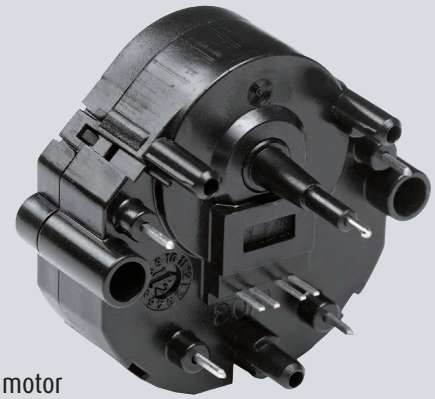
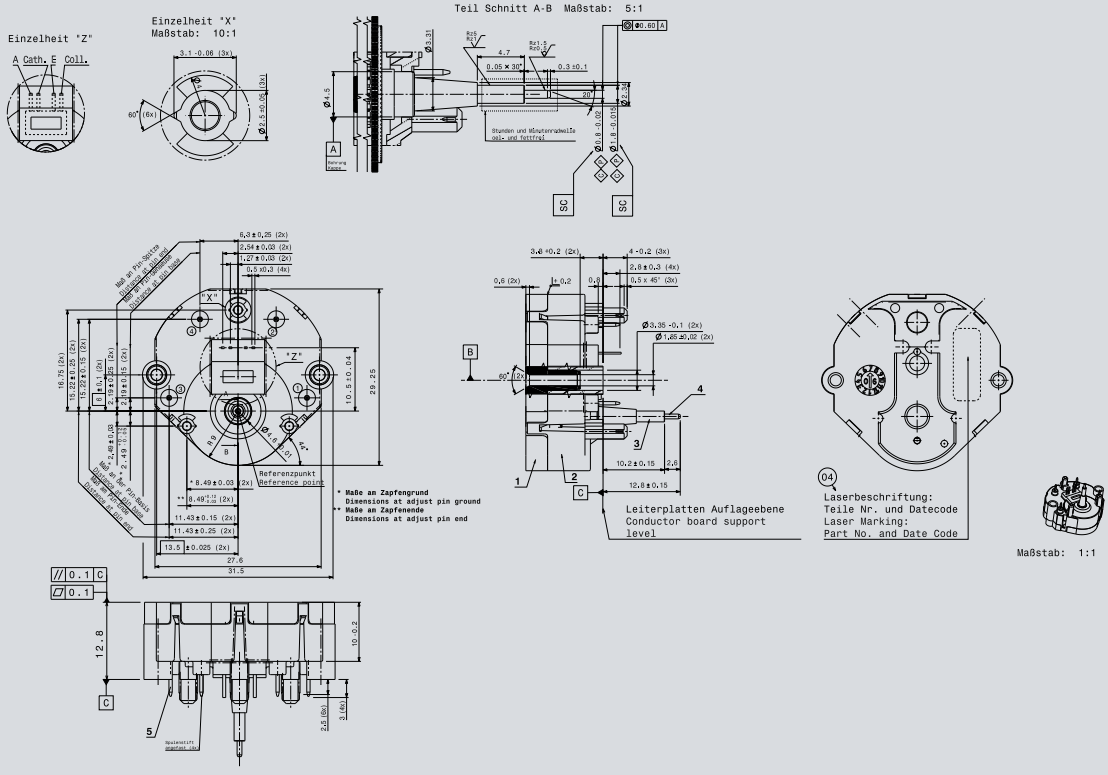
Clock stepper motor 23

Technical data



Part N°	93-00023-0001
Nominal Torque	0.5 mNm
Weight	9 g
Minute gear shaft	∅ 0.8 mm
Hour gear shaft	∅ 1.8 mm
Position on PCB	Rear Mount
Zero point detection	Reference position integrated in motor (Optoelectronic coupler)

Dimensions



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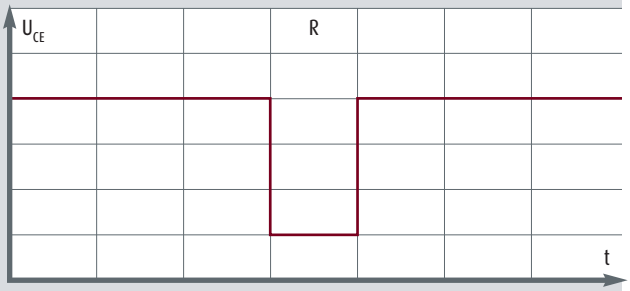
Electrical and mechanical characteristics

Clock stepper motor 23

Variables

Temperature 22°
Voltage 5V +-0.1

At reference position U_{CE} < 0.5 V
Outside reference position U_{CE} > 2.5 V



Parameter	Min.	Typ.	Max.	Unit
Operating temperature	- 40		+ 85	°C
Storage temperature	- 40		+ 85	°C
Soldering temperature (max. 5 sec)			290	°C
Operating voltage	3,5		7	V
Operating current		18	35	mA
Coil resistance	260	280	300	Ohm
Torque on minute shaft	0.5			mNm
Static torque	0.3			mNm
Holding torque (with current, 5V)	0.8			mNm
Noise level @ 30 cm from the reference face		35		db(A)
Pointer weight			2.5	g
Equivalent motor inertia at output based on 2.5 g pointer and unbalance of 0.05 mNm		200		g mm²
Axial force (with retention of the housing)			100	N
Pointer setting force			100	N

Technical changes and errors reserved.