



# Brushless Motor Driver Engineering info

Coreless Motor Co.,ltd

© 2019 Coreless Motor Co.,ltd

Coreless Motor Co.,ltd : [www.cls-motor.com](http://www.cls-motor.com)  
Tel: 046-277-5022 FAX: 046-204-6664

 Forward drive/Reverse drive Run/Stop Motor quick brake Digital control/analogue control Closed loop/open loop Rotation speed output (Pulse frequency) Alarm output (5V→0V)

# Functions



# Short/open with COM

Forward  
/reverse

Run/Stop

Motor quick  
brack

Move back and  
forth/CW,CCW

Run and stop  
motor

For emergency

# Digital and analogue control

- MLD-030-ST
  - Analogue control
    - Voltage control (0-5Vdc)
    - External resistance control (0-10kΩ)
  
- MLD-075-ST
  - Analogue control
    - Voltage control (0-5Vdc, 0-10Vdc)
    - External resistance control (0-10kΩ)
  - Digital control
    - Speed commanded pulse(0~3.5kHz, 5Vdc, Duty ratio 50%)

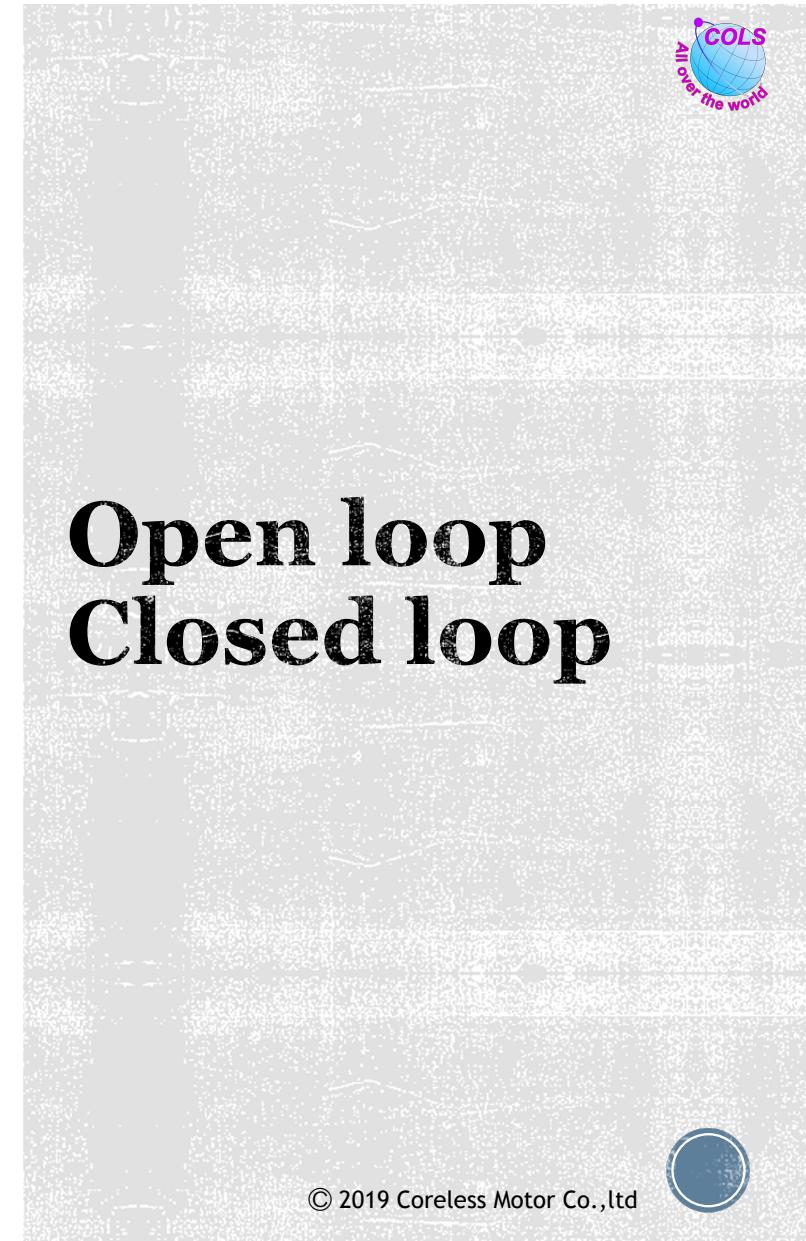




Open loop control: No change even if the torque is applied to the motor and the rotation speed droped.



Closed loop control: When torque is applied to the motor and the rotation drops, control is performed to increase the rotation speed.



# Output spec

- Rotation speed output (Pulse frequency)
  - Connect between SPEED terminal and COM terminal and calculate with pulse output
  - $N(\text{rpm}) = (F \times 120/P)/3$
  - F=Pulse output frequency
  - P : Number of motor poles
- アラーム出力 (5V→0V)
  - When normal 5V→When emergency 0V
  - \*Collector output with internal pull-up
  - \*Maximum sink current value of ALM pin : 20mA