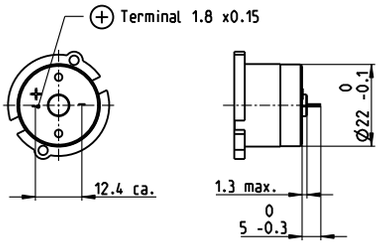
DC Tacho DCT 22 0.52 Volt

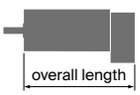


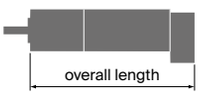
Important information

- 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)

Part numbers	118909	118910
Type		
Shaft diameter (mm)	3	4





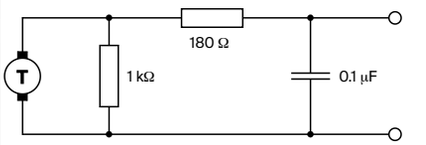
Modular system

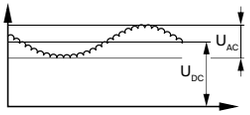
+ Motor	Page	+ Gearhead	Page	Overall length [mm] / • see Gearhead	
RE 25	156/158			76.8	
RE 25	156/158	GP 26, 0.75 - 4.5 Nm	425	•	
RE 25	156/158	GP 32, 0.75 - 4.5 Nm	426/427	•	
RE 25	156/158	GP 32, 1.0 - 6.0 Nm	429	•	
RE 25	156/158	KD 32, 1.0 - 4.5 Nm	435	•	
RE 25	156/158	GP 32 S	474-482	•	
RE 25, 20 W	157			65.3	
RE 25, 20 W	157	GP 22, 0.5 - 1.0 Nm	420	•	
RE 25, 20 W	157	GP 26, 0.75 - 4.5 Nm	425	•	
RE 25, 20 W	157	GP 32, 0.75 - 4.5 Nm	426/427	•	
RE 25, 20 W	157	GP 32, 0.75 - 6.0 Nm	429	•	
RE 25, 20 W	157	KD 32, 1.0 - 4.5 Nm	435	•	
RE 25, 20 W	157	GP 32 S	474-482	•	
RE 35, 90 W	161				89.1
RE 35, 90 W	161	GP 32, 0.75 - 6.0 Nm	426-431		•
RE 35, 90 W	161	GP 32, 4.0 - 8.0 Nm	432		•
RE 35, 90 W	161	GP 42, 3.0 - 15 Nm	439		•
RE 35, 90 W	161	GP 32 S	474-482		•

Technical data

Output voltage per 1000 rpm	0.52 V	Max. current	10 mA
Terminal resistance tacho	37.7 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. 156–158	> 2 kHz
Linear voltage tolerance, 500 to 5000 rpm	± 0.2 %	with motors on p. 161	> 4.5 kHz
Linear voltage tolerance with 10 kΩ load resistance	± 0.7 %	Temperature range	-20 ... +65 °C
Polarity error	± 0.1 %		
Temperature coefficient of EMF (magnet)	-0.02 % /°C	Option: Pigtails in place of solder terminals.	
Temperature coefficient of coil resistance	+0.4 % /°C		

Connection example





Ripple = $\frac{U_{AC}}{U_{DC}}$ x 100 (%)

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

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