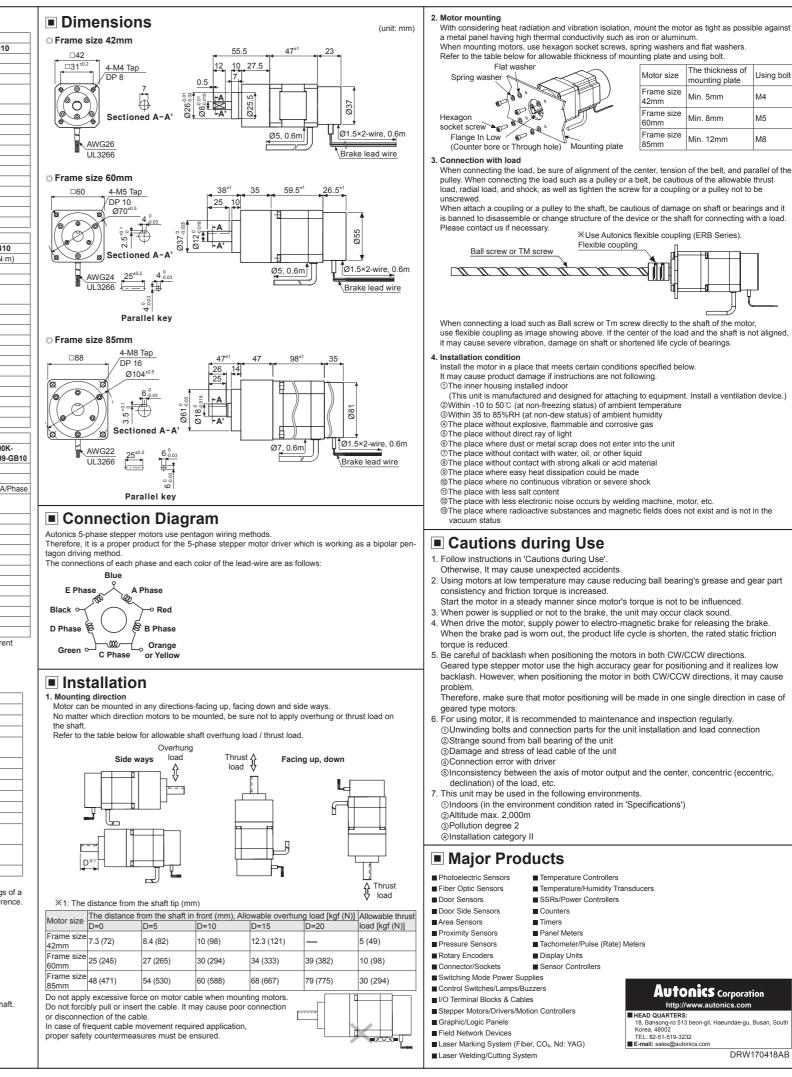


% The above specifications are subject to change and some models may be discontinued without notice.
% Be sure to follow cautions written in the instruction manual and the technical descriptions (catalog, homepage).

Ma	me size 42mm del		A10K-S545	-GB5	A15K-S545-0	B7.2	A15K-S545	-GB10						
	x. holding torque ^{**1}	10kgf·cm (1		15kgf·cm (1.5	N·m)									
	tor moment of inertia	1 ^{×2}		8×10 ⁻⁷ kg·m ²	2)									
	ted current		0.75 A/Phas 0.144° / 0.07		0.1°/0.05°		0.072° / 0.03	6°						
Basic step angle			(Full/Half ste		(Full/Half step)	(Full/Half ste							
	ar ratio		1:5		1:7.2		1:10							
_	wable speed range		0 to 360rpm	<u> </u>	0 to 250rpm		0 to 180rpm							
	lash [min] ±35' (0.58			0%										
	Rated excitation voltage 24VDC ±10%													
ŧ	Static friction torque		1.8kgf cm											
gne	Rotation part inertia		3×10 ⁻⁷ kg·cm ²											
-Ma	Insulation class		B type (130 °C) Power on: brake is released, power off: brake is operating											
Electro-Magnetic	B type brake Operating time		Power on: brake is released, power off: brake is operating Max. 15ms											
е Ш	Releasing time		Max. 25ms											
Ne	ight ^{**3}		Approx. 0.78kg (approx. 0.72kg)											
Fra	me size 60mm													
Model			A35K-M566-GB5 A40K-M566-GB7.2 A50K-M566-GB10											
Max. holding torque ^{*1}			35 kgf·cm (3	3.4 N·m)			50 kgf·cm (4.9 N·m)							
	tor moment of inertia	*2		280×10 ⁻⁷ kg·	·m²)									
Rat	ted current		1.4 A/Phase		0.1°/0.05°		0.070°/0.00	e°.						
