



AC SERVO DRIVES

XtraDrive

(EN)

DE

ES

FR

IT



XtraDrive XtraDrive XtraDrive XtraDrive XtraDrive XtraDrive XtraDrive

AC SERVO DRIVES

XtraDrive



Model Designations

上正科技有限公司

購買、維修、二手機零組件

電話：037-466333

E-mail: service@repairtw.com

Line id: @zzzz

www.repairtw.com

XtraDrive

Output capacity

P3	30 W	08	750 W
P5	50 W	10	1.0 kW
01	100 W	15	1.5 kW
02	200 W	20	2.0 kW
04	400 W	30	3.0 kW
05	500 W	50	5.0 kW

Input voltage

M: 230 V

T: 400 V

Electronic CAM enabled

Feedback Option

01 - Yaskawa serial, A&B

0A - A&B + Hall

Factory set option
blank - standard

D0 - Profibus DP

DL - Dual Loop

Extended functionality

N: With CN10 connector for option units

S: No CN10 connector

Features

XtraDrive is an intelligent servo drive with integrated controller and network connectivity.

- NCT. Patented non-linear algorithm for tight control:
 - Non-linear control, adaptive feed-forward algorithm and digital processing of encoder pulses, provide both small tracking error and zero settling time
 - Increased throughput and reduced influence of external perturbations
- Very low tracking error with no overshoot and zero settling time
- Supports different servo motor encoder types
- PROFIBUS DP embedded in the drive available
- XtraDrive model available with electronic CAM
- The ideal drive for linear motor control
- Fast hardware registration input
- Intuitive text programming language
- Automatic tuning of servo parameters for optimal settling time
- Integrated Oscilloscope available via XtraWare software tool

Ratings

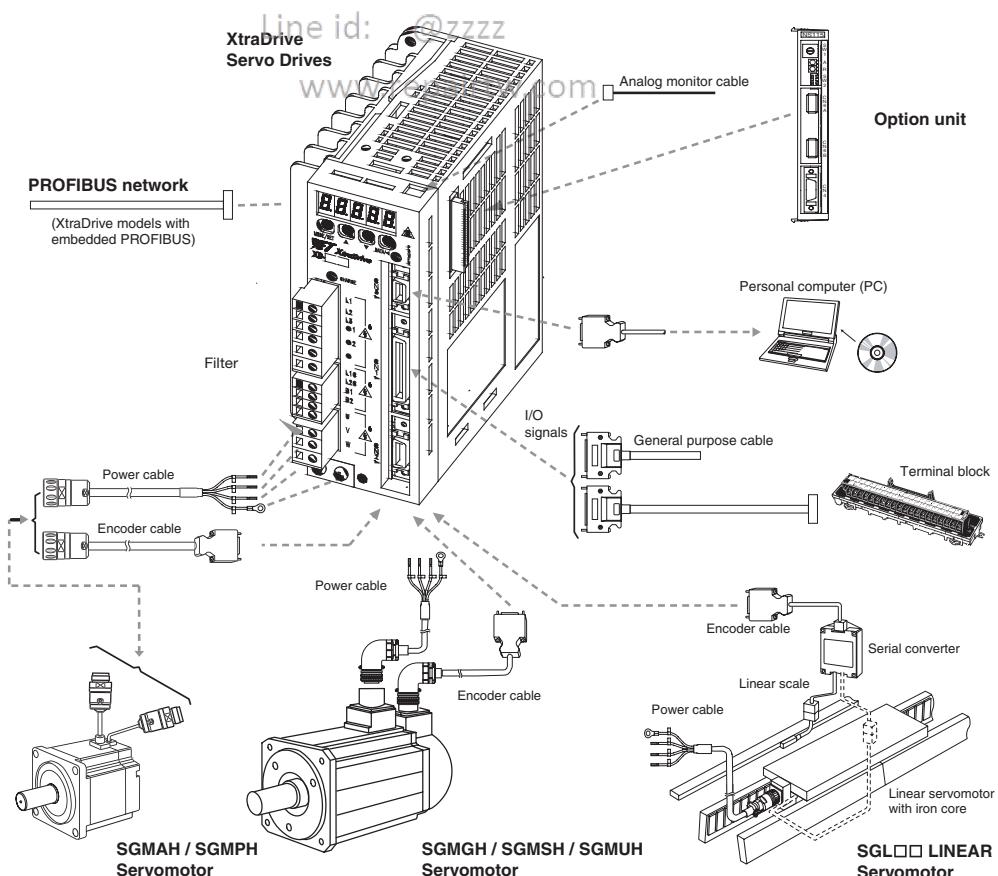
- 230 VAC single-phase 30 W to 1.5 kW (4.77 Nm)
- 400 VAC three-phase 0.5 kW to 5.0 kW (28.4 Nm)

上禾科技有限公司

購買、維修 此手冊零組件

電話： 037-466333

Email: service@repairtw.com



Servo motor / Servo drive combination

Servo motor				Servo drive			
	Voltage	Rated torque	Capacity	230 V (1-phase) w PROFIBUS	230 V (1-phase) w PROFIBUS	400V (3-phase)	400 V (3-phase) w PROFIBUS
Sigma-II series motors (refer to the Sigma-II rotary motor catalog for details)							
SGMAH (3000 min ⁻¹)	230 V	0.095 Nm	30 W	XD-P3-MN01-□	XD-P3-MSD0-□	-	-
		0.159 Nm	50 W	XD-P5-MN01-□	XD-P5-MSD0-□	-	-
		0.318 Nm	100 W	XD-01-MN01-□	XD-01-MSD0-□	-	-
		0.637 Nm	200 W	XD-02-MN01-□	XD-02-MSD0-□	-	-
		1.27 Nm	400 W	XD-04-MN01-□	XD-04-MSD0-□	-	-
		2.39 Nm	750 W	XD-08-MN□	XD-08-MSD0-□	-	-
		0.955 Nm	300 W	-	-	XD-05-TN□	XD-05-TSD0-□
SGMPH (3000 min ⁻¹)	230 V	2.07 Nm	650 W	-	-	XD-10-TN□	XD-10-TSD0-□
		0.318 Nm	100 W	XD-01-MN01-□	XD-01-MSD0-□	-	-
		0.637 Nm	200 W	XD-02-MN01-□	XD-02-MSD0-□	-	-
		1.27 Nm	400 W	XD-04-MN01-□	XD-04-MSD0-□	-	-
		2.39 Nm	750 W	XD-08-MN□□	XD-08-MSD0-□	-	-
	400 V	4.77 Nm	1500 W	XD-15-MN□□	-	-	-
		0.637 Nm	200 W	-	-	XD-05-TN□	XD-05-TSD0-□
		1.27 Nm	400 W	-	-	XD-05-TN□	XD-05-TSD0-□
		2.39 Nm	750 W	-	-	XD-10-TN□	XD-10-TSD0-□
		4.77 Nm	1500 W	-	-	XD-15-TN□	XD-15-TSD0-□
SGMGH (1500 min ⁻¹)	400 V	2.84 Nm	0.45 kW	-	-	XD-05-TN□	XD-05-TSD0-□
		5.39 Nm	0.85 kW	-	-	XD-10-TN□	XD-10-TSD0-□
		8.34 Nm	1.3 kW	-	-	XD-15-TN□	XD-15-TSD0-□
		11.5 Nm	1.8 kW	-	-	XD-20-TN□	XD-20-TSD0-□
		18.6 Nm	2.9 kW	-	-	XD-30-TN□	XD-30-TSD0-□
		28.4 Nm	4.4 kW	-	-	XD-50-TN□	-
		3.18 Nm	1.0 kW	-	-	XD-10-TN□	XD-10-TSD0-□
SGMSH (3000 min ⁻¹)	400 V	4.90 Nm	1.5 kW	-	-	XD-15-TN□	XD-15-TSD0-□
		6.36 Nm	2.0 kW	-	-	XD-20-TN□	XD-20-TSD0-□
		9.80 Nm	3.0 kW	-	-	XD-30-TN□	XD-30-TSD0-□
		12.6 Nm	4.0 kW	-	-	XD-50-TN□	-
		15.8 Nm	5.0 kW	-	-	XD-50-TN□	-
		1.59 Nm	1.0 kW	-	-	XD-10-TN□	XD-10-TSD0-□
SGMUH (6000 min ⁻¹)	400 V	2.45 Nm	1.5 kW	-	-	XD-15-TN□	XD-15-TSD0-□
		4.9 Nm	3.0 kW	-	-	XD-30-TN□	XD-30-TSD0-□
		6.3 Nm	4.0 kW	-	-	XD-50-TN□	-
		1.59 Nm	1.0 kW	-	-	XD-10-TN□	XD-10-TSD0-□
Sigma linear motors (refer to the Sigma linear motors catalog for details)							
SGLGW Linear motors	230 V	Refer to the linear motors catalog for details					
SGLFW Linear motors	230 V, 400 V	Refer to the linear motors catalog for details					
SGLTW Linear motors	400 V	Refer to the linear motors catalog for details					

