

Tachogenerators

Blind hollow shaft $\varnothing 10$ to $\varnothing 16$ mm

Nominal voltage 10 VDC to 60 VDC

KTD 3-... A 4 L Y11



KTD 3-... A 4 L Y11 with blind hollow shaft

Features

- High response speed
- Blind hollow shaft $\varnothing 10 \dots 16$ mm
- Mounting by torque support
- Shaft fastening by cylinder screw M5
- Wide rotation speed range
- Recognition of sense of rotation
- Low harmonic content
- No auxiliary energy source required

Technical data - electrical ratings

Polarity	Depending on rotational direction
Number of pole pairs	2 = 4 poles
Number of grooves, segments	29
Groove frequency	$f_N = 29/30 \times n$
Reversal tolerance	$\leq 0.1 \%$
Linearity tolerance	$\leq 0.15 \%$
Residual ripple	$\leq 0,4 \%$
Adjustment tolerance (Nominal voltage)	$\leq \pm 10 \%$
Lower limit of control range	0 rpm
Temperature coefficient	$\pm 0.1 \%/10 \text{ K } (-10 \dots +100 \text{ }^\circ\text{C})$
Isolation class	B
Carbon brush lifetime approx.	20000 Operating hours
Carbon brush	4 pieces 3 x 4 x 12
Nominal voltage	10...60 V
Maintenance	After approx. 10 000 hours in service
Interference immunity	DIN EN 61000-6-2
Emitted interference	DIN EN 61000-6-3

Technical data - mechanical design

Shaft type	$\varnothing 10 \dots 16$ mm (blind hollow shaft)
Protection DIN EN 60529	IP 54
Materials	Housing: aluminium, bare / steel zinc-coated Shaft: stainless steel
Operating temperature	$-20 \dots +100 \text{ }^\circ\text{C}$
Connection	Terminal box, 2-pin

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Part number

KTD 3-

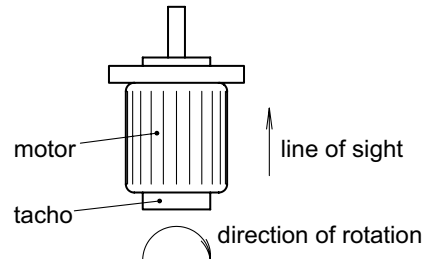
	A 4 L Y11
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	Nominal voltage
1	10 V
2	20 V
3	30 V
4	40 V
6	60 V

When ordering please specify hollow shaft diameter.

Terminal assignment

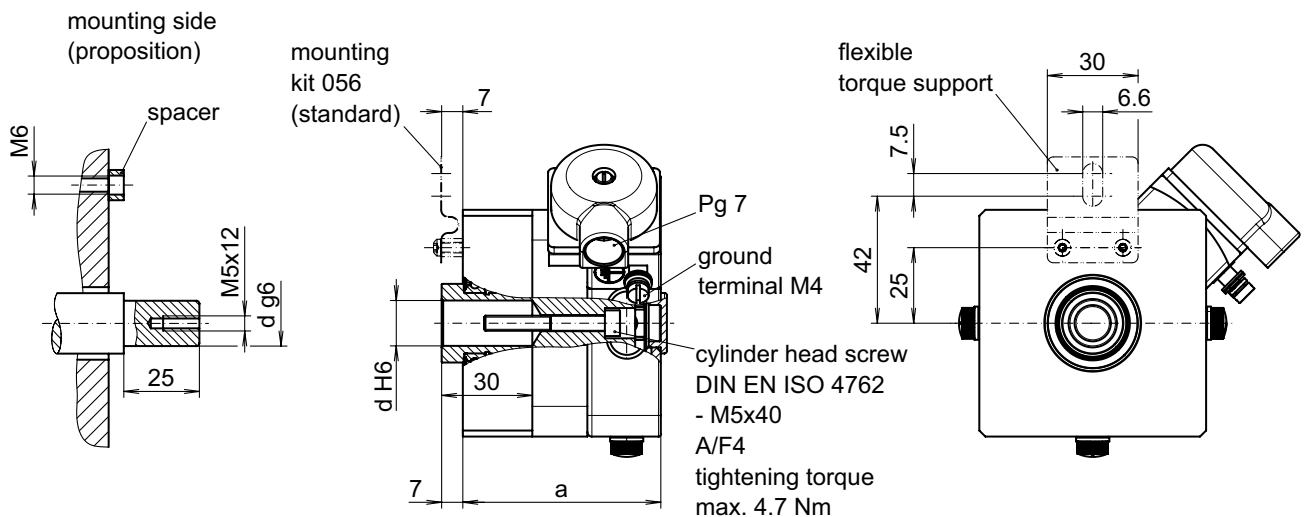
Marking	Polarity
A1	positive
A2	negative



Data according to type

Type	Rated voltage U_N [mV/min ⁻¹]	Rated current I_N [mA]	max. current I [mA]	max. revolution n [min ⁻¹]	Armature resistance R_A (20°C) [Ω]	Weight rotor	Weight housing
(Electrical data according to 1000 rpm)							
KTD 3-1 A 4 L Y11	10	10	100	6000	45	250 g	900 g
KTD 3-2 A 4 L Y11	20	10	80	6000	170	250 g	900 g
KTD 3-3 A 4 L Y11	30	10	80	6000	170	250 g	900 g
KTD 3-4 A 4 L Y11	40	10	80	4000	220	360 g	1140 g
KTD 3-6 A 4 L Y11	60	30	80	3000	220	360 g	1140 g

Dimensions



Type	VDC	a
KTD 3-1 A 4 L Y11	10	65.5
KTD 3-2 A 4 L Y11	20	65.5
KTD 3-3 A 4 L Y11	30	65.5
KTD 3-4 A 4 L Y11	40	75.5
KTD 3-6 A 4 L Y11	60	75.5

$d = \varnothing 10$ mm - $\varnothing 16$ mm
Please specify the desired bore diameter in your order.

Please specify the desired mounting kit in your order.

018-24 Y11