

May 1, 2015

HySecurity Re-Certifies Leeson 1 & 2 HP Single-Phase Electric Motors

Blue Leeson Motors Will Start Showing up in Hydraulic Operators May 2015

HySecurity will manufacture some hydraulic gate operators with blue Leeson motors beginning in May 2015. HySecurity discontinued using Leeson motors in 2012 for technical reasons. Thorough investigation and field-testing has resulted in Leeson motors being re-qualified as equal to and interchangeable with Baldor motors (the gray ones). All former issues were fully resolved. In pursuit of the most reliable supply chain, HySecurity routinely qualifies more than one manufacturer for most operator components to ensure uninterrupted operator production and shipment regardless of component manufacturer stoppages.



Blue Leeson

Gray Baldor

HySecurity Stopped Installing Leeson in 2012

HySecurity qualified Leeson Manufacturing as an electric motor supplier in 2008 and added Leeson brand motors as an addition to our existing Baldor brand motors. Aside from an incorrect capacitor issue remedied years ago, Leeson motors proved reliable and HySecurity encountered few problems. In 2012, installers and end users began reporting that a small number of Leeson motors would growl, overheat and sometimes trip a circuit breaker when starting. This only occurred on sites with high line voltage and other, very specific factors were present. The failure rate was low. However, Leeson could not determine the cause of these motor failures so in the fall of 2012 HySecurity discontinued using their motors.

HySecurity conducted a lengthy and thorough Leeson motor failure root cause analysis. This research was challenging since producing a lab failure proved impossible and field failures were scarce. After several months of analysis, the fault source was determined to be a component inside the electronic start switch, a motor component not manufactured by Leeson. This switch was installed on both Leeson and Baldor single-phase motors.

Issue Identified

Ultimately, HySecurity technicians proved that an integrated circuit used inside the start switch had been changed and the new part was more sensitive to high line voltage.

The Solution

The start switch supplier engineered a new switch with different components and HySecurity provided newly updated motors to those sites experiencing switch failures. In all cases, the operators functioned flawlessly. Based on both analysis and demonstrated field-testing, this issue is now fully understood and remedied. HySecurity has standardized this re-engineered electronic start switch for all 1 HP and 2 HP Leeson and Baldor single phase motors. Additionally, HySecurity confirmed Leeson and Baldor motors as equal and will begin once again using Leeson motors in select single-phase hydraulic operators beginning, May 1, 2015. You will see the familiar blue Leeson motors on some HySecurity operators soon and know that they meet the same high quality and reliability standards as Baldor motors. In fact, resolving Leeson's motor problem improved both Leeson and Baldor single-phase motors.

Conclusion

Leeson and Baldor motors are proven to be equivalent and fully interchangeable.

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