

Ny utgave 2010

Vg2 elektro

Teori med  
praktiske  
øvinger

Kunnskaps-  
løftet

Svein Johnsen

# Elektriske anlegg

## Vg2 elenergi

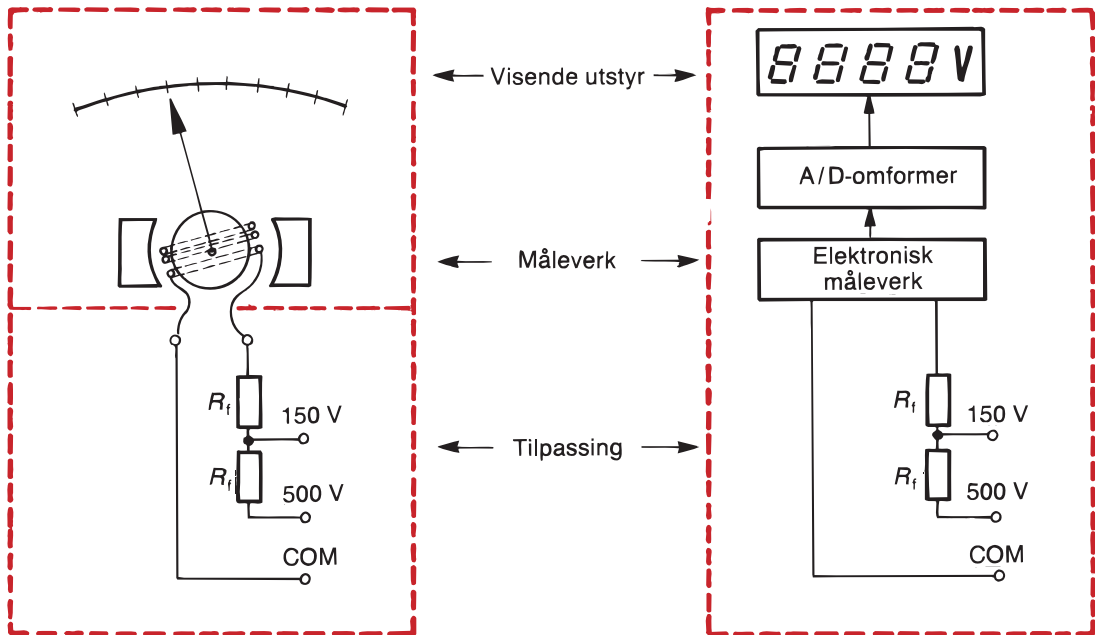
*ELFORLAGET*

# Illustrasjoner til Elektriske anlegg Vg2 elenergi

## Kapittel 6

Illustrasjonene kan brukes fritt i undervisningen

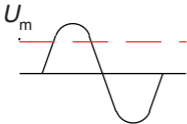
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Figur 6.1 Elektroteknisk måleinstrument



