



Electric Automation
Automation specialists

Reference: DPB51CM44

Selected parameters OUTPUT SIGNAL 1 relay SETPOINTS 2, adjustable MONITORED VARIABLE 3-phase AC voltage monitoring Others SIZE 17,5 mm POWER SUPPLY RANGE 208÷480 VAC MONITORING FUNCTION Under and over voltage, phase sequence, phase loss MOUNTING DIN-rail INPUT RANGE 208÷480 VAC DELAY 1, adjustable OTHERS VLN monitoring



[Buy it at Electric Automation Network](#)

Monitoring Relays

True RMS 3-Phase, 3-Phase+N, Multi-function

Type DPB51

- TRMS 3-phase over and under voltage, phase sequence and phase loss monitoring relay
- Detects when all 3 phases are present and have the correct phase sequence
- Detects if all the 3-phase-phase or phase-neutral voltages are within the set limits
- Upper and lower limits separately adjustable
- Measures its own power supply
- Adjustable voltage on relative scale
- Adjustable delay function (0.1 to 30 s)
- Output: 5 A SPDT relay N.E.
- For mounting on DIN-rail in accordance with DIN/EN 50 022
- 17.5 mm DIN-rail housing
- LED indication for relay, alarm and power supply ON

Product Description Ordering Key

DPB 51 C M44

3-phase or 3-phase+neutral line voltage monitoring relay for phase sequence, phase loss, over and under voltage (separately adjustable set points) with built-in time delay function.

Supply ranges from 208 to

480 VAC covered by one multivoltage relay.

17.5 mm wide housing suitable both for back and front panel mounting.

Housing Function Type

Item number

Output

Power supply

Type Selection

Mounting Output Supply: 208 to 480 VAC

DIN-rail SPDT DPB 51 C M44

Input Specifications

Output Specifications

Input

L1, L2, L3, N Terminals L1, L2, L3, N Measures its own supply

Note: Connect the neutral only if it is intrinsically at the star centre

Measuring ranges

208 to 480 Δ VAC 177 to 550 Δ VAC

Ranges

Upper level +2 to +22%

of the nominal voltage

Lower level -22 to -2%

of the nominal voltage

Note: The input voltage

must not exceed the maximum rated voltage or drop below the minimum rated voltage reported above.

Hysteresis

Set points from 2 to 4% 1% Set points from 4 to 22% 2%

Output SPDT relay

Rated insulation voltage 250 VAC

Contact ratings (AgSnO₂) μ

Resistive loads AC 15 A @ 250 VAC DC 12.5 A @ 24 VDC

Small inductive loads AC 15 2.5 A @ 250 VAC DC 13 2.5 A @ 24 VDC

Mechanical life $\geq 30 \times 10^6$ operations

Electrical life $\geq 10^5$ operations

(at 5 A, 250 V, $\cos \phi = 1$)

Operating frequency ≤ 7200 operations/h

Dielectric strength

Dielectric voltage 2 kVAC (rms) Rated impulse withstand volt. 4 kV (1.2/50 μ s)

Specifications are subject to change without notice (03.09.14)1