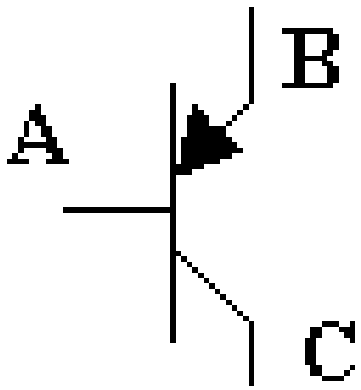
Quiz 1 Review

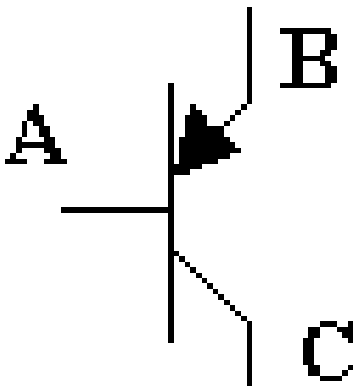


Name:_____

A:_____

B:_____

C:_____

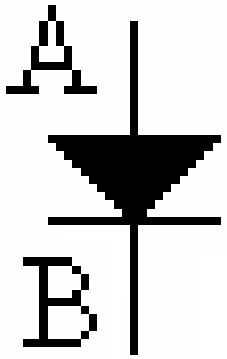


Name: **PNP Transistor**

A: **Base**

B: **Emitter**

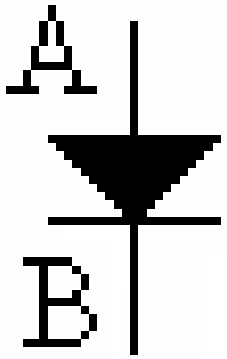
C:**Collector**



Name:_____

A:_____

B:_____



Name: **Diode**

A: **Anode**

B: **Cathode**

How is a Thyristor different than a Transistor?

How is it started?

Does it limit the current flow when on?

When does it turn off?

How is a Thyristor different than a Transistor?

A Thyristor has 2 operation states Blocking and Conduction.

How is it started?

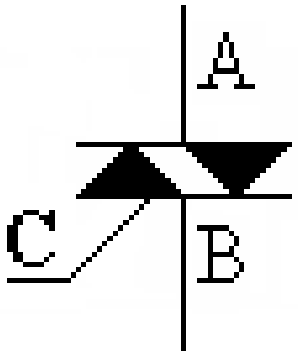
Applying Proper Gate Voltage with a proper voltage Drop

Does it limit the current flow when on?

No

When does it turn off?

