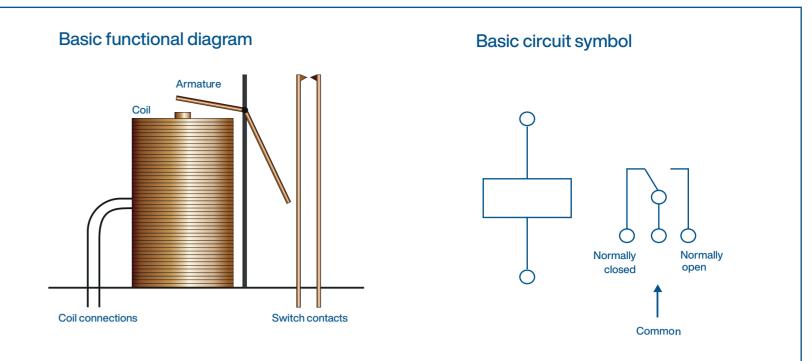
## **Relays Reference Guide**

## Relays

Relays are electrically operated switches. A low-voltage, low-current control signal is used to operate a set of contacts that quickly and safely switch larger voltages and currents. Traditionally, the control signal energises an electromagnet to open or close the contacts. Solid-state relays using semiconductor technology for the control and switching functions are also available.



## **Basic relay contact forms**

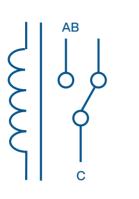


**SPST** 

Single-Pole Single-Throw

NO: Normally open ("make") NC: Normally closed ("break")

Two terminals which can be connected or disconnected.



SPDT

Single-Pole Double-Throw

CO: Change-Over ("break before make")

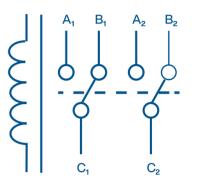
A common terminal connects to either of two others, never connecting to both at the



DPST

Double-Pole Single-Throw

Equivalent to a pair of SPST switches or relays actuated by a single coil.



DPDT

Double-Pole Double-Throw

Equivalent to two SPDT switches or relays actuated by a single coil

Same ume.	