3as	sic step angle		0.144° / 0.07		0.1° / 0.05° (Full/Half step)		0.072° / 0.036° (Full/Half step)							
Gear ratio			(Full/Half step) 1:5		(Full/Half step) 1:7.2		1:10	·r/						
Allowable speed range			0 to 360rpm	1	0 to 250rpm		0 to 180rpm							
3ad	Backlash [min]		±20' (0.33°)											
ake	Rated excitation voltage Rated excitation current		e 24VDC±10%											
сB	Rated excitation cur Static friction torque	nt 0.33A												
	Rotation part inertia	8kgf·cm 29×10 ⁻⁷ kg·c	cm ²											
Mag	Insulation class		B type (130											
2	B type brake	Power on: brake is released, power off: brake is operating					perating							
lect	Operating time		Max. 20ms											
			Max. 25ms	ka (annrey 4	57kg)									
			1.05 International Internation	kg (approx. 1.	.u/ny)									
Fra	me size 85mm		A 4 4015	A 4 4015	10001/	0001/	10001/	100011						
Мо	del		A140K- M599-GB5	A140K-	A200K- A M599-GB7.2 G	200K-		A200K-						
Max. holding torque ^{**1}			140 kgf·cm		200 kgf·cm (1		11000-0010	0000-00						
Rotor moment of inertia ^{**2}			2,700 g·cm ² (2,700×10 ⁻⁷ kg·m ²)											
Rated current			1.4 A/Phase 2.8 A/Phase 1.4 A/Phase 2.8 A/Phase 1.4 A/Phase 2.8 A/Ph											
Basic step angle			0.144° / 0.072° (Eull/Half step)		0.1° / 0.05° (Eull/Half step)		0.072° / 0.036°							
Gear ratio			(Full/Half step) 1:5		(Full/Half step) 1:7.2		(Full/Half step) 1:10							
して	owable speed range	1:5 1:7.2 1:10 0 to 360rpm 0 to 250rpm 0 to 180rpm												
	kloch [min]	±15' (0.25°)												
Allo		Rated excitation voltage			ge 24VDC ±10%									
Allo	Rated excitation vol		0.62A											
Allo	Rated excitation vol Rated excitation cur	rent		40kgf·cm										
Allo	Rated excitation vol Rated excitation cur Static friction torque	rent	40kgf·cm	·cm ²				153×10 ⁻⁷ kg·cm ²						
Allo	Rated excitation vol Rated excitation cur Static friction torque Rotation part inertia Insulation class	rrent	40kgf·cm 153×10 ⁻⁷ kg											
Allo	Rated excitation vol Rated excitation cur Static friction torque Rotation part inertia Insulation class B type brake	rrent	40kgf·cm 153×10 ⁻⁷ kg B type (130	°C)	ased, power off	: brake is c	perating							
lectro-Magnetic Brake 🖁 📄	Rated excitation vol Rated excitation cur Static friction torque Rotation part inertia Insulation class B type brake Operating time	errent e	40kgf·cm 153×10 ⁻⁷ kg B type (130 Power on: b Max. 15ms	°C)	ased, power off	: brake is c	operating							
Electro-Magnetic Brake 8 2	Rated excitation vol Rated excitation cur Static friction torque Rotation part inertia Insulation class B type brake Operating time Releasing time	e e e e e e e e e e e e e e e e e e e	40kgf·cm 153×10 ⁻⁷ kg B type (130 Power on: b Max. 15ms Max. 60ms	℃) orake is relea		: brake is c	operating							
Electro-Magnetic Brake 🖁	Rated excitation vol Rated excitation cur Static friction torque Rotation part inertia Insulation class B type brake Operating time Releasing time ight ^{¥3}		40kgf·cm 153×10 ⁻⁷ kg B type (130 Power on: b Max. 15ms Max. 60ms Approx. 5.5	℃) prake is relea kg (approx. §	5.2kg)			ourrest						
Electro-Magnetic Brake 🖁	Rated excitation vol Rated excitation cur Static friction torque Rotation part inertia Insulation class B type brake Operating time Releasing time ight ^{≋3} Max. holding torque	e is ma	40kgf·cm 153×10 ⁻⁷ kg B type (130 Power on: b Max. 15ms Max. 60ms Approx. 5.5 aintenance to	℃) prake is relea kg (approx. 5 prque in stop	5.2kg) pping the motor	when sup		current						
