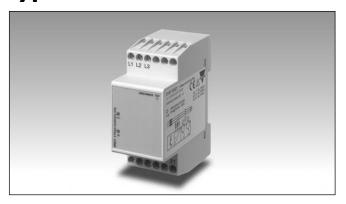
Monitoring Relays 3-Phase Sequence and Phase Loss Type DPA71





- 3-phase monitoring relay for phase sequence and phase loss
- Detects when all phases are present and have the correct sequence
- Measures its own power supply
- Power supply range: 208 to 480 VAC (±15%), by 2 models
- Output: 5 A DPDT relay normally energized
- For mounting on DIN-rail in accordance with DIN/EN 50 022
- 35.5 mm (DPA71) DIN-rail housing (DIN 43880)
- LED indication for relay and power supply ON

Product Description

3-Phase relay for detection of incorrect phase sequence, total and partial phase loss. Supply range from 208 to 480 VAC, covered by 2 models. For mounting on DIN-rail.

Housing 35.5 mm wide, DPDT relay output, suitable for back and front panel mounting. The device detects regenerated voltage up to 85% of the nominal voltage (phase-phase).

Ordering Key	DPA 71 D M48
Housing ————————————————————————————————————	
Item number — Output —	
Power supply	

Type Selection

Mounting	Output	Supply: 208 to 240 VAC	Supply: 380 to 480 VAC
DIN-rail	DPDT	DPA 71 D M23	DPA 71 D M48

Input Specifications

рот ороси		<u> </u>
Input L1, L2, L3		Terminals L1, L2, L3 Measures its own supply
Measuring range 208 to 240 VAC 380 to 480 VAC	(DM23) (DM48)	177 to 275 VAC 323 to 550 VAC
ON-level		> 85% of the phase- phase voltage

Supply Specifications

Power supply Rated operational voltage through terminals: L1, L2, L3	Overvoltage cat. III (IEC 60664, IEC 60038)
DM23	208 to 240 VAC ± 15%, 45 to 65 Hz
DM48	380 to 480 VAC ± 15%, 45 to 65 Hz
Rated operational power	10 VA @ 400 VAC, 50 Hz 6 VA @ 230 VAC, 50 Hz Supplied by L2 and L3

Output Specifications

Output	DPDT relay, N.E.
Rated insulation voltage	250 VAC
Contact ratings (AgSnO ₂) Resistive loads AC 1 Small inductive loads AC 15 DC 13	μ 5 A @ 250 VAC 3 A @ 250 VAC 3 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
Accuracy Temperature drift Repeatability	(15 min warm-up time) ± 1000 ppm/°C ± 0.5%
Indication for Power supply ON Relay ON	LED, green LED, yellow
Environment Degree of protection Pollution degree Operating temperature Storage temperature	IP 20 3 -20 to +50°C, R.H. < 95% -30 to +80°C, R.H. < 95%
Housing Dimensions Material	35.5 x 81 x 67.2 mm PA66 or Noryl

Weight	Approx. 75 g
Screw terminals	
Tightening torque	Max. 0.5 Nm acc. to IEC 60947
Product standard	EN 60255-6
Approvals	UL, CSA
CE Marking	L.V. Directive 2006/95/EC EMC Directive 2004/108/EC
EMC	
Immunity	According to EN 60255-26 According to EN 61000-6-2
Emissions	According to EN 60255-26 According to EN 61000-6-3

Mode of Operation

DPA71 monitors its own 3phase power supply voltage. The relay operates when all the phases are present and the phase sequence is correct. The relay releases when one phase-phase voltage drops below 85% of the other phase-phase voltages or when the phase sequence is wrong.

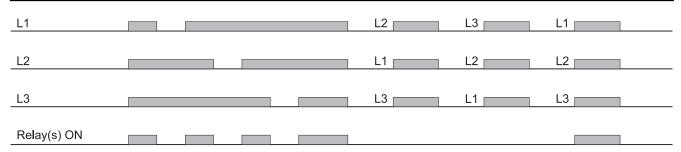
Example 1

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

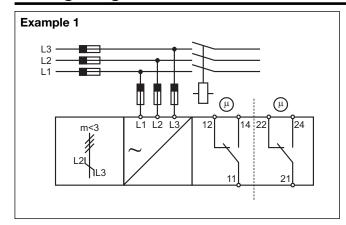
Example 2

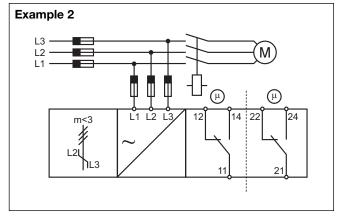
The relay releases in case of interruption of one or more phases, provided that the regenerated voltage does not exceed 85% of the phase-phase voltage.

Operation Diagram



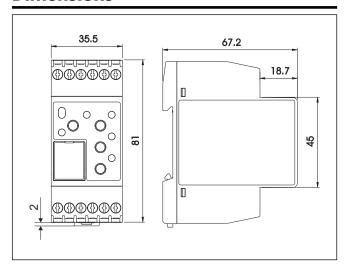
Wiring Diagrams







Dimensions



X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Industrial Relays category:

Click to view products by Carlo Gavazzi manufacturer:

Other Similar products are found below:

6-1617801-8 6-1618107-9 7-1618273-3 EV250-4A-02 EV250-6A-01 FCA-125-CX8 FCA-325-159 FCA-410-138 8000-S3121 8-1618273-6
8-1618393-1 GCA63A220VAC60HZ GCA63A277VAC60HZ GCA63A600VAC60HZ 1-1672275-3 1-1833005-4 H-16/S1 A711Z
ACC530U20 ACC633U30 ACC730U30 DH18DA 1423675-8 AVR907 15732A200 B07B032AC1-0329 B329 B490A 1618279-1
BHR124Y 1810DDB-SX N417 P30C42A12D1-120 2-1617748-6 2-1618396-6 2-1618398-1 JMGACD-5M JMGSC-5LW JMGSCD-5L
PBO-18A1218 PBO-40A3040 K8DSPH1200480VAC KA-3C-12A RT334012WG S160156115 SAH159 2944795 301-17SX 1618105-2
1618112-6