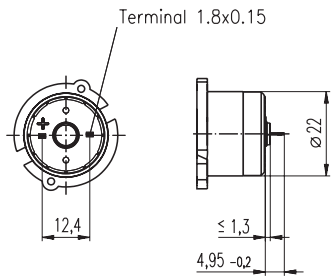# DC-Tacho DCT 22, 0.52 Volt

Terminal 1.8x0.15

Ø 22

12,4

≤ 1,3

4,95 −0,2

Important Information

- Tacho with moving coil, maxon system.
- Tacho with precious metal commutation.
- To establish total inertia add motor and tacho inertias.
- With the output shaft turning CW as seen from the mounting surface, the tacho output voltage will be positive at the + terminal.
- A high impedance load is recommended at tacho terminals.
- The tacho current should be kept low.
- The indicated resonance frequency refers to the motor-tacho rotor system.

■ Stock program
□ Standard program
▨ Special program (on request)

Order Number		
118908	118909	118910

Type			
Shaft diameter (mm)	2	3	4

overall length

overall length

Combination

+ Motor	Page	+ Gearhead	Page	Overall length [mm] / ● see: + Gearhead				
RE 25, 10 W	77			76.8				
RE 25, 10 W	77	GP 26, 0.5 - 2.0 Nm	224	●				
RE 25, 10 W	77	GP 32, 0.4 - 2.0 Nm	226	●				
RE 25, 10 W	77	GP 32, 0.75 - 4.5 Nm	227	●				
RE 25, 10 W	77	GP 32, 1.0 - 6.0 Nm	229	●				
RE 25, 20 W	78			76.8				
RE 25, 20 W	78	GP 26, 0.5 - 2.0 Nm	224	●				
RE 25, 20 W	78	GP 32, 0.4 - 2.0 Nm	226	●				
RE 25, 20 W	78	GP 32, 0.75 - 4.5 Nm	227	●				
RE 25, 20 W	78	GP 32, 1.0 - 6.0 Nm	229	●				
RE 26, 18 W	79			79.8				
RE 26, 18 W	79	GP 26, 0.5 - 2.0 Nm	224	●				
RE 26, 18 W	79	GP 32, 0.4 - 2.0 Nm	226	●				
RE 26, 18 W	79	GP 32, 0.75 - 4.5 Nm	227	●				
RE 26, 18 W	79	GP 32, 1.0 - 6.0 Nm	229	●				
RE 35, 90 W	81				89.0			
RE 35, 90 W	81	GP 32, 0.75 - 4.5 Nm	228		●			
RE 35, 90 W	81	GP 32, 1.0 - 6.0 Nm	229		●			
RE 35, 90 W	81	GP 42, 3.0 - 15 Nm	232		●			
RE 36, 70 W	82				89.3			
RE 36, 70 W	82	GP 32, 0.4 - 2.0 Nm	226		●			
RE 36, 70 W	82	GP 32, 0.75 - 4.5 Nm	228		●			
RE 36, 70 W	82	GP 32, 1.0 - 6.0 Nm	229		●			
RE 36, 70 W	82	GP 42, 3.0 - 15 Nm	232		●			

Technical Data

Output voltage per 1000 rpm	0.52 V	Max. recommended current	10 mA
Terminal resistance tacho	56.6 Ω	Tolerance of the output voltage	± 15 %
Typical peak to peak ripple	≤ 6 %	Rotor inertia (tacho only)	< 3 gcm²
Ripple frequency per turn	14	Resonance frequency with motors on p. 77 - 79	> 2 kHz
Linearity between 500 and 5000 rpm unloaded	± 0.2 %	with motors on pages 86, 88	> 3 kHz
Linearity with 10 kΩ load resistance	± 0.7 %	with motors on pages 81, 82	> 4.5 kHz
Reversal error	± 0.1 %	Temperature range	-20 ... +65°C
Temperature coefficient of EMF (magnet)	-0.02 % /°C		
Temperature coefficient of coil resistance	+0.4 % /°C	Option: Pigtails in place of solder terminals.	

Connection example

T   1 kΩ   180 Ω   0.1 µF

U_{AC}

U_{DC}

$\text{Ripple} = \dfrac{U_{AC}}{U_{DC}} \times 100 \ (\%)$

Resonance frequency Motor winding-Tacho winding $f_R \geq 4$ kHz