SYCON-21XX

Order code	Current Range
SYCON 2100	2A To 5A
SYCON 2120	5A To 12A
SYCON 2130	12A To 30A

Protection Relay

Electric motors are a crucial components in virtually every industrial automation application or environment. Therefore optimizing their performance and reliability can play a major role in reducing costs and improving overall plant efficiency. Electric motors fail and about half of them fail because of overheating through overload, phase failure or insulation breakdown. There are wide ranges of motors and motor characteristics in existence, because of numerous duties for which they are used and all of them need protection. Fortunately, the more fundamental problems affecting the

choice of protection are independent of the type of motor and the type of load to which it is connected. Motor characteristics must be carefully considered when applying for protection. It is emphasized because it applies more to the motor than other items of power system plant. Protection of motor exists in any form, a variety of designs either packaged individually or in different combinations. The fundamental and basic aim should be to permit the motor to operate up to, but not to exceed its thermal and mechanical limits for overloads and abnormal operating conditions and to provide maximum sensitivity to faults.

Features

- As a special feature the relay can be used to motor having forward & reveres operations giving the protections except incorrect phase sequences.
- Advance microcontroller technology.
- Overload protection with inverse time characteristics.
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- **Protection Against:**
- Over Load
- Unbalance protection.
- Phase unbalance.
- Incorrect phase sequence.
- Ultra compact size.
- Visual indication of S.P.P. & overload.
- Settable overload current & time.

Technical Specification

Over current Setting	2A to 5A continuously adjustable
Inverse time characteristics	Selectable thermal characteristic curve. 2 to 10 sec continuously adjustable
Unbalance Current	50% Unbalance, Tripping time: 3 Sec., Inverse characteristics unbalance
Single phase (phase failure) Tripping time	3 Sec
Reverse phase Tripping time	3 Sec

Electrical Specification

CT Input	/5, 15VA
Auxiliary supply	440V Ac
AC burden	10 VA at rated current
Relay output	10 amp at 250 V

Mechanical Specification

Mounting	Wall mounting / 35mm Din-rail/Panel
Size	70 X 60 X 110 (W X H X D)
Weight	450gm

Wiring Diagram