Electro-Magnetic Brake 8 1	Rated excitation vol Rated excitation cur Static friction torque Rotation part inertia Insulation class B type brake Operating time Releasing time ight ^{%3} Max. holding torque and is standard met Moment of rotor ine	e is ma thod f	40kgf cm 153×10 ⁷ kg B type (130 Power on: b Max. 15ms Max. 60ms Approx. 5.5 aintenance to or comparing dicates a pai	C) prake is relea kg (approx. 5 prque in stop g the perform rt, except Ge	5.2kg) ping the motor ance of motor ear Head part.	when sup s.		current						
Electro-Magnetic Brake 8 1	Rated excitation vol Rated excitation cur Static friction torque Rotation part inertia Insulation class B type brake Operating time Releasing time ight ^{¥3} Max. holding torque and is standard met	e is ma thod f	40kgf cm 153×10 ⁷ kg B type (130 Power on: b Max. 15ms Max. 60ms Approx. 5.5 aintenance to or comparing dicates a pai	C) prake is relea kg (approx. 5 prque in stop g the perform rt, except Ge	5.2kg) ping the motor ance of motor ear Head part.	when sup s.		current						
Electro-Magnetic Brake B II	Rated excitation vol Rated excitation cur Static friction torque Rotation part inertia Insulation class B type brake Operating time Releasing time ight ^{%3} Max. holding torque and is standard met Moment of rotor ine	e is ma thod f rtia in s pack	40kgf cm 153×10 ⁷ kg B type (130 Power on: b Max. 15ms Max. 60ms Approx. 5.5 aintenance to or comparing dicates a pai	C) prake is relea kg (approx. 5 prque in stop g the perform rt, except Ge	5.2kg) ping the motor ance of motor ear Head part.	when sup s.		current						
C S S S S S S S S S S S S S S S S S S S	Rated excitation vol Rated excitation cur Static friction torque Rotation part inertia Insulation class B type brake Operating time Releasing time ight ^{¥3} Max. holding torque and is standard met Moment of rotor ine The weight includes	e is ma thod f rtia in s pack ons	40kgf cm 153×10 ⁷ kg B type (130 Power on: b Max. 15ms Max. 60ms Approx. 5.5 aintenance to or comparing dicates a pai	°C) rake is relea kg (approx. § orque in stop g the perform rt, except Ge weight in pare	5.2kg) ping the motor ance of motor ear Head part.	when sup s.		current						
a o S S S S S S S S S S S S S S S S S S	Rated excitation vol Rated excitation cur Static friction torque Rotation part inertia Insulation class B type brake Operating time Releasing time ight ^{¥3} Max. holding torque and is standard met Moment of rotor ine The weight includes common specificatio eration type ulation class	e is ma thod f rtia in s pack ons Plan B typ	40kgf cm 153×10 ⁻⁷ kg B type (130) Power on: b Max. 15ms Max. 60ms Approx. 5.5 aintenance to for comparing dicates a pai kaging. The v	©) rake is relea kg (approx. 5 orque in stop g the perform rt, except Ge weight in pare d type	5.2kg) oping the motor ance of motor ar Head part. enthesis is for	when sup s. unit only.	ply the rated	current						
a a o o c c c c c c c c c c c c c c c c	Rated excitation vol Rated excitation cur Static friction torque Rotation part inertia Insulation class B type brake Operating time Releasing time Releasing time ingh ^{≋3} Max. holding torque and is standard met Moment of rotor ine The weight includes common specificatio eration type ulation class ulation resistance	e is ma thod f rtia in s pack ons Plan B typ Over	40kgf cm 153×10 ⁻⁷ kg B type (130 Power on: b Max. 15ms Max. 60ms Approx. 5.5 aintenance to or comparing dicates a pai kaging. The v etary Geared pe (130°C) r 100MΩ (at	C) prake is releating kg (approx. 5 prque in stop g the perform rt, except Ge veight in pare d type 500VDC meg	5.2kg) iping the motor aance of motor aar Head part. enthesis is for gger) between	when sup s. unit only. motor coil-	ply the rated	current						
