$$V_{dc} := 15 \text{V}$$
:

$$V_{simac} := \frac{V_{dc}}{1.654} \cdot \sqrt{3.} = 15.70783683 \text{ V}$$

$$V_{ac} := \frac{V_{dc}}{1.654} = 9.068923821 \text{ V}$$

stjerne til delta transformer

$$N_1 := 1 : N_2 := 8 :$$

$$V_2 := V_{ac} \cdot \sqrt{3.} = 15.70783683 \text{ V}$$

$$\frac{V_2}{V_1} = \frac{N_2}{N_1}$$

$$V_1 := \frac{V_2}{\frac{N_2}{N_1}} = 1.963479604 \text{ V}$$

$$n = \frac{V_{ac}}{V_1} = k = 4.618802152$$

$$rpm_{no_load} := V_1 \cdot 924. \frac{rpm}{V} = 1814.255154 rpm$$

rpm test 12v dc

$$rpm_{dc} := \frac{632 \cdot 60}{\frac{14}{2}} \text{ rpm} = 5417.142859 \text{ rpm}$$

$$rpm_{ac} := rpm_{dc}$$
:

$$\frac{rpm_{ac}}{924.\frac{rpm}{V}} = 5.862708721 \text{ V}$$

$$V_{\rm ff} := 5.99 \,\mathrm{V}$$
:

$$V_{ff} := 5.99 \text{V}:$$

 $V_{ll} := 12.0 \text{V}:$

$$kv := \frac{rpm_{dc}}{V_{ff}} = \frac{904.3644172}{V} \text{ rpm}$$