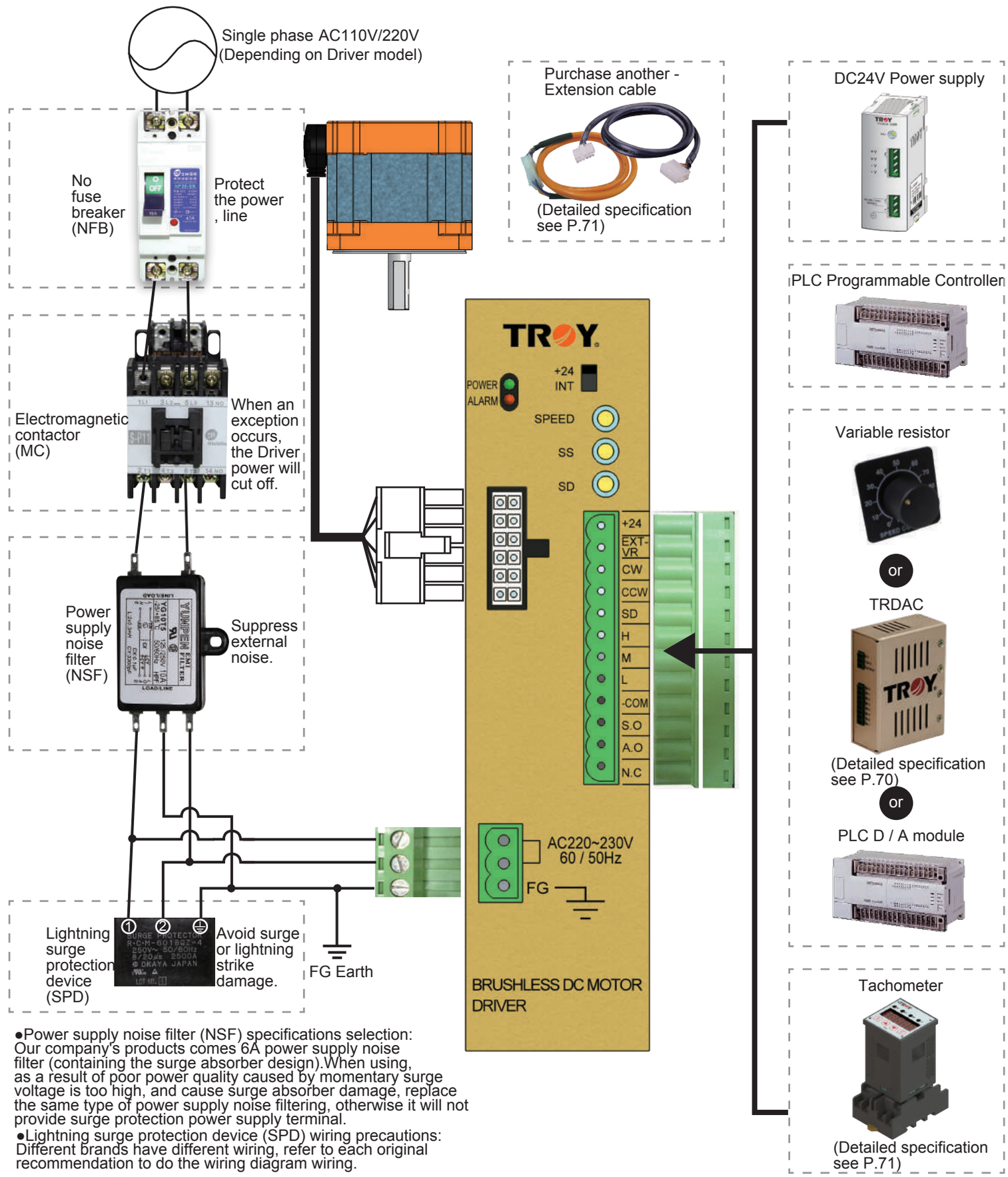
BS series

-For high stable speed demand

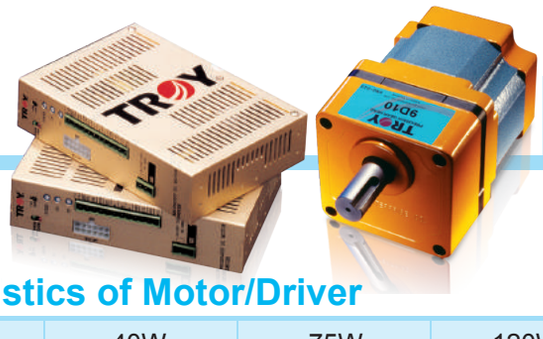
DC brushless Motor- BS series

■ System wiring diagrams



●Power supply noise filter (NSF) specifications selection: Our company's products comes 6A power supply noise filter (containing the surge absorber design).When using, as a result of poor power quality caused by momentary surge voltage is too high, and cause surge absorber damage, replace the same type of power supply noise filtering, otherwise it will not provide surge protection power supply terminal.

●Lightning surge protection device (SPD) wiring precautions: Different brands have different wiring, refer to each original recommendation to do the wiring diagram wiring.



■ Specifications and characteristics of Motor/Driver

Motor output power			20W	40W	75W	120W	200W
Round shaft Motor (M: E/M brake type) Pinion shaft Motor (M: E/M brake type)			6B020S-☐(M) (Note1) 6B020P-☐(M)	6B040S-☐(M) 6B040P-☐(M)	9B075S-☐(M) 9B075PD-☐(M)	9B120S-☐(M) 9B120PD-☐(M)	9B200S-☐(M) 9B200P-☐(M)
Motor specification certificates	-1 Type		c UL us RoHS IP54				
	-2 Type		CE CCC RoHS IP54				
Driver			DB020-☐	DB040-☐	DB075-☐	DB120-☐	DB200-☐
Driver specification certificates			c UL us CE RoHS				
Input power voltage	-1 Type Single Phase AC110~115V 50/60 HZ	Max. Current (A)	2.8	2.8	2.8	3.3	4.9
		Rated Current (A)	0.65	1.2	1.95	2.7	4
	-2 Type Single Phase AC220~230V 50/60 HZ	Max. Current (A)	1.6	1.6	1.6	1.75	2.8
		Rated Current (A)	0.35	0.65	1.05	1.45	2.3
Starting Torque (Nm)			0.08	0.16	0.33	0.5	1
Rated Torque (Nm)			0.065	0.14	0.25	0.4	0.8
Allowable load inertia GD²(Kgcm²)			4.78	9.55	17.45	23.99	112.81
E/M Brake (※ Only E/M brake series have E/M)	Input line voltage(V)		DC24		DC24		DC24
	Consumption power(W)		6.5		7.5		7.5
	Maintenance(Nm)		0.3		0.5		0.5
	Attraction time(ms)		30		33		33
	Release time(ms)		87		95		95
Speed control range(r/min)			300~3000				250~2500
Speed variation rate	To load		±0.05%Max. at 3000r/min(200/400W: at 2500r/min), no load~rated load.				
	To voltage		±0.05% Voltage variation ±15%, at 3000r/min(200/400W: at 2500r/min), no load.				
	To Temperature		±0.05% 0-+40°C at 3000r/min(200/400W: at 2500r/min), no load.				
Slow start/Slow down time set up			20~120W:0.5~15sec, Motor from 0~3000r/min or from 0~3000r/min 200W:0.8~15sec, Motor from 0~2500r/min or from 0~2500r/min				
Speed control method			●Control from external variable resistor (resistance 20KΩ) ●Control from internal variable resistor (also work with external variable resistor for 2 sections speed switch control) ●Control from external DC voltage (DC0~5V/1 mA above) ●Work with D/A speed setter TRDAC (Option)				
Signal input/output methods			●Photo coupler input interface ●Transistor Open Collector output interface				
Function			●Zero point control, can connect to PLC or Transistor, Relay type I/O module ●Within speed control range, Motor sets Flat Torque output ●Instant brake stop, Slow up/Slow down ●Can operate in parallel ●120W/200W have regenerative resistor connection terminals, can based on customers' load condition to select external resettable resistors to consume regenerated energy (regenerated energy absorption protection : start operation at up down, Coiling or inertial load operation)				
Protection function			When protection functions activate, Motors stop automatically, Driver alarm signals output ●Overload protection: starts when Motor activate torque for more than 5 sec ●Over heat protection: starts when Driver internal heat sink over 80°C ●Over voltage protection: (1) starts when up down, coiling or over inertial load (2) starts when Driver input AC voltage appears transient high voltage ●Transient over current protection: When driver AC input power connects in parallel with large power for Power on, easy activates by large transient current ●Lack of phase protection: starts when Motor power cable has bad connection, broken cable or feedback signal suffers interference				
Insulation impedance			Applies DC500V high resistance meter test, power, F.G grounding, I/O terminal resistance value is over 100MΩ				
Insulation high voltage			Power and F.G connect to ground, terminals pass with 1.8KV/60Hz high voltage, power and I/O connectors pass with 3KV/60Hz high voltage for 1 minute, no abnormal condition				
Ambient temperature/Humidity range			0~+40°C, under 85% relative humidity (avoid dust and erosion, combustion gas)				

