

ANALOGUE MEASURING INSTRUMENTS

BOQ...n - Maximum demand indicator with additional moving iron ammeter



- Class 3 and 1.5
- For connection to current transformers
- Secondary 5 A or secondary 1 A
- With interchangeable scale

Description

These instruments consist of a bimetallic maximum demand indicator combined with a moving iron system.

The bimetallic meter movement with its drag indicator shows the maximum value, the moving iron meter the present value. They are working smoothly at temperatures between -10°C and +55°C because of their robust assembling.

The instrument has a sealable resetting knob with which the red drag indicator can be resetted on the position of the meter movement's pointer.

(Do not turn lower!).

The instruments can be furnished with a scale factor disc.

The instruments are available in the size 96 x 96 also with an added saturation current transformer.

Overload capacity according to DIN 43780

Continuously 1.2 times
Short duration 10 times 1s

Technical Features

Type	BOQ72	BOQ96n	BOQ144s	
Front frame (mm)	72 x 72	96 x 96	144 x 144	
Scale length (mm)	Bimetallic moving iron	52 61	71 90	90 90
Consumption	.../5A .../1A	3,4 VA 2,5 VA	3,4 VA 2,5 VA	2,7 VA 2,5 VA
Setting time at transformer 15 min	.../5A .../1A	● ●	● ●	● ●
Transformer primary current (A)	final scale value (A)			
	Bimetallic system	Movin iron system		
= 100%	20% overload = 120%	100% overload = 120%		
A	5	6	10	
	10	12	20	
	15	18	30	
	20	24	40	
	25	30	50	
	30	36	60	
	40	48	80	
	50	60	100	
	60	72	120	
	75	90	150	
	100	120	200	
	125	150	250	
	150	180	300	
	200	240	400	
	250	300	500	
	300	360	600	
	400	480	800	
	500	600	1,0 kA	
	600	720	1,2 kA	
	750	900	1,5 kA	
	800	960	1,6 kA	
	1,0 kA	1,2 kA	2,0 kA	
	1,2 kA	1,4 kA	2,4 kA	
	1,5 kA	1,8 kA	3,0 kA	
	2,0 kA	2,4 kA	4,0 kA	
	2,5 kA	3,0 kA	5,0 kA	
	3,0 kA	3,6 kA	6,0 kA	
	4,0 kA	4,8kA	8,0 kA	
Terminal cover	●	●	—	

● available ○ on request

Backside terminal cover for protection according to VBG 4
(Please indicate when ordering)

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BIQ...n - BOQn

Housing dimensions of bimetallic moving iron panel instruments

Dimensiones in mm / Weight in gramme									
Type	Dimensions	a	c	d	e	g	h	Ø	Weight
BIQ72n	.../5 A	72	55	74	68 ^{+0,7}	8 ¹	4,6	M6	190
	.../1 A	72	55	74	68 ^{+0,7}	8 ¹	4,6	M4	190
BIQ96n	.../5 A	96	55	74	92 ^{+0,8}	8 ¹	5	M6	250
	.../1 A	96	55	74	92 ^{+0,8}	8 ¹	5	M8	250
BIQ144s	.../5 A	144	70	-	138 ⁺¹	10	8	M4	625
	.../1 A	144	70	-	138 ⁺¹	10	8	M6	750
BOQ72n	.../5 A	72	55	74	68 ^{+0,7}	8 ¹	4,6	M8	230
	.../1 A	72	55	74	68 ^{+0,7}	8 ¹	4,6	M4	220
BOQ96n	.../5 A	96	55	74	92 ^{+0,8}	8 ¹	5	M6	290
	.../1 A	96	55	74	92 ^{+0,8}	8 ¹	5	M8	280
BEQ144s	.../5 A	144	70	-	138 ⁺¹	10	8	M4	680
	.../1 A	144	70	-	138 ⁺¹	10	8	M4	795

¹ 26 mm with fixing screws

Connection diagrams BIQ / BOQ

