



JSDA⁺

JSD⁺E

AC Servo System





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JSDE⁺ Series

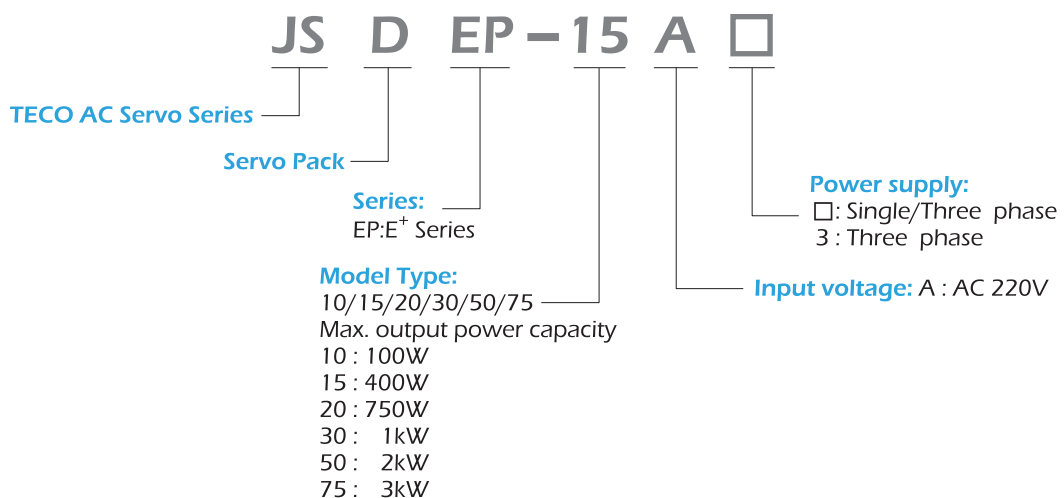
Standard Servo Amplifier



Frame	1				2	
JSDEP	10A	15A	20A	30A	50A3	75A3*
Max. Capacity	100W	400W	750W	1kW	2kW	3kW

*Launch in 2012 Q1

Model Designation

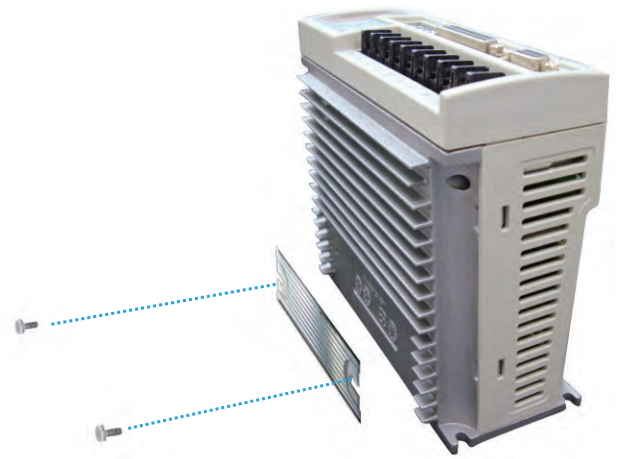


Friendly Interface for Division of Encoder Feedback

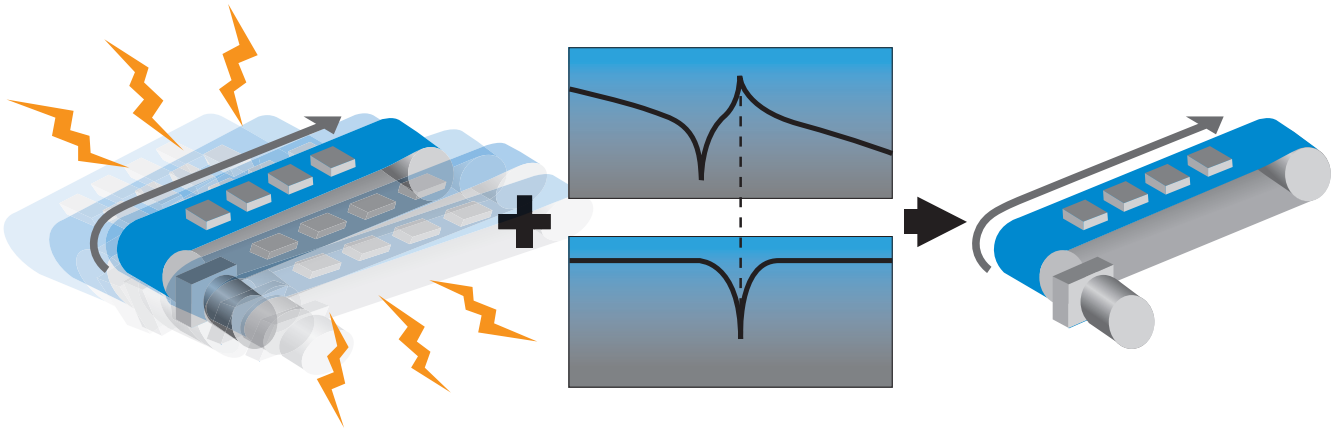


The division of the encoder feedback pulse could be set by parameter, and the setting value allowed 0 to the encoder pulse per rotation.

Reserved Braking resistor Installation space



Notch Filter



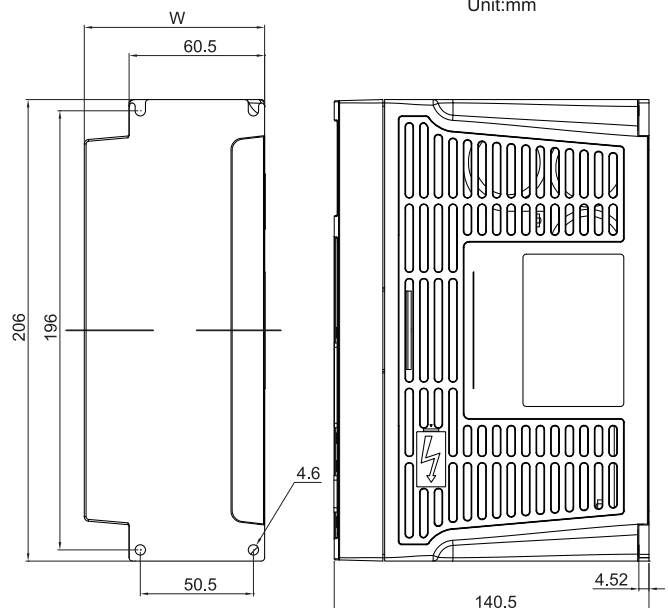
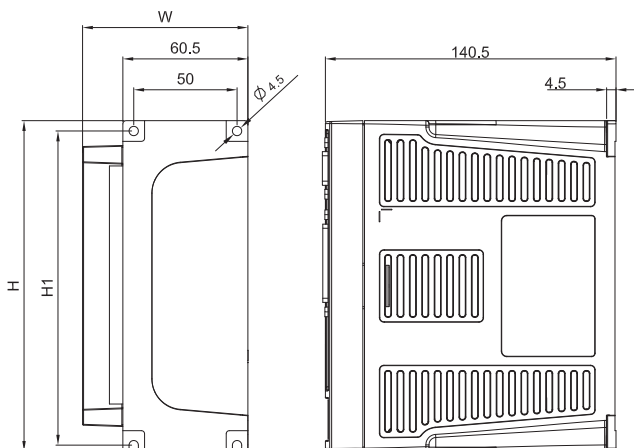
JSDE+ Dimension