Servo drive specifications

Single-phase, 230 V

Servo drive type	XD-P3-M□	XD-P5-M□	XD-01-M□	XD-02-M□	XD-04-M□	XD-08-M□	XD-15-M□	
Applicable servo motor	SGMAH-□ SGMPH-□	A3A□ -	A5A□ -	01A□ 01A□	02A□ 02A□	04A□ 04A□	08A□ 08A□	15A□ -
Max. applicable motor capacity W	30	50	100	200	400	750	1500	
Continuous output current Arms	0.44	0.64	0.91	2.1	2.8	5.7	11.6	
Max. output current Arms	1.3	2.0	2.8	6.5	8.5	13.9	28	
Input power	Main circuit	For single-phase, 200 to 230 VAC + 10 to -15%						
Supply	Control circuit	For single-phase, 200 to 230 VAC + 10 to -15%						
Control method	Single phase full-wave rectification / IGBT / PWM / sine-wave current drive method							
Feedback	Serial encoder (incremental/absolute value)							
Conditions	Usage/storage temperature: 0 to +55 °C / -20 to 85 °C Usage/storage humidity: 90%RH or less (non-condensing) Altitude: 1000 m or less above sea level Vibration/shock resistance: 4.9 m/s ² / 19.6 m/s ²							
Configuration	Base mounted							
Approx. weight kg	0.8		1.1		1.7		3.8	

Three-phase, 400 V

Servo drive type	XD-05-T□	XD-10-T□	XD-15-T□	XD-20-T□	XD-30-T□	XD-50-T□	
Applicable servo motor	SGMAH-□ SGMPH-□ SGMGH-□ SGMSH-□ SGMUH-□	03D□ 02D□, 04D□ 05D□ 10D□	07D□ 08D□ 09D□ 10D□	- 15D□ 13D□ 15D□	- - 20D□ 20D□	- - 30D□ 30D□	- - 44D□ 40D□/50D□
Max. applicable motor capacity kW	0.45	1.0	1.5	2.0	3.0	5.0	
Continuous output current Arms	1.9	3.5	5.4	8.4	11.9	16.5	
Max. output current Arms	5.5	8.5	14	20	28	40.5	
Input power	Main circuit	For three-phase, 380 to 480 VAC + 10 to -15% (50/60 Hz)					
Supply	Control circuit	24 VDC+15%					
Control method	Three phase full-wave rectification / IGBT / PWM / sine-wave current drive method						
Feedback	Serial encoder (incremental/absolute value)						
Conditions	Usage/storage temperature: 0 to +55 °C / -20 to +85 °C Usage/storage humidity: 90%RH or less (non condensing) Altitude: 1000 m or less above sea level Vibration/shock resistance: 4.9 m/s ² / 19.6 m/s ²						
Configuration	Base mounted						
Approx. weight kg	2.8		3.8		5.5		

電話 : 03-466333
Email: service@repartw.com
www.repartw.com

XtraDrive

General Specifications

Performance Speed/torque control mode	Speed control range	1:5000
	Speed variance	Load variance During 0 to 100% load $\pm 0.01\%$ max. (at rated speed)
	Voltage variance	Rated voltage $\pm 10\%$: 0% (at rated speed)
	Temperature variance	25 $\pm 25^\circ\text{C}$: $\pm 0.1\%$ max (at rated speed)
	Frequency characteristics	400Hz (at $J_L = J_M$)
	Torque control accuracy (reproducibility)	$\pm 2\%$
	Soft start time setting	0 to 10s (acceleration, deceleration can each be set.)
	Speed reference input	Reference voltage $\pm 6\text{VDC}$ (forward motor rotation if positive reference) at rated speed: Set at delivery Variable setting range: ± 2 to $\pm 10\text{ VDC}$ at rated speed/ max. input voltage: $\pm 12\text{ V}$ Input impedance Approx. 14 k Ω Circuit time constant -
	Torque reference input	Reference voltage $\pm 3\text{ VDC}$ (forward rotation if positive reference) at rated speed: Set at delivery Variable setting range ± 1 to $\pm 10\text{ VDC}$ at rated torque reference Input impedance Approx. 14 k Ω Circuit time constant Approx. 47 μs
	Contact speed reference	Rotation direction selection With P control signal Speed selection With forward/reverse current limit signal (speed 1 to 3 selection), servo motor stops or another control method is used when both are OFF.
Position control mode	Bias Setting	0 to 450 min^{-1} (setting resolution: 1 min^{-1})
	Feed forward compensation	0 to 100 % (setting resolution: 1%)
	Position completed width setting	0 to 250 command units (setting resolution: 1 command unit)
	Input signal	Command pulse Input pulse type Sign + pulse train, 90° phase displacement 2-phase pulse (A-phase+ B-phase) or CCW/CW pulse train Input pulse form Line driver (+5 V.level), open collector (+5 V. or +12 level) Input pulse frequency 0 to 500 Kpps (200 Kpps max. at open collector) Control signal Clear signal (input pulse is same as reference pulse)
I/O signal	Position signal output	A-phase, B.phase, C-phase, (S-phase): line driver output S-phase is for absolute encoder only.
	Sequence input signal	Servo ON, P control (or control mode switching, zero clamp, command pulse inhibit), forward/reverse run prohibit, alarm reset, forward/reverse current limit (or internal speed switching)
	Sequence output signal	Servo alarm, alarm codes (3-bit output): CN1 output terminal is fixed It is possible to output three types of signals from among: positioning complete (speed agree), motor rotation, servo ready, current limit, speed limit, brake release, warning, NEAR, and zero point pulse signal
	Communications	Interface Digital operator (hand-held type), RS-422 port for PCs, etc. (RS-232C ports under some conditions) 1:N communications N may equal up to 14 when an RS-422A port is used. Axis address setting Set by user setting Functions Status display, user constant setting monitor display, alarm traceback display, JOG run /autotuning operations, and graphing functions for speed/torque command signal, etc PROFIBUS (Only models with PROFIBUS) PROFIBUS DP slave, node address 0-125 set by rotary switches, baud rate from 9.6 kbps to 12 Mbps. LED Indicators: Bus failure and system failure
Integrated functions	Auto tuning function	Position speed loop gain and integral time constant can be automatically set.
	Dynamic brake (DB)	Operates during main power OFF, servo alarm, servo OFF or overtravel
	Regenerative processing	Regenerative resistor externally mounted (option)
	Overtravel (OT) prevention function	DB stop, deceleration stop or coast to stop during P-OT, N-OT operation
	Encoder divider function	Optional division possible
	Electronic gearing	0,01 < A/B < 100
	Internal speed setting function	3 speeds may be set internally
	Protective functions	Overcurrent, overvoltage, insufficient voltage, overload, main circuit sensor error, heatsink overheat, power phase loss, overflow, overspeed, encoder error, runaway, CPU error, parameter error, etc.
	Analog monitor functions for supervision	Integrates analog monitor connectors for supervision of the speed and torque reference signals, etc.
	Display functions	CHARGE, POWER, 7-segments LEDx5 (Integrated digital operator function, not available in models with PROFIBUS)
	Others	Reverse connection, zero search, automatic motor discrimination function, and DC reactor connection terminal for high frequency power suppression function (except: 6 to 15 kW)

Terminal specifications

Symbol	Name	Function		
L1, L2 or L1, L2, L3	Main circuit AC input terminal	AC power input terminals for the main circuit		
U	Servo motor connection terminal	Red	Terminals for outputs to the servo motor.	
V		White		
W		Blue		
L1C, L2C	Control power input terminal	AC power input terminals for the control circuit.		
\ominus	Frame ground	Ground terminal. Ground to a maximum of 100 Ω . (class 3)		
B1, B2 or B1, B2, B3	Main circuit DC output terminal	5 kW or less: Connect an external regenerative resistor if regenerative energy is high. 5.5 kW: There is no internal regenerative resistor. Be sure to connect an external regenerative resistor unit		
$\oplus 1, \oplus 2$	DC reactor connection terminal for suppressing power supply harmonic waves	Normally, short $\oplus 1$ and $\oplus 2$. If a countermeasure against power supply harmonic waves is needed, connect a DC reactor between $\oplus 1$ and $\oplus 2$.		
\oplus	Main circuit DC output terminal (+)	Normally, not connected. This terminal exists on the servo drives with a capacity of 6.0 kW or higher only.		
\ominus	Main circuit DC output terminal (n-)	Normally, not connected.		

