FAULHABER

NEW

Brakes

Power-off

preliminary data sheet

For combination with:
DC-Micromotors:
2842, 3042

Series MBDA 28, MBDA 30

		MBDA 28, MBDA 30	06	12	24	
	Nominal coil data at 20°C					
1	Supply voltage (DC) ±10%	U_N	6	12	24	Volt
2	Resistance	R	7,7	30	117	Ω
3	Current	A	0,83	0,43	0,21	A
4	Power	$P_{2\ max.}$	5,00	5,16	5,20	W
	Mechanical response times[1]					
5	Pull in/Dropout-Diode		7,5/16			ms
6	Pull in/Dropout-MOV		7,5/3			ms
7	Static torque rating		113			mNm
8	Moment of inertia[2]		1,47			gcm²
9	Max. permissible speed		9 000			rpm
	Temperature range:					
10	Operating temperature[3]		−55 ... +65			°C
11	Storage temperature[3]		−55 ... +130			°C
12	Weight		143			g

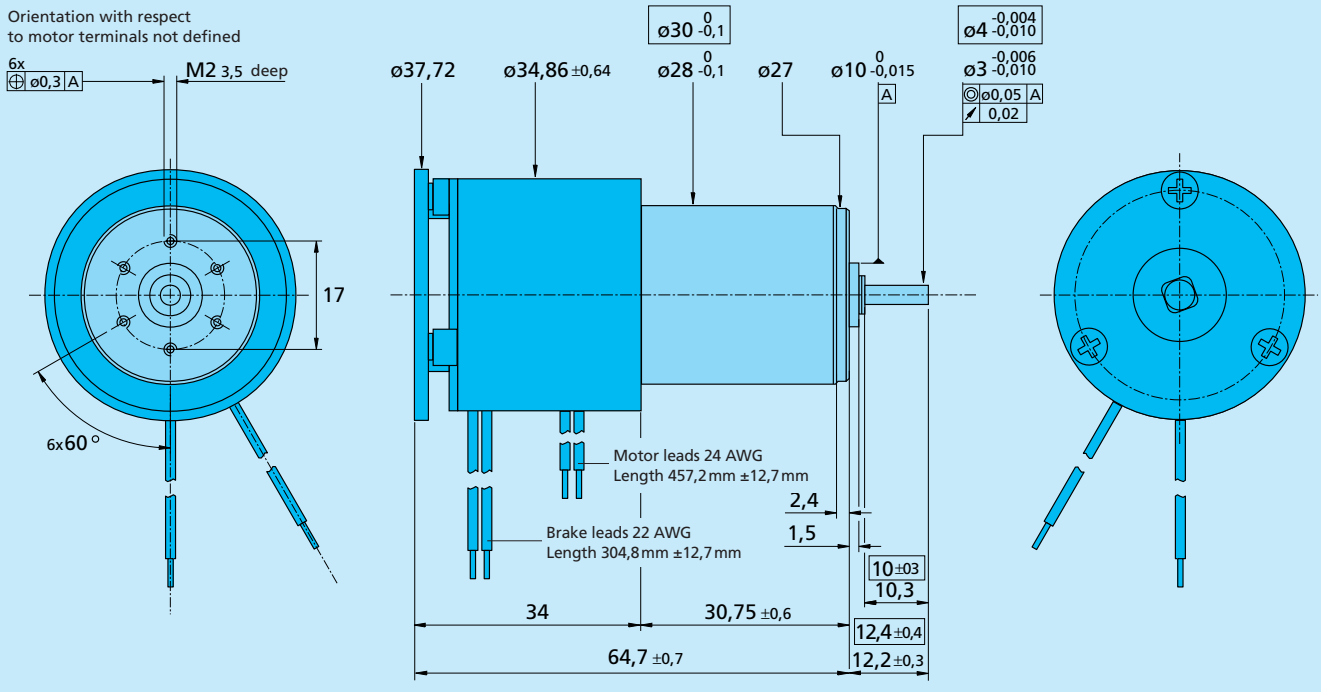
Coils are UL Class B rated, 130°C

Leads are 22 AWG, 7/30 Stranded, 200°C, 600V by UL
UL Style 1213, insulation Teflon PTFE Type E, 1,4 mm nominal O.D., color blue
Finish is zinc and yellow chromate except for chrome flash clapper and pressure plate.

[1] Diode or MOV is placed across coil for arc suppression when brake is turned off (dropout).
Pull in time is not effected by use of diode or MOV. Without diode or MOV, the dropout time is directly related to the speed of the switch.
[2] Hub and friction disk inertia, including also shaft adapter for encoder.
[3] Non condensing atmosphere.

Dimensional drawing

Scale reduced



MBDA 28, MBDA 30