Model	H	H1	W
JSDEP-10A/15A	160	152	67
JSDEP-20A/30A	160	152	80

Unit:mm

Model	H	H1	W
JSDEP-50A3/75A3	206	195	80

Unit:mm



JSDE⁺ Specifications

Servo Amplifier model JSDEP-□□□□		10A	15A	20A	30A	50A3	
Basic Specification	Max. Applicable Servo Motor Capacity[KW]	0.1	0.4	0.75	1.0	2.0	
	Continuous Current output[A rms]	0.94	2.5	4.4	5.16	9.5	
	Max. output Current[A rms]	2.82	7.5	13.2	15.5	28.5	
	Power Supply	Main Circuit R, S, T	Single Phase/Three Phase AC 170 ~ 253V				Three Phase AC 170 ~ 253V
			50 / 60Hz ±5%				
		Cooling System	Natural Air Circulation		Fan Cooling		
		Control Method	Three Phase full-wave rectification IGBT-PWM(SPWM)				
	Feedback[Encoder Resolution]	Incremental Encoder : 2500ppr / 8192ppr					
Common Function	LED Display	Charge / Power lamps ; Five 7-segment LEDs ; Four function keys					
	Control Method	Position(External Pulse Command/Internal Pulse Command), Speed/Torque and Dual control mode(P/S · S/T · P/T)					
	Regenerative Discharge	Built-in braking transistor (External braking resistor available)					
	Protective Function	Under voltage, Over voltage, Over load, Over current, Encoder error, Abnormal DI/DO programming, Memory abnormal, Emergency stop, Pulse deviation, Over speed, CPU abnormal, Limit switch error, Over heat...ect.					
	Communication interface	RS-232 / RS-485 (Modbus protocol)					
Position control	Command Source	External pulse train / Internal parameter (32 steps)					
	Input Signals	Type	Positive / Negative edge trigger : Sign+Pulse train, CCW+CW pulse train, 90° phase difference 2-phase pulse(A phase+B phase)				
		Form	Line Driver (+5V Level) · Open Collector (+5 ~ +24V Level)				
		Frequency	4Mpps(Line driver) / 200Kpps(Open collector)				
	Electronic Gear Ratio	1/200 ≤ A/B ≤ 200 (A=1 ~ 50000 ; B=1 ~ 50000)					
	Position Time Constant	smoothing : 0 ~ 10sec					
	Final Position Tolerance	0 ~ 50000 Pulse					
	Feed Forward Compensation	0 ~ 100 %					
Homing Function	Set by parameter						
Speed control	Command Source	External analog signal / Internal parameter(3 speed set-up)					
	Analog Input Signals	Voltage Range	0 ~ ±10Vdc / 0 ~ 4500rpm (Set by parameter)				
		Impedance	10KΩ				
	Speed Control Range	1 : 5000 (Internal command) / 1 : 2000 (External command)					
	Speed Fluctuation Rate	Load fluctuation : 0 ~ 100% ±0.03% or less (at rated speed)					
		Power fluctuation : ±10% ±0.2% or less(at rated speed)					
		Ambient temperature fluctuation : 0 ~ 50°C ±0.5% or less (at rated speed)					
	Accel/Decel. Time Constant	Linear : 0 ~ 50sec, S-Curve : 0 ~ 5sec, Smoothing : 0 ~ 10sec					
Frequency Characteristic	600Hz (at J _L =J _M)						
Torque Limit Operation	External analog signal / Internal parameter						
Zero Speed / Speed Reach Range	0 ~ 4500rpm (Set by parameter)						
Torque control	Command Source	External analog signal					
	Analog Input Signals	Voltage Range	0 ~ ±10Vdc / 0 ~ ±300%				
		Impedance	10KΩ				
	Accel/Decel. Time Constant	Linear : 0 ~ 50sec					
	Speed Limit Operation	External analog signal / Internal parameter					
Torque Reach Range	0 ~ 300% (set by parameter)						
I/O signals	Position Output	Output Signal	Phase A · B · Z Line Driver / Phase Z Open Collector				
		Division of encoder feedback pulse	Set up of any value is enabled (encoder pulse is the max.)				
	Digital Input [NPN/PNP]	Programmable 6 Points	Servo on, Alarm reset, P/PI switching, Forward/Reserve limit switch, External torque limit, Pulse deviation clear, Servo lock, Emergency stop, Speed command selection, Control mode switching, Pulse command inhibit, Gain switching, Electronic gear ratio setting, Internal pulse command trigger, Internal pulse sommand pause, Homing mode positioning, External reference signal, Internal position command switching, Speed/Torque command reverse, Torque mode forward / reverse start...ect.				
Digital Output [Photocoupler]	Programmable 3 Points	Servo ready, Servo alarm, Zero speed, Brake interlock, Speed reach, Positioning completed, Homing completed, Torque reach					
Environment	Installation Site	Indoor location(Avoiding direct sunshine) No corrosive liquid and gas(avoiding oil mist, flammable gas, dust)					
	Aititude	Altitude 1000M or lower above sea level					
	Temperature	Operating temperatue : 0 ~ 50°C ; Storage temperature : -20 ~ +65°C					
	Humidity	90%RH or less(No condensation)					
	Vibration	10 ~ 57Hz : 20m/s ² ; 57 ~ 150Hz : 2G					

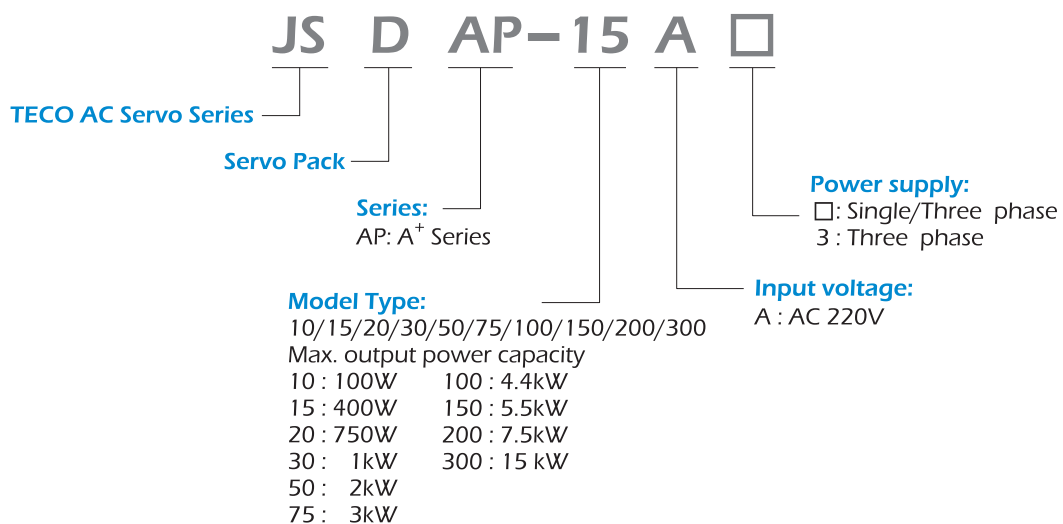
JSDA⁺ Series

Advanced Servo Amplifier

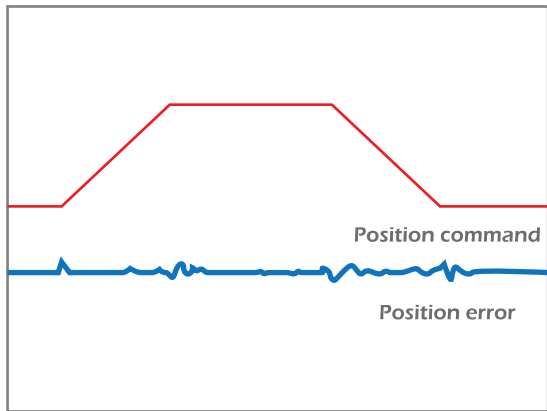


Frame	1				2			3	4	
200V	10A	15A	20A	30A	50A3	75A3	100A3	150A3	200A3	300A3
Max. Capacity	100W	400W	750W	1kW	2kW	3kW	4.4kW	5.5kW	7.5kW	15kW

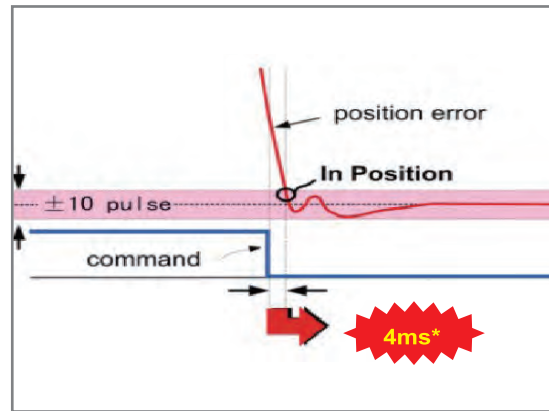
Model Designation



Excellent Performance



Performance of the position doubled in comparison with current models by adoption of the optimized position and speed control algorithm.



A optimized method drastically shortens positioning settling time for equipment.

