes	Difficult	No	No	No
	Start/run capacitor	Yes	Difficult	No	No	No
	Split-phase	Difficult	No	No	No	No
Synchronous PM motors Line-start		Yes	Yes	Yes	Difficult	No

A new standard IEC 60034-30-1 was published in March 2014. This standard replaces the old IEC 60034-30. The new standard defines the Efficiency Classes IE1, IE2, IE3 & IE4 as well as widens the scope in terms of the motor technologies which are now included, the power range and pole sizes.



The CEMEP voluntary arrangement was replaced by EuP or as it has been re-named ErP Directive effective from 16th June 2011. The ErP Directive is now law in the European Union.

(ErP - Energy related Products)