I/O specifications

Encoder connector (CN2)

Pin	Symbol	Function
1, 2, 3	PPG0V	Encoder power supply GND
4, 5, 6	PPG5V	Encoder power supply +5 V
7	-	-
8	PS+	Encoder serial signal input
9	PS-	Encoder serial signal input
10	SePG5V	Serial encoder power supply +5 V (Sigma-II)
11	SePG0V	Serial encoder power supply GND (Sigma-II)
12	BAT+	Battery + (used only with absolute encoder)
13	BAT-	Battery - (used only with absolute encoder)
14	PC+	Encoder + C-phase input
15	PC-	Encoder - C-phase input
16	A+	Encoder + A-phase input
17	A-	Encoder - A-phase input
18	B+	Encoder + B-phase input
19	B-	Encoder - B-phase input
20	-	-
Shell	FG	Cable shield ground

I/O signals (CN1) - input signals

Pin No.	Signal Name	Function	
40	Common	/S-ON	Servo ON: Turns ON the servo motor when the gate block in the inverter is released.
41		/P-CON	Function selected by parameter. Proportional control reference Direction reference Control mode switching Zero-clamp reference Reference pulse block
			Switches the speed control loop from PI (proportional/ integral) to P (proportional) control when ON. With the internal set speed selected: switch the rotation direction. Position ↔ speed Position ↔ torque Torque ↔ speed } Enables control mode switching.
42	P-OT	Forward run prohibited	Overtravel prohibited: stops servo motor when movable part travels beyond the allowable range of motion.
43	N-OT	Reverse run prohibited	
45	/P-CL	Function selected by parameter.	
46	/N-CL	Forward external torque limit ON Reverse external torque limit ON	Current limit function enabled when ON.
		Internal speed switching	With the internal set speed selected: switches the internal speed settings.
44	/ALM-RST	Alarm reset: releases the servo alarm state.	
47	+24VIN	Control power supply input for sequence signals: users must provide the +24 V power supply. Allowable voltage fluctuation range: 11 to 25 V	
4 (2)	SEN	Initial data request signal when using an absolute encoder.	
21	BAT (+)	Connecting pin for the absolute encoder backup battery.	
22	BAT (-)	Do not connect when a battery is connected to the host controller.	
5 (6)	Speed	V-REF	Speed reference speed input: ±2 to ±10 V/rated motor speed (input gain can be modified using a parameter.)
9 (10)	Torque	T-REF	Torque reference input: ±1 to ±10 V/rated motor torque (input gain can be modified using a parameter.)
7	Position	PULS	Reference pulse input for line driver only
8		/PULS	Input mode is set from the following pulses. Sign + pulse string CCW/CW pulse Two-phase pulse (90° phase differential)
11		SIGN	
12		/SIGN	
15	CLR	/CLR	Positional error pulse clear input: clears the positional error pulse during position control
14			
3		PL1	+12 V pull-up power is supplied when PULS, SIGN, and CLR reference signals are open-collector outputs
13		PL2	(+12 V power supply is built into the SERVOPACK).
18		PL3	

Note: 1. Pin numbers in parentheses () indicate signal grounds.

2. The functions allocated to /S-ON, /P-CON, P-OT, N-OT, /ALM-RST, /P-CL, and /N-CL input signals can be changed by using the parameters.
3. The voltage input range for speed and torque references is a maximum of ±12 V.

XtraDrive

I/O signals

I/O signals (CN1) - output signals

Pin No.	Signal name	Function	
31	Common	ALM+	Servo alarm: Turns OFF when an error is detected.
32		ALM-	
27	/TGON+		Detection during servo motor rotation: detects when the servo motor is rotating at a speed higher than the motor speed setting. Detection speed can be set by using the parameters.
28	/TGON-		
29	/S-RDY+		Servo ready: ON if there is no servo alarm when the control/main circuit power supply is turned ON.
30	/S-RDY-		
33 (1)	PAO	Phase-A signal	Converted two-phase pulse (phases A and B) encoder output signal and zero-point pulse (phase C) signal: RS-422 or the equivalent (proper line receiver is SN75175 manufactured by Texas Instruments or the equivalent corresponding to MC3486.)
34	/PAO		
35	PBO	Phase-B signal	
36	/PBO		
19	PCO	Phase-C signal	
20	/PCO		
48	PSO	Phase-S signal	With an absolute encoder: Outputs serial data corresponding to the number of revolutions (RS-422 or the equivalent)
49	/PSO		
37	ALO1	Alarm code output: Outputs 3-bit alarm codes.	
38	ALO2		
39 (1)	ALO3	Open-collector: 30 V and 20 mA rating maximum	
16	TMON	Analog monitor signal	
17	VTG	Analog monitor signal	
Shell	FG	Connected to frame ground if the shield wire of the I/O signal cable is connected to the connector shell.	
25	Speed	/V-CMP+	Speed coincidence (output in speed control mode): Detects whether the motor speed is within the setting range and if it matches the reference speed value.
26		/V-CMP-	
25	Position	/COIN+	Positioning completed (output in position control mode): Turns ON when the number of positional error pulses reaches the value set. The setting is the number of positional error pulses set in reference units (input pulse units defined by the electronic gear).
26		/COIN-	
-	Reserved	/CLT /VLT /BK /WARN /NEAR	Reserved terminals The functions allocated to /TGON, /S-RDY, and /V-CMP (/COIN) can be changed by using the parameters. /CLT, /VLT, /BK, /WARN, and /NEAR signals can also be changed. 電話 : 037-466333 Email : service@repairtw.com
23		-	Terminals not used Do not connect relays to these terminals.
24			
50			

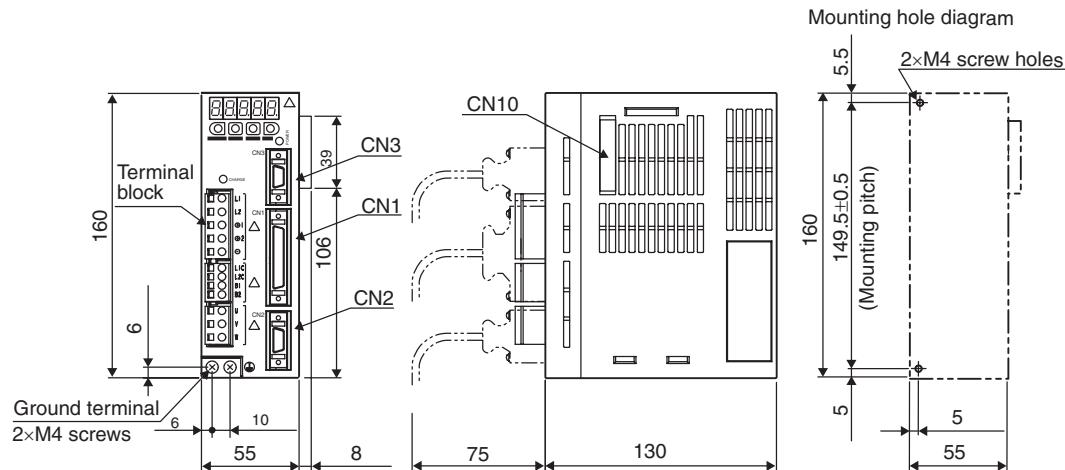
Note: 1. Pin numbers in parentheses () indicate signal grounds.

2. The functions allocated to /TGON, /S-RDY, and /V-CMP (/COIN) can be changed by using the parameters. /CLT, /VLT, /BK, /WARN, and /NEAR signals can also be changed.

