

Size	11		20	
Model	116 SF / Z - S - C	116 BF / Z - S - C	200 SF / Z - S - C	200 BF / Z - S - C
Law	Z: sine and cosine / S: sine (only) / C: cosine (only)			

## ELECTRICAL CHARACTERISTICS

Theoretical electrical angle (TEA) = 360°	actual electrical angle (AEA) = TEA			
Conformity peak to peak	A ≤ ±1%; B ≤ ±0,5%; down to ≤±0,35%			
Number of cups	up to 2			
Ohmic values (R <sub>T</sub> per quadrant)	1 kΩ; 5 kΩ; 10 kΩ; on request other values			
Ohmic value tolerances at 20°C	± 20%			
Output smoothness	≤0,05%			
Maximum power rating at 70°C	1,5 W		3 W	
Wiper current	recommended: a few μA - 1 mA max. (continuous)			
Ground taps	on request			
Resistance load on wiper	minimum 10 <sup>3</sup> x R <sub>T</sub>			
Resolution	essentially infinite			
Insulation resistance	≥1000 MΩ 500 V DC			
Dielectric strength	≥500 V RMS 50 Hz			

## MECHANICAL SPECIFICATIONS

Mechanical angle (MA)	360° continuous				
Mounting type	servo	bushing	servo	bushing	
Shaft guiding	ball bearings	sleeve bearings	ball bearings	sleeve bearings	
Shaft	stainless steel				
Housing	plastic moulding				
Termination	turrets				
Wiper	precious metal multi-finger contact				
Starting torque (N.cm)	1 cup	≤0,3	≤0,5	≤0,4	≤0,6
	2 cups	≤0,5	≤0,8	≤0,6	≤0,9
Weight (g)	30 ±2 (1 cup) + 17 ±2 (2 cups)		100 ±3 (1 cup) + 26 ±3 (2 cups)		

## PERFORMANCES

Life (10 <sup>6</sup> cycles)	≥40	≥20	≥40	≥20
Temperature range	-55°C, +125°C			
Climatic category	55 / 125 / 04			
Speed rotation (RPM)	600	150	600	150
Sine vibrations 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			