**Logical Operations**

|  |  |  |  |
| --- | --- | --- | --- |
| Ladder Diagram | Description | Logical Name | Truth Table |
|  |  |  | |  |  |  | | --- | --- | --- | | **A** | **B** | **Y** | |  |  |  | |  |  |  | |  |  |  | |  |  |  | |
|  |  |  | |  |  |  | | --- | --- | --- | | **A** | **B** | **Y** | |  |  |  | |  |  |  | |  |  |  | |  |  |  | |
|  |  |  | |  |  | | --- | --- | | **A** | **Y** | |  |  | |  |  | |
|  |  |  | |  |  |  | | --- | --- | --- | | **A** | **B** | **Y** | |  |  |  | |  |  |  | |  |  |  | |  |  |  | |
|  |  |  | |  |  |  | | --- | --- | --- | | **A** | **B** | **Y** | |  |  |  | |  |  |  | |  |  |  | |  |  |  | |
|  |  |  | |  |  |  | | --- | --- | --- | | **A** | **B** | **Y** | |  |  |  | |  |  |  | |  |  |  | |  |  |  | |