allo O S S S C O D S S S S S S S S S S S S S S S S S S	Rated excitation vol Rated excitation cur Static friction torque Rotation part inertia Insulation class B type brake Operating time Releasing time ight ^{¥3} Max. holding torque and is standard met Moment of rotor ine The weight includes common specificatio eration type ulation class	e is ma thod f rtia in s pack ons Plan B typ Over 1 kV	40kgf cm 153×10 ⁻⁷ kg B type (130) Power on: b Max. 15ms Max. 60ms Approx. 5.5 aintenance to for comparing dicates a particular dicates a particular dicate	C) prake is releating the store of the store	5.2kg) pping the motor nance of motor aar Head part. enthesis is for gger) between tween motor co	when sup s. unit only. motor coil- pil-case	ply the rated	current						
all	Rated excitation vol Rated excitation cur Static friction torque Rotation part inertia Insulation class B type brake Operating time Releasing time Releasing time ingh ^{≋3} Max. holding torque and is standard met Moment of rotor ine The weight includes common specificatio eration type ulation class ulation resistance	e is ma thod f rtia in s pack ons Plan B typ Over 1 kV 5-ph	40kgf cm 153×10 ⁻⁷ kg B type (130) Power on: b Max. 15ms Max. 60ms Approx. 5.5 aintenance tc or comparing dicates a particular aging. The v retary Gearer pe (130 °C) 100MΩ (at AC 50/60Hz mase excitatio	C) rrake is relea kg (approx. 5 prque in stop g the perform rt, except Ge weight in pard d type 500VDC meg for 1 min bel n for rated ci	5.2kg) iping the motor aance of motor aar Head part. enthesis is for gger) between	when sup s. unit only. motor coil- pil-case	ply the rated	current						
all of a sector-Magnetic Brake a ball	Rated excitation vol Rated excitation cur Static friction torque Rotation part inertia Insulation class B type brake Operating time Releasing time ight ^{¥3} Max. holding torque and is standard met Moment of rotor ine The weight includes common specificatio eration type ulation class ulation resistance electric strength mperature rise	e is ma thod f rtia in s pack ons Plan B typ Over 1 kV 5-ph (resi	40kgf.cm 153×10 ⁻⁷ kg B type (130 Power on: b Max. 15ms Max. 60ms Approx. 5.5 aintenance tr for comparing dicates a pai dicates a pai caging. The v retary Geared pe (130 ⁻ C) r 100MΩ (at i AC 50/60Hz stance method	C) rrake is relea kg (approx. 5 orque in stop g the perform g the perform tr, except Ge weight in pard 500VDC meg for 1 min bel n for rated co od)	5.2kg) sping the motor lance of motor ear Head part. enthesis is for gger) between tween motor ca urrent, below 8	when sup s. unit only. motor coil- pil-case	ply the rated	current						
In a contraction of the sector	Rated excitation vol Rated excitation vol Rated excitation cur Static friction torque Rotation part inertia Insulation class B type brake Operating time Releasing time ight ^{¥3} Max. holding torque and is standard met Moment of rotor ine The weight includes common specificatio eration type ulation class ulation resistance lectric strength mperature rise <i>viron</i> - Ambient temp.	e is ma thod f rtia in s pack ons Plan B typ Over 1 kV 5-ph (resi -10 t	40kgf cm 153×10 ⁻⁷ kg B type (130 Power on: b Max. 15ms Max. 60ms Approx. 5.5 aintenance tr or comparing dicates a particular dicates a partic	C) prake is relea kg (approx. 5 prque in stop g the perform rt, except Ge weight in pare 500VDC meg for 1 min bel nn for rated cr od) age: -25 to 85	5.2kg) ping the motor hance of motor har Head part. enthesis is for gger) between tween motor cr urrent, below 8 5°C	when sup s. unit only. motor coil- pil-case	ply the rated	current						