*Figur 6.2*

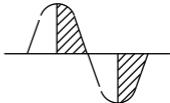


$$U = \frac{U_m}{\sqrt{2}} = 0,7 \cdot U_m$$

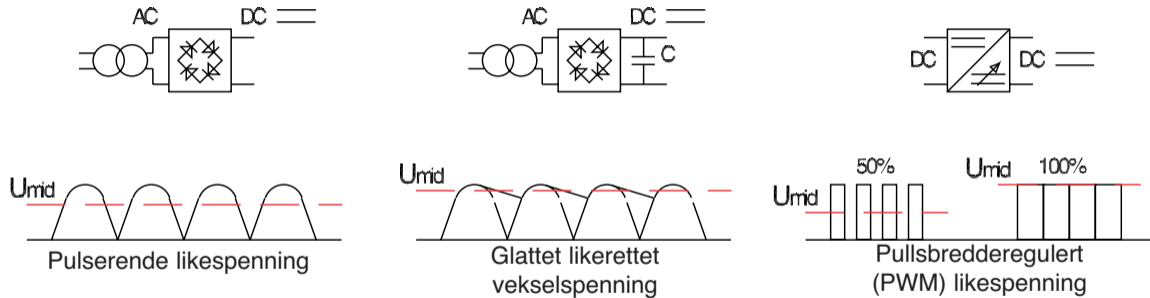
*Figur 6.3 Sinusformet vekselspanning*



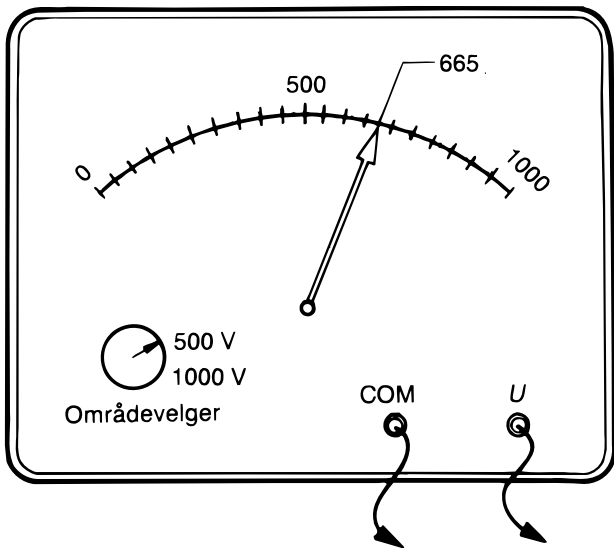
Spenningsstyring



*Figur 6.4 Ikke sinusformet vekselspenning*



Figur 6.5



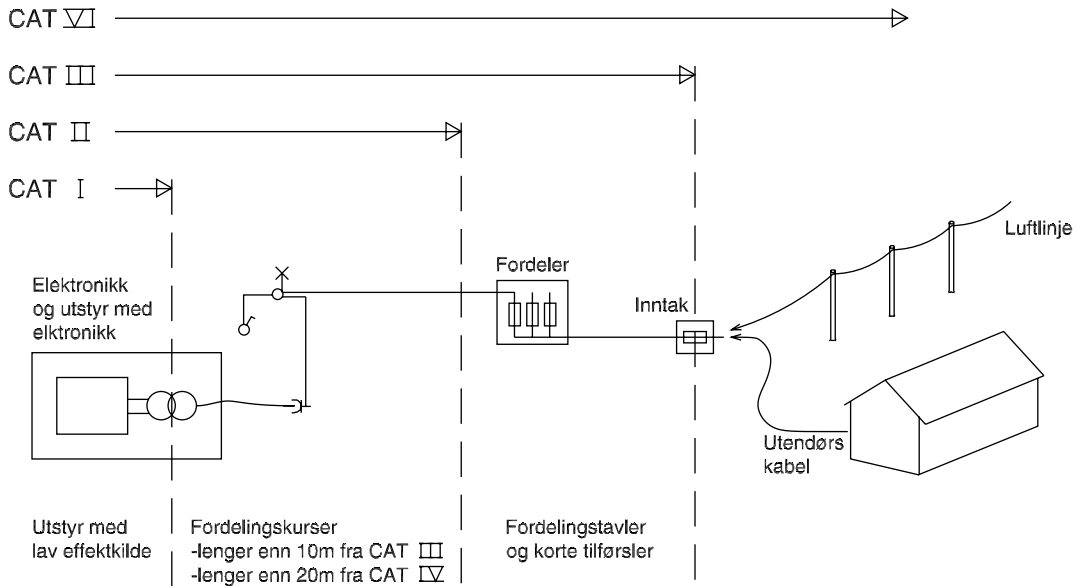
$$\text{Avlest verdi} = \frac{\text{Måleområde} \cdot \text{utslag}}{\text{Skalaområde}} = \frac{500 \text{ V} \cdot 665}{1000} = 332,5 \text{ V}$$

