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Single function phase control relay - 17.5 mm MWS2 Part number 84873021



- Control of 3-phase networks: phase sequence, total phase failure
- Multi-voltage from 3 x 208 to 3 x 480 V AC
- Controls its own supply voltage
- True RMS measurement
- LED status indication

84873020 MWS Phase sequence and failure 3 x 208? 3 x 480 V AC 1 single pole changeover relay	T	Гуре	Function	Nominal voltage (V)	Output
2 v 2002 2 v 440 V AC	84873020 M	//WS	Phase sequence and failure	3 x 208? 3 x 480 V AC	1 single pole changeover relay
64673021 NVV52 Phase sequence and failure 3 x 2067 3 x 440 v AC 2 single pole changeover relay	84873021 M	/IWS2	Phase sequence and failure	3 x 208? 3 x 440 V AC	2 single pole changeover relay

1) 0				
84873020 MWS	Phase sequence and failure		3 x 208? 3 x 480 V AC	1 single pole changeover relay
84873021 MWS2	Phase sequence and failure		3 x 208? 3 x 440 V AC	2 single pole changeover relay
Supply				
Voltage supply tolerance		-12% / +10%		
AC supply voltage frequency		50 / 60 Hz? 10%		
Galvanic isolation of power supply/measurement		No		
Power consumption at Un		1.8 VA in AC		
Immunity from micro power cuts		60 ms		
Inputs and measuring circuit				
Guaranteed phase failure detection threshold		< 100 V AC		
Frequency of measured signal		50? 60 Hz? 10%		

Timing	
Delay on pick-up	500 ms
Alarm on delay time max.	100 ms

Output

Type of contacts	No cadmium
Maximum breaking voltage	250 V AC /?
Max. breaking current	5 A AC/?
Min. breaking current	10 mA / 5 V?
Electrical life (number of operations)	1×10^5 MWS? 1×10^4 MWS2
Breaking capacity (resistive)	1250 VA AC
Maximum rate	360 operations/hour at full load
Operating categories acc. to IEC/EN 60947-5-1	AC12, AC13, AC14, AC15, DC12, DC13
Mechanical life (operations)	30 x 10 ⁶

Insulation

Nominal insulation voltage IEC/EN 60664-1	400 V
Insulation coordination (IEC/EN 60664-1)	Overvoltage category III: degree of pollution 3
Rated impulse withstand voltage (IEC/EN 60664-1)	4 kV (1,2 / 50? s)
Dielectric strength (IEC/EN 60664-1)	2 kV AC 50 Hz 1 min.
Insulation resistance (IEC/EN 60664-1)	> 500 M? / 500 V?

General characteristics

Output relay status indication	Yellow LED
Casing	17,5 mm
Mounting	On 35 mm symmetrical DIN rail, IEC/EN 60715
Mounting position	All positions
Material: enclosure plastic type VO to UL94 standard	Incandescent wire test according to IEC 60695-2-11 & NF EN 60695-2-11
Protection (IEC/EN 60529)	Terminal block: IP20? Casing: IP30
Connecting capacity IEC/EN 60947-1	Rigid: 1 x 4 ² - 2 x 2.5 ² mm ² ? 1 x 11 AWG - 2 x 14 AWG? Flexible with ferrules: 1 x 2.5 ² - 2 x 1.5 ² mm ² ? 1 x 14 AWG - 2 x 16 AWG
Max. tightening torques IEC/EN 60947-1	0,6? 1 Nm / 5,3? 8,8 Lbf.In
Operating temperature IEC/EN 60068-2	-20? +50? C
Storage temperature IEC/EN 60068-2	-40? +70? C
Humidity IEC/EN 60068-2-30	2 x 24 hr cycle 95% RH max. without condensation 55? C
Vibrations according to IEC/EN60068-2-6	10? 150 Hz, A = 0.035 mm
Shocks IEC/EN 60068-2-6	5 g

Standards

Standards	IECI/EN 50178, IEC/EN 61000-6-2, IEC/EN 61000-6-3
Certifications	CE, UL, CSA, GL
Conformity with environmental directives	RoHS, WEEE

Supply

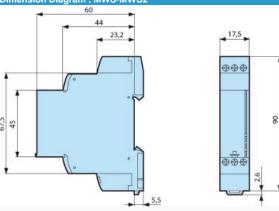
Supply voltage Un	3 x 208? 3 x 440 V AC *	
Operating range	183? 484 V AC	
Inputs and measuring circuit		

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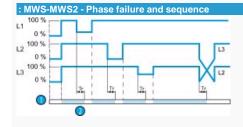
183? 484 V AC **General characteristics** 85 g Comments * 3-phase mains with earth

Description Code Removable sealable cover for 17.5 mm casing 84800000

Dimension Diagram : MWS-MWS2



3-phase network control relays monitor the sequence of phases L1, L2, L3 and failure of one or more phases. LEDs are used for signalling.



The relay monitors its own supply voltage.

The relay controls:

: MWS2

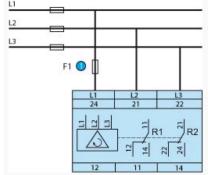
- correct sequencing of the three phases,
- total failure of one of the three phases.

When the phase sequence and voltages are correct (> 183 VAC), the output relay (s) are closed and the yellow LED is lit.

In the event of a phase sequence or total phase failure fault (detected when one of the voltages drops below 100 V), the relay opens instantly and its LED is extinguished.

When the unit is powered up with a measured fault, the relay stays open.

MWS: Relay R? MWS2: Relays R1/R2 1 2 Response time on appearance of a fault (Tr) 02/03/2012 www.crouzet.com



No

Legend

100 mA fast-blow fuse

Special adaptations

Customisable colours and labels