When the current drops below the Holding Current

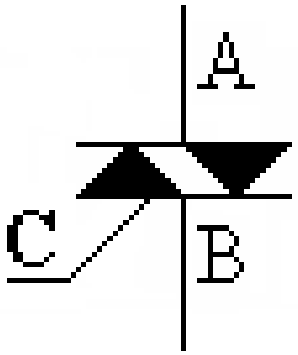


Name:_____

A:_____

B:_____

C:_____

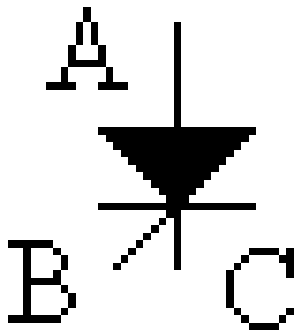


Name: **TRIAC**

A: **MT2**

B: **MT1**

C: **Gate**

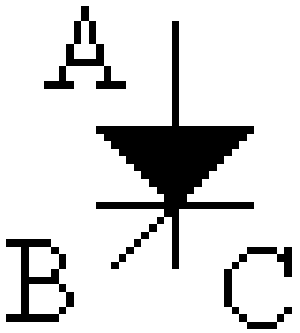


Name:_____

A:_____

B:_____

C:_____



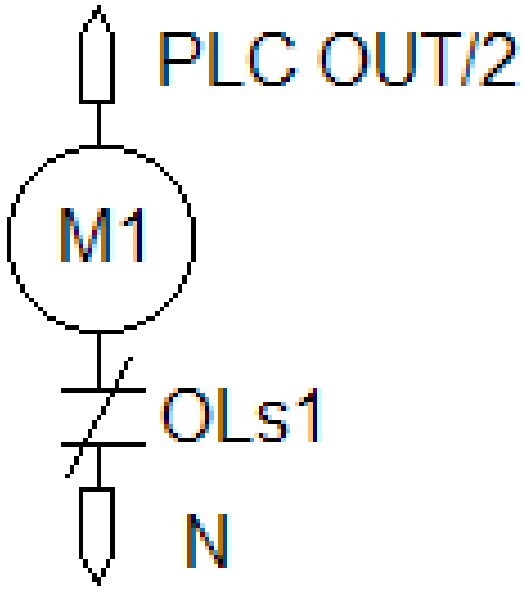
Name: **SCR**

A: **Anode**

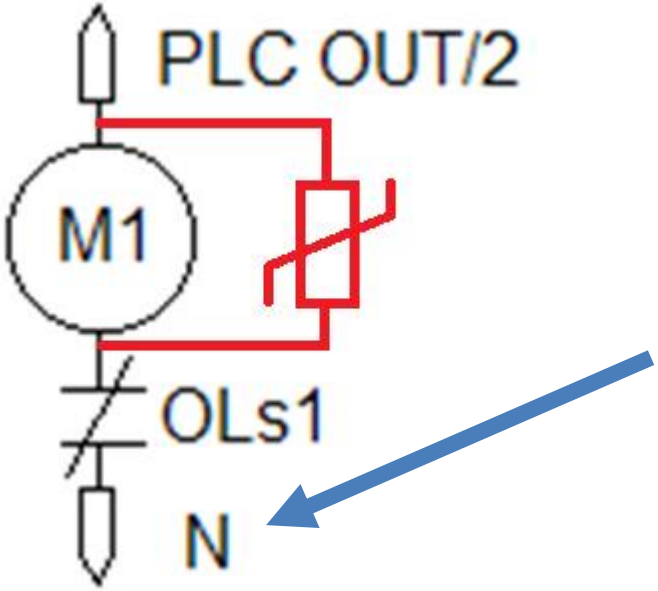
B: **Gate**

C: **Cathode**

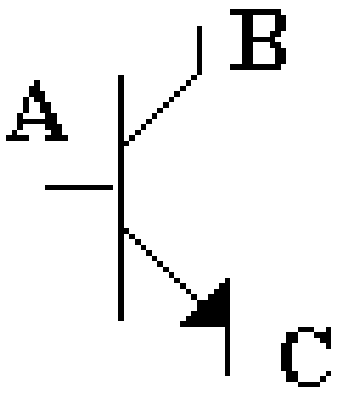
Sketch the protective device that would reduce the inductive kick produced by the coil when it is turned off.



Sketch the protective device that would reduce the inductive kick produced by the coil when it is turned off.



Hint: The Coil goes to Neutral, this is an AC Output so and MOV is used.