*Determined under field conditions.

High Resolution



Built-in Regenerative Resistor



*Built-in regenerative resistor below JSDAP-150A3

Battery Module for Absolute Encoder



Frame 1



Frame 2



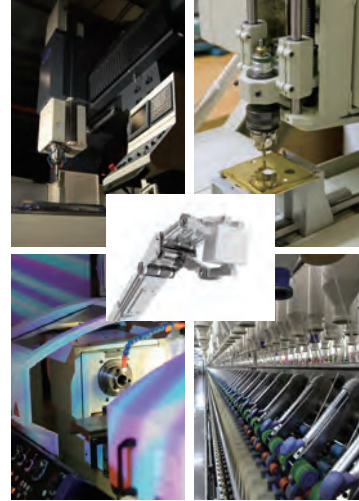
Frame 3

Auto-Classification

Through 17-bit and 15-bit encoders, servo motor can be identified.



Applications



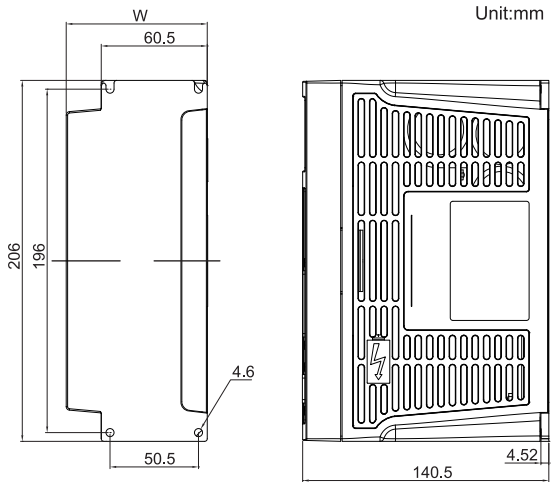
- Mechanics arm
- Engraving machine
- Computerized flat knitting machine
- CNC Lathe machine
- CNC wire cutting machine
- Injection molding machine
- PCB Router machine

