

POWER EQUIPMENT

COSAL

Transformer Module



Overview

The transformer modules serve to supply the series circuits. Each module comprises the following units:

- Power supply transformer
- Current transformer for actual-value acquisition
- Surge arrester
- Connection module for insulation value monitoring (optional)
- Terminals

Besides the 9 transformer sizes standardized in IEC 61822, additional customized transformer modules are available, with ratings from 0.6 to 35 kVA. The gradations in the power units have been specified so as to enable the module to be optimally matched to any series-circuit power by appropriate selection of the winding tap. Up to a rating of 10 kVA, the module frames slide on angled steel profiles, and after insertion are fixed in position using screws. In the case of higher ratings, the transformer modules are permanently integrated.

Technical Data for all Modules

Connection symbol	li0
Degree of protection:	IP 00
Insulation Class	T40/F
Rated voltage tolerance	+10 % / -15 %
Ambient temperature	-10° C to +55 °C
Humidity (non-condensing):	< 95 %

Available Options

- High-voltage relay for insulation measurement
- Surge arrester

Technical Data

Rating / kVA	1	2.5	5	7.5	10
Primary voltage / V at 50 Hz	196	196	196	196	196
Test voltage kv	2.5/4	2.5/4	2.5/4	2.5/6	2.5/6
Type of cooling	S	S	S	S	S
As per VDE	0.89	0.92	0.94	0.96	0.96
Weight / kg	25	42	66	82	104
Overall height / mm	350	350	350	350	500

Rating / kVA	2.5	5	7.5	10	15	20	25	30
Primary voltage / V at 50 Hz	340	340	340	340	340	340	340	340
Test voltage kv	2.5/4	2.5/4	2.5/6	2.5/6	2.5/8	2.5/10	2.5/10	2.5/12
Type of cooling	S	S	S	S	AN	AN	AN	AN
As per VDE	0.93	0.95	0.96	0.96	0.97	0.97	0.97	0.98
Weight / kg	42	66	82	104	123	176	215	205
Overall height / mm	350	350	350	500	750	875	875	875

Ordering Numbers

Rating / kVA	Primary Voltage / at 50 Hz	Option	Type	Ordering Numbers
1	196		TRA 015	P629
1	196	with high-voltage relay	TRA 016	P378
2.5	196		TRA 025	P630
2.5	196	with high-voltage relay	TRA 026	P625
2.5	340	with high-voltage relay and contact protection	TRA 001	P1074
5	196		TRA 055	P631
5	196	with high-voltage relay	TRA 056	P626
5	340	with high-voltage relay and contact protection	TRA 002	P1075
7.5	196		TRA 071	P632
7.5	196	with high-voltage relay	TRA 072	P627
7.5	340	with high-voltage relay and contact protection	TRA 003	P1076
10	196		TRA 108	P633
10	196	with high-voltage relay	TRA 109	P628
10	340	with high-voltage relay	TRA 007	P683
10	340	with high-voltage relay and contact protection	TRA 009	P1077
15	340		TRA 153	P737
15	340	with high-voltage relay	TRA 154	P738
20	340		TRA 201	P639
20	340	with high-voltage relay	TRA 202	P638
25	340		TRA 251	P640
25	340	with high-voltage relay	TRA 252	P641
30	340		TRA 301	P644
30	340	with high-voltage relay	TRA 302	P645