Note1：Please fill the power in the box-☐, ① indicates AC110V~115V , ② indicates AC220V~230V. ※ 1 Nm=10.19716Kgcm

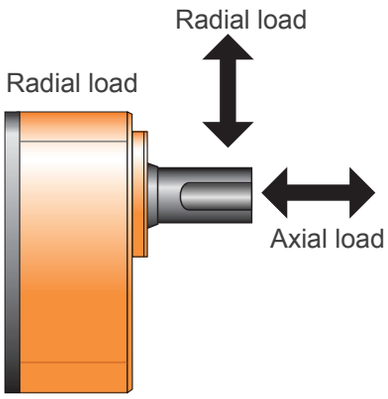
■ Gearhead specifications & allowable speed range/allowable torque/allowable inertia load (GD^2)

Gear ratio		3	3.6	5	6	7.5	9	10	12.5	15	18	20	25	30
Speed range (r/min)	High speed	1000	883	600	500	400	333	300	240	200	166	150	120	100
	Low speed	100	83.4	60	50	40	33.4	30	24	20	16.7	15	12	10
Allowable torque (Nm)	6B020P-□(M) +6D□	0.18	0.21	0.29	0.35	0.44	0.53	0.59	0.73	0.88	1.1	1.2	1.4	1.7
Allowable inertia load GD^2 ($kgcm^2$)		2.25	3.24	6.25	9.00	14.1	20.3	25.0	39.1	56.3	81.0	100	156	225
Allowable torque (Nm)	6B040P-□(M) +6D□	0.35	0.42	0.59	0.7	0.88	1.1	1.2	1.5	1.8	2.1	2.3	2.8	3.4
Allowable inertia load GD^2 ($kgcm^2$)		4.50	6.48	12.5	18.0	28.1	40.5	50.0	78.1	113	162	200	313	450
Allowable torque (Nm)	9B075PD-□(M) +9D □	0.68	0.81	1.1	1.4	1.7	2	2.3	2.8	3.4	4.1	4.5	5.4	6.5
Allowable inertia load GD^2 ($kgcm^2$)		27.9	40.2	77.6	112	175	251	310	485	698	1005	1241	1939	2792
Allowable torque (Nm)	9B120PD-□(M) +9D □	1.1	1.3	1.8	2.2	2.7	3.2	3.6	4.5	5.4	6.5	7.2	8.6	10.3
Allowable inertia load GD^2 ($kgcm^2$)		38.4	55.3	107	154	240	345	426	666	960	1382	1706	2666	3838
Speed range (r/min)	High speed	833	694	500	416	333	277	250	200	166	138	125	100	83
	Low speed	83.4	69.5	50	41.7	33.4	27.8	25	20	16.7	13.9	12.5	10	8.4
Allowable torque (Nm)	9B200P-□(M) +9D□H	2.2	2.6	3.6	4.3	5.4	6.5	7.2	9	10.8	13	14.4	17.2	20.6
Allowable inertia load GD^2 ($kgcm^2$)		181	260	501	722	1128	1624	2006	3134	4512	6498	8022	12534	18050

Gear ratio		36	50	60	75	90	100	120	150	180	200	250	300	360
Speed range (r/min)	High speed	83	60	50	40	33	30	25	20	16	15	12	10	8
	Low speed	8.4	6	5	4	3.4	3	2.5	2	1.7	1.5	1.2	1	0.9
Allowable torque (Nm)	6B020P-□(M) +6D□	2	2.8	3.4	4.2	5	5.6	6.3	6.5					
Allowable inertia load GD^2 ($kgcm^2$)		324	625					625						
Allowable torque (Nm)	6B040P-□(M) +6D□	4	5.6	6.5				6.5						
Allowable inertia load GD^2 ($kgcm^2$)		625						625						
Allowable torque (Nm)	9B075PD-□(M) +9D □	7.7	10.8	12.9	16.1	19.4	21.5	24.3	30.4	36.5	40			
Allowable inertia load GD^2 ($kgcm^2$)		4020	7756	11000				11000						
Allowable torque (Nm)	9B120PD-□(M) +9D □	12.4	17.2	20.6	25.8	31	34.4	38.9	40					
Allowable inertia load GD^2 ($kgcm^2$)		5527	10662	11000				11000						
Speed range (r/min)	High speed	69	50	41	33	27	25	20	16	13	12	10	8	6
	Low speed	7	5	4.2	3.4	2.8	2.5	2.1	1.7	1.4	1.3	1	0.8	0.7
Allowable torque (Nm)	9B200P-□(M) +9D□H	24.8	34.4	41.3	50			50						
Allowable inertia load GD^2 ($kgcm^2$)		25991	45000					45000						

* Gearhead 6D□/9D□/9D□H, please fill gear ratio in □.
* ■ In above table stands for after installation of Gearhead, the axis rotation direction is reversed with Motor axis direction; without marking stands for the same direction as Motor axis rotation.
* 1Nm = 10.197Kgcm.
* The Gearheads of all series have RoHS CE certificate.
* Also available orthogonal Gearhead: hollow shaft type 9VD□(H), the solid single shaft type 9VD□A(H), the solid biaxial shaft type 9VD□B(H), and size please refer to P.10.

■ Motor allowable radial load/axial load



① Radial load (hanging load): loading is vertical to Gearhead axis power output

② Axial load (thrust load): loading is in the direction of Gearhead axis power output

◆ Round shaft type

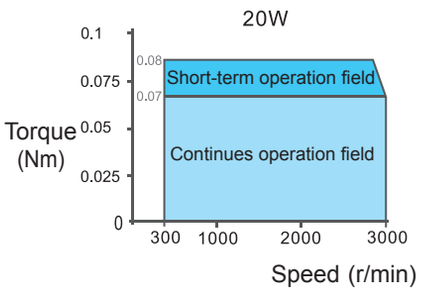
Model	Permissible overhung load (Unit: Kg f)		Permissible thrust load (Unit: Kg f)
	10mm from output shaft front	20mm from output shaft front	
6B020S-☐(M)	8	9	Permissible axial loading, not more than 1/2 of motor weight. But please try to avoid applying force in the horizontal direction (axial) of motor shaft, when exceeds that will reduce motor service life. If axial loading is needed, we recommend applying indirect transmission, such as: couplings, belts, chains, etc...
6B040S-☐(M)	8	9	
9B075S-☐(M)	13	15	
9B120S-☐(M)	16	17	
9B200S-☐(M)	16	17	