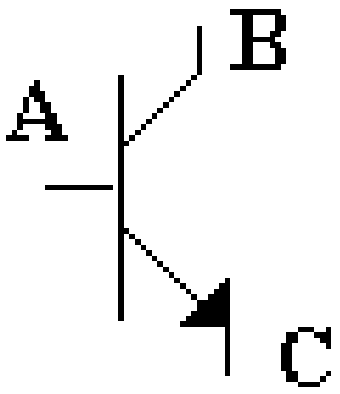


Name:_____

A:_____

B:_____

C:_____



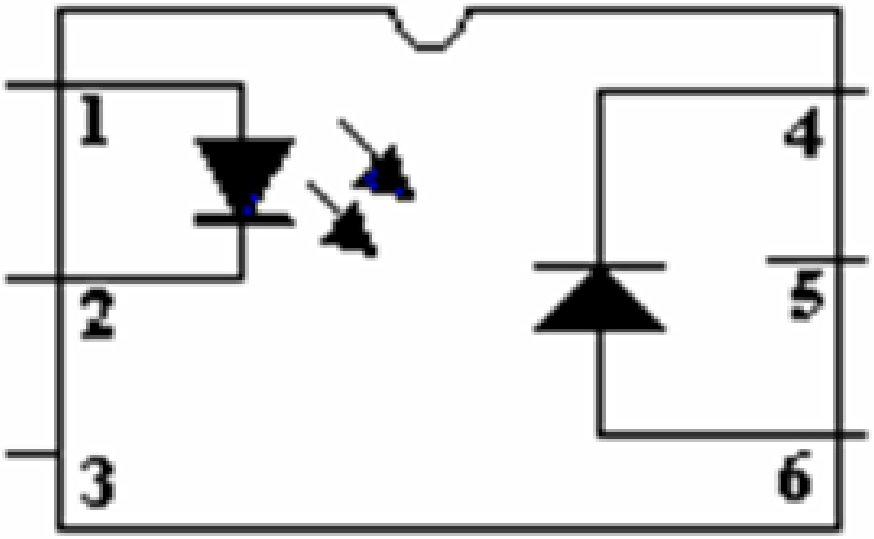
Name: **NPN Transistor**

A: **Base**

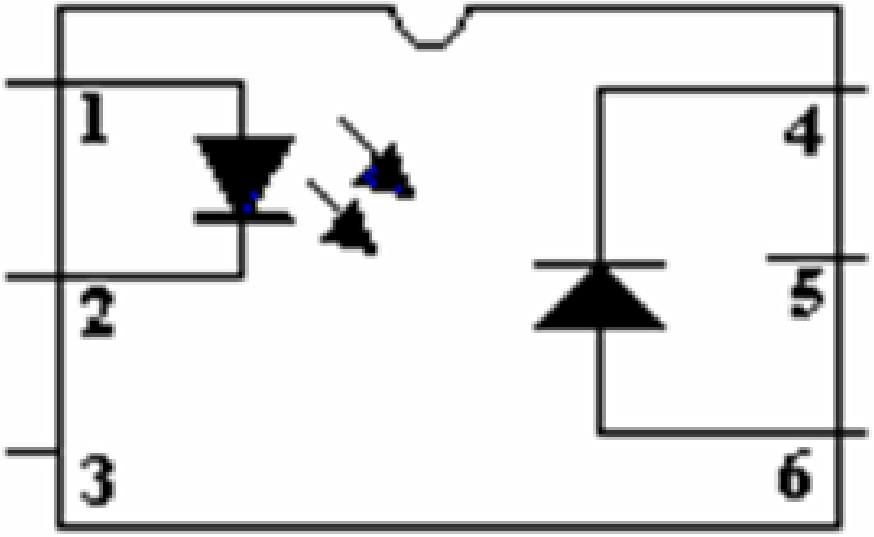
