SK5, SK6, SK12

Slipring Assemblies
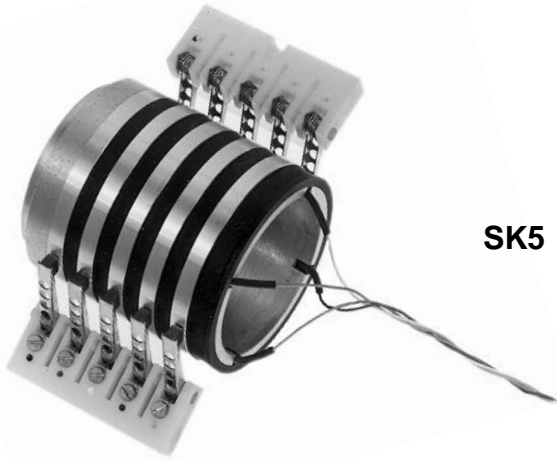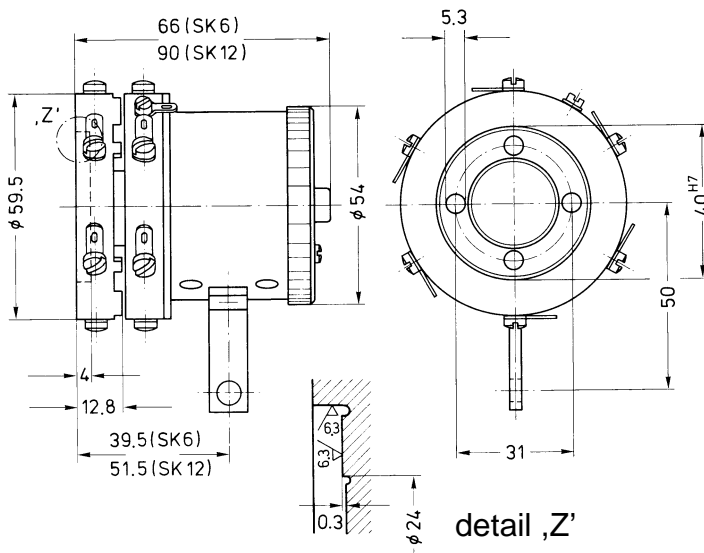
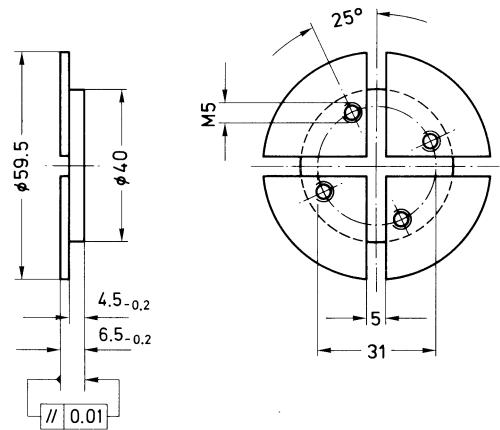**SK5**

