



Country Fact Sheet Motors

USA



Regional Characteristics


Voltage 3 ~ 460V ± 10%
3 ~ 208V ± 10%

Frequency 60 Hz

Approval Mark UL recognized or UL listed

Standard UL 1004

Scope Not mandatory but strict market requirement due to insurance and employer safety reasons. Proofs the accordance with UL standards and verifies product testing regarding safety aspects like flammability.

Marking  (for components) or  (for devices)

Energy Efficiency UL energy verified

Regional Standard UL 1004

Regulation DOE 10 CFR Part 431

Mandatory Efficiency Class Premium (equates to IE3)

Scope

- Rated output power from 1HP (0.75 kW) up to 500 HP (375 kW)
- Rated voltage up to 600 V
- Rated frequency 50 and 60 Hz
- 2-, 4-, 6- and 8-pole
- For continuous duty operation

Exemptions

- Motors other than S1, S3 (duty factor $\geq 80\%$), S6 (cont. duty with intermittent loads), S9 (cont. duty with non-periodic load and speed variations)
- Exclusively suitable for inverter operation
- Motors for heavy environmental conditions like ambient temperature above +60°C or below -30°C, installation altitude above 4000m
- Pole-changeable motors

Marking

- IE3 Energy Efficiency Level
- CC-number of US Department of Energy