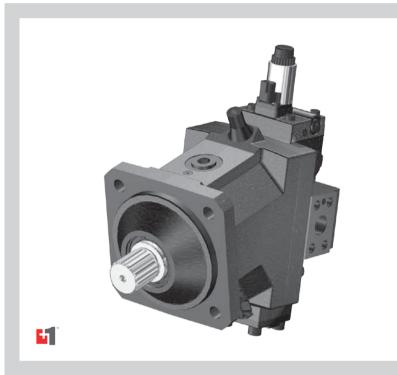


Data Sheet

H1-The new Generation of Hydrostatics 080 cm³ Bent Axis Variable Motor



Features

Designed for quality and reliability

- Proven and optimized 9 piston rotating group
- Single piece housing
- Electric components with IP67 & IP69K rating

Installation and packaging benefits

- Optimized for shortest length
- Standardized connector interface
- Integrated loop flushing device
- Radial or axial high pressure ports

Optimized for electric control

- Electric Two-position Control
 - Pressure Compensator Override
 Proportional Pressure Compensator Override
 - Brake Pressure Defeat option
- Electric Proportional Control
- Pressure Compensator Override
- Brake Pressure Defeat option

For more than 40 years, Danfoss has been developing state-of-the-art components and systems for mobile machinery used in off-highway operations around the world. We have become a preferred supplier by offering the best of what really matters: The hardware inside your vehicle application.

H1 - our new generation of servo-controlled hydrostatic pumps and bent axis variable motors - is no exception. The H1 range is built around an advanced electrical control and available in a wide range of displacements. It is designed for quality and reliability and offers expanded functionality, greater total efficiency, and easy installation.

All H1 control and sensor options are PLUS+1 Compliant. PLUS+1 allows you to rapidly develop and customize electronic machine control. It opens up the future by combining machine controls and diagnostics in an integrated operating network

- Common controls across the entire motor family
- Plus+1 Compliant control and sensor options

• Expanded functionality

- Zero degree capability together with a high performance 32 degree maximum angle
- Enhanced control functions with proportional controls de-energized at minimum or maximum displacement
- Optional integrated speed sensor with
 Dual redundant speed sensing
 - Dual reduited indication
 Direction indication
 - Temperature sensing
 - Wire fault detection

• Greater total efficiency

- Minimized losses
- Improved at high flow conditions



Technical Specifications

Physical Properties

| Features | Units | Frame size | |
|---|------------------------------------|-------------|--|
| Displacement | cm ³ [in ³] | 080 [4.88] | |
| Weight (with Electric Proportional Control) | | | |
| SAE ISO 3019/1 | | 34.8 [76.9] | |
| DIN ISO 3019/2 | kg [lb] | 34.4 [76.0] | |
| Cartridge | | 33.0 [72.8] | |

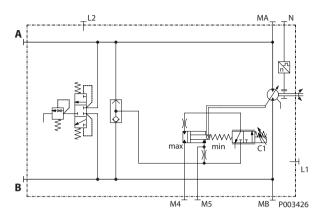
Weight with Electric Proportional Control

Operating Parameters

| Output speed min-1 [rpm] | Rated | at max. displacement | 3200 |
|--------------------------------|---------------|---------------------------|------------|
| | | at min. displacement (6°) | 5100 |
| | | at 0° displacement | 5500 |
| | Maximum | at max. displacement | 4100 |
| | | at min. displacement (6°) | 6350 |
| | | at 0° displacement | 6750 |
| System pressure bar [psi] | Working | | 450 [6527] |
| | Maximum | | 480 [6960] |
| | Min. low loop | | 7.5 [109] |
| Case pressure bar [psi] | Rated | | 3 [44] |
| | Maximum | | 5 [73] |
| | Minimum | | 0.3 [4] |

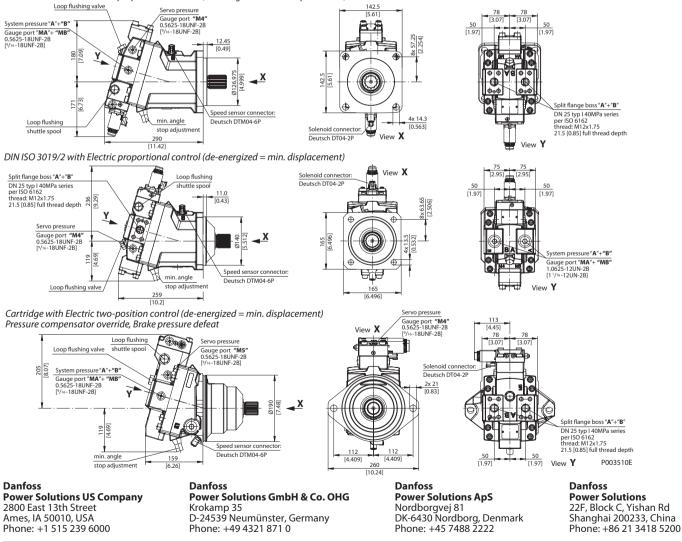
Schematic (example) Electric Proportional Control

(de-energized = max. displacement)



Installation Drawings

SAE ISO 3019/1 with Electric proportional control (de-energized = max. displacement)



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