

DC BRUSHLESS MOTOR

T-net Network Communication

Intelligent **Connect** Operation

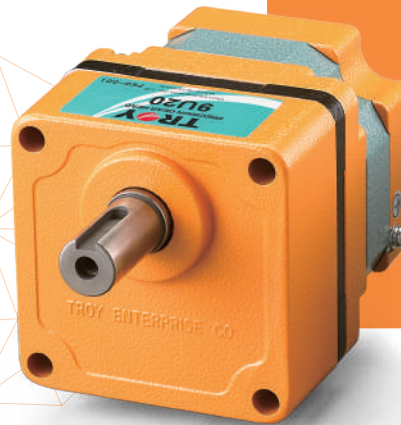
Communication Mode DC Brushless Motor

■ Communication Control

Only need RJ45 network cable to connect front controller so as to simplify wiring and engineering time.

■ I/O Control

Under [I/O mode], it can operate stand-alone, or control by PLC, PC program.



BRUSHLESS MOTOR



DBU Driver



TOP-1
Touchscreen Controller

T-net Network Communication System Integration

- By T-net network communication system integration platform [TOP-1], it can connect to multiple machine to set parameter, monitor status and test running.

Network Communication Control Modbus

- Compatible to Modbus RTU communication protocol, RS-485 interface with RJ45 cable to control different machines in series to simplify wiring.
- Can be connected to TOP-1, PC, PLC and HMI.

Flexible Customized I/O Interface

- IN connection→4 from 8; OUT connection→2 from 6. Terminal function can be customized and configured.
- Customize I/O terminal to compatible with previous controller without changing wiring or control program.
- Customized compatibility to all **TROY** brushless driver control modes, e.g. BMD/DB/ SBD/UBD/DBD.

Color Indicators Shows Status

- 7 color LED indicator shows the running status of motor and driver.

Running information Shown On

- 5 Running information can be shown on OLED panel, for easier identification of motor and driver status.

Motor/Driver Specification and Characteristics

DC Brushless Motor

Power Output			200W	400W
Motor	Round Shaft Type		9BU200S-D T	9BU400S-D4 T
	Pinion Shaft Type		9BU200P-D T	-
Driver			DBU200-D T	DBU400-D4 T
Power Input	Rated Voltage	V	DC24±10%	DC48±10%
	Max. Current	A	21	13.3
	Rated Current	A	15.4	10.7
Rated Torque		Nm	0.65	1.28
Instant Max. Torque		Nm	0.81	1.76
Permissible Inertia Load GD ²		kgcm ²	54.4	72.6
Rated Speed		r/min	3000	3000
Speed Control Range		r/min	250~3000	300~3000