B: **Collector**

C: **Emitter**

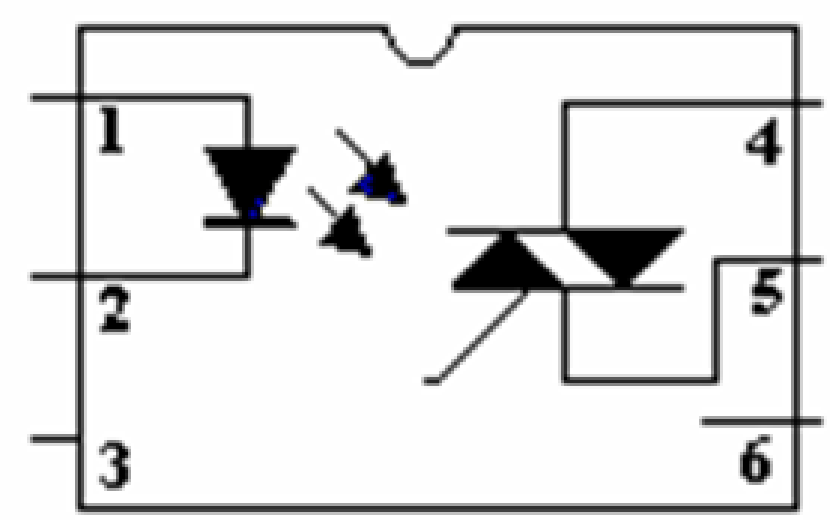
Name:_____



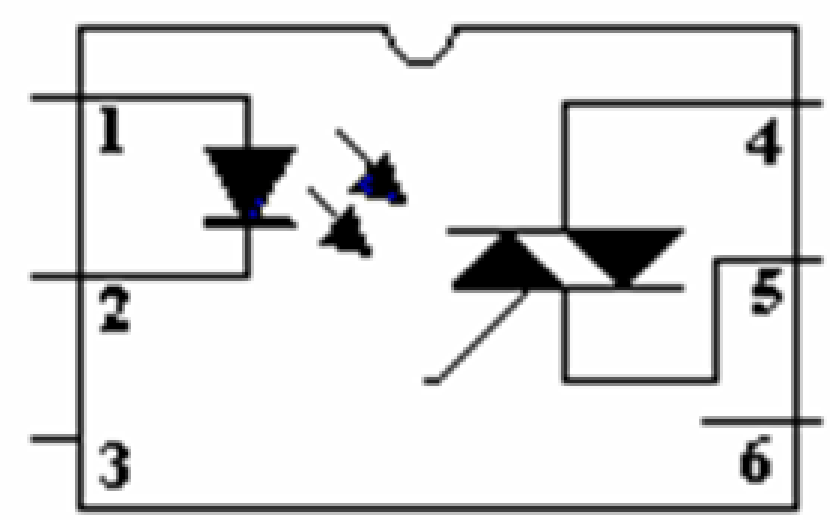
Name: **Opto-Diode**



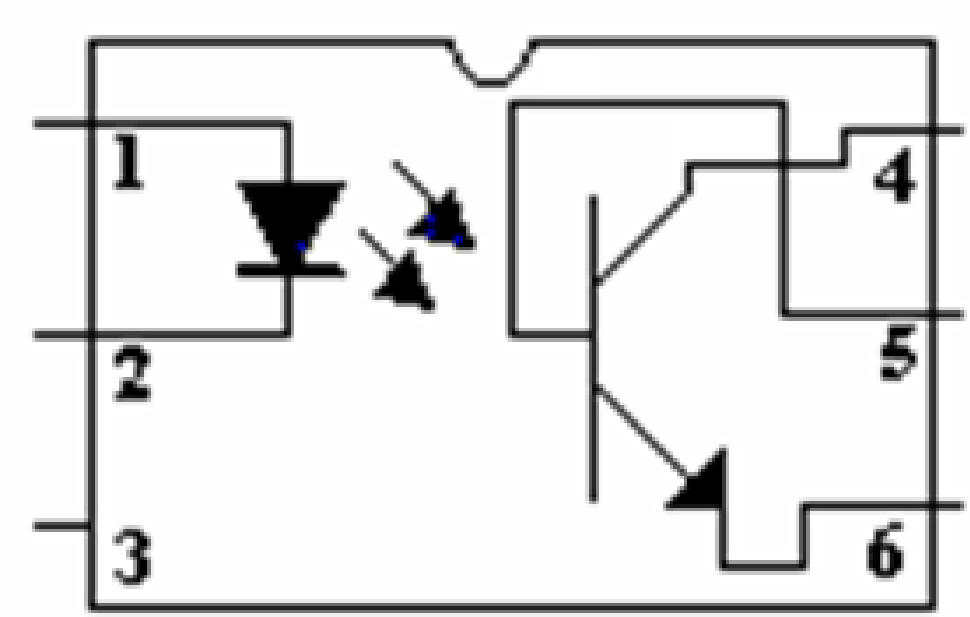
Name:_____