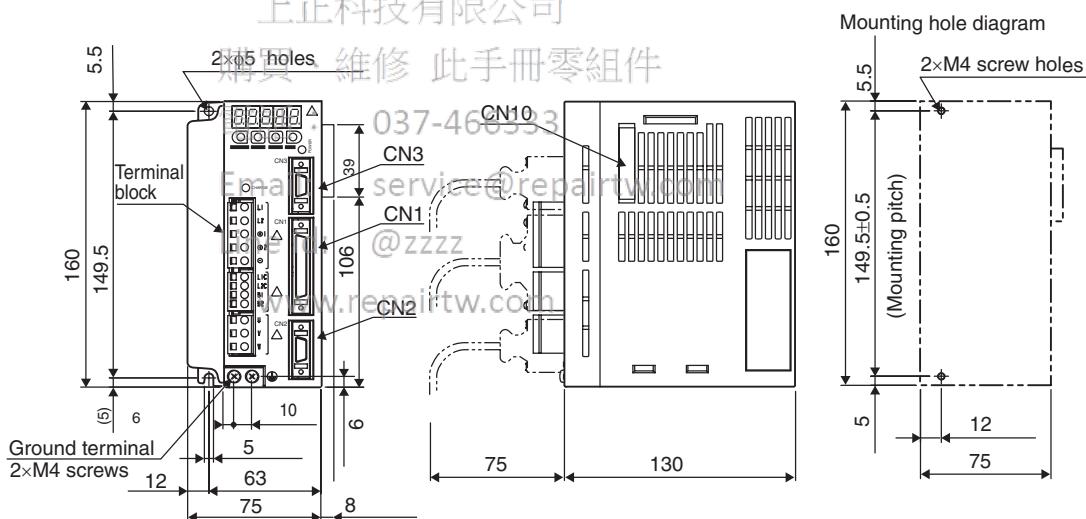
External dimensions

Servo drives

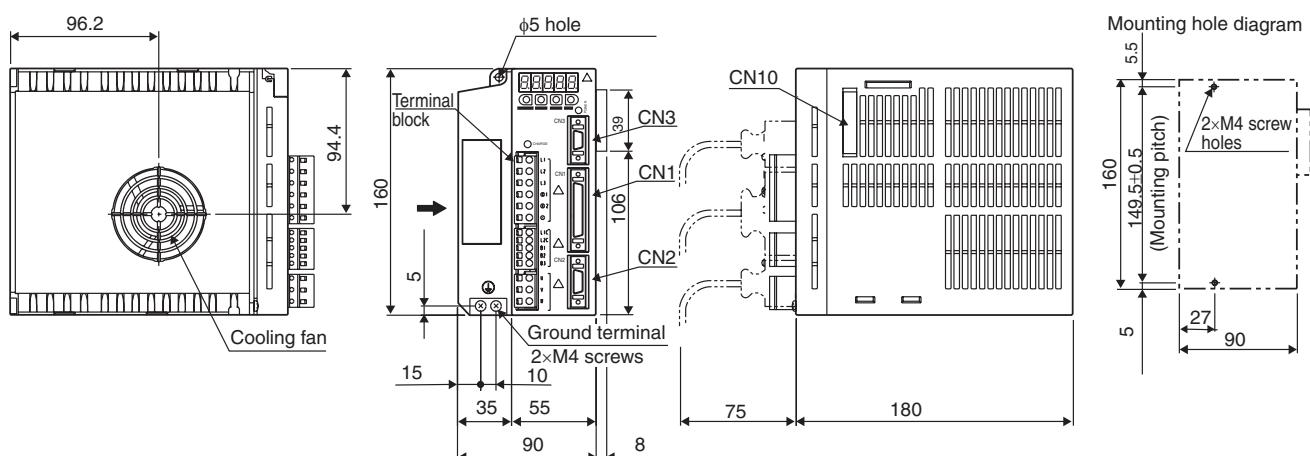
XD-P3-M□ to XD-02-M□ (230V, 30 to 200W)



XD-04-M□ (230V, 400W)

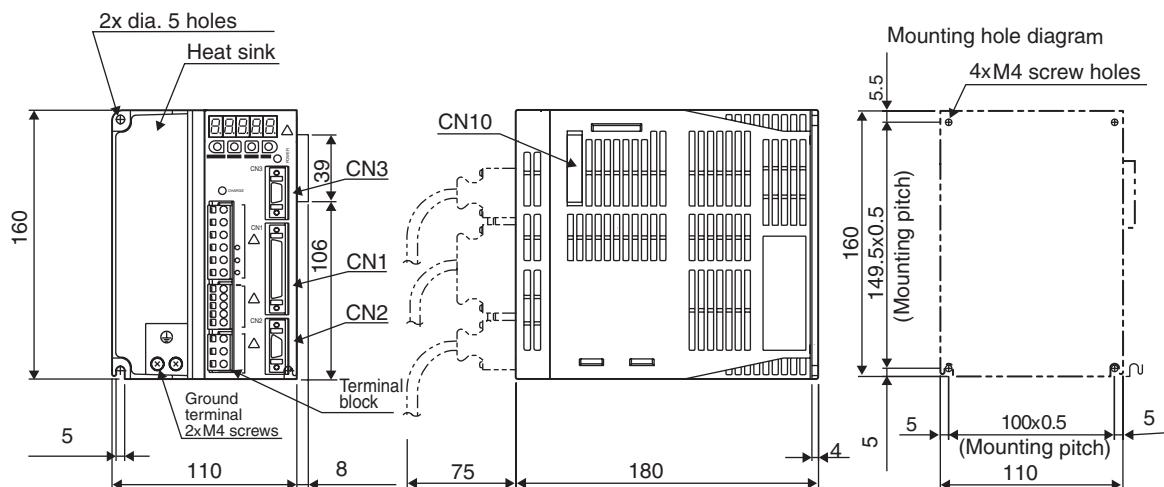


XD-08-M□ (230V, 750W)