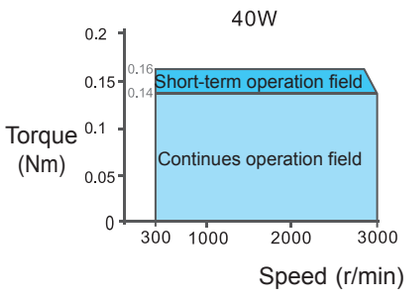
◆ Pinion shaft type (Gearhead attached)

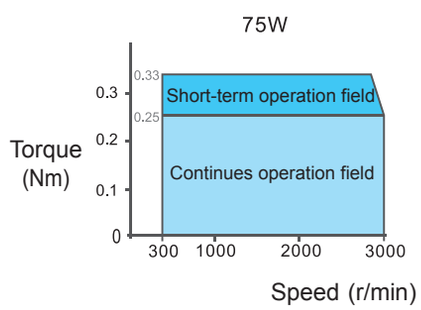
Model	Gear ratio	Permissible overhung load (Unit: Kg f)		Permissible thrust load (Unit: Kg f)
		10mm from output shaft front	20mm from output shaft front	
6B020P-☐(M) + 6D☐ 6B040P-☐(M) + 6D☐	3, 3.6, 5	10	15	4
	6, 7.5, 9, 10, 12.5, 15,18, 20	15	20	
	25, 30, 36, 50, 60, 75,90,100,120, 150, 180,200, 250, 300, 360	20	30	
9B075PD-☐(M) + 9D☐ 9B120PD-☐(M) + 9D☐	3, 3.6, 5	30	40	15
	6, 7.5, 9, 10, 12.5, 15,18, 20	40	50	
	25, 30, 36, 50, 60, 75,90,100,120, 150, 180,200, 250, 300, 360	50	65	
9B200P-☐(M) + 9D☐H	3, 3.6, 5	30	40	15
	6, 7.5, 9, 10, 12.5, 15,18, 20	40	50	
	25, 30, 36, 50, 60, 75,90,100,120, 150, 180,200, 250, 300, 360	50	65	

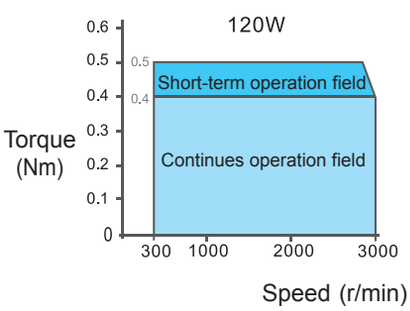
* Motor 6B020S-☐(M)…etc, please fill in ☐ with line power voltage. [1]: stand for single phase AC110~115V, [2]: stand for single phase AC220~230V.
* Gearhead 6D☐/9D☐/9D☐H, please fill gear ratio in ☐.

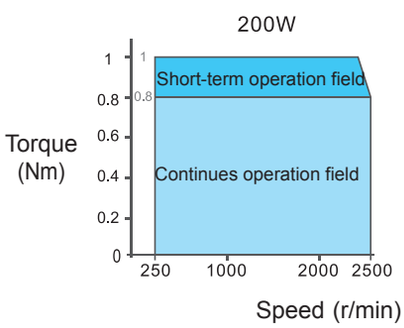
■ Speed - Torque characteristic diagrams