and a secto-Magnetic Brake Bake Bake Bake Bake Bake Bake Bake B	Rated excitation vol Rated excitation vol Rated excitation cur Static friction torque Rotation part inertia Insulation class B type brake Operating time Releasing time ight ^{¥3} Max. holding torque and is standard met Moment of rotor ine The weight includes common specificatio eration type ulation class ulation resistance lectric strength mperature rise <i>viron</i> - Ambient temp.	e is ma thod f rtia in s pack ons Plan B typ Over 1 kV 5-ph (resi -10 t 35 to	40kgf cm 153×10 ⁻⁷ kg B type (130 Power on: b Max. 15ms Max. 60ms Approx. 5.5 aintenance tr or comparing dicates a particular dicates a partic	C) prake is relea kg (approx. 5 prque in stop g the perform rt, except Ge weight in pare 500VDC meg for 1 min bel nn for rated cr od) age: -25 to 85	5.2kg) ping the motor hance of motor har Head part. enthesis is for gger) between tween motor cr urrent, below 8 5°C	when sup s. unit only. motor coil- pil-case	ply the rated	current						
of a manual sector-Magnetic Brake B and a manual sector-Magnetic Brake B and a manual sector-Magnetic Brake B and a manual sector and a manual sec	Rated excitation vol Rated excitation cur Static friction torque Rotation part inertia Insulation class B type brake Operating time Releasing time ight ^{¥3} Max. holding torque and is standard met Moment of rotor ine The weight includes common specification eration type ulation class ulation class ulation class ulation resistance dectric strength mperature rise viron- Ambient temp. Ambient humi.	e is ma thod f rtia in s pack ons Plan B typ Over 1 kV 5-ph (resi -10 t 35 to ±3' (40kgf cm 153×10 ⁻⁷ kg B type (130 Power on: b Max. 15ms Max. 60ms Approx. 5.51 aintenance tr or comparing dicates a particular aintenance tr or comparing dicates a particular dicates a particular (aging. The v retary Gearea pe (130°C) r 100MΩ (at 1 /AC 50/60Hz istance method to 50°C, store particular b 50°C, store particular b 50°C, store particular b 50°C, store particular b 50°C, store particular b 50°C, store particular b 50°C, store b 50°C, st	C) prake is relea kg (approx. 5 prque in stop g the perform rt, except Ge weight in pare 500VDC meg for 1 min bel nn for rated cr od) age: -25 to 85	5.2kg) ping the motor hance of motor har Head part. enthesis is for gger) between tween motor cr urrent, below 8 5°C	when sup s. unit only. motor coil- pil-case	ply the rated	current						
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Allo and an and a sector-Magnetic Brake a sector sector and sector and sector sec	Rated excitation vol Rated excitation vol Rated excitation cur Static friction torque Rotation part inertia Insulation class B type brake Operating time Releasing time ight ^{¥3} Max. holding torque and is standard met Moment of rotor ine Moment of rotor ine The weight includes common specificatio eration type ulation class ulation resistance electric strength mperature rise <i>viron</i> - Ambient temp. Ambient temp. Ambient temp. Ambient temp. diat vibration ^{¥2} dial movement ^{¥4}	is mathod f rtia in s pack ons Plan B typ Over 1 kV 5-ph (resi -10 t 35 tc ±3' (0.05 Max	40kgf cm 153×10 ⁻⁷ kg B type (130) Power on: b Max. 15ms Max. 60ms Approx. 5.5 aintenance tc or comparing dicates a para caging. The v retary Geareer pe (130°C) r 100MΩ (at : AC 50/60Hz vase excitation stance methor to 50°C, stora ± 85%RH, stor ± 0.05°) mm T.I.R.	C) vrake is relea kg (approx. £ orque in stop g the perform g the perform for 1 min bef for 1 min bef n for rated ci od) gge: -25 to 85 orage: 35 to 1 Load 5N)	5.2kg) ping the motor hance of motor har Head part. enthesis is for gger) between tween motor cr urrent, below 8 5°C	when sup s. unit only. motor coil- pil-case	ply the rated	current						
