BCW

Chassis-Free Rotary Arm Rheostats

Featuring a chassis-free design, alloy resistance wire is wound on a circular ceramic former and secured by high-temperature glaze sintering. A rotating shaft drives the brush across the resistance element to vary resistance. With high power capacity, moisture resistance and a wide adjustment range, it is suitable for voltage and current adjustment in low-frequency AC or DC equipment, or for use as an adjustable load resistor.

Electrical & Mechanical Parameters

Item	Specification
Limit working voltage	AC 600V / DC 500V
Insulation voltage	2500V
Temperature rise	50-100W: <300K ≥150W: ≤350K
Sliding stroke	50W: 280°±5° ≥100W: 300°±5°
Resistance law	Linear; deviation ≤±10%



BCW series product appearance

Test Requirements

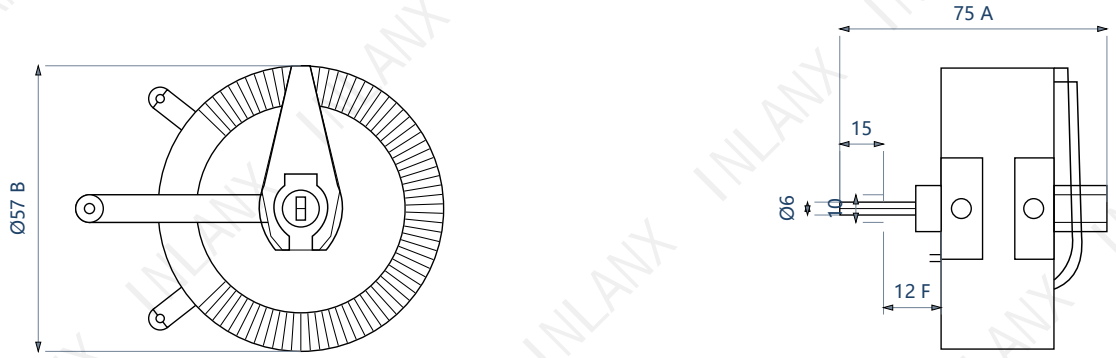
Test	Conditions	Requirement
Rotational endurance	Rotate through no less than 90% of the control-shaft stroke for 5000 revolutions (cycles).	No visible damage.
Alternating damp heat	40°C; 6 weeks (six days).	Insulation resistance less than 1.5MΩ.

Model Dimensions (mm)

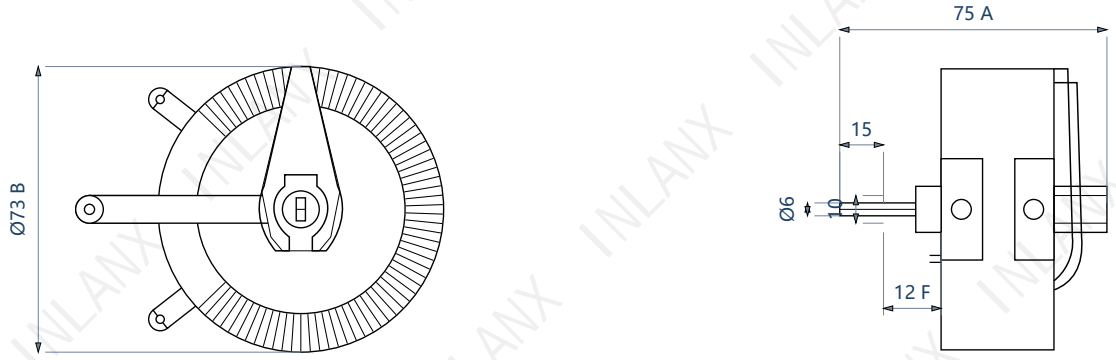
Model / Power	A	B	F	Shaft Ø	Other dimensions	Mounting thread
INLANX-BCW-50W	75	57	12	6	15; 10	-
INLANX-BCW-100W	75	73	12	6	15; 10	-
INLANX-BCW-150W	75	95	12	6	15; 10	-
INLANX-BCW-200W	100	98	17.5	8	-	M4
INLANX-BCW-300W	126	170	13.6	-	-	-
INLANX-BCW-500W	126	143	25	10	-	M6
INLANX-BCW-100W/2	135	95	12	-	-	-
INLANX-BCW-150W/2	138	125	12	-	-	-
INLANX-BCW-300W/2	190	170	14.6	10	50; 23; 21	4 × M6
INLANX-BCW-500W/2	190	200	19	-	-	-
INLANX-BCW-300W/3	300	170	14.8	-	-	-
INLANX-BCW-500W/3	300	200	18.8	-	-	-

All dimensions in mm. -: not specified in the source drawing.

Dimension Drawings

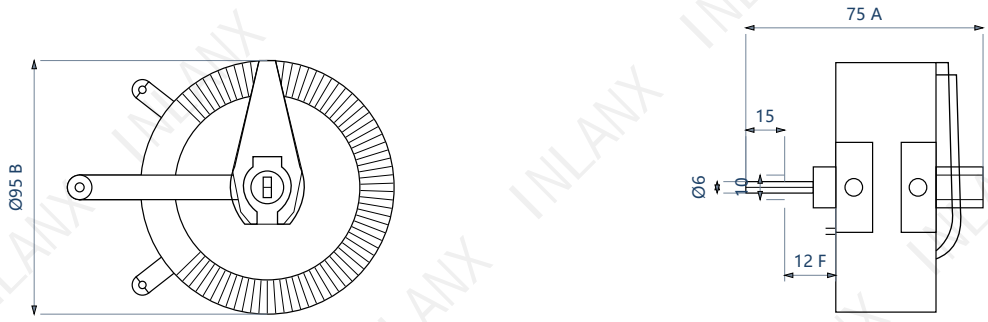


BCW-50W



BCW-100W

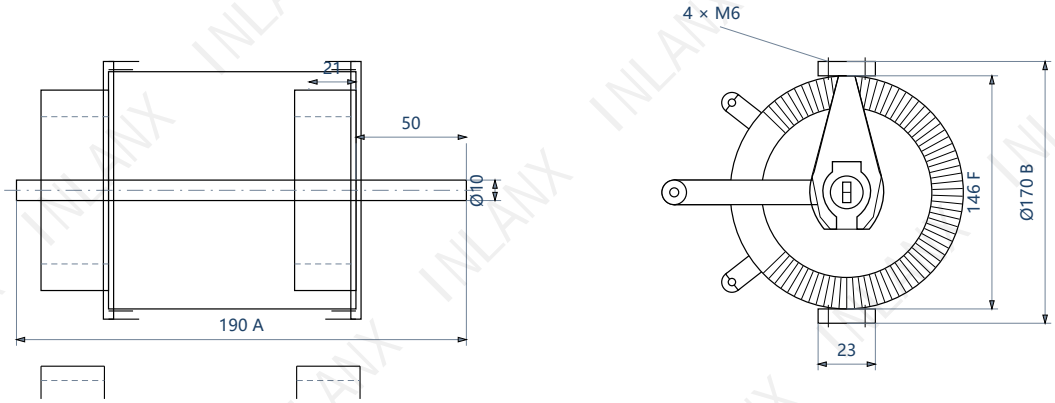
Dimension Drawings (continued)



BCW-150W



BCW-200W



BCW-300W/2



BCW-500W