

Driver card for PM380/427VS

CBV30

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[Applicable MDR models]

PM380VS·PM427VS

[Driver card model]

CBV30-UL-N

N : NPN signal input
and output
P : PNP signal input
and output

Standard Accessories

- Power connector(CN 1) 1pce
- Control connector(CN 2) 1pce
- Mounting screws and nuts Screw M4×15 2pcs
- Nut M4 2pcs



■ Stable speed function

Transfer speed is kept stable regardless of the load variation.
It helps improve transfer accuracy.

■ Adopts 6pin D-shaped connector

Prevent mis-wiring and easy maintenance.

■ Smallest driver card fit in 60mm frame height

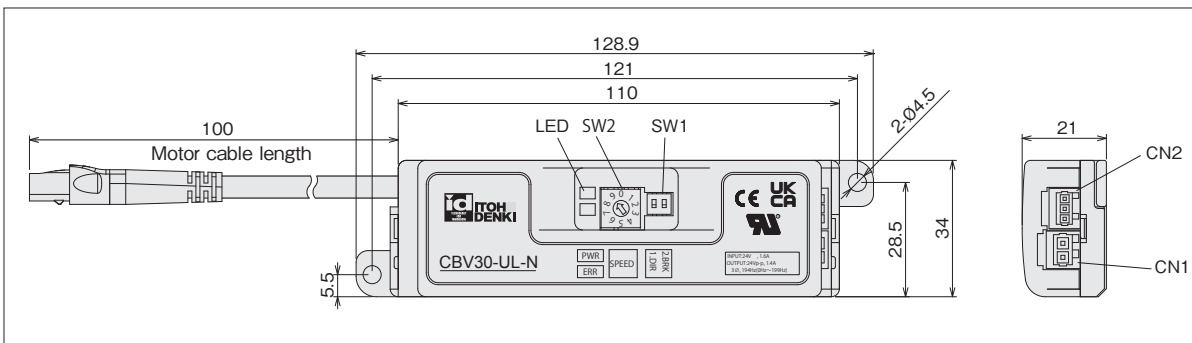
Realize a thin conveyor by smallest driver card.

■ Speed can be set in 10 steps

Speed variation for each driver card is adjustable with rotary switch.

■ Error types are identified

LED indication identifies the type of error; thermal, motor lock, low voltage, back EMF, blown fuse and motor disconnected.



●SW1 (DIP switch)

Number	Description	ON OFF		Factory setting
		ON	OFF	
1	Rotating direction	Refer to next page		OFF
2	Switching brake type	Servo brake	Short circuit brake	OFF

●CN(connector)

CN1 (Power supply)	#2	0V
	#1	24V DC

CN2 (Control)	No.	Function	Application
	#3	STTS	STATUS (Signal output)
	#2	DIR	Switching of the direction of rotation
	#1	RUN	Start/Stop (RUN/STOP)

●SW2(Rotary switch)

Internal speed setting

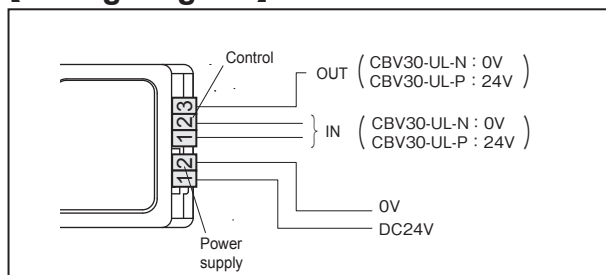
SW2			9	8	7	6	5	4	3	2	1	0
Specified speed	PM380VS	Nominal speed 17	17.4	14.5	11.6	8.7	7.2	5.8	4.3	2.9	2.3	1.5
		Nominal speed 60	60.0	50.0	40.0	30.0	25.0	20.0	15.0	10.0	8.0	5.0
	PM427VS	Nominal speed 17	19.5	16.3	13.0	9.8	8.1	6.5	4.9	3.3	2.6	1.6
		Nominal speed 60	67.4	56.2	45.0	33.7	28.1	22.5	16.9	11.2	9.0	5.6

:Factory setting

●LED

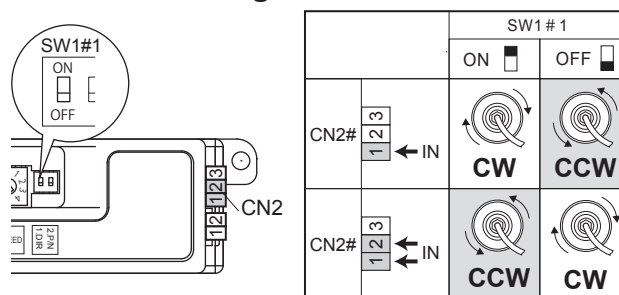
	PWR (Green)	Power status and error types are indicated.
	ERR (Red)	

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.

Direction setting

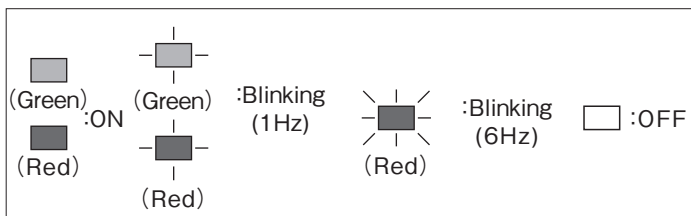


- Direction setting by SW1#1 is not available during transferring (MDR running).

Specifications

Model		CBV30
Power supply voltage		24V DC±10%
Rated voltage		24V DC
Static current		0.05A
Starting current		2.6A±0.2A
Peak current		20A (1msec)
Wire diameter	Power connector (CN1)	WAGO734-102 Wire diameter : 0.5 to 1.5mm ²
	Control connector (CN2)	WAGO733-103 Wire diameter : 0.08 to 0.5mm ²
Time from RUN signal input to motor starting		20msec or less
Thermal protection		Driver card unit:95℃ Motor:110℃
Operating environment	Ambient temperature	0 to 40℃ (no freezing)
	Ambient humidity	90%RH or less (no condensation)
	Atmosphere	No corrosive gas
	Vibration	1.0G or less
	Installation location	Indoor

Error details



PWR (Green) ERR (Red)	CN2#3 STTS signal	Type of error
	Output	Normal operation
	Open	Fuse blown
	Open	Low voltage
	Open	Motor connector unconnected Motor cable disconnected
	Open	Motor lock
or	Open	Driver card/MDR thermal error
	Open	Back EMF error

Error can be checked by PWR (Green), ERR (Red) and a signal from CN2#3.