O IN B B B B B B B B B B B B B B B B B B	Rated excitation vol Rated excitation cur Static friction torque Rotation part inertia Insulation class B type brake Operating time Releasing time ight ^{¥3} Max. holding torque and is standard met Moment of rotor ine The weight includes common specification eration type ulation class ulation class ulation class ulation class ulation class ulation tresistance electric strength mperature rise viron- Ambient temp. aft vibration ^{¥2} dial movement ^{¥3} al movement ^{¥4} ncentricity for	is ma thod f rtia in s pack ons Plan B typ Ove 1 kV 5-ph (resi -10 t 35 tc ±3' (0.05 Max Max	40kgf.cm 153×10 ⁻⁷ kg B type (130 Power on: b Max. 15ms Max. 60ms Approx. 5.5 aintenance tr for comparing dicates a pair dicates a pair dicates a pair (130°C) r 100MΩ (at 1 AC 50/60Hz asse excitatio istance methic to 50°C, store 0 85%RH, str ±0.05°) mm T.I.R. 0.025mm (I	C) vrake is relea kg (approx. £ orque in stop g the perform g the perform for 1 min bef for 1 min bef n for rated ci od) gge: -25 to 85 orage: 35 to 1 Load 5N)	5.2kg) ping the motor hance of motor har Head part. enthesis is for gger) between tween motor cr urrent, below 8 5°C	when sup s. unit only. motor coil- pil-case	ply the rated	current						
Allo a a dia di anti a di a	Rated excitation vol Rated excitation vol Rated excitation cur Static friction torque Rotation part inertia Insulation class B type brake Operating time Releasing time and is standard met Moment of rotor ine The weight includes common specification eration type ulation class ulation resistance lectric strength mperature rise <i>vi</i> ron- Ambient temp. nt Ambient temp. aft vibration ^{%2} dial movement ^{%3} al movement ^{%4} necentricity for aft of setup in-low	is ma thod f rtia in s pack ons Plan B typ Ove 1 kV 5-ph (resi -10 t 35 tt ±3' (0.05 Max Max	40kgf cm 153×10 ⁻⁷ kg B type (130) Power on: b Max. 15ms Max. 60ms Approx. 5.5 aintenance tc or comparing dicates a para caging. The v retary Gearece pe (130°C) r 100MΩ (at : AC 50/60Hz tase excitation istance methor to 50°C, stora ±0.5°) mm T.I.R. .0.025mm (l	C) vrake is relea kg (approx. £ orque in stop g the perform g the perform for 1 min bef for 1 min bef n for rated ci od) gge: -25 to 85 orage: 35 to 1 Load 5N)	5.2kg) ping the motor hance of motor har Head part. enthesis is for gger) between tween motor cr urrent, below 8 5°C	when sup s. unit only. motor coil- pil-case	ply the rated	current						
Allo ad Allo a	Rated excitation vol Rated excitation cur Static friction torque Rotation part inertia Insulation class B type brake Operating time Releasing time ight*3 Max. holding torque and is standard met Moment of rotor ine The weight includes common specification eration type ulation class ulation resistance electric strength mperature rise viron- Ambient temp. Ambient temp. aft vibration**2 dial movement**3 al movement**4 ncentricity for fit of setup in-low rependicularity of	e is ma thod fritia in s pack Plan B typ Over 1 kV 5-ph (resi -10 t 35 tr 43' (0.05 Max Max 0.07	40kgf cm 153×10 ⁻⁷ kg B type (130) Power on: b Max. 15ms Max. 60ms Approx. 5.5 aintenance tc or comparing dicates a para caging. The v retary Gearece pe (130°C) r 100MΩ (at : AC 50/60Hz tase excitation istance methor to 50°C, stora ±0.5°) mm T.I.R. .0.025mm (l	C) vrake is relea kg (approx. £ orque in stop g the perform g the perform for 1 min bef for 1 min bef n for rated ci od) gge: -25 to 85 orage: 35 to 1 Load 5N)	5.2kg) ping the motor hance of motor har Head part. enthesis is for gger) between tween motor cr urrent, below 8 5°C	when sup s. unit only. motor coil- pil-case	ply the rated	current						