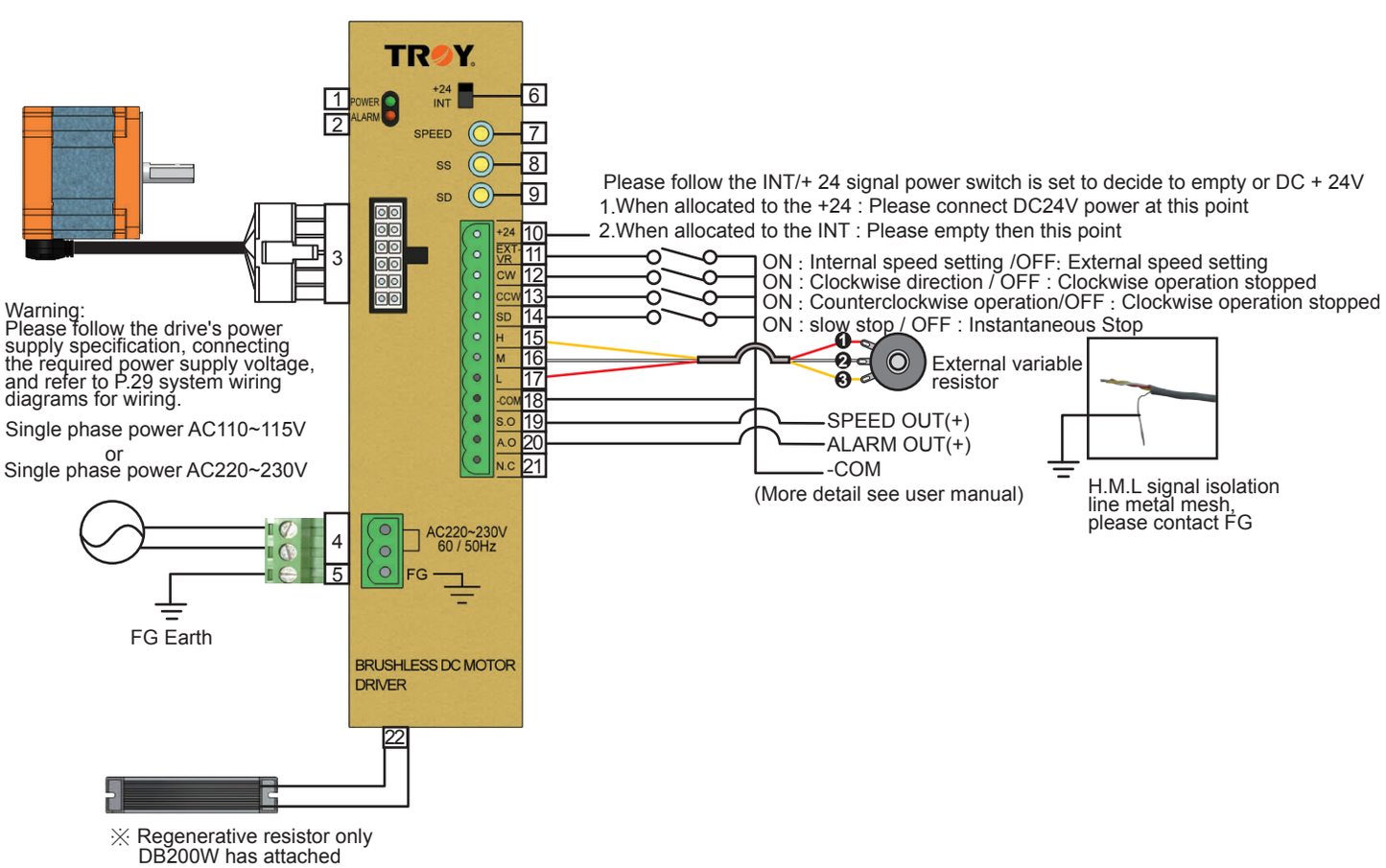






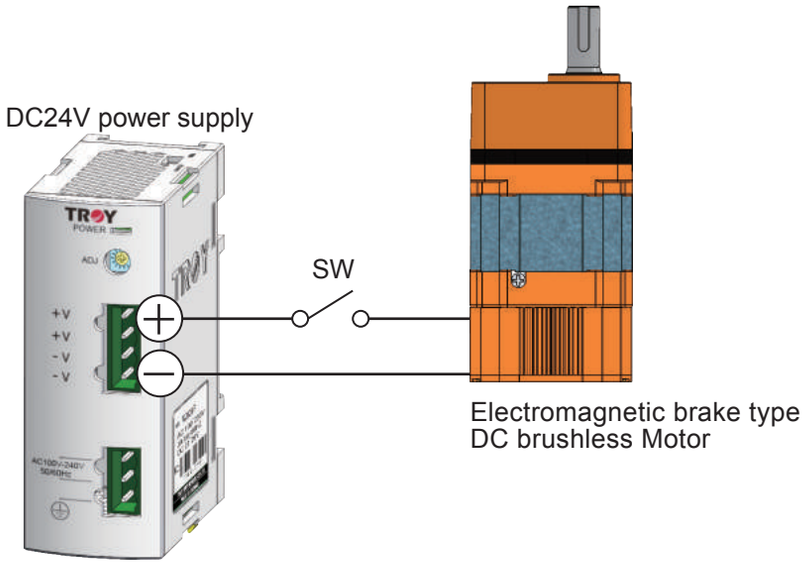


■ Driver panel functions and wiring instructions



Number	Panel marked	Function	Explanation
1	POWER	Power indicator	When input power LED (green) lights
2	ALARM	Unusual indicator	Overload, overheating, overvoltage, instantaneous overcurrent, under equal any protective function will activate LED (red) lights
3	MOTOR	Motor wiring connector	Motor and Driver connection
4	AC110~115V or 220~230V 60/50Hz	Power voltage input terminal	AC power voltage input connection
5	FG	Power ground terminal	Power ground connecting
6	+24/INT	Signal power switch	+24 : When using an external power DC24V control (PLC control applicable to the case) INT : Using Driver internal DC24V power control (for relays, switches and control applications)
7	SPEED	Internal speed setting button	20~120W speed control range : 300~3000r/min 200W speed control range : 250~2500r/min
8	SS	Slow start time setting button	20~120W : 0.5~15sec 200W : 0.8~15sec
9	SD	Slow stop time setting button	20~120W : 0.5~15sec 200W : 0.8~15sec
10	+24	Signal input power DC24V	When an external DC24V power control, external DC24V power connects to the terminal
11	EXT-VR	Speed setting switch to select the input mode	External/Internal speed setting mode switch selection
12	CW	Clockwise operation input	Clockwise operation/stop switch input
13	CCW	Counterclockwise operation input	Counterclockwise operation/stop switch input
14	SD	Slow stop time setting button	Slow (depending on SD button to set the time for the slow stopped)/instantaneous stop mode select switch
15	H	External speed setting input	An external connection terminal variable resistor or external DC voltage (0 ~ 5V) control of 20~120W speed control range : 300~3000r/min 200W speed control range : 250~2500r/min
16	M		
17	L		
18	-COM	Control signal grounding	GND contact inputs and outputs a control signal common ground line, and the external power DC24V
19	S.O.	Speed signal output	Detecting Motor speed using : 20 ~ 120W digital signal output 12 Pulse/rev 200W digital signal output 24 Pulse/rev
20	A.O.	Abnormal warning signal output	Overload, overheating, overvoltage, overcurrent moment, when any one of the less equal protection function is activated, Motor will stop naturally, and outputs an abnormality warning signal
21	N.C.	No connection	Do not make any connection
22	RG	None	20/40/75W : No this connection terminal
		Regenerative resistor connection terminal	120/200W : According to customer load conditions selected external regenerative resistance, regenerative energy consumption

■ Motor electromagnetic brake wiring instructions



◆ Operation instruction

Motor start/Motor stop with external electromagnetic brake operating procedures:

Motor start: Must energize external electromagnetic brake before the Motor starts

Step :

External electromagnetic brake power ON

↓

Attracting waiting time (This is the time of the external electromagnetic brake actuation, the purpose: to keep the force is released)

↓

Motor Driver starting signal ON

↓

Motor starts running

Motor Stop : The Motor is stopped before the operation do not yet fully external electromagnetic brake power.

Step :

Motor Driver stop signal ON

↓

Wait 0.2sec (reference value, this is the operation of the Motor to a complete stop time)

↓

External electromagnetic brake power is turned OFF

↓

Waiting for the release time (This is the external electromagnetic brake actuation time, purpose: To generate holding force)

↓

Motor stopped (a holding force)

◆ Precautions

1.This series of external electromagnetic brake using the brake power is part of the hold-type.

2.External electromagnetic brake is designed to allow the Motor stops when the holding force has to be used as a safety brake, electromagnetic brake, do not use this as a Motor positioning or emergency brake applications.

3.Always to pull the Motor before starting the external electromagnetic brake energized (means no brakes); Motor stopped before the operation do not yet fully external electromagnetic brake power (expressed brakes).

4.External electromagnetic brake suction time and release time value refer to the product specification.

5.Motor brakes to stop for about 0.2sec (test conditions in the Motor no-load speed 3000r / min, the electromagnetic brake is energized, the brake actuator signal ON time of the Driver, this time as a reference base, but the actual length of time will stop according to the inertia load or frictional load ... different load patterns and has fluctuated.

6.We recommend to do the actual measuring device operating time at the time of commissioning.

