

Basic Series • Square Panel Meter

For Power Factor



DLQB 96

Description

Analog panel meter with core-magnet moving-coil movement and built in power factor converter. The power factor converter determines the phase angle between current and voltage. $\cos \varphi$ is displayed at the moving-coil movement.

Display

Measuring Range CAP 0.5 ... 1 ... 0.5 IND

Scale Division Coarse-fine

Pointer Beam pointer with edge-knife

Mechanical Design

Housing Material Polycarbonate, self-extinguishing and drip-proof per UL94V-0

Mounting Fasteners Screw clamp

Scale Interchangeable scales
⇒ Scales may only be replaced under voltage-free conditions!

Replaceable Front frames and glass windows
⇒ May only be replaced under voltage-free conditions!

Terminals M4 screw terminals with self-lifting terminal clips. Screws can be turned with a cross-head or standard screw drivers

Contact Protection Finger-safe terminal cover included

Moving-coil movement, 90° scale white, imprint black

Narrow front frame matt black per DIN 43 718, anti-glare glass

Front Dimensions mm	96 x 96
Type	DLQB 96
Scale Length mm	97
Accuracy Class*	2.5
Ma.Weight (standard model).	0.32 kg
Max. Operating Voltage	600 V
Test Voltage	3.5 kV
Front Housing-Panel Protection	IP 52

*referred to measuring range

Power Consumption

Connection	Power Consumption
Current Path	≤ 0.5 VA
Voltage Path	≤ 2.5 VA

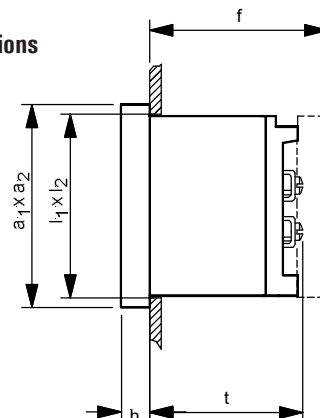
Reference Conditions

Reference Quantities	Reference Conditions
Ambient Temperature	23 °C ± 2 °C
Position of Use	control panel vertical ± 1°
Frequency	50 Hz ± 0.1 Hz
Current Components	95 ... 100 % of rated value
Voltage Components	98 ... 102 % of rated value
Waveshape	sine, distortion factor ≤ 1%
Warm-Up Time	≥ 5 min.
Other	DIN EN 60051

Nominal Range of Use Limits

Frequency	single phase AC 3-wire system	49 Hz ... 51 Hz 45 Hz ... 65 Hz

Basic Dimensions



Front in mm	Nominal Dimensions		Cutout Dimensions, mm $l_1 \times l_2$	Installation Depth Including Terminals (t), mm M4	Installation Depth Including Full Covers (f), mm
	$a_1 \times a_2$	h			
96 x 96	96 x 96	5.5	$92^{+0.8} \times 92^{+0.8}$	53	66

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Range	Scale	Type Order No.	DLQB 96 ↓
400 V, 1 A	0.5 ... 1 ... 0.5 cos ϕ		96051 05300 B
400 V, 5 A	0.5 ... 1 ... 0.5 cos ϕ		96051 05400 B

Schematic Diagram

3-Phase 3-Wire, Balanced Load

