



BRANDON AND CLARK, INC.

CUSTOM BEAM PUMP DRIVE

FEATURING THE YASKAWA U1000



Efficiency that Adds to Your Bottom Line.



BRANDON AND CLARK, INC.'S CUSTOM BEAM PUMP DRIVE WAS DESIGNED WITH YOUR BOTTOM LINE IN MIND.

The Yaskawa U1000 seamlessly switches back and forth from operating in a motoring condition to a regenerative condition, thereby saving the energy instead of wasting it with bulky dynamic braking resistors.

In traditional Rod Pump / Pump Jack operations, the down stroke of the pump causes the electric motor driving it to over-speed creating a regenerative power that cannot pass through the VFD onto the power line and must be dealt with by either installing Dynamic Braking Resistors (DBR's) which dissipate the excess energy in the form of heat - Heat = Wasted Energy, or by installing a costly Active Front End Regenerative Drive.

Yaskawa's U1000 Matrix VFD technology eliminates the need for DBR's without the unnecessary expense of an Active Front End drive. The Matrix drive converts incoming AC power into Outgoing AC power without the use of a DC bus (lost efficiency) and switches seamlessly between motoring and generating allowing the

regenerated power to flow back onto the power grid **REDUCING ENERGY CONSUMPTION BY AN ESTIMATED 15% OVER A STANDARD 6 PULSE DRIVE WITH DBR'S.** That is 15 cents on every dollar spent on power to run a well. By eliminating the DBR's the repair/replacement costs associated with the DBR's themselves, further improving the overall return on the investment.

The Beam Pump Drive is a very low harmonic VFD that is IEEE 519 Compliant at the drive input terminals. What that means is it will not add ugly harmonics to your already stressed distribution system and, by replacing existing drives with the Beam Pump Drive you can actually reduce your total harmonic distortion significantly.

Even more, the Beam Pump Drive integrates with your existing pump off controller without the need for any custom hardware or software.

LET'S STOP YOUR BEAM PUMP DRIVE PROBLEMS AND START PUTTING MONEY BACK INTO YOUR POCKET.

BRANDON AND CLARK, INC. CUSTOM BEAM PUMP DRIVE

FEATURES AND BENEFITS



YASKAWA U1000 DRIVE

- standard sizes available in 50, 60, 75, 100hp with other HP available upon request
- regenerates on the down stroke putting power back on the line
- AC to AC conversion with no DC bus
- compact design
- design eliminates the need for dynamic braking resistors as well as the input line reactors and filters
- ultra-low harmonics
- IEEE 519 compliant at the drive input terminals

FEATURES/BENEFITS

- can integrate with any existing pump off controller
- industrial network communication options:
 - Ethernet /IP /DeviceNet
 - ProfiNet / Profibus
 - Modbus TCP / RTU
 - EtherCAT
- PLC controller option and HMI panels available upon request

SEPARATE BACK ACCESS PANEL

- limits outside contaminants in the drive compartment
- allows easy access to back of drive for maintenance
- heat sink drive mounted into a separate compartment = cooler operating drive



COLLAPSIBLE SHADE CANOPY

- protects the keypad from direct sunlight, making the screen easier to read
- keeps rain and dust out

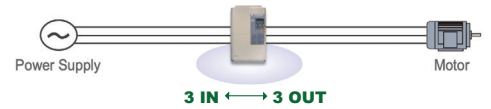
USB ACCESS POINT

- plug in your laptop to download data

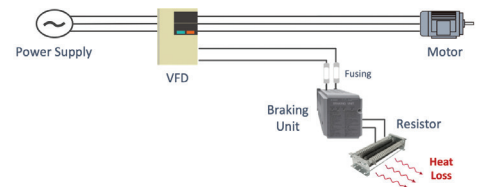
THE U1000 DIFFERENCE

REDUCE SYSTEM SIZE

U1000 MATRIX DRIVE

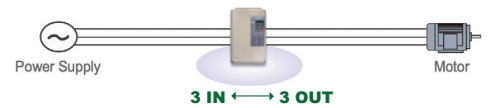


VFD WITH DYNAMIC BREAK

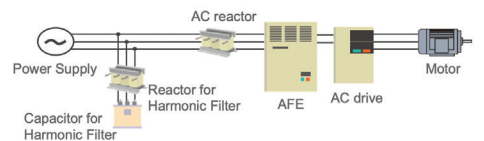


BETTER SOLUTION

U1000 MATRIX DRIVE



ACTIVE FRONT END (AFE)



BRANDON & CLARK, INC. "KEEPING INDUSTRY HUMMING SINCE 1950."

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