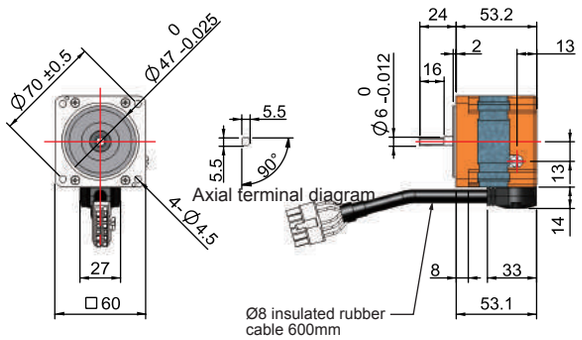
■ Dimensions - Motor/Gearhead

Unit : mm

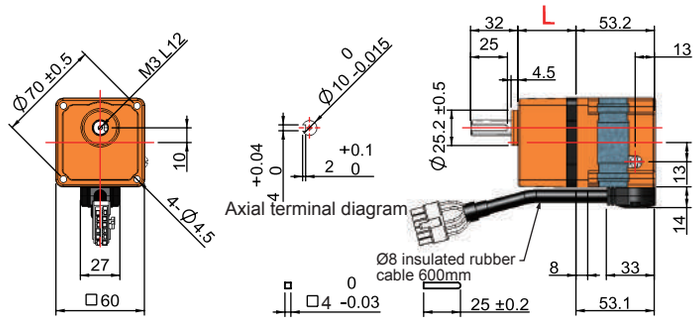
Round shaft type	Pinion shaft type

20W/□60mm

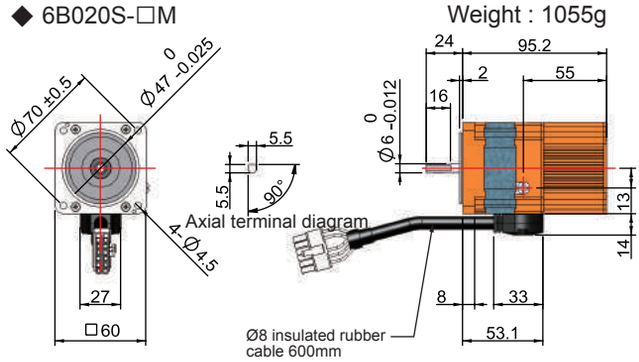
◆ 6B020S-□ Weight : 655g



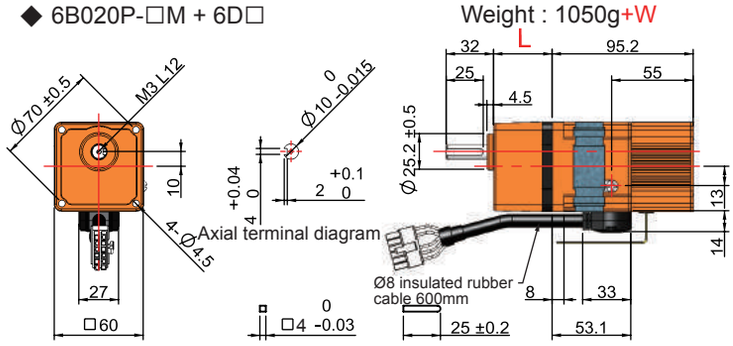
◆ 6B020P-□ + 6D□ Weight : 650g+W



◆ 6B020S-□M Weight : 1055g

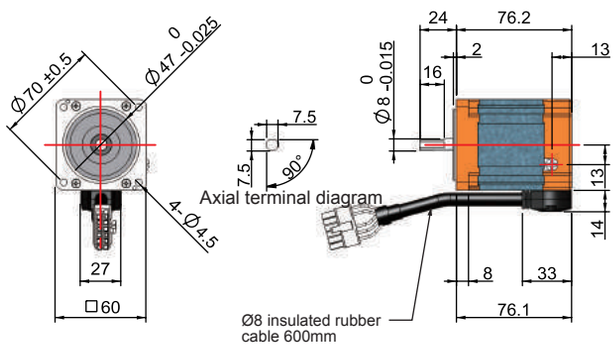


◆ 6B020P-□M + 6D□ Weight : 1050g+W

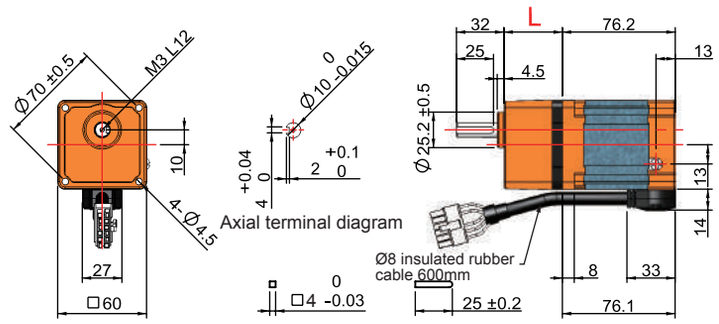


40W/□60mm

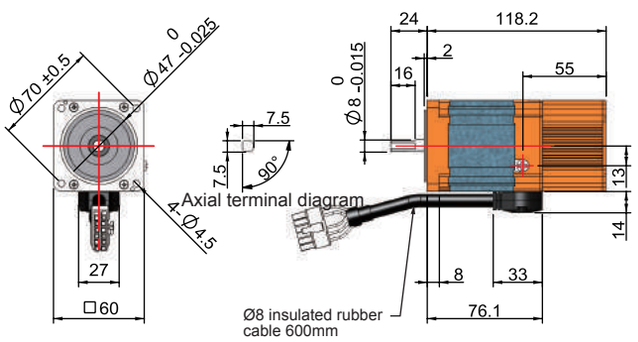
◆ 6B040S-□ Weight : 1050g



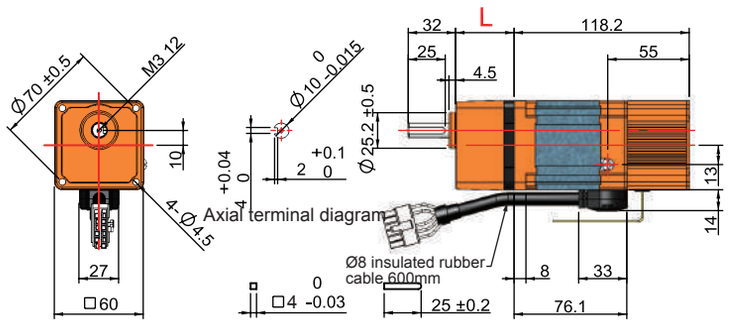
◆ 6B040P-□ + 6D□ Weight :1040g+W



◆ 6B040S-□M Weight : 1450g



◆ 6B040P-□M + 6D□ Weight : 1440g+W



* Figure above dimensions tolerance values are not labeled a general machining tolerances, the control mode, refer to P.12, others have marked tolerance values according to the drawing labeled based.

* 6B pinion shaft type 6D3-6D360, Gearhead length L and weight W specification as following:

	Model	6D3~6D20	6D25~6D100	6D120~6D360
Gearhead	Length L (mm)	39.5	39.5	43.5
	Weight W (g)	300	325	365

