

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

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 $\leq \pm 0,25\%$ D $\leq \pm 0,1\%$							
on request	NA	down to E $\leq \pm 0,05\%$			down to F $\leq \pm 0,025\%$		down to $\leq \pm 0,015\%$	
Actual electrical angle (AEA)	340° $\pm 3^\circ$			350° $\pm 2^\circ$				
Ohmic values (R_T)	1 k Ω - 2 k Ω - 5 k Ω - 10 k Ω - on request other values							
Ohmic value tolerances at 20°C	$\pm 10\%$; on request $\pm 5\%$							
Output smoothness	$\leq 0,025\%$						on request $\leq 0,01\%$	
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 / load resistance	recommended: a few μA - 1 mA max. continuous/minimum $10^3 \times R_T$							
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								
Repeatability	$\leq 0,01\%$							
End voltage	$\leq 0,4\%$ for $470 \Omega \leq R_T \leq 1000 \Omega$ / $\leq 0,2\%$ for $1000 \Omega < R_T \leq 2200 \Omega$ / $\leq 0,1\%$ $R_T > 2200 \Omega$							
Insulation resistance	$\geq 1000 \text{ M}\Omega$, 500 Vdc							
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 / shaft guiding	servo/ball bearings								
Housing	diallylphthalate; on request anodized aluminium								
Termination	turrets; on request flexible leads, cables...								
Wiper	precious metal multi-finger contact								
Starting torque (N.cm)	1 cup	0,2			0,25				
each additional cup	0,15								
Moment of inertia (g. cm²)	0,3	0,4	0,6	0,8	2,2	2,8	3,5	10	
Weight (g)	1 cup	11 \pm 2	16 \pm 2	20 \pm 2	29 \pm 2	49 \pm 2	67 \pm 3	79 \pm 3	120 \pm 10
each additional cup	5 \pm 2	6 \pm 2	7 \pm 2	10 \pm 2	16 \pm 2	21 \pm 3	16 \pm 3	62 \pm 10	

PERFORMANCES

Life (millions of cycles)	$\geq 100.10^6$ at 3600 °/s							
Temperature range	-55°C , $+125^\circ\text{C}$							
Climatic category	55 / 125 / 04							
Maximum rotation speed (°/s)	25000							
Sine vibration on 3 axes	1,5 mm or 20 g from 10 Hz to 2000 Hz							
Mechanical shocks on 3 axes	50 g - 11 ms - half sine							