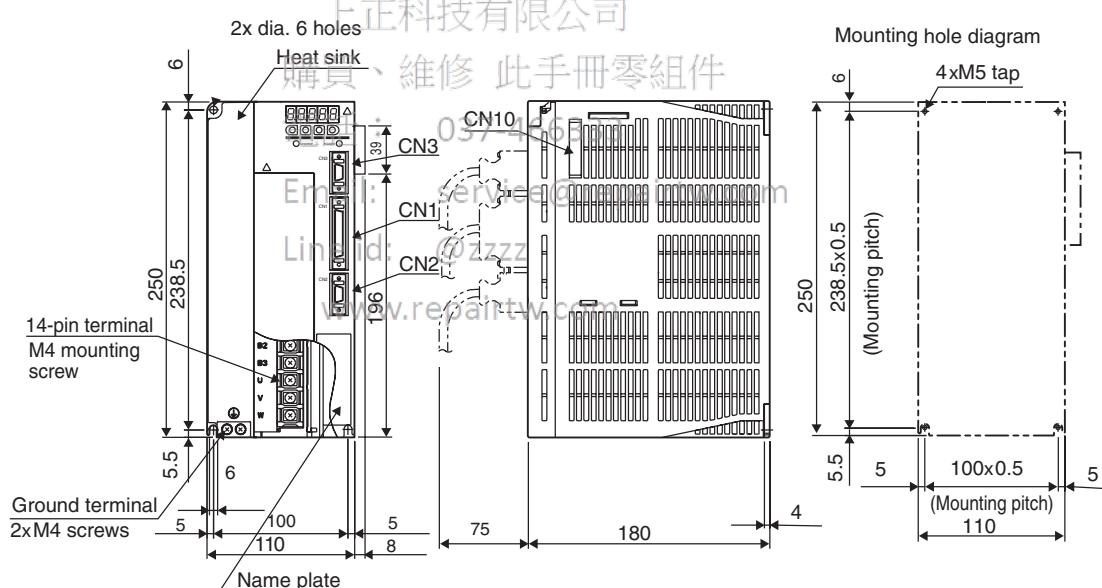


External Dimensions

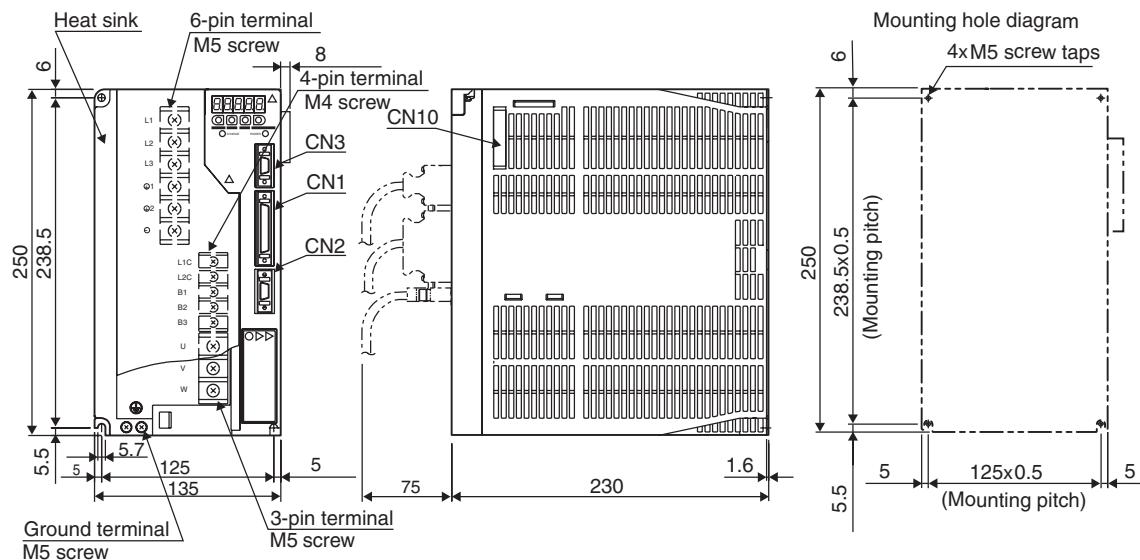
XD-05-T□ to -15-T□ (400V, 0.5 to 1.5kW)



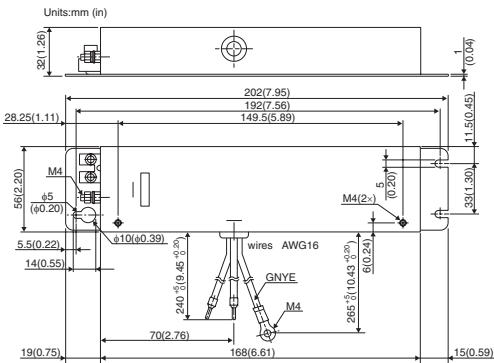
XD-15-M□ (230V, 1.5kW) XD-20-T□, XD-30-T□ (400V, 2/3kW)



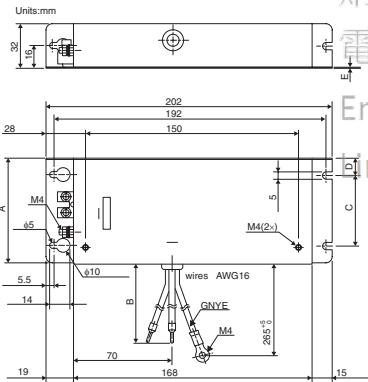
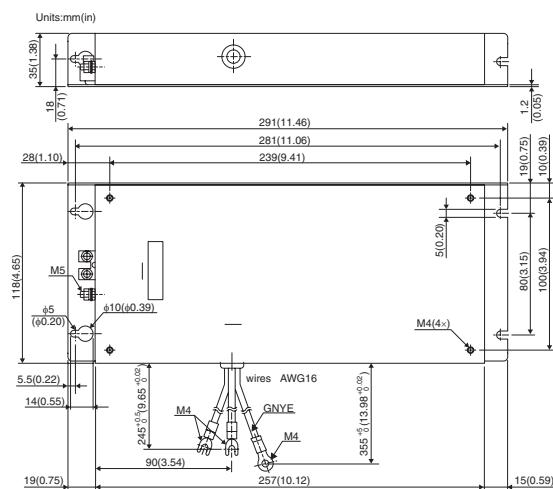
XD-50-T□ (400V, 5kW)



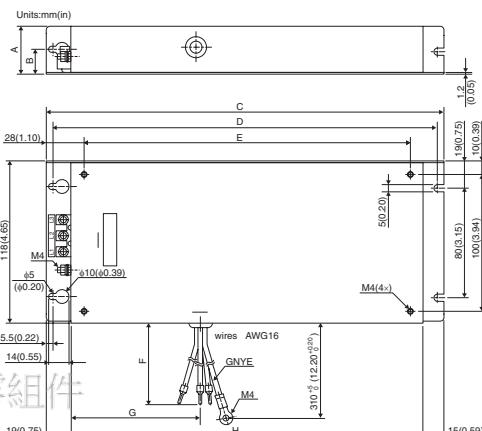
Noise Filters

RS 1004-SG**RS 1007-SG, RS-1015-SG**

Model	RS 1007-SG	RS 1015-SG
Dimensions in mm	A 75	90
	B 240 ⁺⁵	300 ⁺⁵
	C 50	60
	D 12	15
	E 1	1.2

**RS 1025-SG****RS 3006-SG, RS 3010-SG**

Model	RS 3006-SG	RS 3010-SG
Dimensions in mm (in)	A 32 (1.26)	35 (1.38)
	B 16 (0.63)	18 (0.71)
	C 202 (7.95)	291 (11.46)
	D 192 (7.56)	281 (11.06)
	E 150 (5.91)	239 (9.41)
	F 300 (11.81)	270 (10.63)
	G 70 (2.76)	90 (3.54)
	H 168 (6.61)	257 (10.12)