JSDA+ Dimension

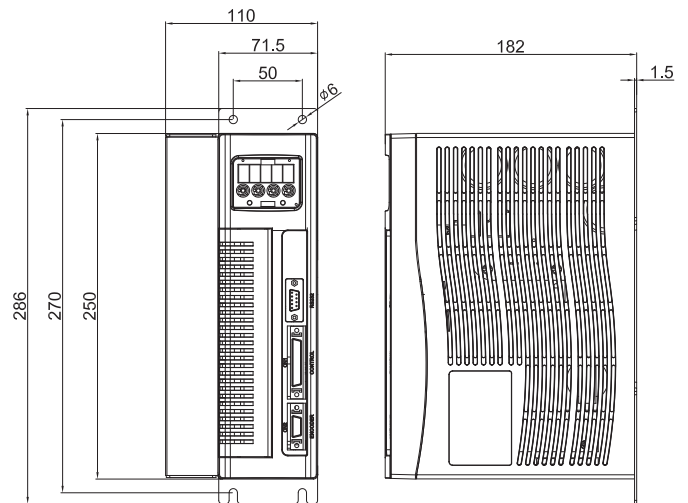
JSDAP-10A/15A/20A/30A

Model	W
JSDAP-10A/15A	69.5
JSDAP-20A/30A	80.5

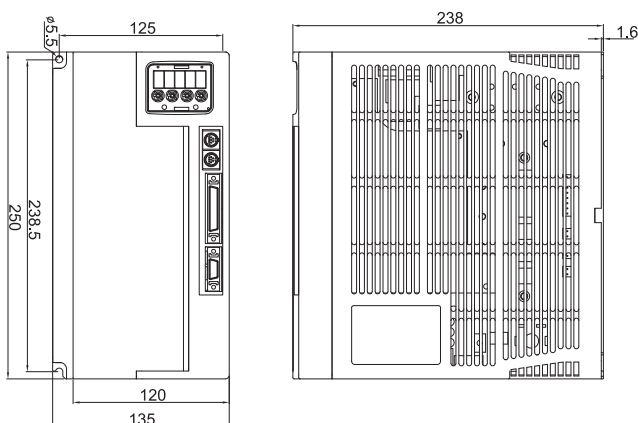
Unit:mm



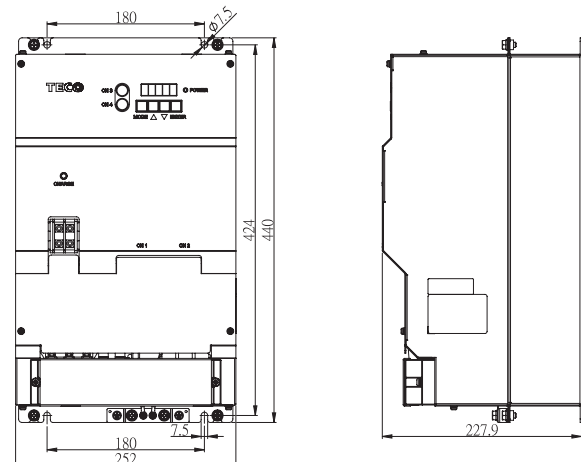
JSDAP-50A3/75A3/100A3



JSDAP-150A3



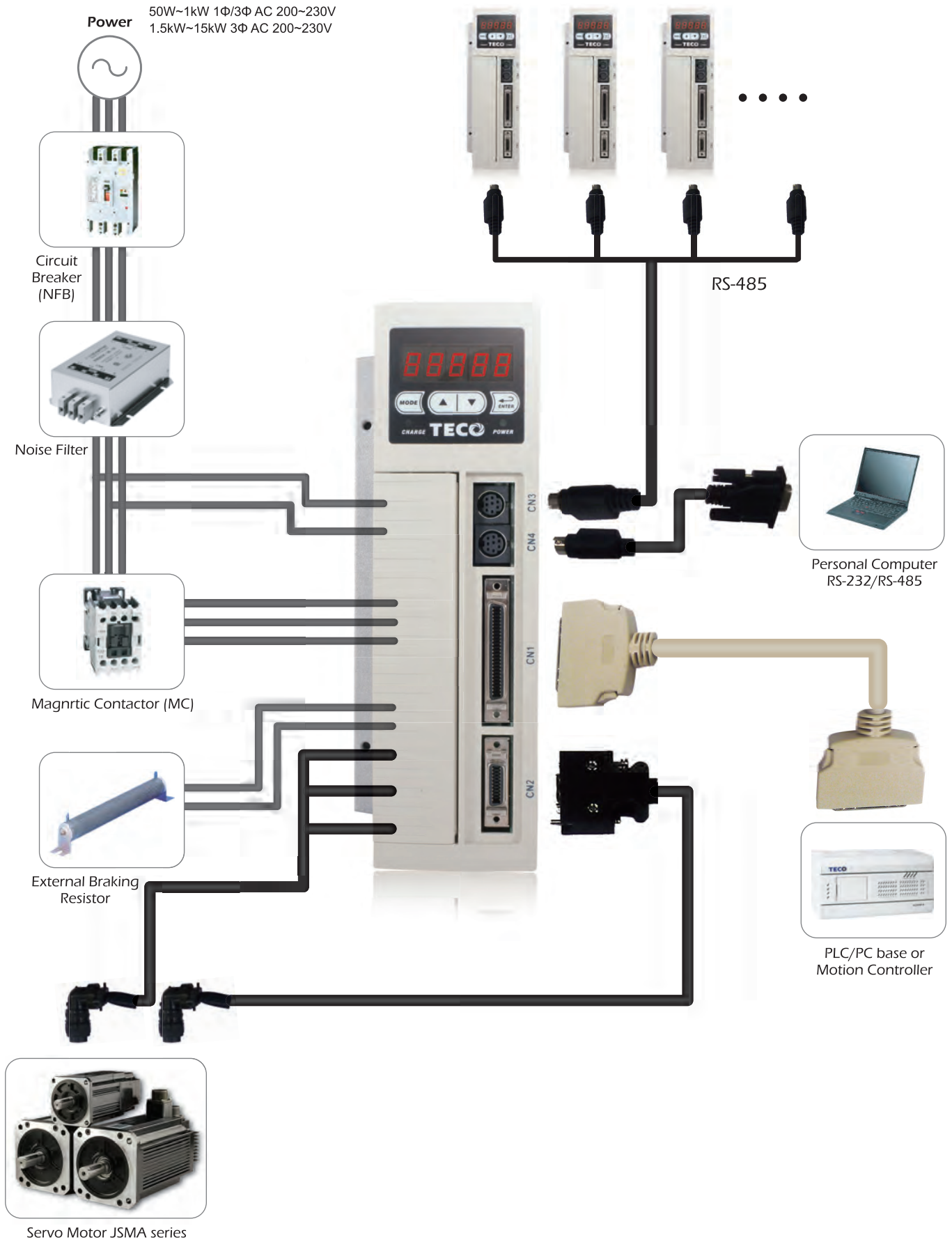
JSDAP-200A3/300A3

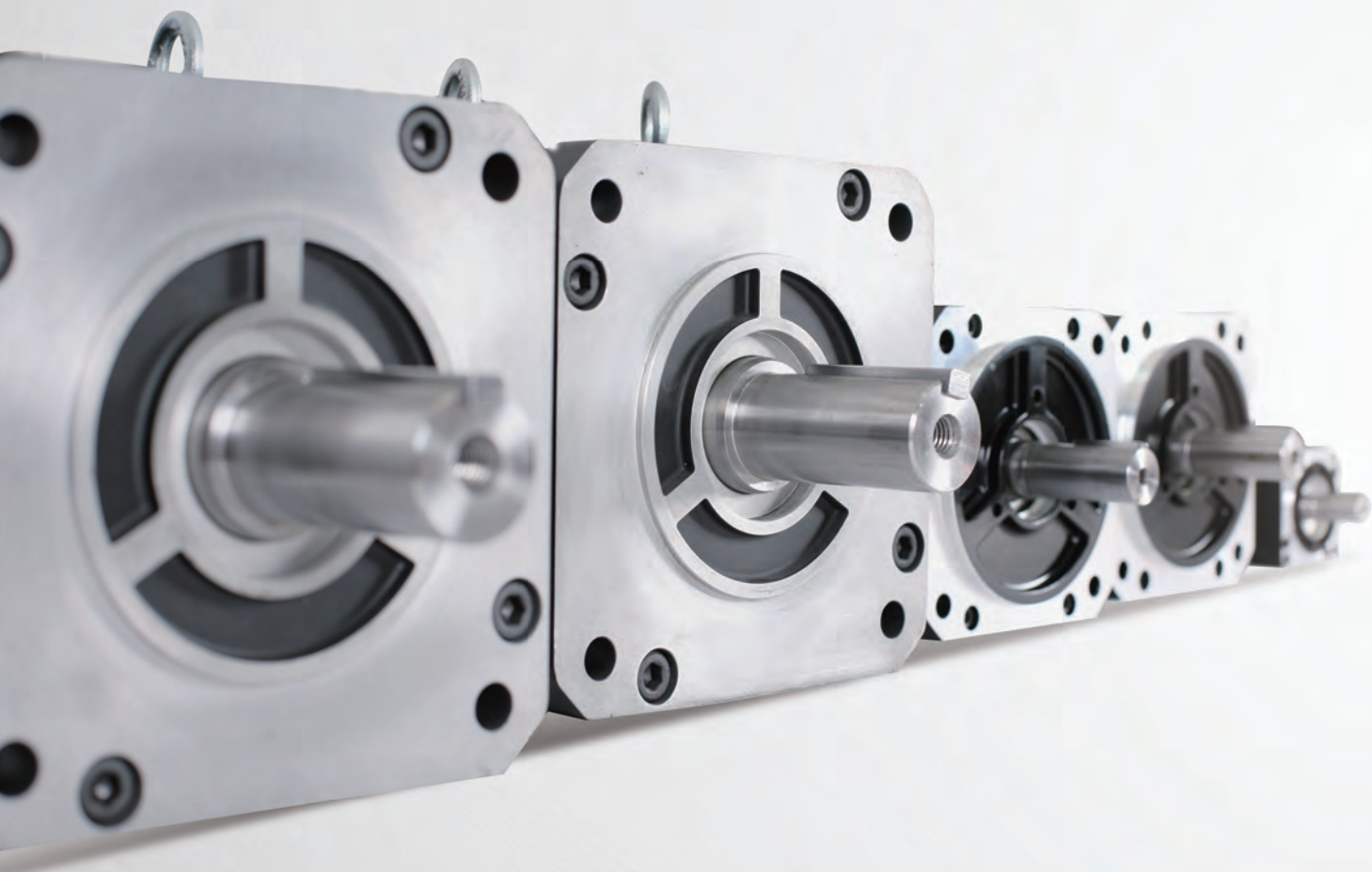


JSDA⁺ Specifications

Servo Amplifier model JSDAP-□□□□		10A	15A	20A	30A	50A3	75A3	100A3	150A3	200A3	300A3		
Basic Specification	Max. Applicable Servo Motor Capacity[KW]		0.1	0.4	0.75	1.0	2.0	3.0	4.4	5.5	7.5	15.0	
	Continuous Current output[A rms]		0.94	2.5	4.4	5.16	9.5	15.0	23.0	33.2	42.1	78.0	
	Max. output Current[A rms]		2.82	7.5	13.2	15.5	28.5	42.0	59.8	86.3	109.5	170.0	
	Power Supply	Main Circuit R, S, T	Single Phase/Three Phase AC 170 ~ 253V					Three Phase AC 170 ~ 253V					
			50 / 60Hz ±5%										
		Control Circuit r, s	Single Phase AC 170 ~ 253V					50 / 60Hz ±5%					
	Cooling System		Natural Air Circulation					Fan Cooling					
	Control Method		Three Phase full-wave rectification IGBT-PWM(SPWM)										
Feedback[Encoder Resolution]		15-bit Absolute encoder / 17-bit Incremental encoder											
Common Function	LED Display		Charge / Power lamps ; Five 7-segment LEDs ; Four function keys										
	Control Method		Position[External Pulse Command/Internal Pulse Command] \ Speed \ Torque and Dual control mode(P/S \ S/T \ P/T)										
	Regenerative Discharge		Built-in braking transistor and resistor (External braking resistor available)									Built-in braking transistor(External braking resistor available)	
	Dynamic Brake		Active after Power-off, Servo-off, Limit switch and protective function										
	Protective Function		Under voltage, Over voltage, Over load, Over current, Encoder error, Abnormal DI/DO programming, Memory abnormal, Emergency stop, Pulse deviation, Over speed, CPU abnormal, Limit switch error, Over heat...ect.										
	Communication interface		RS-232 / RS-485 (Modbus protocol)										
	Command Source		External pulse train / Internal parameter										
Position control	Input Signals	Type	Positive / Negative edge trigger : Sign+Pulse train, CCW+CW pulse train, 90° phase difference 2-phase pulse(A phase+B phase)										
		Form	Line Driver (+5V Level) \ Open Collector (+5 ~ +24V Level)										
		Frequency	4Mpps(Line driver) / 200Kpps(Open collector)										
	Electronic Gear Ratio		1/200 ≤ A/B ≤ 200 (A=1 ~ 50000 ; B=1 ~ 50000)										
	Position Time Constant		smoothing : 0 ~ 10sec										
	Final Position Tolerance		0 ~ 50000 Pulse										
	Feed Forward Compensation		0 ~ 100%										
	Homing Function		Set by parameter										
Speed control	Command Source		External analog signal / Internal parameter(3 speed set-up)										
	Analog Input Signals	Voltage Range	0 ~ ±10Vdc / 0 ~ 4500rpm (Set by parameter)										
		Impedance	10KΩ										
	Speed Control Range		1 : 5000 (Internal command) / 1 : 2000 (External command)										
	Speed Fluctuation Rate		Load fluctuation : 0 ~ 100% ±0.03% or less (at rated speed) Power fluctuation : ±10% ±0.2% or less(at rated speed) Ambient temperature fluctuation : 0 ~ 50°C ±0.5% or less (at rated speed)										
	Accel/Decel. Time Constant		Linear : 0 ~ 50sec, S Curve : 0 ~ 5sec, Smoothing : 0 ~ 10sec										
	Frequency Characteristic		800Hz (at J _L =J _M)										
	Torque Limit Operation		External analog signal / Internal parameter										
Zero Speed / Speed Reach Range		0 ~ 4500rpm (Set by parameter)											
Torque control	Command Source		External analog signal										
	Analog Input Signals	Voltage Range	0 ~ ±10Vdc / 0 ~ ±300%										
		Impedance	10KΩ										
	Accel/Decel. Time Constant		Linear : 0 ~ 50sec										
	Speed Limit Operation		External analog signal / Internal parameter										
Torque Reach Range		0 ~ 300% (set by parameter)											
I/O signals	Position Output	Output Signal	Phase A \ B \ Z Line Driver / Phase Z Open Collector										
		Division of encoder feedback pulse	Set up of any value is enabled (encoder pulse is the max.)										
	Digital Input [NPN/PNP]	Programmable 12 Points	Servo on, Alarm reset, P/PI switching, Forward/Reserve limit switch, External torque limit, Pulse deviation clear, Servo lock, Emergency stop, Speed command selection, Control mode switching, Pulse command inhibit, Gain switching, Electronic gear ratio setting, Internal pulse command trigger, Internal pulse command pause, Homing mode positioning, External reference signal, Internal position command switching, Speed/Torque command reverse, Torque mode forward / reverse start...ect.										
	Digital Output [Photocoupler]	Programmable 4 Points	Servo alarm code, Torque limit, Limit switch, Baseblock										
Programmable 4 Points		Servo ready, Servo alarm, Zero speed, Brake interlock, Speed reach, Positioning completed, Homing completed, Torque reach											
Analog Output Signal	Programmable 3 Points	Speed feedback, Torque / Speed / Position command, Pulse deviation value, Electrical angle, Main circuit voltage(DC Bus)											
Environment	Installation Site		Indoor location(Avoiding direct sunshine) No corrosive liquid and gas(avoiding oil mist, flammable gas, dust)										
	Altitude		Altitude 1000M or lower above sea level										
	Temperature		Operating temperature: 0 ~ 50°C ; Storage temperature: -20 ~ +65°C										
	Humidity		90%RH or less(No condensation)										
	Vibration		10 ~ 57Hz : 20m/s ² ; 57 ~ 150Hz : 2G										