Allo ad Barren Singer S	Rated excitation vol Rated excitation vol Rated excitation cur Static friction torque Rotation part inertia Insulation class B type brake Operating time Releasing time Releasing time ight ^{¥3} Max. holding torque and is standard met Moment of rotor ine The weight includes common specification eration type ulation class ulation resistance electric strength mperature rise wiron- Ambient temp. Ambient temp. Ambient temp. Ambient temp. aft vibration ^{%2} dial movement ^{¥3} al movement ^{¥4} ncentricity for aft of setup in-low pendicularity of up plate shaft	e is ma thod f rtia in s pack Ons Plan B typ Ovei 1 kV 5-ph (resi ±3' (0.05 Max 0.07	40kgf cm 153×10 ⁷ kg B type (130 Power on: b Max. 15ms Max. 60ms Approx. 5.5 aintenance tr or comparing dicates a particular aintenance tr or comparing dicates a particular dicates a particular (130°C) r 100MΩ (at 1 AC 50/60Hz mase excitation b 85%RH, str ±0.05') mm T.I.R. . 0.025mm (I . 5mm T.I.R.	C) rake is relea kg (approx. & orque in stop g the perform g the perform t, except Ge weight in pard 500VDC meg for 1 min bed n for rated cl od) ge: -25 to 88 orage: 35 to 18 orage: 35 to 18 orag	5.2kg) ping the motor hance of motor har Head part. enthesis is for gger) between tween motor cr urrent, below 8 5°C	when sup s. unit only. motor coil- pil-case	ply the rated	current						
Allo a Barren S S R AL Comercial S S S S S S S S S S S S S S S S S S S	Rated excitation vol Rated excitation cur Static friction torque Rotation part inertia Insulation class B type brake Operating time Releasing time ight ^{%3} Max. holding torque and is standard met Moment of rotor ine The weight includes common specification eration type ulation class ulation class ulation class ulation class ulation resistance Ambient temp. not mement ^{%1} aft vibration ^{%2} dial movement ^{%3} neentricity for aft of setup in-low pendicularity of -up late shaft	is ma hod f rtia in s pack ons Plan B typ Ovei 1 kV 5-ph (resi -10 t 35 tc 43' (0.05 Max Max 0.07 0.07	40kgf cm 153×10 ⁻⁷ kg B type (130 Power on: b Max. 15ms Max. 60ms Approx. 5.5 aintenance tr or comparing dicates a paraintenance tr dicates a pa	C) vrake is relea kg (approx. § orque in stop ythe perform rt, except Ge veight in pare 500VDC meg for 1 min bel od) age: -25 to 85 orage: 35 to 85 .oad 5N) .oad 10N)	5.2kg) ping the motor hance of motor hance of motor hance of motor hance of motor hance of motor gger) between tween motor cu urrent, below 8 5 °C 85%RH	when sup s. unit only. motor coil- oil-case 0°C at stop	case	current						
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※3: Amount of radial shaft displacement when adding a radial load (5N) to the tip of the motor shaft %4: Amount of axial shaft displacement when adding a axial load (10N) to the shaft. *Rotation direction of the Motor and the Gear Head output axis is same. ※Environment resistance is rated at no freezing or condensation



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Motor size	The thickness of mounting plate	Using bolt
Frame size 42mm	Min. 5mm	M4
Frame size 60mm	Min. 8mm	M5
Frame size 85mm	Min. 12mm	M8

pulley. When connecting the load such as a pulley or a belt, be cautious of the allowable thrust

is banned to disassemble or change structure of the device or the shaft for connecting with a load.

- When the brake pad is worn out, the product life cycle is shorten, the rated static friction
- backlash. However, when positioning the motor in both CW/CCW directions, it may cause

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