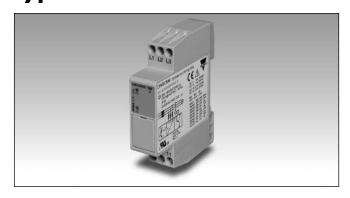
Monitoring Relays 3-Phase Voltage selection Type DPA55





- 3-phase monitoring relay for phase sequence
- Detects if voltage is at the desired level (± 10% or ±15%)
- Measures its own power supply
- Wide power supply range: 208 to 480 VAC (±15%)
- Output: 5 A SPDT relay normally energized
- For mounting on DIN-rail in accordance with DIN/EN 50 022
- 17.5 mm DIN-rail housing (DIN 43880)
- LED indication for relay and power supply ON

Product Description

3-Phase relay for detection of incorrect mains voltage. Also detecting incorrect phase sequence and phase loss. This unit allows to stop incorrect power supply voltage when different from the desired one.

Power supply range from 208

to 480 VAC plus selection of the different possible nominal voltages. For mounting on DIN-rail. Housing 17.5 mm wide suitable both for back and front panel mounting.

Ordering Key	DPA 55 C M44
Housing — — — — — — — — — — — — — — — — — — —	
Output — Power supply — —	

Type Selection

Mounting	Output	Supply: 208 to 480 VAC
DIN-rail	SPDT	DPA 55 C M44

Input Specifications

Input L1, L2, L3	Terminals L1, L2, L3 Measures its own supply
Measuring range	177 to 550 VAC
Hysteresis	< 3V

Supply Specifications

Power supply Rated operational voltage through terminals: L1, L2, L3	Overvoltage cat. III (IEC 60664, IEC 60038) 208 to 480 VAC ± 15%, 45 to 65 Hz
Rated operational power	18 VA @ 400 VAC, 50 Hz Supplied by L1 and L3

Output Specifications

Output	SPDT relay, N.E.
Rated insulation voltage	250 VAC
Contact ratings (AgSnO ₂) Resistive loads AC 1 DC 12 Small inductive loads AC 15 DC 13	μ 5 A @ 250 VAC 5 A @ 24 VDC 2.5 A @ 250 VAC 2.5 A @ 24 VDC
Mechanical life	≥ 30 x 10 ⁶ operations
Electrical life	\geq 10 ⁵ operations (at 5 A, 250 V, cos ϕ = 1)
Operating frequency	≤ 7200 operations/h
Dielectric strength Dielectric voltage Rated impulse withstand volt.	≥ 2 kVAC (rms) 4 kV (1.2/50 µs)



General Specifications

Reaction time Alarm ON delay Alarm OFF delay	< 100 ms < 300 ms	Housing Dimensions Material	17.5 x 81 x 67.2 mm PA66 or Noryl
Accuracy Temperature drift Repeatability	(15 min warm-up time) ± 1000 ppm/°C ± 0.5% on full scale	Weight Screw terminals Tightening torque	Approx. 80 g
Indication for Power supply ON	LED, green	Product standard	acc. to IEC 60947 EN 60255-6
Relay ON Environment Degree of protection	LED, yellow IP 20	Approvals CE Marking	UL, CSA L.V. Directive 2006/95/EC EMC Directive 2004/108/EC
@ Max. voltage, 60 Hz -20 to +50°C, R.H. < 95	2 -20 to +60°C, R.H. < 95% -20 to +50°C, R.H. < 95% -30 to +80°C, R.H. < 95%	EMC Immunity Emissions	According to EN 60255-26 According to EN 61000-6-2 According to EN 60255-26 According to EN 61000-6-3

Mode of Operation

DPA55 monitors its own 3- phase power supply. The relay operates when all the phases are present, the phase sequence is correct and each phase-phase voltage is within the desired tolerance (± 10% or ± 15%).

Example 1

The relay monitors that the power supply is the correct one for the required equipment.

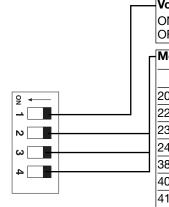
Example 2

The relay releases in case of incorrect phase sequence or when the voltage is outside the set limits.

Range setting

Select the proper nominal voltage level using DIP-switches as shown below.





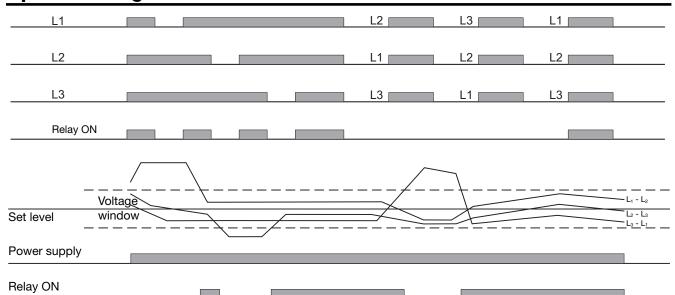
Voltage window ON: ± 15 %

ON: ± 15 % OFF: ± 10 %

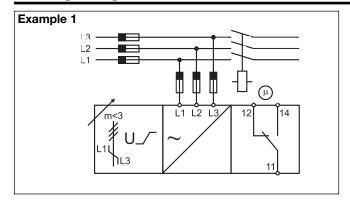
Γ	Measuring	range		
		SW2	SW3	SW4
l	208 VAC	OFF	OFF	OFF
l	220 VAC	OFF	OFF	ON
l	230 VAC	OFF	ON	OFF
l	240 VAC	OFF	ON	ON
	380 VAC	ON	OFF	OFF
	400 VAC	ON	OFF	ON
	415 VAC	ON	ON	OFF
	480 VAC	ON	ON	ON

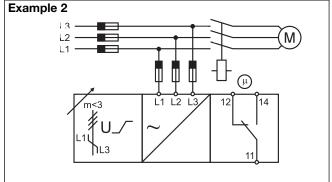


Operation Diagrams

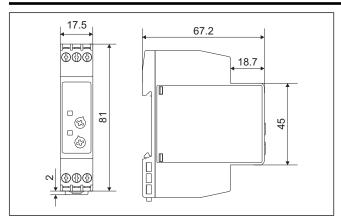


Wiring Diagrams





Dimensions



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