System Configuration





Servo Motor JSMA Series

IP67



Model Designation

JS | **M** | **A-P** | **S** | **C** | **08** | **A** | **H** | |

TECO AC Servo Series
Servo Motor
Series: AP: A Series
IP67 (except shaft and connectors)
Inertia: S: Super Low
L: Low
M: Middle
H: Middle
Motor Speed: A: 1000rpm
B: 2000rpm
C: 3000rpm
H: 1500rpm

Input Voltage: A: AC 220V
Encoder Resolution: B: 2500ppr
H: 8192ppr
7: 17-bit
5: 15-bit(absolute)
Rated Output Power: 01: 100W 20: 2kW
03: 300W 30: 3kW
04: 400W 44: 4.4kW
05: 500W 55: 5.5kW
08: 750W 75: 7.5kW
10: 1kW 110: 11 kW
15: 1.5kW 150: 15 kW

Mechanical Brake:
: without brake
B: with brake(24VDC)

No.	Keyway	Oil seal
<input type="checkbox"/>	No	No
K	Yes	No
O	No	Yes
A	Yes	Yes

*The information above is for model description, please contacts our sales for more detail.

Standard Specification



S/L Series Low Inertia (50W~750W)

Motor Mode	Symbol	Unit	JSMA-P <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>					
			SCP5	SC01	SC04	SC08	LC03	LC08
Standard / Customization			Standard	Standard	Standard	Standard	Standard	Standard
Drive Mode			10A	10A/15A	15A/20A	20A/30A	15A	20A
Rate Output	P _R	kW	0.05	0.1	0.4	0.75	0.3	0.75
Rated Torque	T _R	N·m	0.16	0.32	1.27	2.39	0.95	2.39
Max. Torque	T _{max}	N·m	0.48	0.95	3.82	7.16	2.86	7.16
Rated Speed	N _R	rpm	3000			3000		
Max. Speed	N _{max}	rpm	4500			4200	4500	4200
Rated Current	I _R	A	0.65	0.94	3.5	4.3	2.0	3.4
Max. Armature Current	I _{max}	A	1.95	2.82	10.5	12.9	6.0	10.2
Torque Constant	K _T	N·m/A	0.356	0.380	0.39	0.610	0.523	0.774
Induced Voltage Constant	K _E	V/k rpm	40.4	39.8	40.4	63.8	54.8	81.4
Rotor Moment of Inertia	J _M	Kg·cm ²	0.029	0.036	0.277	0.940	0.677	2.459
Armature Resistance	R _a	Ω	71.00	25.00	1.96	2.41	5.58	2.18
Armature Inductance	L _a	mH	24.3	35.0	3.8	8.0	11.6	6.8
Mechanical Time Constant	T _m	ms	1.43	0.59	0.34	0.58	1.32	0.85
Electrical Time Constant	T _e	ms	0.34	1.40	1.94	3.30	2.08	3.12
Weight (standard)	W	kgw	0.48	0.70	1.37	2.47	1.59	3.05
Insulation Grade	—	—	Class B (130°C)			Class F (155°C)		
Operating Ambient Temp.	T	°C	0 ~ 40					
Operating Ambient Humidity	RH	%	<80			<90		
Storage Temp.	T	°C	-20 ~ 60					
Storage Humidity	RH	%	<80					

1(kgf·cm)=0.0980665(N·m) ; 1(gf·cm·s)=0.980665(kg·cm²)

Standard Specification

M series Middle inertia
(550W~3kW)



Motor Mode	Symbol	Unit	JSMA-P□□□□				
			MA05	MA10	MA15	MH05	MH10
Standard / Customization			Standard	Standard	Standard	Customization	Customization
Drive Mode			20A	30A	30A/50A3	20A	30A
Rate Output	P _R	kW	0.55	1.0	1.5	0.55	1.0
Rated Torque	T _R	N·m	5.25	9.55	14.32	3.50	6.40
Max. Torque	T _{max}	N·m	15.76	28.65	42.96	10.51	19.21
Rated Speed	N _R	rpm		1000			1500
Max. Speed	N _{max}	rpm		1500			2000
Rated Current	I _R	A	3.43	5.16	7.45	2.98	5.0
Max. Armature Current	I _{max}	A	10.3	15.5	22.35	8.94	15.0
Torque Constant	K _T	N·m/A	1.679	2.039	2.110	1.293	1.411
Induced Voltage Constant	K _E	V/k rpm	175.9	213.6	221.3	135.6	147.6
Rotor Moment of Inertia	J _M	Kg·cm ²	6.26	12.14	17.92	6.26	12.14
Armature Resistance	R _a	Ω	3.58	1.85	1.19	2.31	0.95
Armature Inductance	L _a	mH	18.33	12.14	8.44	10.80	8.78
Mechanical Time Constant	T _m	ms	0.76	0.52	0.46	0.83	0.55
Electrical Time Constant	T _e	ms	5.12	6.55	7.09	4.68	9.28
Weight (standard)	W	kgw	6.45	10.18	13.87	6.45	10.18
Insulation Grade	—	—	Class B (130°C)				
Operating Ambient Temp.	T	°C	0 ~ 40				
Operating Ambient Humidity	RH	%	<90				
Storage Temp.	T	°C	-20 ~ 60				
Storage Humidity	RH	%	<90				

1(kgf·cm)=0.0980665(N·m) ; 1(gf·cm·s)=0.980665(kg·cm²)