Figur 6.6

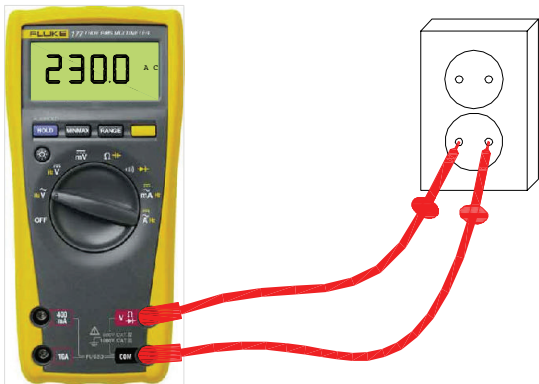




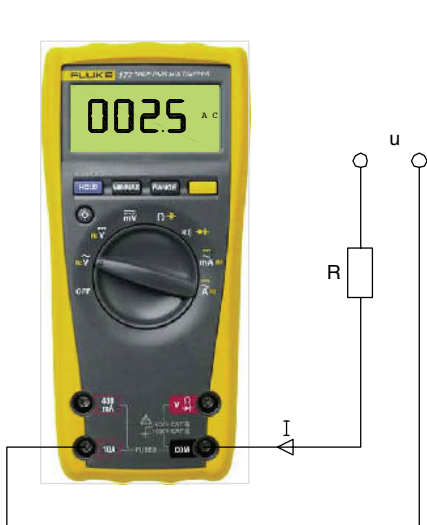
Figur 6.7



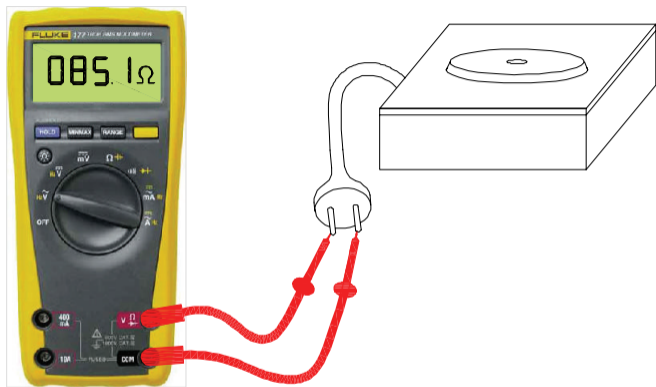
Figur 6.8



*Figur 6.9 Spenningsmåling i område CAT II*



Figur 6.10

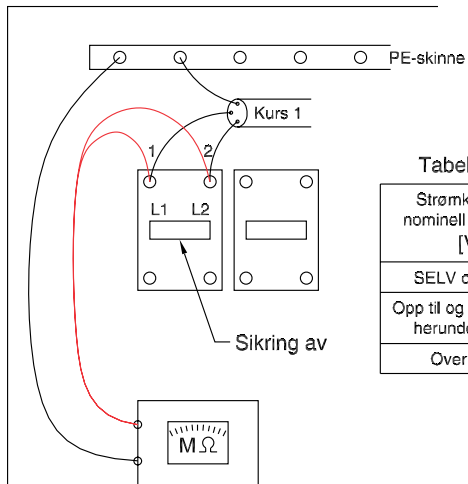


Figur 6.11



*Figur 6.12 Isolasjonstester*

## Sikringskap



Tabell 6A Minimumsverdier for isolasjonsresistans

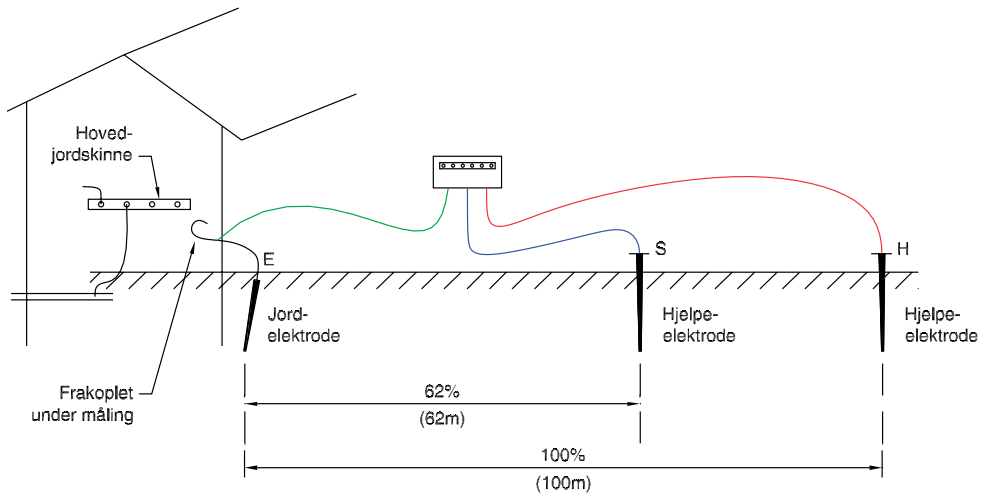
Strømkretsens nominell spenning [V]	Prøvespenning DC [V]	Isolasjonsresistans [MΩ]
SELV og PELV	250	≥ 0,5
Opp til og med 500V, herunder FELV	500	≥ 1,0
Over 500V	1000	≥ 1,0

Figur 6.13

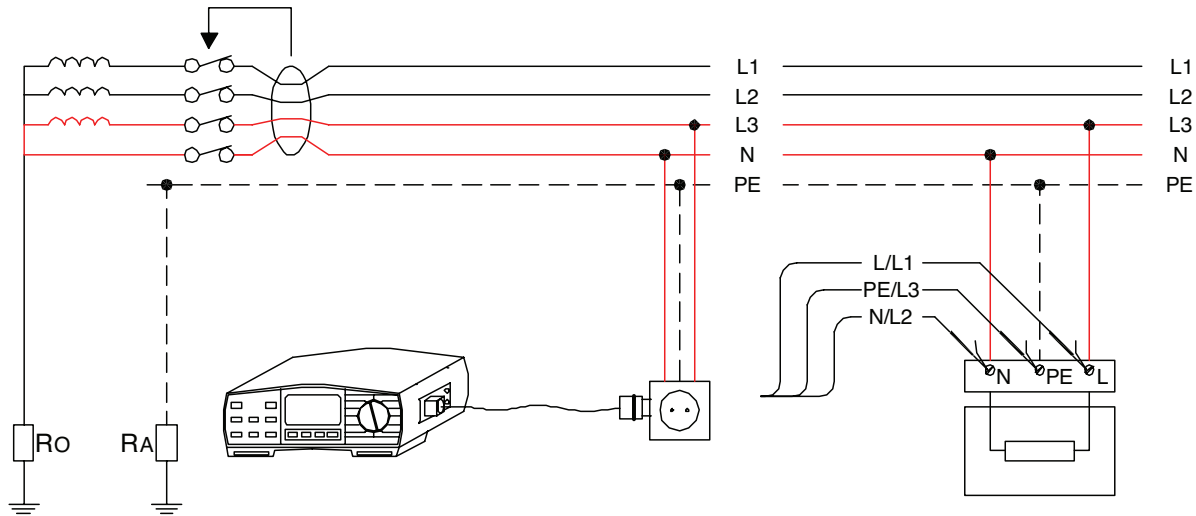


Figur 6.14





Figur 6.15



Figur 6.16