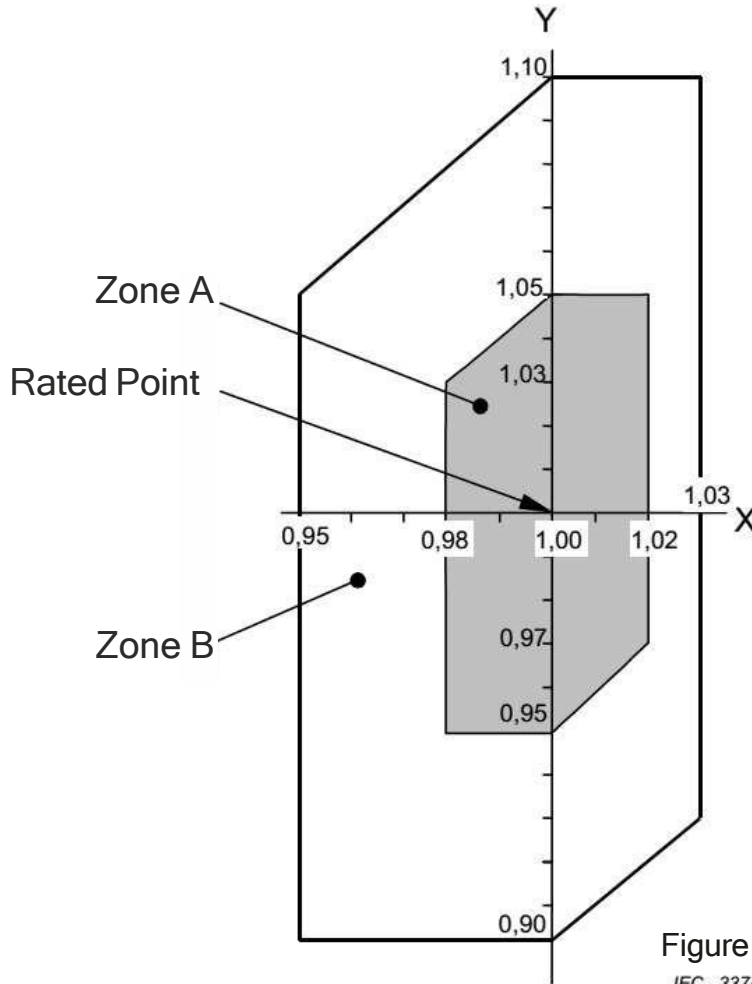


Voltage and Frequency limits for motors are shown on Figure 12:

Y - Voltage  
X - Frequency



**Voltage and frequency variations during operation** (paragraph 7.3 of the IEC 60034-1 standard)

### Zone A

Electric motors must be capable of performing continuously within Zone A but do not need to comply fully with the performance at rated Voltage & Frequency. The motors may exhibit some deviations. Temperature rises may be higher than at the rated Voltage & Frequency.

### Zone B

Electric motors must be capable of performing continuously within Zone A but do not need to comply fully with the performance at rated Voltage & Frequency. The motors may exhibit greater deviations. Temperature rises may be higher than those in Zone A. Extended operations at the limits of Zone B may shorten the life of the motor.