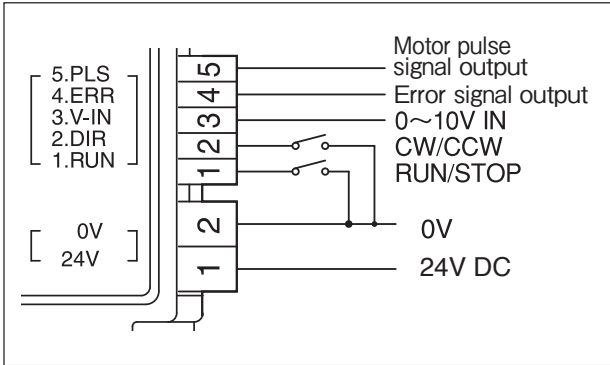


[Wiring diagram]



- ※Wiring should be made while the product is not powered.
- ※Switch for Run/stop or CW/CCW is an option and is not supplied.
- ※Relay contact or PLC output can be used instead of the above switch.

[Error History]

If thermister, motor stall or under voltage error arises while the power Moller is running, the error status and frequency of error occurrence are identified by LED 2 and LED 3.

	blinks at 1Hz	stall error
	blinks at 6Hz	under voltage error
	illuminates	thermister error
	off	Error occurred at first time
	blinks at 1Hz	Error occurred at second time (same error as the first one)
	blinks at 6Hz	Error occurred at second time (different error as from the first one) Error occurred at third time (same error as the first or second one)
	illuminates	Error occurred at third time (same error in series)

[Specifications]

Power voltage	24V DC ± 10%
Rated voltage	24V DC
Static current	0.03A
Starting current	4.0A
Wiring diameter	Power connector 0.5~1.5mm ² (AWG:20~14) Control connector 0.08~0.5mm ² (AWG:28~20)
Motor starts running from RUN signal	≤15msec
Protections	Integral 6.3A fuse (+ side) Diode against miss-wiring
Thermister	95°C on PCB or 105°C in motor
Current limiting	4 A
Ambient temperature	0 to +40°C *1
Relative humidity	≤90%RH(no condensation)
Atmosphere	No corrosive gas
Vibration	≤0.5G
Installation	Indoor
Turning drection	Can be set with DIP SW1#3.

Direction Setting

Reverse direction by external DIR signal can be permitted even while motor is running. Power Moller turning direction can be set or changed either internally by integral dip switch or externally by optional switch.

Setting for Turning Direction In case of use of CB-016N6/BN6

		SW 1 # 3	
		ON	OFF
FE type		CW	CCW
		CCW	CW
FP type		CCW	CW
		CW	CCW

※ Turning direction viewed from the Power Moller's power cable side.

Error signal	<ul style="list-style-type: none"> Generated by thermal cutoff / Power Moller stall / low power supply voltage / connector disconnection / fuse blow-off. SW1-4 allows the selection of the error signal discharge timing: discharge on normal status or dilscharge when error arises. Error signal is NPN open collector in cace of CB-016N6/BN6. <p>※Recovery from thermal cutoff error and low voltage error can be selected by DIP SW1#1 for manual recovery (ON) or auto recovery (OFF).</p>
Speed Variation	<p>Internal</p> <ul style="list-style-type: none"> Enabled by setting DIP SW1#2 to OFF. Up to 20-step setting is possible by DIP SW1#5 and SW5. <p>ON (External speed change) OFF (Internal speed change)</p>
	<p>External</p> <ul style="list-style-type: none"> Enabled by setting DIP SW1#2 ON Up to 20-step setting is possible by supplying voltage input (0~10V DC to CN2-3) <p>ON (External speed change) OFF (Internal speed change)</p>
	<p>Acceleration</p> <p>Integral potentiometer VR 1 allows the acceleration adjustment from 0 to 2.5 seconds.</p>
	<p>Deceleration</p> <p>Integral potentiometer VR 2 allows the deceleration adjustment from 0 to 2.5 seconds.</p>
Motor pulse signal output	2 pulses/motor rotation
LED	Power (green) Error (red) Frequency (red/orange)
Type of brake	Dynamic brake*3
Brake current*2	0.2A (CB-016BN6)

*1 CB-016 driver card having LT option is used in the ambient temperature range between-30 *2 Built in brake
*3 No holding effect. In case holding effect is required, use Power Moller with built-in brake option (BR) together with CB-016 [BN6] [BP6]