

IntelliGear® Variable Speed Gearmotors & C-Face Motors

Browning®



A Regal Brand

REGAL

INTELLIGEAR products combine advanced open loop vector technology with the convenience and reliability of a variable frequency drive mounted to the conduit box of a gearmotor or NEMA c-face motor. Each one is factory wired and pre-programmed for optimum performance with the motor.

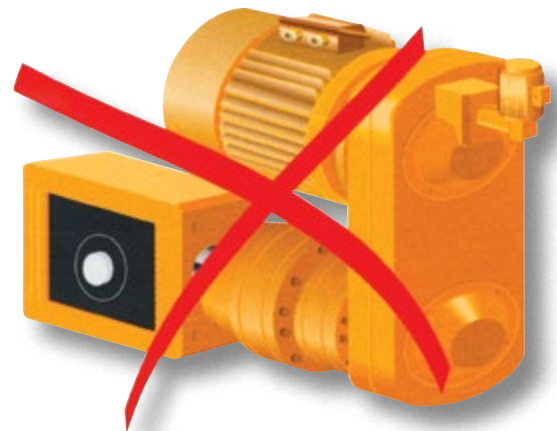


IntelliGear Advantages Versus Separate Wall Mount Inverters

- No need to learn how to program the drive – factory setup
- Factory wiring minimizes risk of installation errors
- Pre-tested Motor/Drive performance for excellent breakaway torque
- Eliminate cost of wiring between motor and controller
- No cost/time required to mount controller
- Eliminates “standing wave” phenomenon at motor

IntelliGear Advantages Versus Mechanical Variable Speed

- Reduced maintenance cost
- Reduced machine downtime
- 97.5% efficiency means lower operating cost
- Wider constant torque speed range
- Soft starting reduces system wear
- No extra cost for remote control



DIVERSE SPEED CONTROL OPTIO



PD



Digital Keypad

P1

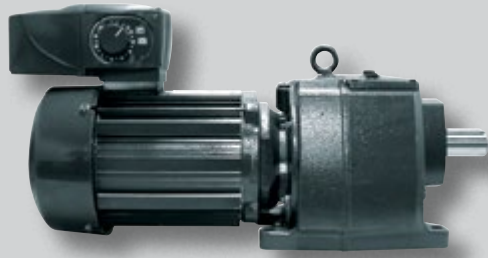


Start/Stop Speed Pot.

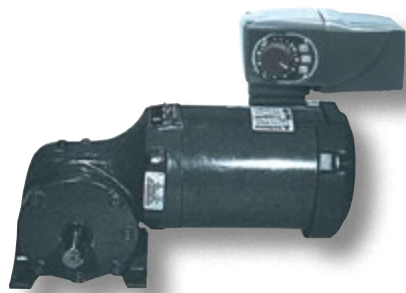


Fwd Sp

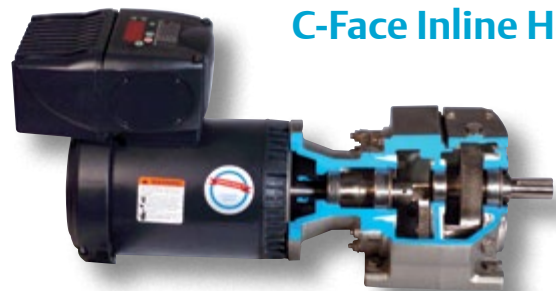
CbN
Inline Helical



OtN
Right Angle Helical Bevel



IRA
Right Angle Worm



TEFC
C-Face Inline Helical

TEFC
C-Face with Worm Gear






Washdown
C-Face Motor



NS SELECT FROM A VARIETY OF LOCAL AND REMOTE OPTIONS TO MEET YOUR SPECIFIC APPLICATION NEEDS

LOCAL

| | | |
|---|--|---|
| <p>P2</p>  <p>/Rev/Stop Speed Pot.</p> | <p>P3</p>  <p>Speed Pot. On/Off (by others)</p> | <p>P4</p>  <p>Internal Pot. On/Off (by others)</p> |
|---|--|---|

REMOTE

| | |
|---|--|
| <p>R</p> <p>0-10 VDC</p> <p>4-20 ma Signal Following (by others)</p> | <p>RP</p> <p>Profibus DP</p> |
|---|--|



INTELLIGEAR CHARACTERISTICS AND FUNCTIONS

| ELECTRICAL DATA | | |
|-------------------------------|--------------------------------|---|
| Input Power Supply | +TS1 | 115 V ±10%, 50-60 Hz ±2%, 1-Phase |
| | +TS2 | 240 V ±10%, 50-60 Hz ±2%, 1-Phase |
| | +T2 | 240 V ±10%, 50-60 Hz ±2%, 3-Phase |
| | +T4 | 480 V ±10%, 50-60 Hz ±2%, 3-Phase |
| Supply Short Circuit Capacity | +TS2 or +T2 | Maximum 5000 A Symmetrical at 264 VAC RMS |
| | +T4 | Maximum 5000 A Symmetrical at 528 VAC RMS |
| Phase Voltage Imbalance | Maximum 3% at Input | |
| Output Voltage | 0 V to Input Voltage | |
| Power-ups/Hour | Single Phase Input: 10 maximum | |
| | Three Phase Input: 100 maximum | |
| Efficiency | Electronics 97.5% | |
| Input Power Supply | +TS1 | 1/3 – ¾ HP |
| | +TS2 | 1/3 – 2 HP |
| | +T2 | 1/3 – 5 HP |
| | +T4 | 1/3 – 10 HP |

| SPEED RANGE | | | |
|-------------|--------------|--------------|--------------|
| Motor HP | Standard | 10:1 Option | 15:1 Option |
| 1/3 – ¾ HP | 1760-293 RPM | 1760-176 RPM | 2625-175 RPM |
| 1 – 1 ½ HP | 1750-291 RPM | 1750-175 RPM | 2620-175 RPM |
| 2 HP | 1750-291 RPM | 2585-255 RPM | N/A |
| 3 HP | 1750-291 RPM | 2630-263 RPM | N/A |
| 5 HP | 2150-358 RPM | 2605-260 RPM | N/A |
| 7.5 HP | 2150-358 RPM | 2670-267 RPM | N/A |
| 10 HP | 2100-350 RPM | 2600-260 RPM | N/A |



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APPLICATION CONSIDERATIONS

The proper selection and application of power transmission products and components, including the related area of product safety, is the responsibility of the customer. Operating and performance requirements and potential associated issues will vary appreciably depending upon the use and application of such products and components. The scope of the technical and application information included in this publication is necessarily limited. Unusual operating environments and conditions, lubrication requirements, loading supports, and other factors can materially affect the application and operating results of the products and components and the customer should carefully review its requirements. Any technical advice or review furnished by Regal Beloit America, Inc. and its affiliates with respect to the use of products and components is given in good faith and without charge, and Regal assumes no obligation or liability for the advice given, or results obtained, all such advice and review being given and accepted at customer's risk. For a copy of our Standard Terms and Conditions of Sale, Disclaimers of Warranty, Limitation of Liability and Remedy, please contact Customer Service at 1-800-626-2120. These terms and conditions of sale, disclaimers and limitations of liability apply to any person who may buy, acquire or use a Regal Beloit America Inc. product referred to herein, including any person who buys from a licensed distributor of these branded products.

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