Motor Mode	Symbol	Unit	JSMA-P□□□□							
			MB10	MB15	MB20	MB30	MC10	MC15	MC20	MC30
Standard / Customization			Standard	Standard	Standard	Standard	Customization	Customization	Customization	Customization
Drive Mode			30A	30A/50A3	50A3	75A3	30A	30A/50A3	50A3	75A3
Rate Output	P _R	kW	1.0	1.5	2.0	3.0	1.0	1.5	2.0	3.0
Rated Torque	T _R	N·m	4.78	7.16	9.55	14.33	3.20	4.78	6.37	9.55
Max. Torque	T _{max}	N·m	14.33	21.49	28.65	42.96	9.60	14.33	19.11	28.65
Rated Speed	N _R	rpm		2000				3000		
Max. Speed	N _{max}	rpm		2800				4000		
Rated Current	I _R	A	5.16	7.57	9.18	14.0	4.96	7.06	9.5	14.0
Max. Armature Current	I _{max}	A	15.5	22.71	27.5	42.0	14.88	21.2	28.5	42.0
Torque Constant	K _T	N·m/A	1.019	1.060	1.140	1.130	0.715	0.740	0.740	0.750
Induced Voltage Constant	K _E	V/k rpm	106.8	108.7	119.3	118.3	74.6	77.5	77.4	78.5
Rotor Moment of Inertia	J _M	Kg·cm ²	6.26	8.88	12.14	17.92	4.60	6.26	8.88	12.14
Armature Resistance	R _a	Ω	1.22	0.79	0.58	0.33	1.02	0.65	0.40	0.25
Armature Inductance	L _a	mH	6.70	4.74	3.78	2.12	5.06	3.58	2.40	1.62
Mechanical Time Constant	T _m	ms	0.70	0.61	0.52	0.45	0.88	0.71	0.62	0.51
Electrical Time Constant	T _e	ms	5.49	6.00	6.52	6.38	4.96	5.48	6.00	6.56
Weight (standard)	W	kgw	6.47	8.08	10.16	13.87	5.29	6.49	8.08	10.16
Insulation Grade	—	—	Class B (130°C)							
Operating Ambient Temp.	T	°C	0 ~ 40							
Operating Ambient Humidity	RH	%	<90							
Storage Temp.	T	°C	-20 ~ 60							
Storage Humidity	RH	%	<90							

1(kgf·cm)=0.0980665(N·m) ; 1(gf·cm·s)=0.980665(kg·cm²)

Standard Specification

MH/HH series Middle inertia (3kW~15kW)



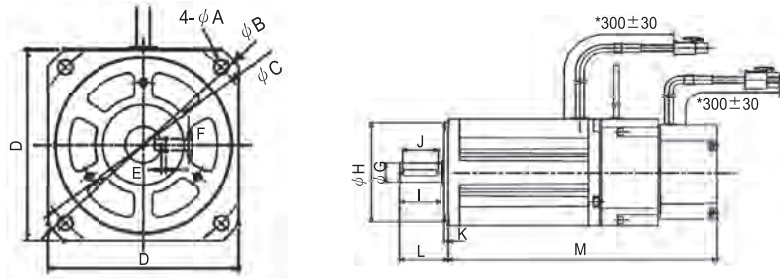
Motor Mode	Symbol	Unit	JSMA-P□□□□				
			MH30	MH44	MH55	MH75	MH110
Standard / Customization			Standard	Standard	Standard	Standard	Standard
Drive Mode			75A3	100A3	150A3	200A3	300A3
Rate Output	P _R	kW	3.0	4.4	5.5	7.5	11.0
Rated Torque	T _R	N·m	19.1	28.0	35.1	47.8	70.1
Max. Torque	T _{max}	N·m	49.5	71.5	89.6	122.6	179.0
Rated Speed	N _R	rpm	1500				
Max. Speed	N _{max}	rpm	2000				
Rated Current	I _R	A	15.0	22.5	28.5	38.0	58.0
Max. Armature Current	I _{max}	A	39.0	58.5	74.1	98.8	152.0
Torque Constant	K _T	N·m/A	1.27	1.24	1.23	1.26	1.21
Induced Voltage Constant	K _E	V/k rpm	81.32	82.23	81.20	81.62	83.40
Rotor Moment of Inertia	J _M	Kg·cm ²	39.99	51.44	63.52	93.94	160.94
Armature Resistance	R _a	Ω	0.18	0.12	0.09	0.05	0.03
Armature Inductance	L _a	mH	2.89	1.98	1.52	1.02	0.80
Mechanical Time Constant	T _m	ms	0.69	0.60	0.56	0.49	0.48
Electrical Time Constant	T _e	ms	16.12	16.81	17.24	18.96	26.77
Weight (standard)	W	kgw	19.5	26.2	30.0	42.0	52.5
Insulation Grade	—	—	Class F (155°C)				
Operating Ambient Temp.	T	°C	0 ~ 40				
Operating Ambient Humidity	RH	%	<90				
Storage Temp.	T	°C	-20 ~ 60				
Storage Humidity	RH	%	<90				

1(kgf·cm)=0.0980665(N·m) ; 1(gf·cm·s)=0.980665(kg·cm²)

Motor Mode	Symbol	Unit	JSMA-P□□□□				
			MH150	HH30	HH44	HH55	HH75
Standard / Customization			Standard	Standard	Standard	Standard	Standard
Drive Mode			300A3	100A3	150A3	200A3	300A3
Rate Output	P _R	kW	15.0	3.0	4.4	5.5	7.5
Rated Torque	T _R	N·m	95.5	19.1	28.0	35.1	47.8
Max. Torque	T _{max}	N·m	204.0	49.5	71.4	89.6	122.6
Rated Speed	N _R	rpm	1500	1500			
Max. Speed	N _{max}	rpm	2000	3000			
Rated Current	I _R	A	78.0	23.0	33.2	42.1	58.0
Max. Armature Current	I _{max}	A	170.0	59.8	86.3	109.5	151.0
Torque Constant	K _T	N·m/A	1.22	0.83	0.84	0.83	0.82
Induced Voltage Constant	K _E	V/k rpm	83.10	54.21	54.82	53.27	53.75
Rotor Moment of Inertia	J _M	Kg·cm ²	222.20	39.99	53.02	63.52	93.94
Armature Resistance	R _a	Ω	0.02	0.08	0.05	0.04	0.02
Armature Inductance	L _a	mH	0.50	1.48	0.89	0.68	0.43
Mechanical Time Constant	T _m	ms	0.37	0.70	0.62	0.56	0.51
Electrical Time Constant	T _e	ms	29.12	18.75	16.54	17.46	18.00
Weight (standard)	W	kgw	70.5	19.5	26.2	30.0	42.0
Insulation Grade	—	—	Class F (155°C)				
Operating Ambient Temp.	T	°C	0 ~ 40				
Operating Ambient Humidity	RH	%	<90				
Storage Temp.	T	°C	-20 ~ 60				
Storage Humidity	RH	%	<90				

1(kgf·cm)=0.0980665(N·m) ; 1(gf·cm·s)=0.980665(kg·cm²)

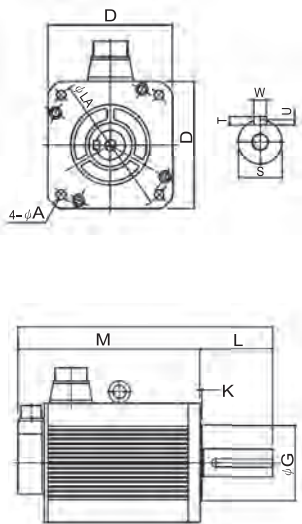
Dimension



Servo Motor Mode			A	B	C	D	E	F	G	H	I	J	K	L	M
JSMA-PL Series	Without Brake	LC03AB/H	φ 5.5	φ 100	φ 90	76	2	5	φ 14	φ 70	25	20	3	30	113.4
		LC08AB/H	φ 6.5	φ 112	φ 100	86	2	5	φ 16	φ 80	30	25	3	35	148
		LC08AB/H-OC	φ 6.5	φ 112	φ 100	86	2	5	φ 19	φ 80	30	25	3	35	148
	With Brake	LC03AB/H	φ 5.5	φ 100	φ 90	76	2	5	φ 14	φ 70	25	20	3	30	147.8
		LC08AB/H	φ 6.5	φ 112	φ 100	86	2	5	φ 16	φ 80	30	25	3	35	183.2
		LC08AB/H-OC	φ 6.5	φ 112	φ 100	86	2	5	φ 19	φ 80	30	25	3	35	183.2

