ANSI/IEEE Standard Device Numbers

In North America protective relays are generally referred to by standard device numbers. Letters are sometimes added to specify the application (IEEE Standard C37.2-2008).

**Device Numbers (the more commonly used ones are in bold)**

1 - Master Element
2 - Time Delay Starting or Closing Relay
3 - Checking or Interlocking Relay
4 - Master Contactor
5 - Stopping Device
6 - Starting Circuit Breaker
7 – Rate of Change Relay
8 - Control Power Disconnecting Device
9 - Reversing Device
10 - Unit Sequence Switch
11 – Multifunction Device
12 - Overspeed Device
13 - Synchronous-speed Device
14 - Underspeed Device
15 - Speed or Frequency-Matching Device
16 – Data Communications Device
20 - Elect. operated valve (solenoid valve)

**21 - Distance Relay**

23 - Temperature Control Device
24 – Volts per Hertz Relay

**25 - Synchronizing or Synchronism-Check Device**

26 - Apparatus Thermal Device

**27 - Undervoltage Relay**

30 - Annunciator Relay

**32 - Directional Power Relay**

36 - Polarity or Polarizing Voltage Devices
37 - Undercurrent or Underpower Relay
38 - Bearing Protective Device
39 - Mechanical Condition Monitor

**40 – Field (over/under excitation) Relay**

41 - Field Circuit Breaker
42 - Running Circuit Breaker
43 - Manual Transfer or Selector Device
46 – Rev. phase or Phase-Bal. Current Relay
47 - Phase-Seq. or Phase-Bal. Voltage Relay
48 - Incomplete-Sequence Relay
49 - Machine or Transformer Thermal Relay

**50 - Instantaneous Overcurrent**

51 - AC Inverse Time Overcurrent Relay
52 - AC Circuit Breaker

53 – Field Excitation Relay
55 - Power Factor Relay
56 - Field Application Relay

**59 - Overvoltage Relay**

60 - Voltage or Current Balance Relay
62 - Time-Delay Stopping or Opening Relay
63 - Pressure Switch

64 - Ground Detector Relay
65 - Governor

66 – Notching or jogging device

**67 - AC Directional Overcurrent Relay**

68 - Blocking or “out of step” Relay
69 - Permissive Control Device

74 - Alarm Relay
75 - Position Changing Mechanism
76 - DC Overcurrent Relay
78 - Phase-Angle Measuring Relay
79 - AC-Reclosing Relay

81 - Frequency Relay

83 - Automatic Selective Control or Transfer Relay

84 - Operating Mechanism
85 – Pilot Communications, Carrier or Pilot-Wire Relay

86 - Lockout Relay

**87 - Differential Protective Relay**

89 - Line Switch
90 - Regulating Device
91 - Voltage Directional Relay

92 - Voltage and Power Directional Relay

94 - Tripping or Trip-Free Relay

Suffixes indicating zone of protection

B –Bus
G – Ground or generator
L—Line
N –Neutral
T – Transformer
U—Unit