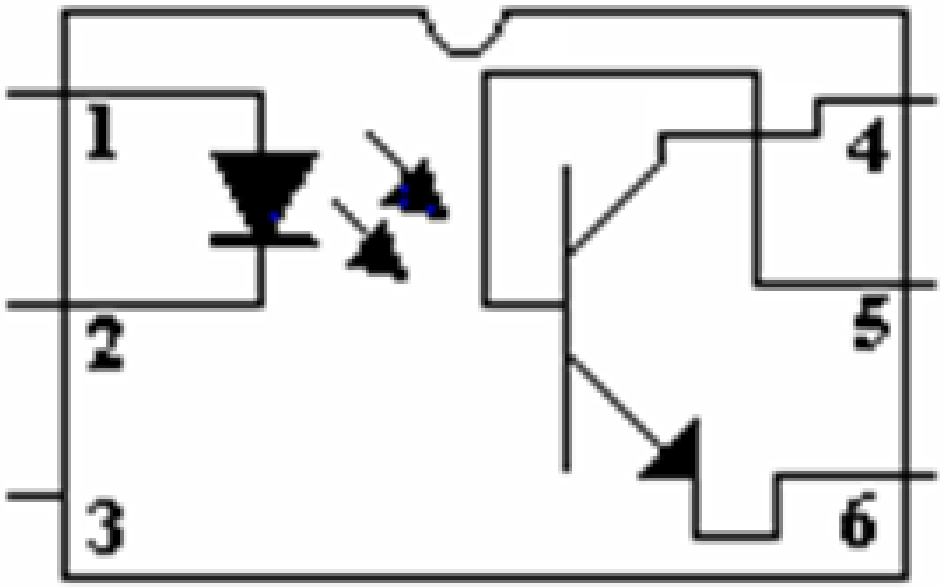
Name: **Opto-TRIAC**



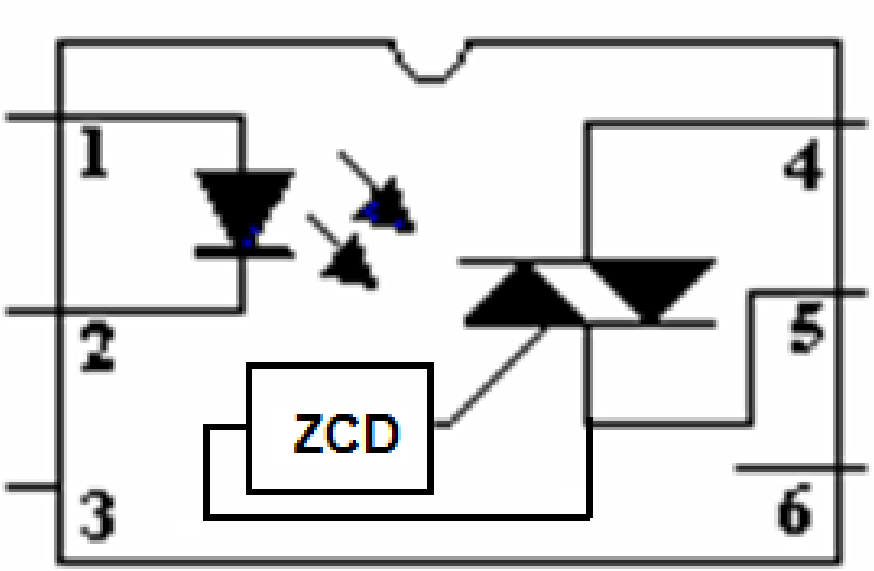
Name:_____



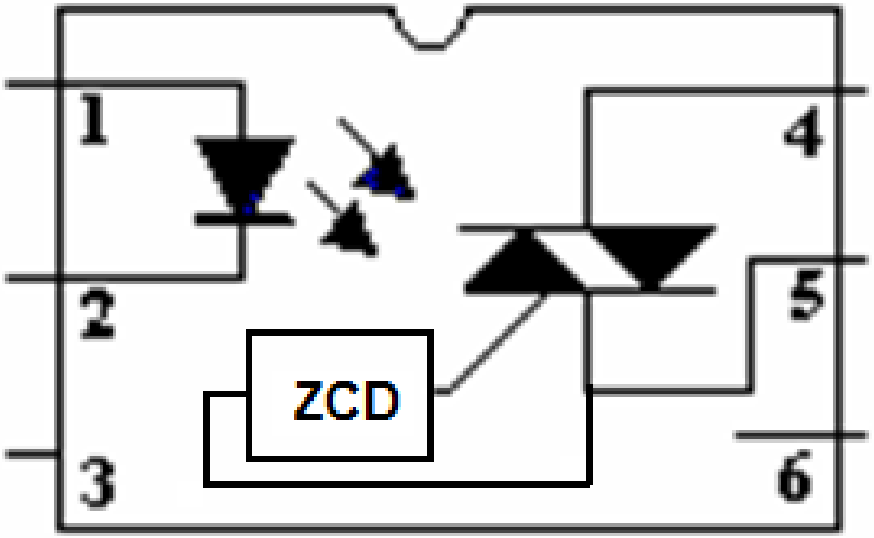
Name: **Opto-Transistor**



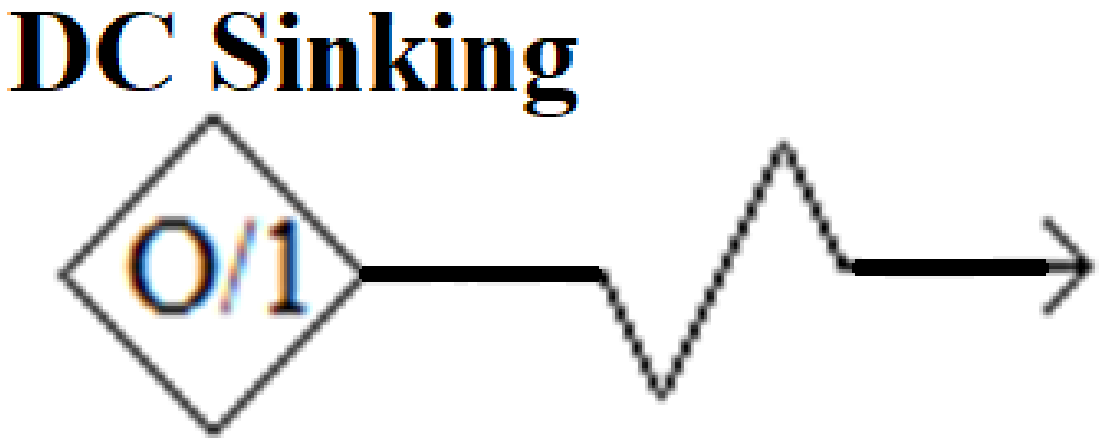
