

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



# Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China









# **V SERIES** PHASE CONTROL RELAY

UL cUL listed CSA recognized

## Monitors and Protects Against

Phase Loss of One or More Phases Phase Reversal Undervoltage

### Rugged Construction for Over Voltage and Transient Protection



#### **GENERAL FEATURES:**

The unit has two front dial settings. The upper dial is used for the three phase nominal voltage settings that exists in the application. The lower dial setting is for an adjustable time delay to prevent nuisance tripping of the unit. The FW has a space saving 45mm wide DIN-rail mount/surface mount enclosure and LED power-on and relay status indication.

#### SPECIFICATIONS:

Model No.	84873010	84873011	84873015	84873016
Input Power	3 x 230VAC	3 x 380VAC	3 x 480VAC	3 x 600VAC
Threshold Adjustment	184 - 264VAC	310 - 337VAC	384 - 552VAC	460 - 661VAC
Maximum Voltage	264VAC	337VAC	552VAC	661VAC
Minimum Voltage	184VAC	304VAC	384VAC	460VAC
Frequency	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz

Max. Power Consumption . . . . . . . . . . 6 VA [Powered from L1 & L2]

Immunity from micro power cuts ...... 10 ms Delay on pick-up Isolation coordination ...... Category III

Degree of pollution 2 acc. to IEC 664-1 VDE 0110: 4 KV/2

Measurement input resistance . . . . . . . 1  $k\Omega$  x input power 

Threshold display accuracy . . . . . . . . ±10%

 
Output relay
DPDT (Ag CdO)

Breaking capacity
2000 VA/AC 80 2000 VÀ/ĂC 80 W/DC

Maximum breaking current . . . . . . . . 8 A Minimum breaking current . . . . . . . . . . . 100 mA

Electrical Life ..... AC12: 2000 VA -10<sup>5</sup> operations

AC15:  $\cos \varphi = 0.3$  -6000 operations DC13: L/R = 300 ms -6000 operations 5 x 10<sup>5</sup> operations

Mechanical Life 

**Display** Voltage presense ..... green LED

Relay . . . . . yellow LED Casing ..... Self-extinguishing Terminals Without ferrule ...... 2 x 2.5mm<sup>2</sup> With ferrule . . . . . . . . 2 x 1.5mm²

Tightening . . . . . . . . . 0.6 mN max. Use . . . . . . . . . . . -20°C to +60°C Temperature Stored . . . . . . . . . . -30°C to +70°C

Relative humidity ...... 93% without condensation

Vibration Amplitude . . . . . . . . . . 0.35mm **Frequency** ..... 10 - 55 Hz Isolation resistance  $\dots > 100 \text{ m}\Omega$  at 500 VDielectric strength . . . . . . . . . 3 kV at 1 mA for

1 minute / 50 Hz

#### **ORDERING INFORMATION:**

**Voltage** Part Number 3 x 230 VAC 84873010 3 x 380 VAC 84873011 3 x 480 VAC 84873015 3 x 600 VAC 84873016

#### **OPERATING PRINCIPLE:**

In a 3-phase network, the FW simultaneously monitors phase sequencing, loss of phase with a maximum regeneration rate of 70% of the displayed by a potentiometer on the front face, and the voltage drop on the 3 phases of less than 15% of the preset value. When the 3 phases suceed one another, the output relay is activated and indicated via a yellow LED. The output relay de-energizes (LED off) after a time delay T, adjustable between 0.2 and 10 seconds on the front face, if one of the following faults is present:

- reversed direction of phase rotation
- absence of one or more phases
- voltage drop

#### **CONFORMITY:**

#### Immunity to interference and noise (EMC)

IEC 1000.4.5 Surge immunity: Level 3

IEC 1000.4.2 Electrostatic discharges: Level 3

IEC 255.5 Damped oscillated waves: Level 3

IEC 1000.4.3 Radiated disturbance Level 3

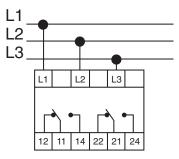
IEC 1000.4.4 Fast transient Level 3

IEC 1000.4.6 Conducted RF: Level 3 (ENV 50141)

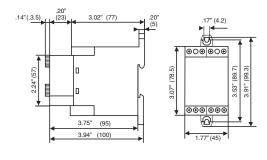
#### RF Emissions (EMC)

CENELAC EN 55022; Class A

#### WIRING:



#### **DIMENSIONS:** Inches (mm)



Products and specifications subject to change without notice. Consult factory for application assistance.