



TECHNICAL INFORMATION

TITLE: MPU-16A IEEE DEVICE NUMBERS

The following IEEE device numbers (ANSI C37.2-1970) and functions for switchgear apply to the MPU-16A motor protection unit.

- 37 — **Undercurrent or underpower relay** functions when the current or power flow decreases below a predetermined value.
- 38 — **Bearing protective device** functions on excessive bearing temperature, or on other abnormal mechanical conditions, such as undue wear, which may eventually result in excessive bearing temperature.
- 46 — **Reverse-phase, or phase-balance, current relay** is a relay which functions when the polyphase currents are of reverse-phase sequence, or when the polyphase currents are unbalanced or contain negative phase-sequence components above a given amount.
- 48 — **Incomplete sequence relay** is a relay that generally returns the equipment to the normal, or off, position and locks it out if the normal starting, operating or stopped sequence is not properly completed within a predetermined time. If the device is used for alarm purposes only, it should preferably be designated as 48A (alarm).
- 49 — **Machine, or transformer, thermal relay** is a relay that functions when the temperature of a machine armature, or other load carrying winding or element of a machine, or the temperature of a power rectifier or power transformer (including a power rectifier transformer) exceeds a predetermined value.
- 50 — **Instantaneous overcurrent, or rate-of-rise relay** is a relay that functions instantaneously on an excessive value of current, or on an excessive rate of current rise, thus indicating a fault in the apparatus of circuit being protected.
- 50G — **Instantaneous overcurrent, or rate-of-rise relay** is a relay that functions instantaneously on an excessive value of current, or on an excessive rate of current rise, thus indicating a fault in the apparatus of circuit being protected.
- 51 — **Ac time overcurrent relay** is a relay with either a definite or inverse time characteristic that functions when the current in an ac circuit exceeds a predetermined value.

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- 51G** — **Ac time overcurrent relay** is a relay with either a definite or inverse time characteristic that functions when the current in an ac circuit exceeds a predetermined value.
- 74** — **Alarm relay** is a device other than an annunciator, as covered under device No. 30, which is used to operate, or to operate in connection with, a visual or audible alarm.
- 86** — **Locking-out relay** is an electrically operated hand, or electrically, reset relay that functions to shut down and hold an equipment out of service on the occurrence of abnormal conditions.

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