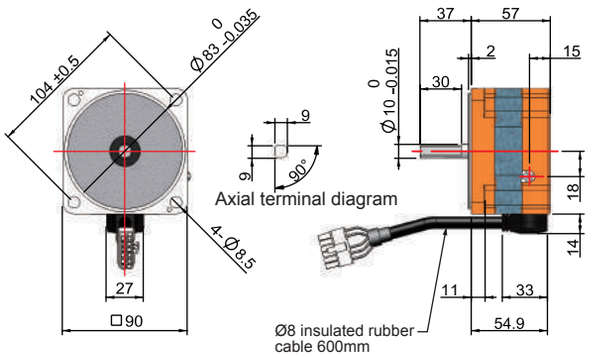
■ Dimensions - Motor/Gearhead

Unit : mm

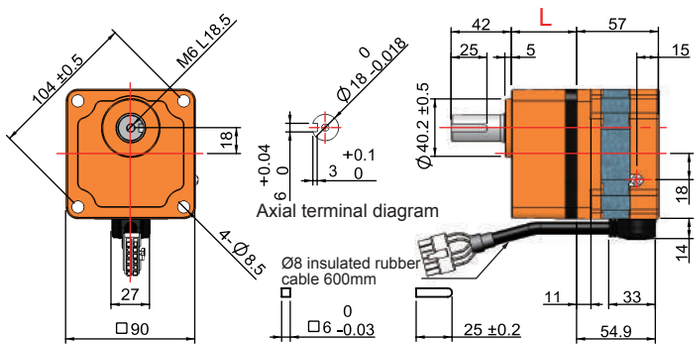
Round shaft type | Pinion shaft type

75W/□90mm

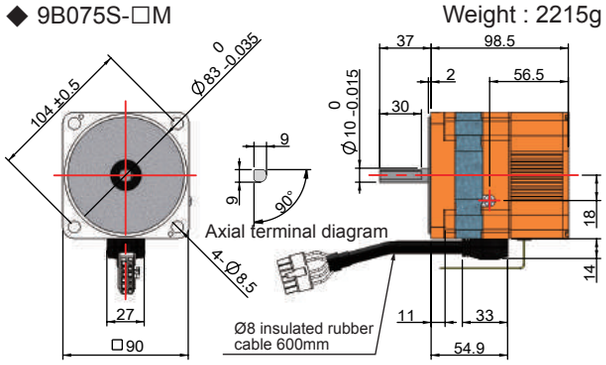
◆ 9B075S-□ Weight : 1465g



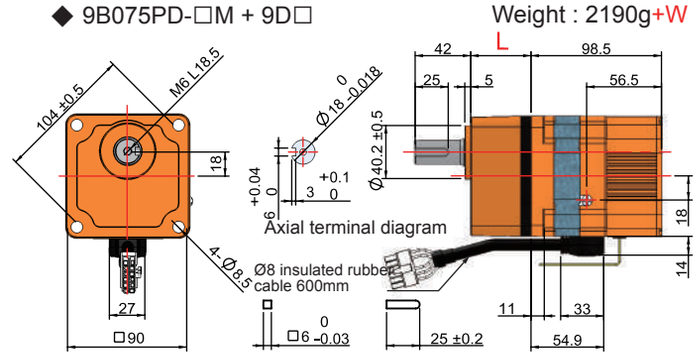
◆ 9B075PD-□ + 9D□ Weight : 1440g+W



◆ 9B075S-□M Weight : 2215g

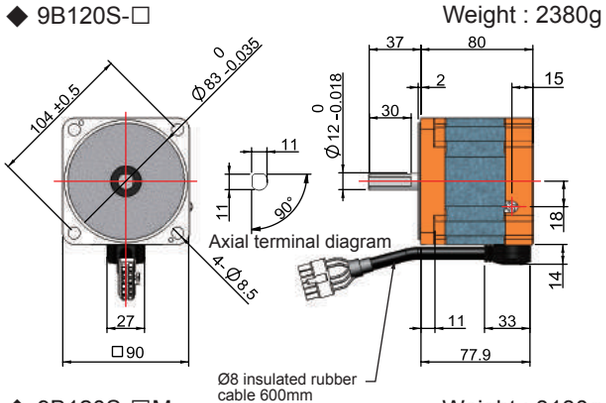


◆ 9B075PD-□M + 9D□ Weight : 2190g+W

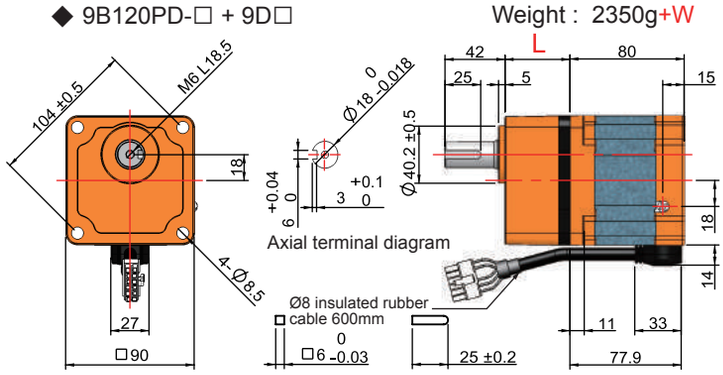


120W/□90mm

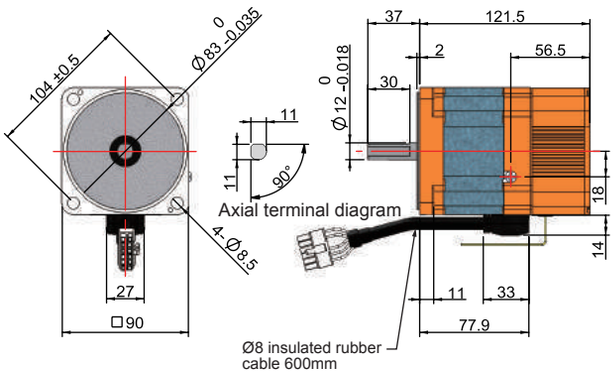
◆ 9B120S-□ Weight : 2380g



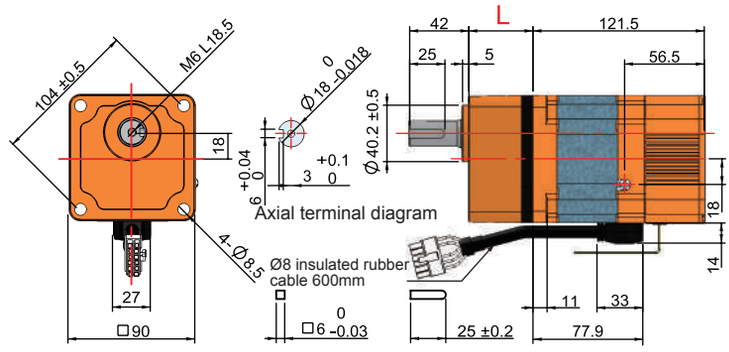
◆ 9B120PD-□ + 9D□ Weight : 2350g+W



◆ 9B120S-□M Weight : 3130g



◆ 9B120PD-□M + 9D□ Weight : 3100g+W



* Figure above dimensions tolerance values are not labeled a general machining tolerances, the control mode, refer to P.12, others have marked tolerance values according to the drawing labeled based.

* 9B pinion shaft type 9D3-9D360, Gearhead length L and weight W specification as following:

	Model	9D3~9D20	9D25~9D100	9D120~9D360
Gearhead	Length L (mm)	45.5	58.5	64.5
	Weight W (g)	860	1125	1265

