

Country Fact Sheet Motors



Switzerland



Regional Characteristics

Voltage
3 ~ 400V ± 10%
1 ~ 230V ± 10%

Frequency
50 Hz

Approval Mark CE Conformity

Standard
EN IEC 60034

Regulation
Low Voltage Directive 2014/35/EU
ErP Directive 2009/125/EG
RoHS Directive 2011/65/EU

Scope
All machines and electronic devices which are affected by any EU Directive.

Marking

Energy Efficiency Ecodesign Directive

Regional Standard
Directive 2009/125/EC

Regulation
EnV 730.01 and 734.26 (NEV)

Mandatory Efficiency Class
IE3 (or IE2 – motors for use with VSD)

Scope

- Rated output power from 0.75 up to 375 kW
- Rated voltage from 50 up to 1000 V
- Rated frequency 50 and 60 Hz
- 2-, 4- and 6-pole
- For continuous duty operation

Exemptions

- Motors other than S1, S3 (duty factor > 80%) or S6 (duty factor > 80%)
- Exclusively suitable for inverter operation
- Ex-motors
- Brake Motors (The brake is inside the motor housing)
- Motors for heavy environmental conditions like ambient temperature above +60°C or below -30°C, installation altitude above 4000m
- Pole-changeable motors
- With Integral fans and blower motors
- Motors that share common components with the driven unit and cannot operate as a motor if separated from it
- Motors specifically designed and specified to operate wholly immersed in a liquid

Marking

- IE-Class
- Nominal efficiency (η) at 50%, 75% and 100 % load
- If applicable "Use with VSD only" (->IE2)