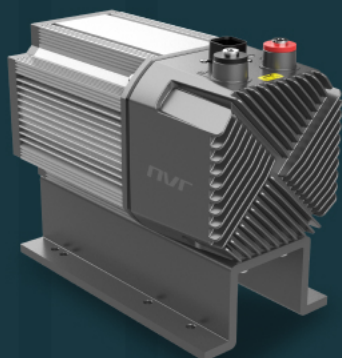


— About NVR

Founded in 2009 in Silicon Valley, NVR is a leading provider of intelligent electronic control systems and IoT solutions. Committed to our mission "NVR is your electrification partner" we strive to deliver cutting-edge solutions that meet the evolving needs of our customers.



DH1300 Integrated Motor+Inverter



DH1300 series integrated motor product combines the permanent magnet synchronous integrated motor and its driver into one unit. The unique thermal design and the optimized compact structure make the products achieve the highest efficiency of the system operation. It features high operating efficiency, low starting current, high output torque, a wide range of operating speeds, and a maintenance-free system. It can also be optimized for different gear pumps to achieve the best performance for the electro-hydraulic system.



— Features - Motor

- Equipped with high-performance permanent magnets, the permanent magnet synchronous motor achieves enhanced efficiency and reduced operational losses
- High-efficiency ratio exceeds 85%
- Smooth and reliable operation
- Built-in permanent magnet structure, makes the motor run more stable and the weak magnetic range wider
- Unique motor design, stable temperature resistance characteristics up to 105 °C, and maintain the stability of permanent magnet and control stability

— Features - Complete machine

- External connection only requires the power cable, CAN or throttle cable
- Standard spline design allows for quick adaptation to standard gear pumps
- Protection level is IP67
- Free configuration of parameters to ensure maximum system efficiency
- Advanced AC vector control technology to ensure the efficient operation of the motor
- Professional algorithms to ensure the efficient use of batteries, reduce the loss of motor and torque conversion
- optimized structural design to ensure the temperature difference between the motor and the control part
- customization of the mounting base according to user needs
- Support for the users to specify the integrated hydraulic pump
- Each unit is individually tuned for optimal performance, guaranteeing high-efficiency output

— Product Lineup

Model	Rated Voltage (V)	24V/48V
DH1300-2410*	24	200A / 80A
DH1300-2418*	24	250A / 100A

*The current of this series is bus current.

— Specifications - Complete Machine

Item	Descriptions
Rated voltage	24V/48V
Operating voltage	13V-32V
PWM frequency	10 KHz
Control mode	CAN/Throttle
Drive matching	Calibrated vector control
CAN-bus	125/250/500 Kbps
Protection Rating	IP67
Storage ambient temperature	-40 °C - +85 °C

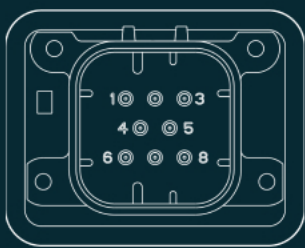
Item	Descriptions
Operating ambient temperature	-40 °C - +55 °C
Product Certifications	Functional Safety, UL, CE
Dimensions	269 × 140 × 228 mm
Weight	14.5 / 10 kg ± 0.01 kg

— Specifications - Motor

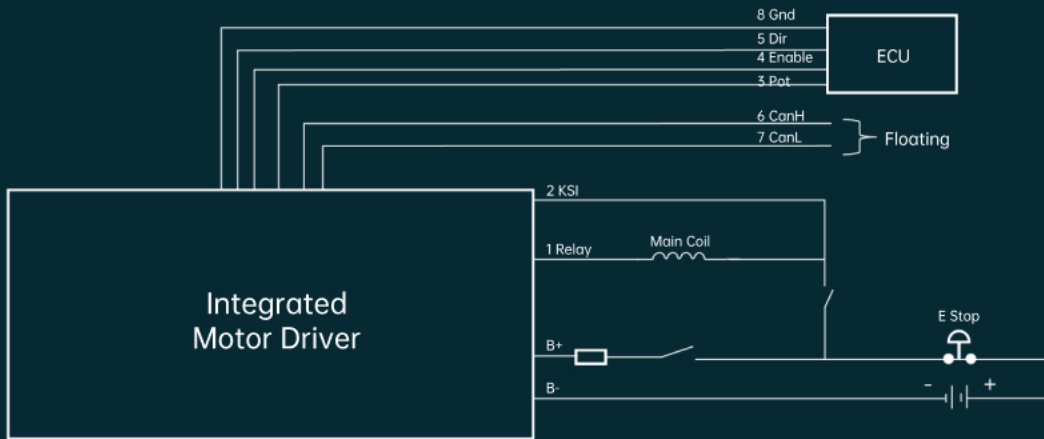
Item	Descriptions
Rated power	2kw/3.5kw
Rated Speed	2600 rpm
Maximum Speed	3500 rpm
Maximum torque	22 N·m
Rated torque	12.9 N·m
Number of Poles	8/10
Cooling method	Natural air cooling
Insulation rating	F
Protection Rating	IP67
Temperature sensor	Built-In
Speed sensor	built-in

— Connector & PIN Definition

Connector: TE 776276-1 (Refer to the figure below)
Mating Connector: TE 776286-1



— Typical Wiring Diagram-Throttle control mode



— Dimensions

