

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	53 - Field Excitation Relay
2 - Time Delay Starting or Closing Relay	55 - Power Factor Relay
3 - Checking or Interlocking Relay	56 - Field Application Relay
4 - Master Contactor	59 - Overvoltage Relay
5 - Stopping Device	60 - Voltage or Current Balance Relay
6 - Starting Circuit Breaker	62 - Time-Delay Stopping or Opening Relay
7 - Rate of Change Relay	63 - Pressure Switch
8 - Control Power Disconnecting Device	64 - Ground Detector Relay
9 - Reversing Device	65 - Governor
10 - Unit Sequence Switch	66 - Notching or jogging device
11 - Multifunction Device	67 - AC Directional Overcurrent Relay
12 - Overspeed Device	68 - Blocking or "out of step" Relay
13 - Synchronous-speed Device	69 - Permissive Control Device
14 - Underspeed Device	74 - Alarm Relay
15 - Speed or Frequency-Matching Device	75 - Position Changing Mechanism
16 - Data Communications Device	76 - DC Overcurrent Relay
20 - Elect. operated valve (solenoid valve)	78 - Phase-Angle Measuring Relay
21 - Distance Relay	79 - AC-Reclosing Relay
23 - Temperature Control Device	81 - Frequency Relay
24 - Volts per Hertz Relay	83 - Automatic Selective Control or Transfer Relay
25 - Synchronizing or Synchronism-Check Device	84 - Operating Mechanism
26 - Apparatus Thermal Device	85 - Pilot Communications, Carrier or Pilot-Wire Relay
27 - Undervoltage Relay	86 - Lockout Relay
30 - Annunciator Relay	87 - Differential Protective Relay
32 - Directional Power Relay	89 - Line Switch
36 - Polarity or Polarizing Voltage Devices	90 - Regulating Device
37 - Undercurrent or Underpower Relay	91 - Voltage Directional Relay
38 - Bearing Protective Device	92 - Voltage and Power Directional Relay
39 - Mechanical Condition Monitor	94 - Tripping or Trip-Free Relay
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	

Suffixes indicating zone of protection

B - Bus

G - Ground or generator

L - Line

N - Neutral

T - Transformer

U - Unit