

Size	08	09	11	13	15	18	20	30
Model	34 BF	78 BF	116 BF	156 BF	176 BF	134 BF	200 BF	300 BF

ELECTRICAL SPECIFICATIONS

Functions	linear; on request: specific law							
Theoretical electrical angle (TEA)	actual electrical angle (AEA) -2°							
Independent linearity (over TEA)	A $\leq \pm 1\%$ B $\leq \pm 0,5\%$ C $\leq \pm 0,25\%$							
on request	NA		down to D $\leq \pm 0,1\%$			down to E $\leq \pm 0,05\%$		
Actual electrical angle (AEA)	340° $\pm 3^\circ$				350° $\pm 2^\circ$			
Ohmic values (R _T)	1 kΩ - 2 kΩ - 5 kΩ - 10 kΩ - on request other values							
Ohmic value tolerances at 20°C	$\pm 10\%$; on request: $\pm 5\%$							
Output smoothness	$\leq 0,05\%$				$\leq 0,025\%$			
Maximum power rating at 70°C	0,75 W	1 W	1,25 W	1,5 W	2 W	2,5 W	3 W	4 W
Wiper current	recommended: a few μA - 1 mA max. (continuous)							
Tap (current or voltage)	U = current $\left\{ \begin{array}{l} \text{Position: } \pm 2^\circ \\ \text{Width: } \leq 4^\circ \end{array} \right. / \quad \text{T = Voltage} \quad \text{Position: } \pm 2^\circ$							
on request								
Load resistance on wiper (R _L)	min. $10^3 \times R_T$							
Repeatability	$\leq 0,02\%$							
End voltage	$\leq 0,4\%$ for $470 \Omega \leq R_T \leq 1000 \Omega$ / $\leq 0,2\%$ for $1000 \Omega < R_T \leq 2200 \Omega$ / $\leq 0,1\%$ for $R_T > 2200 \Omega$							
Insulation resistance	$\geq 1000 \text{ M}\Omega$, 500 V DC							
Dielectric strength	$\geq 750 \text{ V RMS}$, 50 Hz				$\geq 1000 \text{ V RMS}$, 50 Hz			

MECHANICAL SPECIFICATIONS

Mechanical rotation	360° (continuous); stops on request								
Mounting type	bushing								
Shaft guiding	sleeve bearings; on request ball bearings								
Shaft	stainless steel								
Housing	plastic moulding; on request anodized aluminium								
Termination	turrets; on request flexible leads, cables...								
Wiper	precious metal multi-finger contact								
Starting torque (N.cm)	$\leq 0,5$ 1 cup; $\leq 0,3$ for each additional cup								
Moment of inertia (g.cm ²)	0,3	0,4	0,6	0,8	2,2	2,8	3,5	10	
Weight (g)	1 cup	11 \pm 2	20 \pm 2	21 \pm 2	30 \pm 2	33 \pm 2	45 \pm 3	54 \pm 3	120 \pm 10
	each additional cup	5 \pm 2	6 \pm 2	7 \pm 2	14 \pm 2	16 \pm 2	21 \pm 3	18 \pm 3	62 \pm 10

PERFORMANCES

Life (millions of cycles)	≥ 20							
Temperature range	-55°C , $+125^\circ\text{C}$							
Climatic category	55 / 125 / 04							
Rotation speed (°/s)	900							