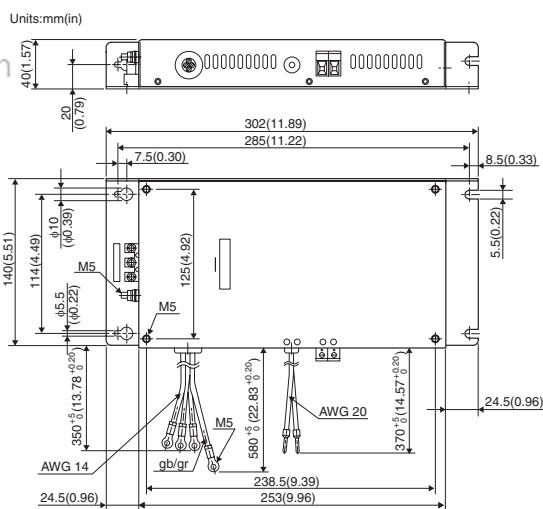
購買、維修 此手冊零組件

電話 : 037-466333

Email: service@repairtw.com

Line id: @zzzz

www.repairtw.com

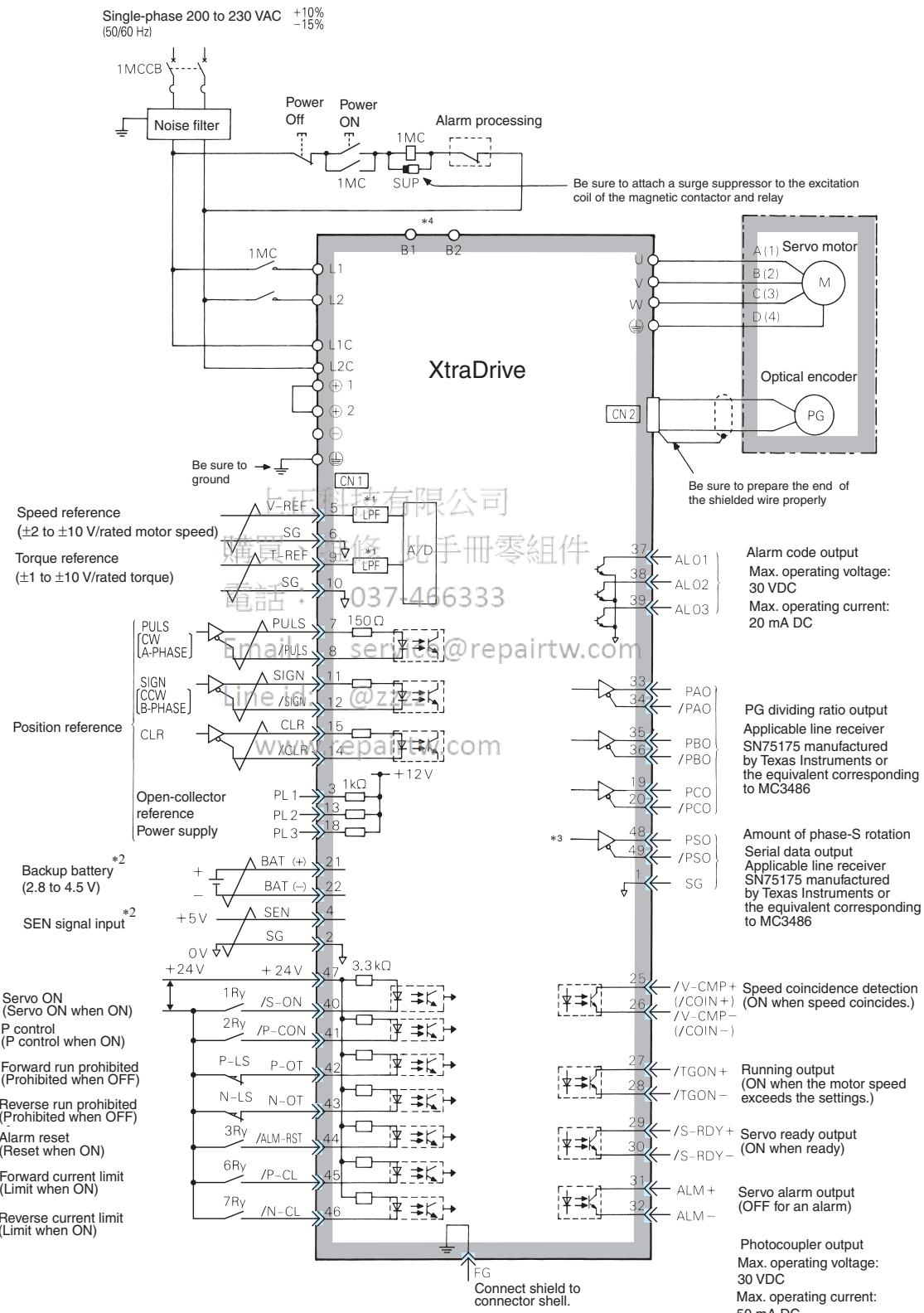
RS 3018-SG

Filters

Applicable servo drive	Filter model	Rated current	Leakage current Nom / Max.	Max. Rated voltage
XD-P3-M□, XD-P5-M□, XD-01-M□, XD-02-M□	RS 1004-SG	4 A	3.5 mA	250 VAC single-phase
XD-04-M□	RS 1007-SG	7 A	3.5 mA	
XD-08-M□	RS 1015-SG	15 A	3.5 mA	
XD-15-M□	RS 1025-SG	25 A	3.5 mA	
XD-05-T□, XD-10-T□, XD-15-T□	RS 3006-SG	6 A	0.3 mA / 33 mA	480 VAC three-phase
XD-20-T□, XD-30-T□	RS 3010-SG	10 A	0.3 mA / 33 mA	
XD-50-T□	RS 3018-SG	18 A	0.3 mA / 40 mA	

Installation

Single-phase, 230 VAC



*1 The time constant for the primary filter is 47 μs .

*2 Connect when using an absolute encoder.

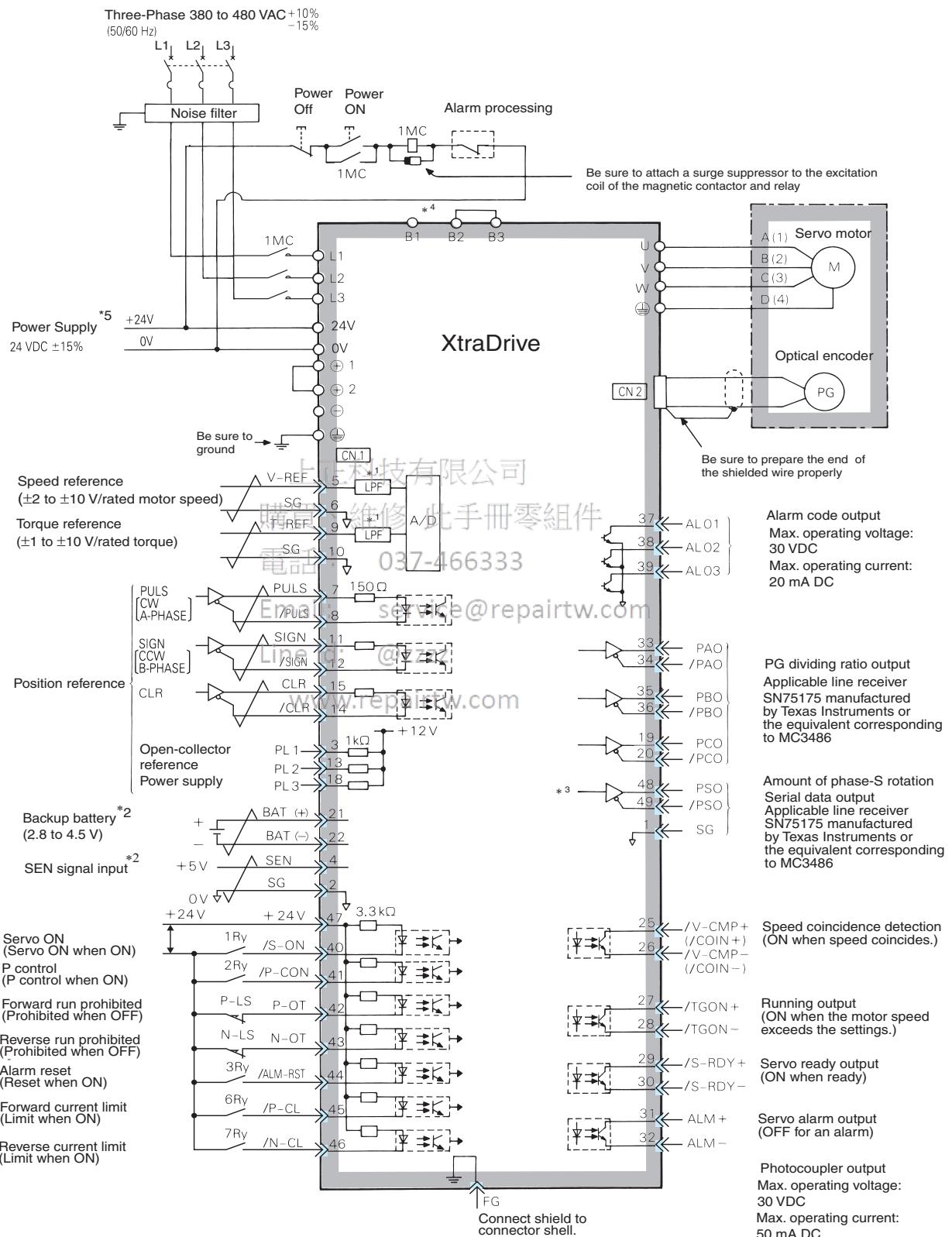
*3 Used only with an absolute encoder.

*4 Regenerative resistor can be connected between B1 and B2.

*6 TI stands for Texas Instruments Inc.

Installation

Three-phase, 400 VAC



*¹ The time constant for the primary filter is 47 μ s.

*² Connect when using an absolute encoder.

*³ Used only with an absolute encoder.