JSMA-PS Series	Without Brake	SCP5AB/H	φ 3.5	φ 55	φ 48	42	-	-	φ 8	φ 30	22.5	16	2.5	25	85.8
		SC01AB/H	φ 3.5	φ 55	φ 48	42	-	-	φ 8	φ 30	22.5	16	2.5	25	106.8
		SC04AB/H	φ 5.5	-	φ 70	60	2	5	φ 14	φ 50	25	20	3	30	121.7
		SC08AB/H	φ 5.5	-	φ 90	80	2.5	6	φ 19	φ 70	35	30	3	40	139
	With Brake	SC04AB/H	φ 5.5	-	φ 70	60	2	5	φ 14	φ 50	25	20	3	30	157.1
		SC08AB/H	φ 5.5	-	φ 90	80	2.5	6	φ 19	φ 70	35	30	3	40	174

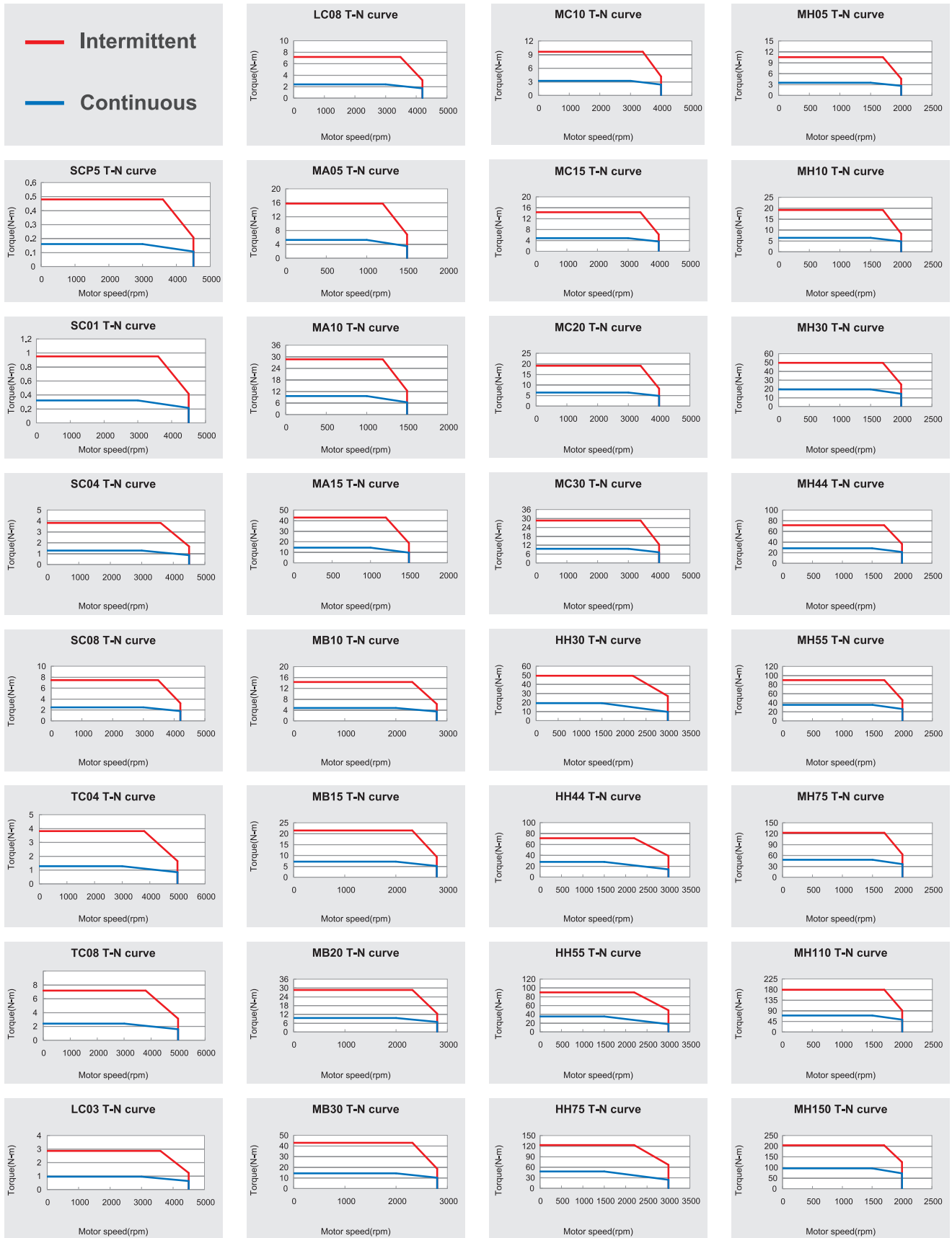
Unit:mm



Servo Motor Mode			A	LA	D	U	W	S	G	K	L	M
JSMA-PM JSMA-PH Series	Without Brake	MA05	9	145	130	2.5	6	22	110	6	58	164.8
		MH05	9	145	130	2.5	6	22	110	6	58	164.8
		MA10	9	145	130	2.5	6	22	110	6	58	214.8
		MB10	9	145	130	2.5	6	22	110	6	58	164.8
		MC10	9	145	130	2.5	6	22	110	6	58	149.8
		MH10	9	145	130	2.5	6	22	110	6	58	214.8
		MA15	9	145	130	2.5	6	22	110	6	58	264.8
		MB15	9	145	130	2.5	6	22	110	6	58	184.8
		MC15	9	145	130	2.5	6	22	110	6	58	164.8
		MB20	9	145	130	2.5	6	22	110	6	58	214.8
		MC20	9	145	130	2.5	6	22	110	6	58	184.8
		MB30	9	145	130	2.5	6	22	110	6	58	264.8
	MC30	9	145	130	2.5	6	22	110	6	58	214.8	
	MH30	13.5	200	180	5	10	35	114.3	3.2	79	254	
	MH44	13.5	200	180	5	10	35	114.3	3.2	79	283	
	MH55	13.5	200	180	5	12	42	114.3	3.2	113	297	
	MH75	13.5	200	180	5	12	42	114.3	3.2	113	382	
	MH110	13.5	235	220	5	12	42	200	4	116	352	
	MH150	13.5	235	220	5	12	42	200	4	116	429	
	HH30	13.5	200	180	5	10	35	114.3	3.2	79	245	
	HH44	13.5	200	180	5	10	35	114.3	3.2	79	273.5	
	HH55	13.5	200	180	5	12	42	114.3	3.2	113	282.5	
	HH75	13.5	200	180	5	12	42	114.3	3.2	113	371	
	With Brake	MA05	9	145	130	2.5	6	22	110	6	58	219.8
MH05		9	145	130	2.5	6	22	110	6	58	219.8	
MA10		9	145	130	2.5	6	22	110	6	58	269.8	
MB10		9	145	130	2.5	6	22	110	6	58	219.8	
MC10		9	145	130	2.5	6	22	110	6	58	204.8	
MH10		9	145	130	2.5	6	22	110	6	58	269.8	
MA15		9	145	130	2.5	6	22	110	6	58	319.8	
MB15		9	145	130	2.5	6	22	110	6	58	239.8	
MC15		9	145	130	2.5	6	22	110	6	58	219.8	
MB20		9	145	130	2.5	6	22	110	6	58	269.8	
MC20		9	145	130	2.5	6	22	110	6	58	239.8	
MB30		9	145	130	2.5	6	22	110	6	58	319.8	
MC30	9	145	130	2.5	6	22	110	6	58	269.8		

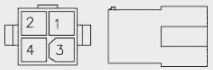






Unit:mm

Performance Curve

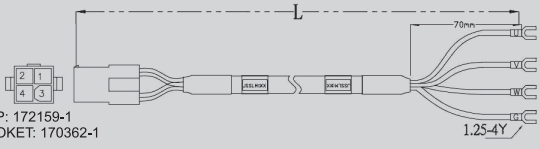
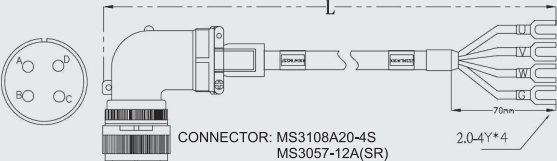
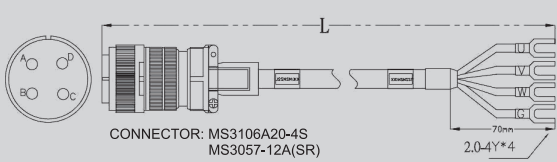
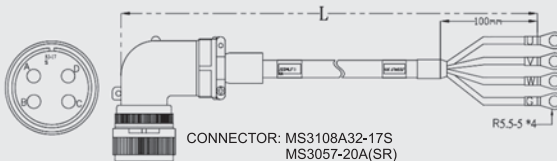
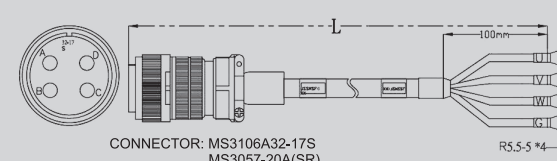


