

## TECHNICAL DATA SHEET

# PHASE FAILURE RELAY- D1 HLS1



### Supply Voltage

**System Supply** : 100-110-120/220-230-240/380-415-440V AC+20,-25%,  
48-63 Hz, Selectable by Front Knob  
**Auxiliary Supply** : Built In

### Trip Setting (Volts)

**Phase Sequence** : Yes  
**Phase Unbalance** : 10% (Fixed)

**Under Voltage** : For 380-440V AC- 75% of system supply (Fixed)  
For 220-240V AC- 75% of system supply (Fixed)  
For 100-110 V AC- 75% of system supply (Fixed)

**Over Voltage** : For 380-440V AC-120% of system supply (Fixed)  
For 220-240V AC-120% of system supply (Fixed)  
For 100-120V AC-120% of system supply (Fixed)

### Trip Time Delay

**On Phase Failure/ Unbalance** : 3.5 secs.  $\pm$  1.5 sec  
**On UV/ OV** : Less than 2 secs.

**Resetting Mode** : Auto

**Output Contacts** : 2 CO

### Dimensions (mm)

**Over All (LXWXD)** : 76 x 30.5 x 117.5  
**Mounting (L x W)** : 68 centre to centre / 35 mm rail Mounting

Wherever not specified

Contact Rating: 5A @ 230 V AC (resistive) \* CE marked products available on request.

## Minilec India Pvt. Ltd.

S.No. 1073/1-2-3, At Post : Pirangoot, Tal : Mulshi, Dist : Pune (India), Pin : 412 111  
Tel : (020) 22922162 / 22922354-57. Fax : (020) 22922134 or (020) 25432349 / 25431573.  
Website : <http://www.minilecgroup.com> E-Mail : [mkt1@minilecgroup.com](mailto:mkt1@minilecgroup.com)