

Technical specifications

Maximum rated output power P_n at different rated input voltages (degree of protection IP00)

With this version of the 4A... 2-8HA20-2XA0 autotransformers, higher ratings than the quoted ratings can be found in the following table depending on the input voltage.

Transformers Type	Output power P_n at input voltage				
	480 V kVA	460 V kVA	440 V kVA	415 V kVA	380 V kVA
4AP21 42-8HA20-2XA0	5	5.8	6.3	6.8	6.8
4AP25 52-8HA20-2XA0	9.1	10.5	11.4	12.3	12.3
4AP27 42-8HA20-2XA0	12.5	14.4	15.6	16.9	15.8
4AP27 52-8HA20-2XA0	16	18.4	20	21.6	20.3
4AP30 52-8HA20-2XA0	22.5	25.9	28.1	30.4	30.4
4AU30 32-8HA20-2XA0	31.5	36.2	39.4	42.5	42.5
4AU36 32-8HA20-2XA0	50	57.5	62.5	59.5	54.5

Primary-side short-circuit and overload protection with motor starter protectors

The otherwise customary consideration of the inrush current plays a subordinate role for an autotransformer. For this reason, it is possible to proceed as follows when selecting the motor starter protectors:

$$I_{1N} = \frac{P_{n \text{ load}}}{U_{1N} \times \sqrt{3}}$$

The motor starter protector resulting for this PRI current I_{1N} can be selected.

Example:

Type 4AP27

Connection PRI $U_{1N} = 480 \text{ V}$

$$I_{1N} = \frac{15000 \text{ VA}}{480 \text{ V} \times \sqrt{3}} \times 1.1 = 19.9 \text{ A}$$

Motor starter protector:

3RV10 21-4CA10

Set value 20 A

For other motor starter protectors see Catalog LV 1, chapter 5 "Protection Equipment".