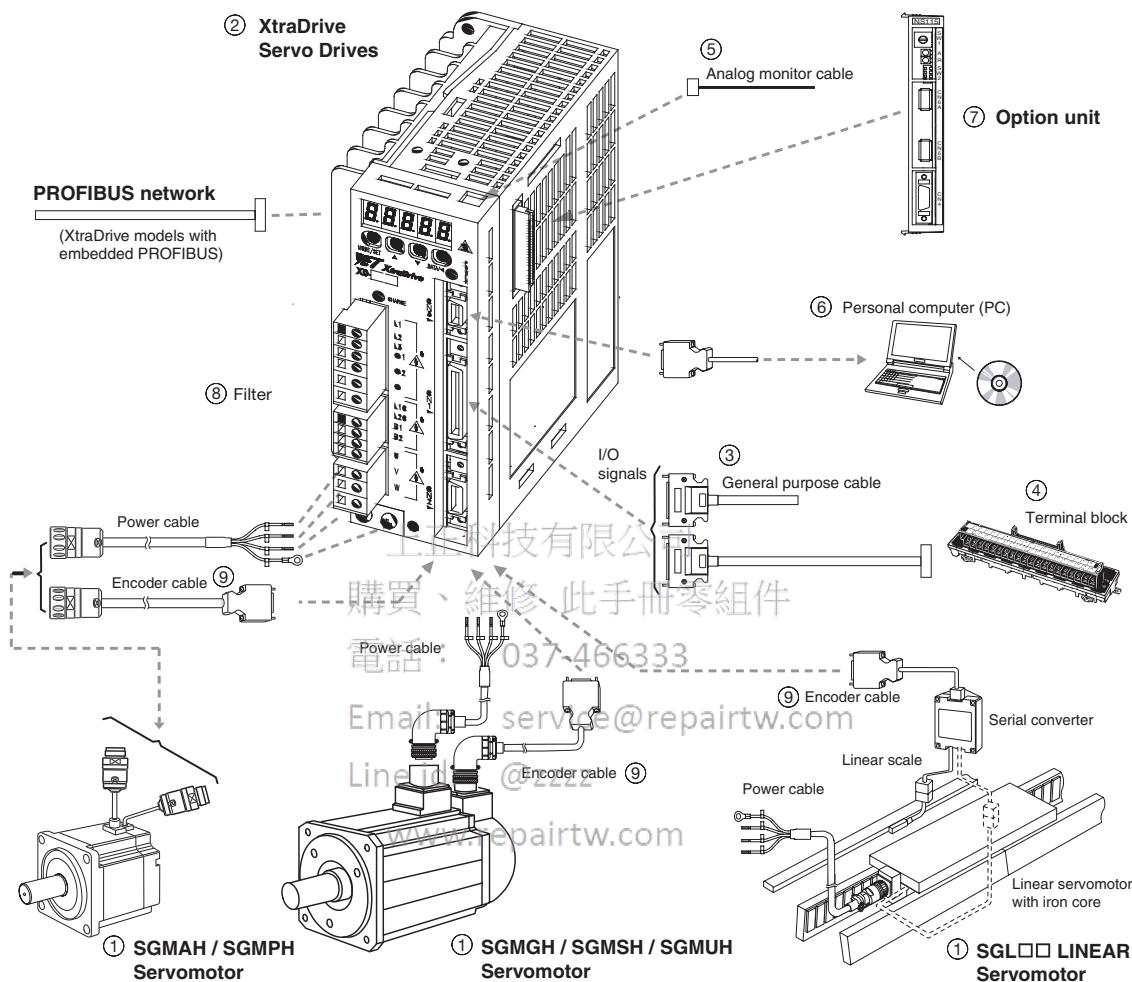
*⁴ For using an external regenerative resistor, connect it between B1 and B2.

*⁵ The 24VDC power is supplied by the user.

*⁶ TI stands for Texas Instruments Inc.

Installation

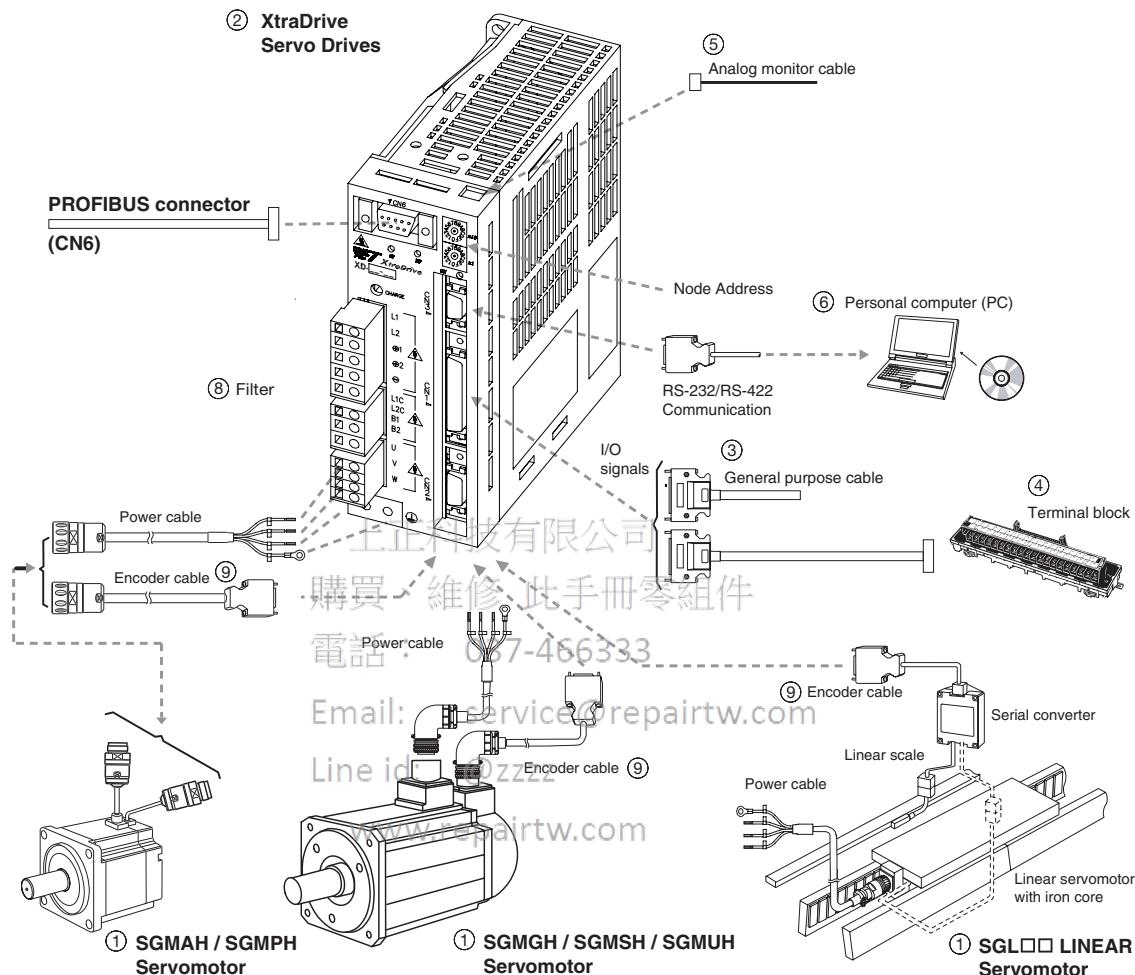
XtraDrive (Analog/Pulse reference)



Note: The symbols ①②③④⑤ ... show the recommended sequence to select the components for a servo system.

Installation

XtraDrive-DP (PROFIBUS embedded)



Servo motors, power & encoder cables

Note: ① Refer to the Sigma-II-catalog KAE S800-32D.

Servo drives

Symbol	Specifications	XtraDrive	XtraDrive-E with electronic CAM	XtraDrive-DP with PROFIBUS	XtraDrive-DP-E with PROFIBUS and electronic CAM	Compatible servo motors ①		
						Sigma-II rotary	Sigma linear motors	
②	1 phase 200 VAC	30 W	XD-P3-MN01	XD-P3-MN01-E	XD-P3-MSD0	XD-P3-MSD0-E	SGMAH-A3A□	-
		50 W	XD-P5-MN01	XD-P5-MN01-E	XD-P5-MSD0	XD-P5-MSD0-E	SGMAH-A5D□	SGLGW-30A050□
		100 W	XD-01-MN01	XD-01-MN01-E	XD-01-MSD0	XD-01-MSD0-E	SGMAH-01A□, SGMPH-01A□	SGLGW-30A080□, SGLGW-40A140□
		200 W	XD-02-MN01	XD-02-MN01-E	XD-02-MSD0	XD-02-MSD0-E	SGMAH-02A□, SGMPH-02A□	SGLFW-20A□, SGLFW-35A120□, SGLGW-40A253A□, SGLGW-60A140□
		400 W	XD-04-MN01	XD-04-MN01-E	XD-04-MSD0	XD-04-MSD0-E	SGMAH-04A□, SGMPH-04A□	SGLGW-40A365A□, SGLGW-60A253A□
		750 W	XD-08-MN	XD-08-MN00-E	XD-08-MSD0	XD-08-MSD0-E	SGMAH-08A□, SGMPH-08A□	SGLFW-35A230□, SGLFW-50A200□, SGLGW-60A365A□
		1.5 kW	XD-15-MN	XD-15-MN00-E	-	-	SGMPH-15A□	SGLFW-50A380□, SGLFW-1ZA200□, SGLGW-90A200A□