SK6

Special features

– **Low wear**
– **High transmission quality**
– **SK 6 and SK 12 for mounting to stub shafts with easy-lift brush assemblies**
– **SK 5 for central mounting on shafts**
– **Low thermal voltages**
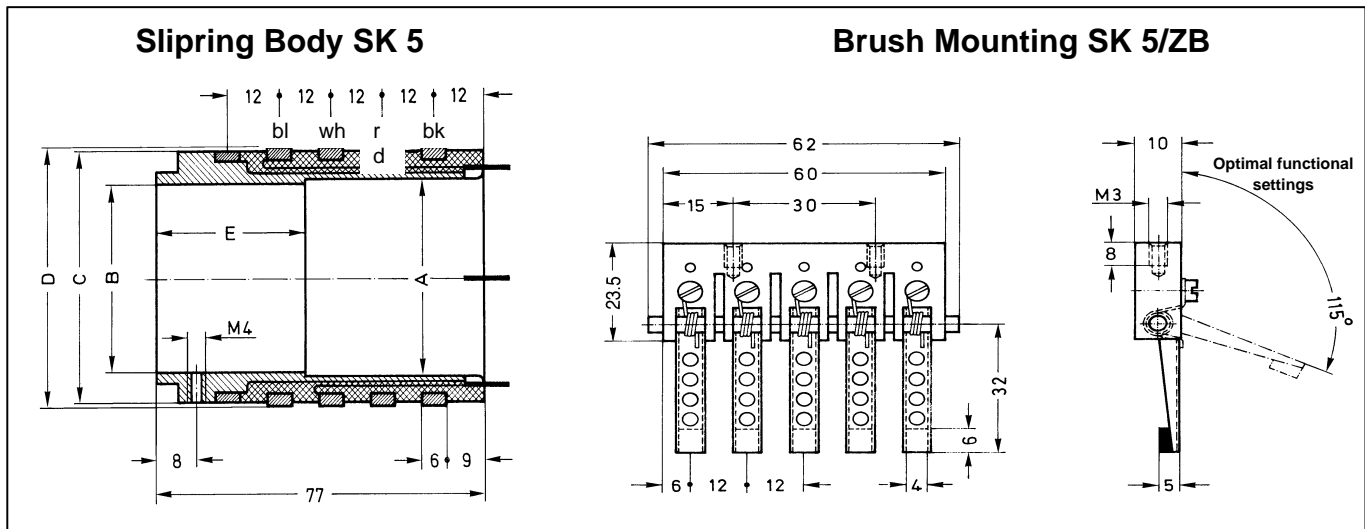– **Very low change in contact resistance**

Slipring Heads SK 6 and SK 12

detail ‚Z'

Mounting plate

HBM

Dimensions (in mm, 1mm = 0.03937inches)

Slipring Body SK 5

Brush Mounting SK 5/ZB

Type	Max. shaft-∅	Dimensions in mm					Weight	Permissible speed in min^{-1}	
	in mm	∅B	∅A	∅C	∅D	E	in kg	Continuous operation	Short-term operation
SK 5/40	40	40^{M6}	42	54	55	35	0,23	6000	8000
SK 5/55	55	55^{M6}	55,1	68	69	40	0,31	6000	8000
SK5/95	95	95^{N6}	95,1	115	116	40	0,67	4000	6000

Specifications

Type		SK 5	SK 6	SK 12
Number of sliprings		5	6	12
Resistance between sliprings and brush	mΩ	<40	<40	<40
Fluctuation of the resistance	mΩ	<2	<2	<2
Thermo-electric voltage measured between two brushes				
when the sliprings are short-circuited (after running warm)	µV	<10	<10	<10
Voltage limit	V	60	60	60
Current limit	A	2	2	2
Permitted speed for continuous duty	min^{-1}	4000/6000 [1]	6000	6000
Permissible vibration,				
Test severity to **DIN 40046, Part 8**				
Frequency range	Hz	10...55	5...65	5...65
Duration	h	1.5	0.5	0.5
Acceleration	m/s^2	50	150	150
Mechanical schocktest [2]				
Test severity to **DIN 40046, Part 26**				
Number of schocks		1000	1000	1000
Duration	ms	3	3	3
Acceleration	m/s^2	150	200	200
Moment of mass inertia, I$_x$ (axial)	gm^2		0.082	0.087
Nominal temperature range [3]	°C	−10...+60	−10...+60	−10...+60
Service temperature range [4]	°C	−10...+90	−10...+70	−10...+70
Storage temperature range	°C	−50...+90	−50...+90	−50...+70
Weight	kg	see above	approx. 0.55	approx. 0.65

[1] 4000 min^{-1} for SK5/95, 6000 min^{-1} for SK5/40 and SK5/55
[2] No change in technical data was observed after the schock test.
[3] Permissible ambient temperature = (60 − 0,002 * n) °C; n in min^{-1}
[4] Permissible ambient temperature = (70 − 0,002 * n) °C; n in min^{-1}

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