



**brookfield industries, inc.**  
99 West Hillside Ave  
Thomaston, CT 06787  
T: 860.283.6211, F: 860.283.6123  
[www.bfimfg.com](http://www.bfimfg.com)

## **NB-500-LE**

### **Low Energy Swinging Door Operator**

**By**

### **brookfield industries, inc.**

We are pleased to announce the addition of the **NB-500-LE**, Low Energy Swinging Door Operator to our product line. While fully compliant with **ANSI 156.19**, this operator is unique because it is designed for heavy commercial/ industrial type doors that require a drive train to power the door open and power it closed (no springs used). Since there is no compression spring, all the energy becomes available for moving the door. These doors are typically blast resistant, heavy lead lined, security, interior personnel doors subjected to differential pressures or entrance doors that must open and close through wind loads. The maximum rated door weight for the **NB-500-LE** is **2500 lbs**, providing the operating torque does not exceed **1000 lb-in**.

By decreasing the drive train ratio and increasing the forward and reverse current limit resolution of the basic NB-500, the **NB-500-LE**, meets or exceeds the manual force requirements of 30 lbs/15lb; can be "fine-tuned" to "stall" with much less than the 15 lbs of maximum force, yet still be adjusted to move these special application doors with as much torque as **1000 lb-in** when required. Another safety feature included is the 4 quadrant, regenerative drive that provides protection against damaging wind loads by applying a dynamic brake to slow the door down. In addition to protecting door and hardware, this feature reduces the risk of personnel injury. What does all this mean? When set to the 15 lb stall, the operator will move a 3-0 x 7-0 door through wind velocities up to 18 mph and will provide adequate damping against sustained winds of 30 mph and wind gusts of approximately 40 mph!

The **NB-500-LE** includes 2 basic types of "**Knowing Act**" Activation: 1) any type of **momentary contact switching** from push plates to push buttons or from controlled access devices such as keypads, card readers and keyswitches. 2) **Push-Pull Activation**- When the door is pushed or pulled on, the operator will start-up and move the door through a complete cycle of automatically opening the door, hold open time delay (**HOD**) and closing cycle. The amount of movement to set the door in motion is fully adjustable along with the hold open time delay (**HOD**) with the Data Access Unit (**DAU/GT-O1 purchase separately**).

The **NB-500-LE** has the same footprint and uses the same installation drawings as all other NB-500 operators. Available in various door openings and swing styles:

Single Swing  
Main/Sub for Double Doors  
Pull Open or Push Open Linkage



**NB-500-LE for Single Swing**



**NB-500-LE-MS for Double Doors**