*Torque 1Nm=10.19716 kgcm

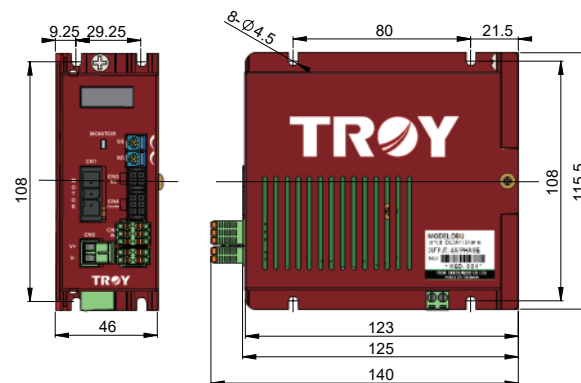
Communication Specification	<p>[Communication Protocol] T-net communication protocol(compatible to Modbus RTU).</p> <p>[Communication Rate] 9600、14400、19200、28800、38400、57600、115200 bps.</p> <p>[Transmission Mode] RS-485 Synchronized half-duplex.</p> <p>[Connection Range] Use 1-meter-long CAT-6 specification network cable to connect in series, the actual test can connect up to 247 units in series.</p>
Signal Input	<p>[Specification] Photo Coupler Input Interface; correspond to NPN or PNP wiring.</p> <p>[In Connection] 4 from 8 terminal function can be customized and configured. CW/STOP, CCW/STOP or RUN/STOP, CW/CCW, Alarm-Reset, M0, M1, M2, EX-ER, Hold-Free can compatible with DB or SBD control mode.</p>
Signal Output	<p>[Specification] Open Collector Output Interface; correspond to NPN or PNP wiring.</p> <p>[Out Connection] 2 from 6 terminal function can be customized and configured. Alarm-out, Reach-out, VA-out, Speed-out, Warning-out, MOVE.</p>
Features	<ul style="list-style-type: none"> Can be connected to TOP-1(Touchscreen Controller), PC, PLC. Connect to PC directly for communication setting by USB TO RS-485 convertor. [Communication Mode]: Parameter setting, operation movement control, 8 stage speed set/select, monitor status can be controlled. [I/O Mode]: Operation movement control, 8 stage speed select, monitor status can be controlled. 10 Protective functions: Alarm protective functions like overload, over voltage, over current, over speed, overheat, power on, abnormal starting, register error, encoder signal error, external interrupt. 7 Color LED indicator display: RUN/EDIT, CW, CCW, Alarm, external interrupt, register/ CPU/ communication abnormal. For easier identification of motor and driver status 5 Operating information OLED panel display: Revolving speed, driver machine number, running data No., count down time or load rate, for easier identification of motor and driver set up status. <p>* [TOP-1] is a integration platform touchscreen controller, TROY product series with [T-net communication protocol] can connected for internal data setting, but without front controller function (optional purchase individually).</p>

Dimensions

DC Brushless Motor

-Driver-

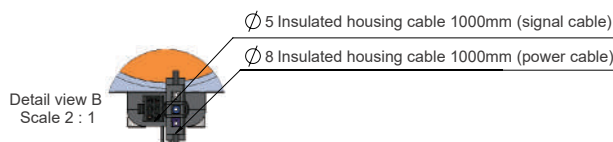
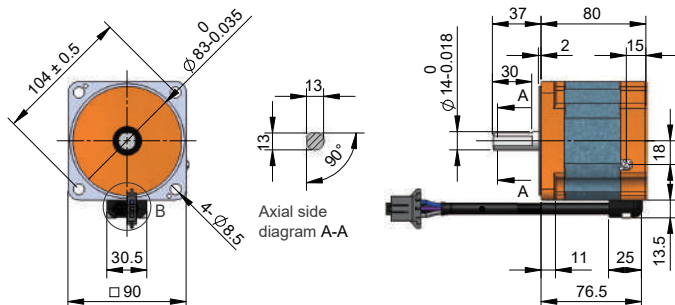
◆ DBU200-D T / DBU400-D4 T



Unit : mm
Weight : 498g

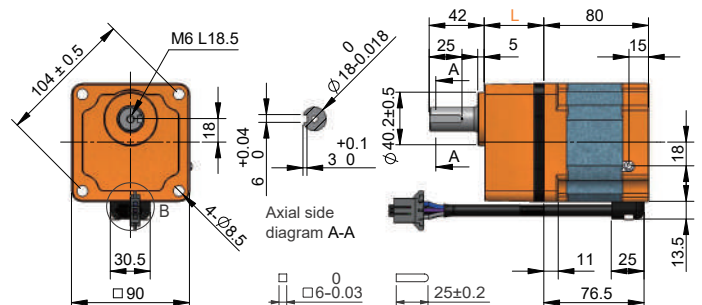
-Motor-

◆ 9BU200S-D T / 9BU400S-D4 T Weight : 2455g / 2650g



◆ 9BU200P-D T + 9U□H

Weight : 2430g+W



*Pinion Shaft Type 9U5H~360H, the spec of Gearbox length L and weight W as following:

	Model	9U5H~20H	9U30H~100H	9U200H~360H
Gearbox	Length(mm)	45.5	58.5	64.5
	Weight(g)	860	1125	1265



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