

## Type TDP..1,2 + TDP...1,2

<b>Excitation:</b>	<b>permanent:</b>	Harmonic
Rated voltage tolerance:	+ 5 %	voltage $\Sigma U \sim \text{eff (RMS)} \leq 0,4 \% (20 - 100 \text{ rpm})$ $\leq 0,2 \% (100 - 3000 \text{ rpm})$
Direction of rotation:	reversible	Linearity error <sup>1)</sup> : +/- 0,02 % from 100 – 3000 rpm
Polarity, terminal connections:	dependent on rotation	Temperature coefficient <sup>2)</sup> : +/- 0,02 % per 10K compensated magnet system +/- 0,1 % per 10K uncompensated magnet system
No. of poles:	2	Reversing error: +/- 0,1 %
No. of slots:	39	Insulation: Class B
No. of segments:	39	Winding test: 2 U <sub>max</sub> + 500 V by manufacturer
Brushes per machine:	4 pairs, quality AG 35	Repeat test: max. 1000 V
	Dimensions: 4 x 6,4 x 18	

<sup>1)</sup> at max permissible currents, the error can increase due to the disturbances described on page 5.  
<sup>2)</sup> Up to a power rating of approx. 0,6 W  
At higher loads, see page 5.

	<b>TDPS 1,2 + TDPS 1,2</b>	<b>TDP 1,2 + TDP 1,2</b>
Rated power at 1000 rpm	<b>2 x 12 W</b>	<b>2 x 25 W</b>
Moment of inertia approx.	8 kgcm <sup>2</sup>	15 kgcm <sup>2</sup>
Weight approx.	11 kg	16 kg

### Preferred voltages

Type	Rated voltage at 1000 rpm [V]	Max. speed [rpm]	Max. permissible current [mA]	Optimum load resistance [kΩ]	Armature resistance at 20°C approx.		No-load voltage at 1000 rpm [V]
					DE [Ω]	NDE [Ω]	
<b>TDPS 1,2 + TDPS 1,2- 1</b>	<b>200</b>	2000	60	175	350	320	220
<b>TDPS 1,2 + TDPS 1,2- 3</b>	<b>140</b>	2800	88	86	167	153	154
<b>TDPS 1,2 + TDPS 1,2- 5</b>	<b>100</b>	4000	120	43	86	73	110
<b>TDPS 1,2 + TDPS 1,2- 8</b>	<b>65</b>	6000	185	17	34	29	72
<b>TDPS 1,2 + TDPS 1,2-12</b>	<b>30</b>	6000	400	3,7	7,4	6,7	33

Type	Rated voltage at 1000 rpm [V]	Max. speed [rpm]	Max. permissible current [mA]	Optimum load resistance [kΩ]	Armature resistance at 20°C approx.		No-load voltage at 1000 rpm [V]
					DE [Ω]	NDE [Ω]	
<b>TDP 1,2 + TDP 1,2- 1</b>	<b>200</b>	2000	125	67,5	169	154	220
<b>TDP 1,2 + TDP 1,2- 3</b>	<b>140</b>	2800	180	33	82	77	154
<b>TDP 1,2 + TDP 1,2- 5</b>	<b>100</b>	4000	250	18	38	35	110
<b>TDP 1,2 + TDP 1,2- 8</b>	<b>65</b>	6000	385	8	15,5	14,3	72
<b>TDP 1,2 + TDP 1,2-12</b>	<b>30</b>	6000	830	2,3	3,7	3,4	33

Special voltages on request

Shaft mounted constructions (overhung mountings)  
in B 10... construction speeds limited to ma. 2500 rpm.

The electrical data refer to one armature winding;  
two different voltage versions are available for each  
machine.

Double tachos with two galvanically and mechanically  
separate armature windings or with magnetic shunt ring  
on request.

Type TDP 1,2 + TDP 1,2 G or

Type TDP...1,2 + TDP...1,2 GN