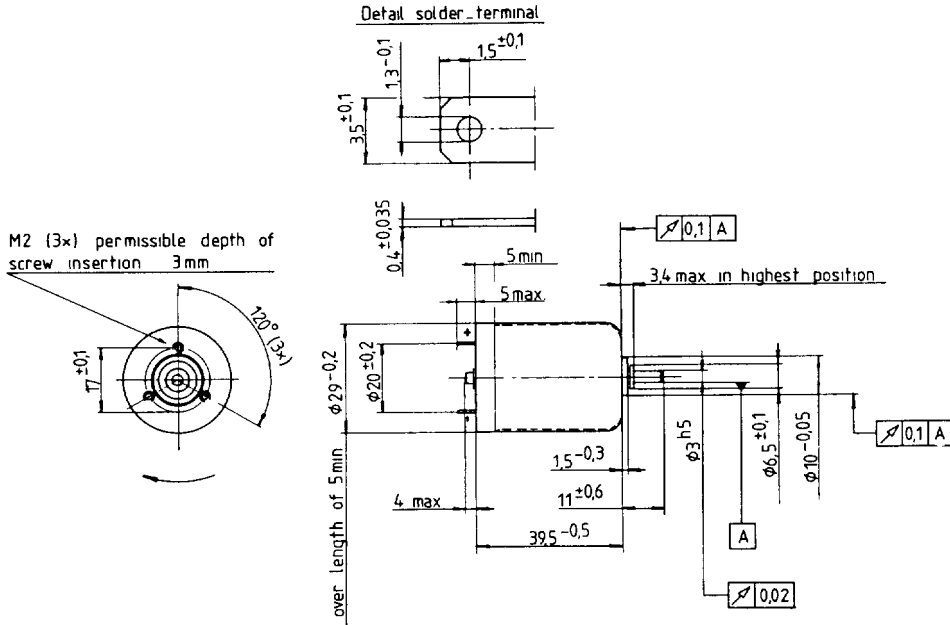
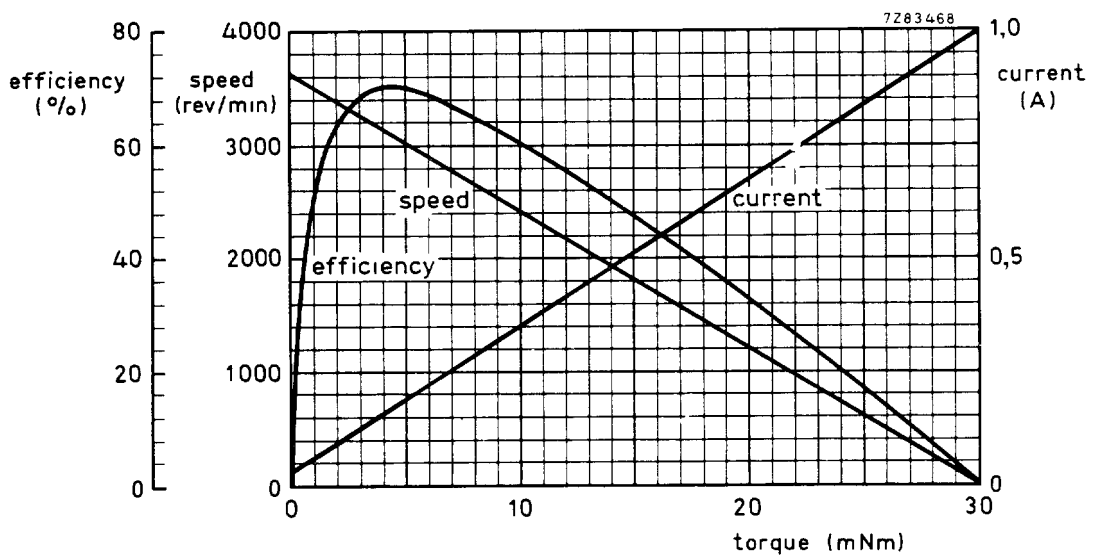


DIRECT CURRENT MOTORS
ironless rotor type



- Axial play of rotor 0,2 + 0,3
- The direction of rotation is given in connection with the polarity
- The position of the solder terminals with respect to the position of mounting holes arbitrarily



Typical curves at 12 V , T_{amb} = 22 °C.

TECHNICAL DATA

The values given below apply to an ambient temperature of 22 ± 5 °C, an atmospheric pressure of 86 to 106 kPa and a relative humidity of 45 to 75%.

Nominal voltage (d.c.)	12	V
Nominal torque	5	mNm
Bearings	slide	
Direction of rotation	reversible	
Climatic category (IEC 68)	10/060/21	
E.M.F. at 3000 rev/min	8,4-10,8	V
Rotor resistance	$12 \pm 10\%$	Ω
Current at nominal voltage		
at nominal torque	164-238	mA
at no load	max. 56	mA
at a radial force of 3,5 N at 8 mm from mounting plane	max. 110	mA
Insulation between terminals and housing	min. 2	M Ω
Test voltage (50 Hz) between terminals and housing, for 1 minute	250	V
Torque constant	e.m.f./100 π	Nm/A
Starting torque at nominal voltage	30	mNm
Rotor inductance	1	mH
Rotor moment of inertia	$0,9 \times 10^{-6}$	kg m ²
Mechanical time constant	11,0	ms
Ambient temperature range		
operating	-10 to +60	°C
storage	-40 to +70	°C
Temperature coefficient of rotor resistance	0,4	%/K
E.M.F.	-0,02	%/K
Mass	approx. 120	g

Limiting conditions

The following maximum values indicate those circumstances under which the motor can run continuously without being damaged, but under these circumstances the motor life is reduced.

Voltage	15	V
Torque	8	mNm
Current	325	mA
Repetitive peak current, 10 ms, 1 Hz	1100	mA
Speed	6000	rev/min
Output power	3	W
Continuous blocking permitted at	6,2	V
Radial force	5	N
Axial force	0,5	N