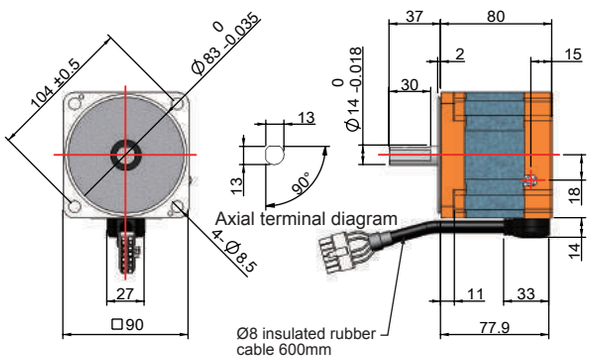
■ Dimensions - Motor/Gearhead

Unit : mm

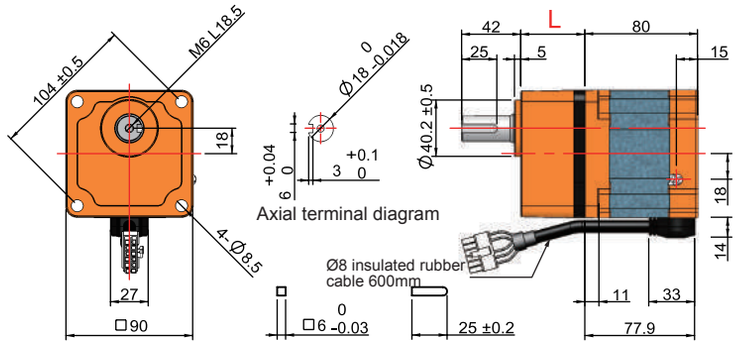
Round shaft type | Pinion shaft type

200W/□90mm

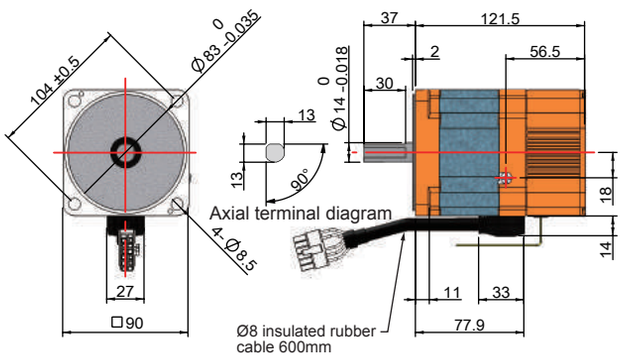
◆ 9B200S-□ Weight : 2530g



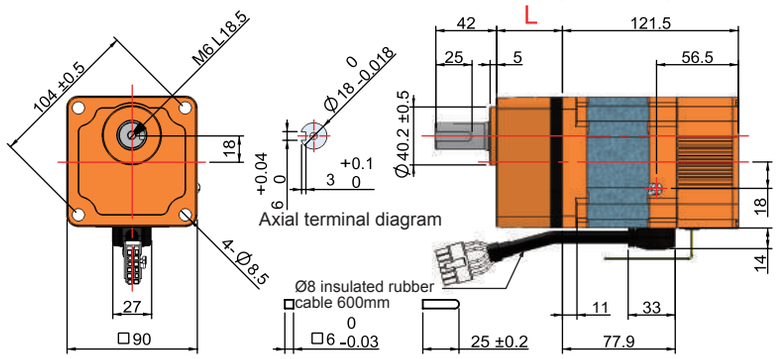
◆ 9B200P-□ + 9D□H Weight : 2500g+W



◆ 9B200S-□M Weight : 3280g



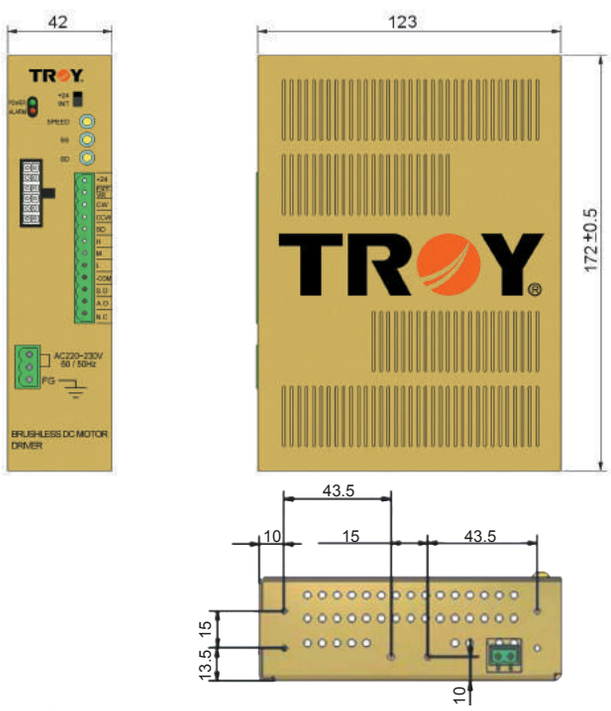
◆ 9B200P-□M + 9D□H Weight : 3250g+W



✻ 9B pinion shaft type 9D3H-9D360H, Gearhead length L and weight W specification as following:

		9D3H~9D20H	9D25H~9D100H	9D120H~9D360H
Gearhead	Model			
	Length L (mm)	45.5	58.5	64.5
	Weight W (g)	860	1125	1265

■ Dimensions - Driver



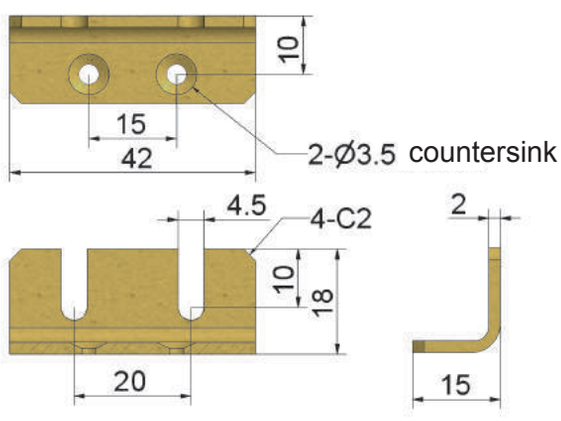
Model : DB020-□ / DB040-□ Weight : 660g

DB075-□ Weight : 670g

DB120-□ / DB200-□ Weight : 680g

Dimensions are common

Mounting sheet

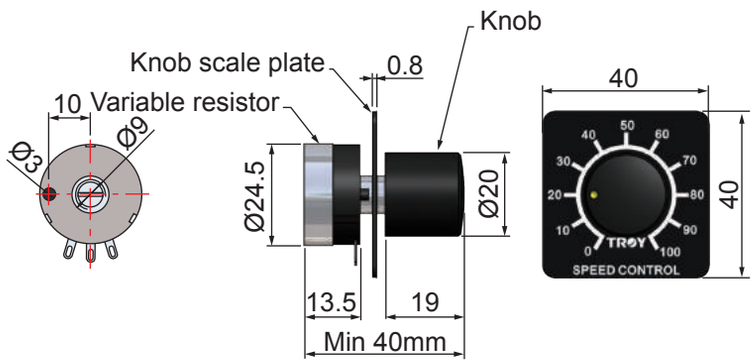


✻ Figure above dimensions tolerance values are not labeled a general machining tolerances, the control mode, refer to P.12, others have marked tolerance values according to the drawing labeled based.

■ Dimensions - Variable resistor

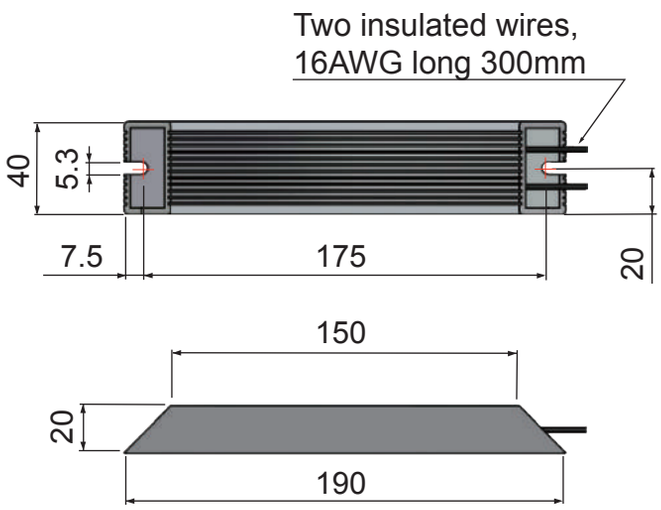
Unit : mm

Weight : 30g



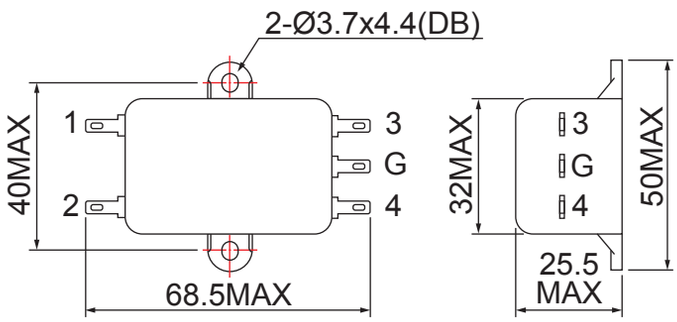
■ Dimensions - Regenerative resistance dimensions (Only 150 / 200W attached)

Weight : 260g



■ Dimensions - Power supply noise filter

Weight : 50g



* Figure above dimensions tolerance values are not label on general maching tolerances, the control mode refer to P.12, others have marked tolerance values according to the drawing labeled based.

Motor selection sheet

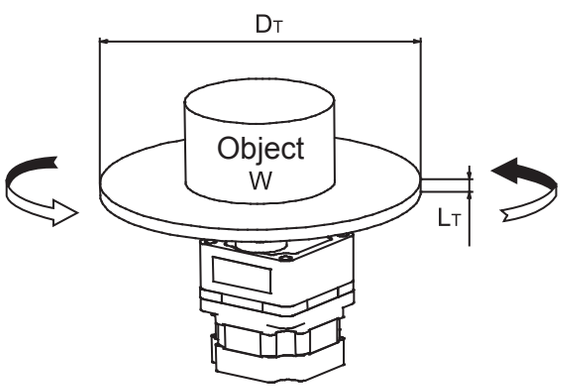
■Machanism:【Operating of large index table】 Date dd / mm / yy

Company name:	Contact person:	Department/Title:	
TEL:	FAX:	Application:	Use area:
Power input: ☐Single -phase AC: ___V ☐Three -phase AC: ___V ☐DC: ___V			Frequency: Hz

Activated mode: ☐Single direction operating continuously → ☐Rated speed
☐Regulated speed (Range: ___ rpm ~ ___ rpm)
☐Single direction run、stop、run、stop →(Activated time: ___ Second/Sequence, stop time: ___ Second/Sequence; Run, stop total ___ Sequence /Minutes)
☐Clockwise/counter clockwise repeated →(CW: ___ Second/Sequence、Stop: ___ Second/Sequence、CCW: ___ Second/Sequence、Stop: ___ Sequence/Minute)

Required motor: AC induction motor: ☐Induction ☐Reversible ☐Speed control ☐Magnetic brake ☐Torque
DC brushless motor: ☐BMS Series ☐BS Series ☐SBS Series ☐UBS Series ☐DBS Series
Stepping motor: ☐2 phase ☐3 phase ☐5 phase

