Monitoring Relays 1-Phase Voltage selection Type DUA55





- 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/EC 60715
- 17.5 mm DIN-rail housing (DIN 43880)
- LED indication for relay and power supply ON

Product Description

1-Phase relay for detection of incorrect mains voltage. 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	DUA 55 C M44
Housing	-
Function	
Type	
Item number	
Output	
Power supply	

Type Selection

Mounting	Output	
DIN-rail	SPDT	

Supply: 208 to 480 VAC

DUA 55 C M44

Input Specifications

Input	Terminals A1, A2
L, N	Measures its own supply
Measuring range	177 to 550 VAC

Output Specifications

Output	SPDT relay, N.E.	
Rated insulation voltage	250 VAC	
Contact ratings 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	$\geq 50 \times 10^{3}$ operations (at 8 A, 250 V, cos $\phi = 1$)	
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: A1, A2	Overvoltage cat. III (IEC 60664, IEC 60038) 208 to 480 VAC ± 15%, 45 to 65 Hz
Rated operational power	6 VA @ 230 VAC, 50 Hz

General Specifications

Reaction time Alarm ON delay Alarm OFF delay	< 100 ms < 300 ms	Pollution degree 2 Operating temperature @ Max. voltage, 50 Hz - @ Max. voltage, 60 Hz -	IP 20 2
Accuracy Temperature drift Repeatability	(15 min warm-up time) ± 1000 ppm/°C ± 0.5% on full scale		-20 to +60°C, R.H. < 95% -20 to +50°C, R.H. < 95% -30 to +80°C, R.H. < 95%
dication for Power supply ON LED, green Relay ON LED, yellow	Storage temperature Housing Dimensions Material	17.5 x 81 x 67.2 mm Polyamide (Nylon) or Phenylene ether + Polystyrene	
		Weight	Approx. 80 g



General Specifications (cont.)

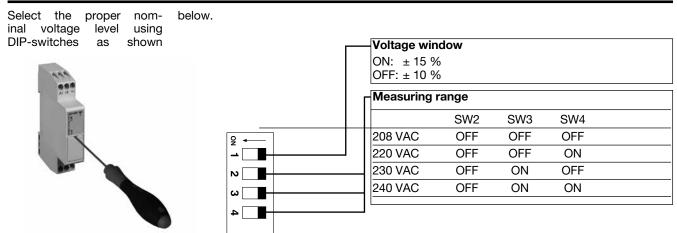
Mode of Operation

Screw terminals	
Tightening torque	Max. 0.5 Nm
0 0 1	acc. to IEC 60947
Product standard	EN 60255-6
Approvals	UL, CSA,
	CCC (GB/T14048.5)
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 FN 61000-6-3

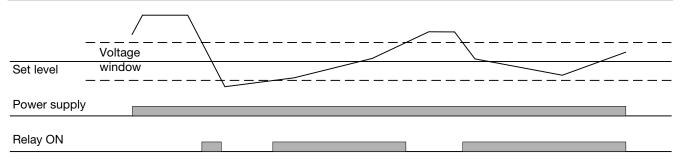
DUA55 monitors its own 1- phase power supply. The relay operates when the monitored voltage is within the desired tolerance (\pm 10% or \pm 15%).

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

Range setting

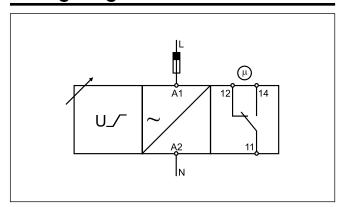


Operation Diagram





Wiring Diagram



Dimensions

