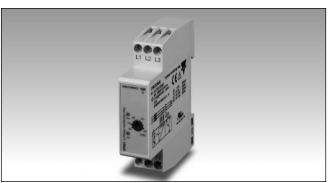
Monitoring Relays 3-Phase Sequence and Phase Loss Type DPA53



Product Description

3-Phase relay for detection of incorrect phase sequence and phase loss.

Using the front knob it can be decided the undervoltage setpoint of the unit.

Supply range from 208 to

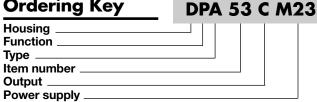
240 VAC and 380 to 480 VAC covered by two multivoltage relays. For mounting on DIN-rail. Housing 17.5 mm wide suitable both for back and front panel mounting.

- 3-phase monitoring relay for phase sequence and phase loss
- · Detects when all phases are present and have the correct sequence

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- Knob-adjustable undevoltage detection
- Measures its own power supply
- Power supply range: 208 to 240 and 380 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

Ordering Key



Type Selection

Mounting	Output	Supply: 208 to 240 VAC	Supp
DIN-rail	SPDT	DPA 53 C M23	DPA

Input Specifications

Input L1, L2, L3		Terminals L1, L2, L3 Measures its own supply
Measuring range		
	M23	160 to 240 VAC
	M48	320 to 480 VAC
Hysteresis	M23	3% on full scale
	M48	4% on full scale

ply: 380 to 480 VAC

53 C M48

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	\geq 30 x 10 ⁶ operations	
Electrical life	$\geq 10^5$ operations (at 5 A, 250 V, cos $\varphi = 1$)	
Operating frequency	≤ 7200 operations/h	
Dielectric strength Dielectric voltage Rated impulse withstand volt.	≥ 2 kVAC (rms) 4 kV (1.2/50 μs)	

Supply Specifications

Power supply Rated operational voltage through terminals:	Overvoltage cat. III (IEC 60664, IEC 60038) L1, L2, L3
M23	208 to 240 VAC ± 15%, 45 to 65 Hz
M48	380 to 480 VAC ± 15%, 45 to 65 Hz
Rated operational power	
M23	7 VA @ 230 VAC, 50 Hz
M48	13 VA @ 400 VAC, 50 Hz Supplied by L1 and L3

General Specifications

Reaction time Alarm ON delay Alarm OFF delay	< 100 ms < 300 ms
Accuracy Temperature drift Repeatability	(15 min warm-up time) ± 1000 ppm/°C ± 0.5% on full scale
Indication for Power supply ON Relay ON	LED, green LED, yellow



General Specifications (cont.)

IP 20
2
-20 to +60°C, R.H. < 95%
-20 to +50°C, R.H. < 95%
-30 to +80°C, R.H. < 95%
17.5 x 81 x 67.2 mm
PA66 or Noryl
Approx. 75 g
Max. 0.5 Nm
acc. to IEC 60947
EN 60947-5-1
UL, CSA
CCC (GB14048.5)
L.V. Directive 2006/95/EC
EMC Directive 2004/108/EC
According to EN 61000-6-2
According to EN 61000-6-3

Mode of Operation

DPA53 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 above the adjusted setpoint. The relay releases when one phase-phase voltage drops below the setpoint or when the phase sequence is incorrect.

Example 1

The relay monitors that the power supply has the correct phase sequence and that all phases are present.

Example 2

The relay releases in case of interruption of one or more phases, provided that the regenerated voltage does not exceed the set voltage.

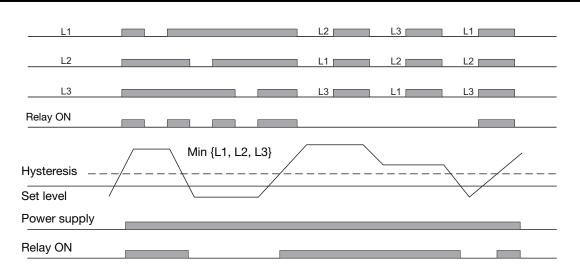
Level setting

Select the proper undervoltage level using the knob according to the phasephase voltage and the needed sensitivity.

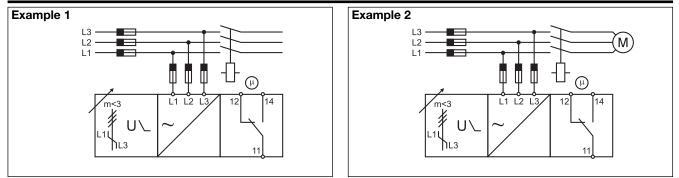
Centre	knoh.
Contract	KIIOD.

Setting of under level on absolute scale.

Operation Diagrams

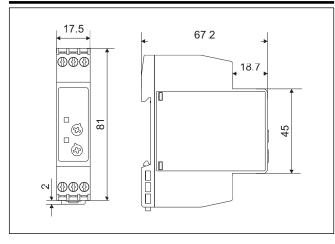


Wiring Diagrams





Dimensions



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