【Mechanism reference】



【Please sketch your actual transmission part of mechanism】

【Drive mechanism and operating data】

Object mass		W = _____ kg
Index table diameter		DT = _____ cm
Width		LT = _____ cm
Material		ρ = _____
Positioning angle	*(note)	θ = _____ deg
Positioning time	*(note)	TO = _____ sec
Stopping accuracy		± _____ mm

*(note)Please enter the max speed

Recommendation products (Selected specs) :

After complete above information, please fax it to nearby regional business office, we will select applicable product for you as soon as possible

Motor selection sheet

■Machanism:【Lead screw】 Date dd / mm / yy

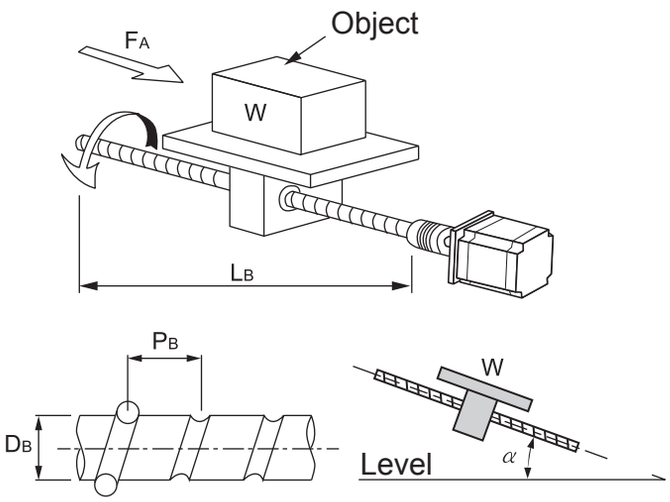
Company name:	Contact person:	Department/Title:	
TEL:	FAX:	Application:	Use area:

Power input: ☐Single -phase AC: ___V ☐Three -phase AC: __V ☐DC: __V Frequency: Hz

Activated mode: ☐Single direction operating continuously → ☐Rated speed
☐Regulated speed (Range: __ rpm ~ __ rpm)
☐Single direction run、stop、run、stop → (Activated time: __ Second/Sequence, stop time: __ Second/Sequence; Run, stop total __ Sequence /Minutes)
☐Clockwise/counter clockwise repeated → (CW: __ Second/Sequence、Stop: __ Second/Sequence、CCW: __ Second/Sequence、Stop: Sequence/Minute)

Required motor: AC induction motor: ☐Induction ☐Reversible ☐Speed control ☐Magnetic brake ☐Torque
DC brushless motor: ☐BMS Series ☐BS Series ☐SBS Series ☐UBS Series ☐DBS Series
Stepping motor: ☐2 phase ☐3 phase ☐5 phase

【Mechanism reference】



【Please sketch your actual transmission part of mechanism】

【Drive mechanism and operating data】

Work+Table mass	W = _____kg		frictional coefficient of	μ = _____	
Screw angle	α = _____deg		sliding surfaces	L = _____cm	
Screw shaft diameter	D_B = _____cm		Positioning distance	*(note)	T_O = _____sec
Screw Length	L_B = _____cm		Positioning time	*(note)	F_A = _____kg
Screw pitch	P_B = _____cm		Push / Pull force		±_____mm
Material	ρ = _____		Stopping accuracy		
Screw efficiency	η = _____				
Internal frictional coefficient of pilot pressure nut	μ_0 = _____				

*(note)Please enter the max speed

Recommendation products (Selected specs):

※ After complete above information, please fax it to nearby regional business office, we will select applicable product for you as soon as possible

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Motor selection sheet

■ Machanism:【Belt and pulley】 Date dd / mm / yy

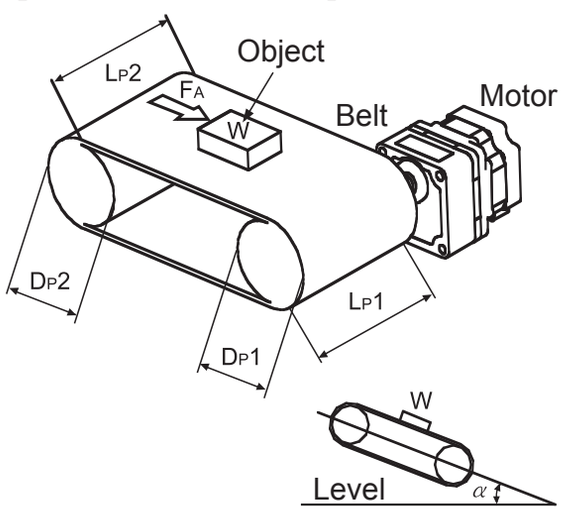
Company name:	Contact person:	Department/Title:	
TEL:	FAX:	Application:	Use area:

Power input: ☐Single -phase AC: ___V ☐Three -phase AC: ___V ☐DC: ___V Frequency: Hz

Activated mode: ☐Single direction operating continuously → ☐Rated speed
☐Regulated speed (Range: ___ rpm ~ ___ rpm)
☐Single direction run、stop、run、stop →（Activated time: ___ Second/Sequence, stop time: ___ Second/Sequence; Run, stop total ___ Sequence /Minutes）
☐Clockwise/counter clockwise repeated →（CW: ___ Second/Sequence、Stop: ___ Second/Sequence、CCW: ___ Second/Sequence、Stop: Sequence/Minute）

Required motor: AC induction motor: ☐Induction ☐Reversible ☐Speed control ☐Magnetic brake ☐Torque
DC brushless motor: ☐BMS Series ☐BS Series ☐SBS Series ☐UBS Series ☐DBS Series
Stepping motor: ☐2 phase ☐3 phase ☐5 phase

【Mechanism reference】



【Please sketch your actual transmission part of mechanism】

【Drive mechanism and operating data】

Work + Table + Pulley	W = _____ kg	Belt、pulley efficiency	η = _____
Screw angle	α = _____ deg	frictional coefficient of sliding surfaces	μ = _____
Pulley diameter	DP1 = _____ cm	Positioning distance *(note)	L = _____ cm
Width	LP1 = _____ cm	Positioning time *(note)	TO = _____ sec
Material	ρ1 = _____	Push / Pull force	FA = _____ kg
Pulley diameter	DP2 = _____ cm	Stopping accuracy	± _____ mm
Width	LP2 = _____ cm		
Material	ρ2 = _____	*(note)Please enter the max speed	

Recommendation products（Selected specs）：

※ After complete above information, please fax it to nearby regional business office, we will select applicable product for you as soon as possible

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Motor selection sheet

■Machanism:【Others】 Date dd / mm / yy

Company name:	Contact person:	Department/Title:	
	FAX:	Application:	Use area:

Power input: ☐Single -phase AC: ___V ☐Three -phase AC: ___V ☐DC: ___V Frequency: Hz

Activated mode: ☐Single direction operating continuously → ☐Rated speed
☐Regulated speed (Range: ___ rpm ~ ___ rpm)
☐Single direction run、stop、run、stop →(Activated time: ___ Second/Sequence, stop time: ___ Second/Sequence; Run, stop total ___ Sequence /Minutes)
☐Clockwise/counter clockwise repeated →(CW: ___ Second/Sequence、Stop: ___ Second/Sequence、CCW: ___ Second/Sequence、Stop: Sequence/Minute)

Required motor: AC induction motor: ☐Induction ☐Reversible ☐Speed control ☐Magnetic brake ☐Torque
DC brushless motor: ☐BMS Series ☐BS Series ☐SBS Series ☐UBS Series ☐DBS Series
Stepping motor: ☐2 phase ☐3 phase ☐5 phase

【Drive mechanism and operating data】: Use the space below to draw the outline of your drive mechanism and fill in the operating conditions required

Recommendation products (Selected specs):

※ After complete above information, please fax it to nearby regional business office, we will select applicable product for you as soon as possible

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