Accessories

Power Connectors

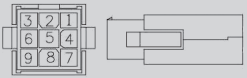


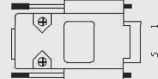
Part No.	Description	Model
JSSCNM04	For JSMA-S/L Series (50W~750W)	 CAP: 172159-1 SCOKET: 170362-1
JSSCNML04	For JSMA-M Series without brake (550W~3kW)	 CONNECTOR: MS3108A20-4S MS3057-12A(SR)
JSSCNMS04	For JSMA-M Series without brake (550W~3kW)	 CONNECTOR: MS3106A20-4S MS3057-12A(SR)
JSSCNBL04	For JSMA-MM/MH Series without brake (3kW~15kW)	 CONNECTOR: MS3108A32-17S MS3057-20A(SR)
JSSCNBS04	For JSMA-MM/MH Series without brake (3kW~15kW)	 CONNECTOR: MS3106A32-17S MS3057-20A(SR)
JSSCNML07	For JSMA-M Series with brake (550W~3kW)	 CONNECTOR: MS3108A20-15S MS3057-12A(SR)
JSSCNMS07	For JSMA-M Series with brake (550W~3kW)	 CONNECTOR: MS3106A20-15S MS3057-12A(SR)

Power Connectors

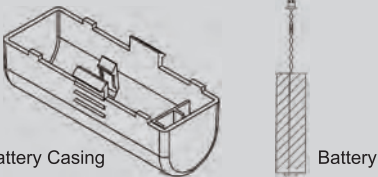
Part No.	L (Meter)	Description	Model
JSSLM001	1	For JSMA-S/L Series (50W~750W)	 CAP: 172159-1 SCOKET: 170362-1 1.25-4Y
JSSLM003	3		
JSSLM005	5		
JSSLM010	10		
JSSLM015	15		
JSSLM020	20		
JSSMLM001	1	For JSMA-M Series without brake (550W~3kW)	 CONNECTOR: MS3108A20-4S MS3057-12A(SR) 2.0-4Y*4
JSSMLM003	3		
JSSMLM005	5		
JSSMLM010	10		
JSSMLM015	15		
JSSMLM020	20		
JSSMSM001	1	For JSMA-M Series without brake (550W~3kW)	 CONNECTOR: MS3106A20-4S MS3057-12A(SR) 2.0-4Y*4
JSSMSM003	3		
JSSMSM005	5		
JSSMSM010	10		
JSSMSM015	15		
JSSMSM020	20		
JSSBLM001	1	For JSMA-MM/MH Series without brake (3kW~15kW)	 CONNECTOR: MS3108A32-17S MS3057-20A(SR) R5.5-5 *4
JSSBLM003	3		
JSSBLM005	5		
JSSBLM010	10		
JSSBLM015	15		
JSSBLM020	20		
JSSBSM001	1	For JSMA-MM/MH Series without brake (3kW~15kW)	 CONNECTOR: MS3106A32-17S MS3057-20A(SR) R5.5-5 *4
JSSBSM003	3		
JSSBSM005	5		
JSSBSM010	10		
JSSBSM015	15		
JSSBSM020	20		

Accessories

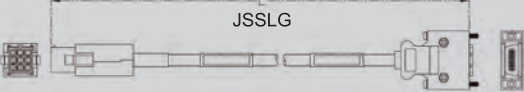
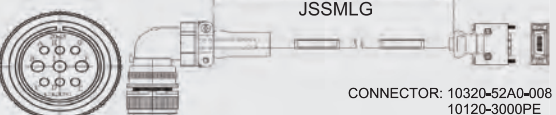
Encoder Connectors

Part No.	Description	Model
JSSCNP09	For JSMA-S/L Series	 CONNECTOR: 172161-1 TERMINAL: 170361-1
JSSCNPL09	For JSMA-M Series	 CONNECTOR: MS3108A20-18S MS3057-12A(SR)
JSSCN20P	For JSDA+ Series (CN2)	 CONNECTOR: 10320-52A0-008 12120-3000PE
JSSECN09P	For JSDE+ Series (CN2)	 CONNECTOR: D-SUB9PM Male COVER: DC-9CT Screw

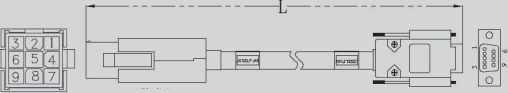
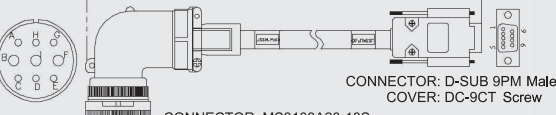
Battery Module (For JSDA+ Series)

Part No.	Description	Model
JSSBAT	For absolute encoder	 Battery Casing Battery

Encoder Cables (For 15-bit / 17-bit encoders)

Part No.	L (Meter)	Description	Model
JSSLG001	1	For JSMA-S/L Series and JSDA+ Amplifiers	 CONNECTOR: 172161-1 TERMINAL: 170361-1 CONNECTOR: 10320-52A0-008 10120-3000PE
JSSLG003	3		
JSSLG005	5		
JSSLG010	10		
JSSLG015	15		
JSSLG020	20		
JSSMLG001	1	For JSMA-M Series and JSDA+ Amplifiers	 CONNECTOR: MS3108A20-18S MS3057-12A(SR) CONNECTOR: 10320-52A0-008 10120-3000PE
JSSMLG003	3		
JSSMLG005	5		
JSSMLG010	10		
JSSMLG015	15		
JSSMLG020	20		

Encoder Cables (For 2500ppr / 8192ppr encoders)

Part No.	L (Meter)	Description	Model
JSSELP001	1	For JSMA-S/L Series and JSDE+ / JSDA+ Series	 CONNECTOR: 172161-1 TERMINAL: 170361-1 CONNECTOR: D-SUB 9P Male COVER: DC-9CT Screw
JSSELP003	3		
JSSELP005	5		
JSSELP010	10		
JSSELP015	15		
JSSELP020	20		
JSSEMLP001	1	For JSMA-M Series and JSDE+/JSDA+ Series	 CONNECTOR: MS3108A20-18S MS3057-12A(SR) CONNECTOR: D-SUB 9PM Male COVER: DC-9CT Screw
JSSEMLP003	3		
JSSEMLP005	5		
JSSEMLP010	10		
JSSEMLP015	15		
JSSEMLP020	20		

Accessories

I/O Signal Connector

Part No.	Description	Model
JSSCN50P	For JSDA ⁺ Series (CN1)	CONNECTOR: 10350-52A0-008 10150-3000PE
JSSECN25P	For JSDE ⁺ Series (CN1)	CONNECTOR: D-SUB 25P M Male COVER: DC-25 CT Screw

Terminal Block (For JSDA⁺ Series)

Part No.	L (Meter)	Description	Model
JSSTBC0P5	0.5	For JSDA ⁺ Series	<p>Shell kit: 10350-3210-000*2 SCSI II: 10150-600PE*2</p>
JSSTBC001	1		
JSSTBC002	2		
JSSTB50P	—	For JSDA ⁺ Series	

Terminal Block (For JSDE⁺ Series)

Part No.	L (Meter)	Description	Model
JSSETBC0P5	0.5	For JSDE ⁺ Series	<p>CONNECTOR: D-SUB 25P M Male X2 COVER: DC-25 CT Screw X2</p>
JSSETBC001	1		
JSSETBC002	2		
JSSETB25P	—	For JSDE ⁺ Series	

Communication Cables

Part No.	L (Meter)	Description	Model
JSSDTC001	1	Connection to PC	<p>D-9S MD-8P</p>
JSSDTC002	2		
JSSDTD001	1	Connection to Drive	<p>MD-8P MD-8P</p>
JSSDTD002	2		

Distributor



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