



ErP Directive 2005/32/EC is setting requirements for ecodesign of **E**nergy **r**elated **P**roducts. The Implementation Dates for Efficiency Classes related to Electric Motors are defined by **EU Regulation 640/2009**.

From 01 January 2017			
Use of motors:	IE1	IE2	IE3
Motors for DOL	under 0.75kW & over 375kW		from 0.75kW to 375kW
Motors for VSD	under 0.75kW & over 375kW	from 0.75kW to 375kW	not stipulated

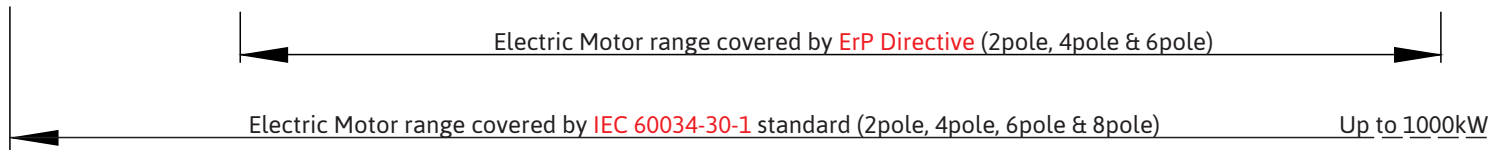
DOL - Direct on Line, VSD - Variable Speed Drive

THE ABOVE REQUIREMENTS SHOWN IN CONTEXT OF STANDARD MOTOR POWER OUTPUTS:

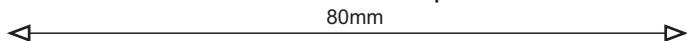
Efficiency classes: IE1 IE2 IE3

From 01 January 2017

DOL	0.12	0.18	0.25	0.37	0.55	0.75	1.1	1.5	2.2	3	4	5.5	7.5	11	15	18.5	22	30	37	45	55	75	90	110	132	160	200	250	315	350	375	400
VSD	0.12	0.18	0.25	0.37	0.55	0.75	1.1	1.5	2.2	3	4	5.5	7.5	11	15	18.5	22	30	37	45	55	75	90	110	132	160	200	250	315	350	375	400



IE2 Motors suitable for Inverter operation should be equipped with the following label:



Please note that the above information has been simplified. Both the IEC 60034-30-1 standard and the ErP Directive are valid for Low Voltage motors (not Medium or High Voltage motors).

There are a number of exclusions in the standard and/or the ErP Directive such as:

Single-phase motors, ATEX motors, brake motors, submersible motors, water cooled motors, motors used in means of transport (marine ship motors), low temperature motors (below -30°C), high temperature motors (above +60°C), short term duty motors (S2 Duty Cycle), intermittent duty motors (S3, S6 Duty Cycles), motors integrated into products (that cannot be dismantled and tested separately), etc.