Name: _____



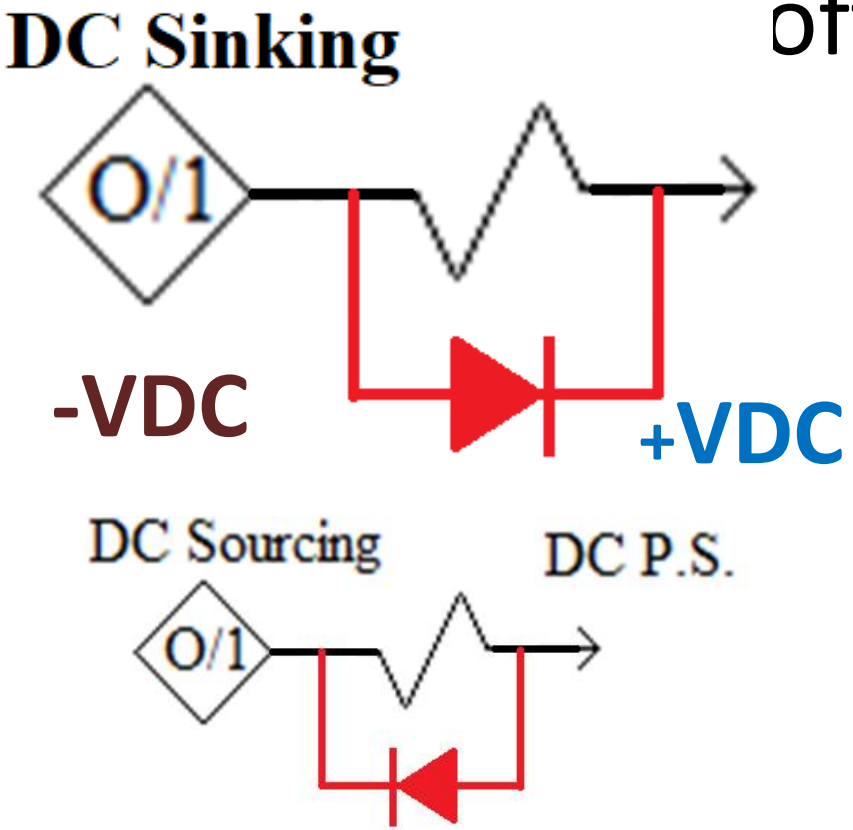
Name: **Opto-TRIAC w/ ZCD**



Sketch the protective device that would reduce the inductive kick produced by the coil when it is turned off.

