

Single-Phase Transformers

4BT Power Transformers

4BT transformers with selectable voltages

Overview

- 4BT transformers configured as matching, auto-¹⁾ or converter transformers according to DIN VDE 0532-6 with selectable input and output voltages in the power range from 18 kVA to 250 kVA from 100 V to 1000 V and additional options
- , ²⁾
- $t_a = 55\text{ °C/H}$
- Standard vector group: Ii0, for autotransformer: Ia0

¹⁾ For autotransformers = type rating.

²⁾  approvals for voltages $\leq 600\text{ V}$ (incl. tappings) and degree of protection IP00.



4BT

Selection and ordering data

, ¹⁾

PU (UNIT, SET, M) = 1

PS = 1 unit (You can order this quantity or a multiple thereof.)

PG = 104

Rated power ²⁾ P_n with degree of protection		Selectable rated voltages U_{1N}, U_{2N}	DT	Order No. stem	Basic price per PU	Additional price for standard options					Cu weight per PU approx. kg	Trans- former weight per PU approx. kg	Total weight incl. enclo- sure per PU approx. kg
IP00, IP20, IP23 ³⁾	IP23					Two tappings in the range $\pm 5\%$ of the rated input or output voltage for constant power	One tapping on the input or output side for falling power	One additional separate winding on the input or output side	Shield winding (connection routed to terminal). Not possible for autotransformers	Installation in protective enclosures IP20, IP23			
kVA	kVA												
18	16	100 ... 1000 V, with  $\leq 600\text{ V}$ (including tappings)	D	4BT45 0	x	x	x	x	x	18.500	85.000	105.000	
20	18		D	4BT47 0	x	x	x	x	x	16.000	104.000	124.000	
22.5	20		D	4BT47 1	x	x	x	x	x	20.500	106.000	126.000	
25	22.5		D	4BT47 2	x	x	x	x	x	26.500	112.000	132.000	
28	25		D	4BT51 0	x	x	x	x	x	25.000	109.000	166.000	
31.5	28		D	4BT52 0	x	x	x	x	x	26.500	122.000	179.000	
35.5	32		D	4BT53 0	x	x	x	x	x	28.000	135.000	192.000	
40	36		D	4BT54 0	x	x	x	x	x	26.000	159.000	221.000	
45	40.5		D	4BT54 1	x	x	x	x	x	33.000	166.000	228.000	
50	45		D	4BT55 0	x	x	x	x	x	34.000	183.000	245.000	
63	56.5		D	4BT56 0	x	x	x	x	x	45.000	214.000	276.000	
80	72	D	4BT58 1	x	x	x	x	x	46.000	259.000	371.000		
100	90	D	4BT59 0	x	x	x	x	x	60.500	302.000	414.000		
125	112.5	D	4BT60 1	x	x	x	x	x	78.000	355.000	467.000		
160	144	D	4BT62 1	x	x	x	x	x	100.000	444.000	578.000		
200	180	D	4BT63 0	x	x	x	x	x	129.000	523.000	657.000		
250	225	D	4BT65 0	x	x	x	x	x	134.500	646.000	780.000		

x = additional price

-- = not available

Before ordering, please ask for the complete Order No.
(see page 10/4 for the inquiry/order address).

¹⁾  approvals for voltages $\leq 600\text{ V}$ (incl. tappings) and degree of protection IP00.

²⁾ For autotransformers = type rating.

³⁾ No power reduction for ambient temperatures $\leq 40\text{ °C}$.

Options

- Thermistor transformer protection for warning and/or disconnection
The 4BT power transformers can be supplied with thermistor transformer protection for warning and/or disconnection, see [Technical Information LV 1 T "General Data" --> "Design"](#).

PG = 104

For transformer	Additional price for		
Type	Warning	Disconnection	Warning and disconnection
4BT	x	x	x

- Rating plates made of metal
One separately packed rating plate made of metal can be supplied per 4BT transformer.

Additional price on request.

- Deviations from the standard vector groups Ii0 or Ia0 for autotransformers must be specified when ordering.

Further versions with higher outputs up to 1250 kVA are available on request.