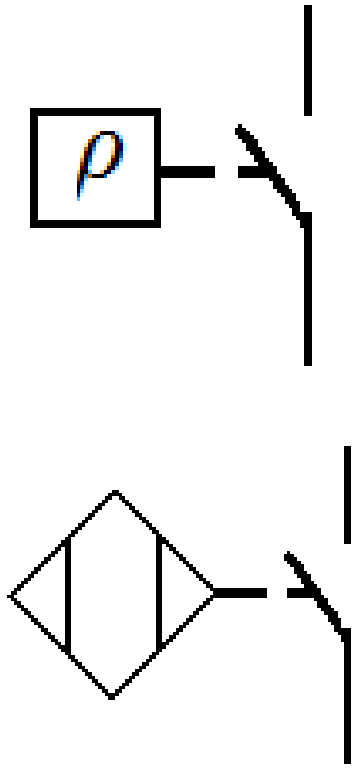


Sketch the protective device that would reduce the inductive kick produced by the coil when it is turned off.

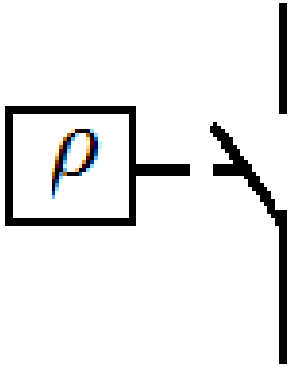


DC Sinking Input means that the Input Provides the –VDC, The other DC Connection must be +VDC.

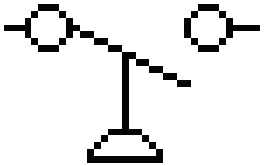
What are these symbols, what are the contact conditions and show the NEMA symbols

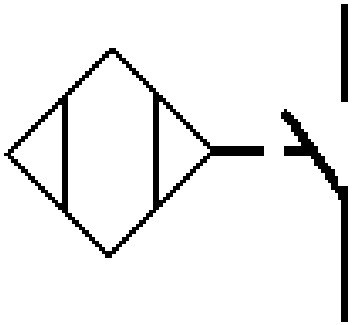


What are these symbols, what are the contact conditions and show the NEMA symbols

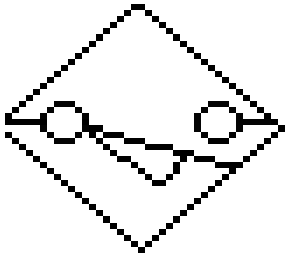


NO Pressure Switch

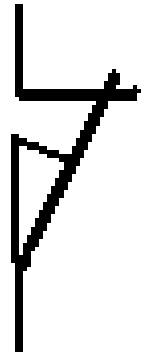


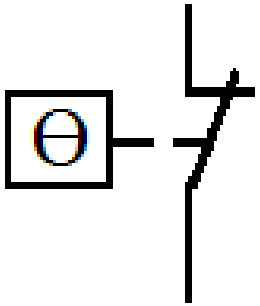


NO Inductive Prox

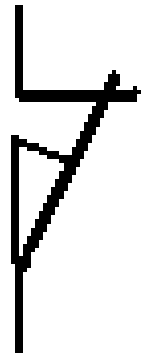


What are these symbols, what are the contact conditions and show the NEMA symbols

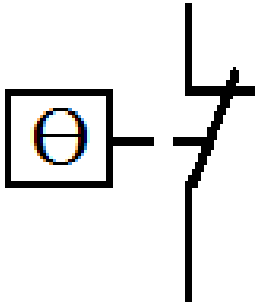




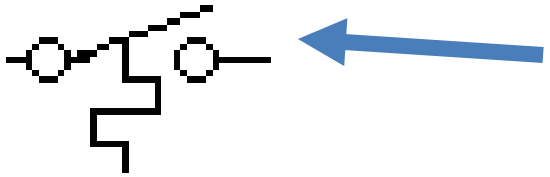
What are these symbols, what are the contact conditions and show the NEMA symbols



NC Limit Switch

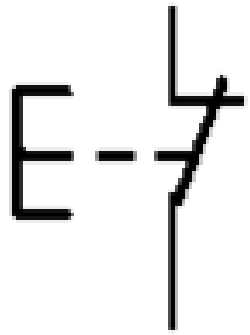


NC Temperature Switch

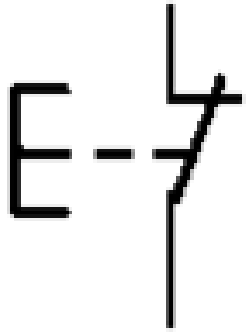


Tricky!

What is this symbol, what are the contact conditions and show the NEMA symbol



What is this symbol, what are the contact conditions and show the NEMA symbol



Normally Closed Pushbutton