XtraDrive

Ordering information

Servo drives

Symbol	Specifications		XtraDrive	XtraDrive-E with electronic CAM	XtraDrive-DP with PROFIBUS	XtraDrive-DP-E with PROFIBUS and electronic CAM	Compatible servo motors ①	
							Sigma-II rotary	Sigma linear motors
②	3 phase 400 VAC	0.5 kW	XD-05-TN	XD-05-TN00-E	XD-05-TSD0	XD-05-TSD0-E	SGMGH-05D□, SGMAH-03D□, SGMPH-02D□/04D□	SGLFW-35D□
		1.0 kW	XD-10-TN	XD-10-TN00-E	XD-10-TSD0	XD-10-TSD0-E	SGMGH-09D□, SGMSH/UH-10D□, SGMAH-07D□, SGMPH-08D□	SGLFW-50D200□, SGLTW-35D170□, SGLTW-50D170□
		1.5 kW	XD-15-TN	XD-15-TN00-E	XD-15-TSD0	XD-15-TSD0-E	SGMGH-13D□, SGMSH/UH-15D□, SGMPH-15D□	SGLFW-50D380□, SGLFW-1ZD200□
		2.0 kW	XD-20-TN	XD-20-TN00-E	XD-20-TSD0	XD-20-TSD0-E	SGMGH-20D□, SGMSH-20D□	SGLFW-1ED380□, SGLTW-35D320□, SGLTW-50D320□
		3.0 kW	XD-30-TN	XD-30-TN00-E	XD-30-TSD0	XD-30-TSD0-E	SGMGH-30D□, SGMSH/UH-30D□	SGLFW-1ZD380□, SGLFW-1ED560□, SGLTW-40D400□
		5.0 kW	XD-50-TN	XD-50-TN00-E	-	-	SGMGH-44D□, SGMSH/UH-40D□, SGMSH-50D□	SGLTW-40D600□, SGLFW-80D400□

Note: SGLGW-□ linear motor combination is made considering the use of standard magnets. Refer to the linear motor catalog for details.

Control cables (for CN1)

購買、維修此手冊零組件

Filters

Symbol	Description	Connect to	Length	Model
③	Control cable	General purpose controller	1 m	JZSP-CKI01-1
			2 m	JZSP-CKI01-2
④	Relay terminal block cable		1 m	JUSP-TA50PG-1-E
			2 m	JUSP-TA50PG-2-E
Control I/O connector (for CN1)			-	JZSP-CKI9

Cable (for CN5)

www.repairtw.com

Symbol	Name	Model
⑤	Analog monitor cable	DE9404559

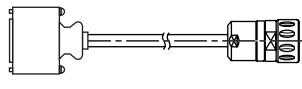
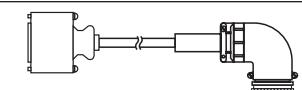
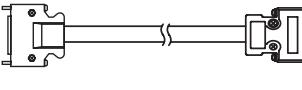
Option (for CN3)

Symbol	Name	Model
⑥	Computer connecting cable	JZSP-CMS02

Option units (for CN10)

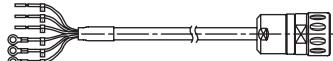
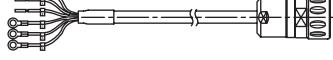
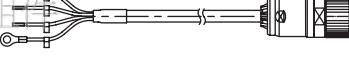
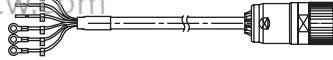
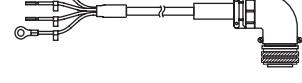
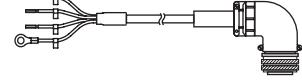
Symbol	Name	Model
⑦	I/O card, 8 inputs / 8 outputs	XDIO-08
	CANopen card	XDA-CAN

Encoder cables (for CN2)

Symbol	Specifications	Model	Appearance
⑨	Encoder cable for SGMAH/PH servo motors SGMAH-□□□□□□D SGMPH-□□□□□□D	3 m DP93252XD-03-E-G2	
		5 m DP93252XD-05-E-G2	
		10 m DP93252XD-10-E-G2	
		15 m DP93252XD-15-E-G2	
		20 m DP93252XD-20-E-G2	
	Encoder cable for SGMGH/SH/UH servo motors SGMGH-□ SGMSH-□ SGMUH-□	3 m JZSP-CMPXD-03-E-G2	
		5 m JZSP-CMPXD-05-E-G2	
		10 m JZSP-CMPXD-10-E-G2	
		15 m JZSP-CMPXD-15-E-G2	
		20 m JZSP-CMPXD-20-E-G2	
	Cable for connecting serial converter units (required for linear servo motors)	3 m JZSP-CLPXD-03-E-G2	
		5 m JZSP-CLPXD-05-E-G2	
		10 m JZSP-CLPXD-10-E-G2	
		15 m JZSP-CLPXD-15-E-G2	
		20 m JZSP-CLPXD-20-E-G2	

Ordering information

Power cables

Symbol	Specifications	Model	Appearance
①	For 230 V servo motors without brake SGMAH-□□A□□□1D SGMPH-(01/02/04/08)A□□41D	3 m DP9325252-03G 5 m DP9325252-05G 10 m DP9325252-10G 15 m DP9325252-15G 20 m DP9325252-20G	
	For 230 V servo motors with brake SGMAH-□□A□□□CD SGMPH-(01/02/04/08)A□□4CD	3 m DP9325253-03G 5 m DP9325253-05G 10 m DP9325253-10G 15 m DP9325253-15G 20 m DP9325253-20G	
	For 230 V servo motors without brake SGMPH-15A□□□1D	3 m DP9325254-03G 5 m DP9325254-05G 10 m DP9325254-10G 15 m DP9325254-15G 20 m DP9325254-20G	
	For 230 V servo motors with brake SGMPH-15A□□□CD	3 m DP9325255-03G 5 m DP9325255-05G 10 m DP9325255-10G 15 m DP9325255-15G 20 m DP9325255-20G	
	For 400 V servo motors without brake SGMAH-□□D□□□1D SGMPH-□□D□□□1D	3 m JZSP-CMM20D15-03G 5 m JZSP-CMM20D15-05G 10 m JZSP-CMM20D15-10G 15 m JZSP-CMM20D15-15G 20 m JZSP-CMM20D15-20G	
	For 400 V servo motors with brake SGMAH-□□D□□□CD SGMPH-□□D□□□CD	3 m JZSP-CMM30D15-03G 5 m JZSP-CMM30D15-05G 10 m JZSP-CMM30D15-10G 15 m JZSP-CMM30D15-15G 20 m JZSP-CMM30D15-20G	
	For 400 V servo motors SGMGH-(05/09/13)D□ SGMSH-(10/15/20)D□ SGMUH-(10/15)D□ for servo motors with brake a separate cable (JZSP-CMM02BR □□G) is needed	3 m JZSP-CMM02D15-03G 5 m JZSP-CMM02D15-05G 10 m JZSP-CMM02D15-10G 15 m JZSP-CMM02D15-15G 20 m JZSP-CMM02D15-20G	
	For 400 V servo motors SGMGH-(20/30)D□ SGMSH-(30/40/50)D□ SGMUH-(30/40)D□ for servo motors with brake a separate cable (JZSP-CMM02BR □□G) is needed	3 m JZSP-CMM02D30-03G 5 m JZSP-CMM02D30-05G 10 m JZSP-CMM02D30-10G 15 m JZSP-CMM02D30-15G 20 m JZSP-CMM02D30-20G	
	For 400 V servo motors SGMGH-44D□ for servo motors with brake a separate cable (JZSP-CMM02BR □□G) is needed	3 m JZSP-CMM02D44-03G 5 m JZSP-CMM02D44-05G 10 m JZSP-CMM02D44-10G 15 m JZSP-CMM02D44-15G 20 m JZSP-CMM02D44-20G	
	For 400 V servo motors SGMGH-55D□ for servo motors with brake a separate cable (JZSP-CMM02BR □□G) is needed	3 m JZSP-CMM02D55-03G 5 m JZSP-CMM02D55-05G 10 m JZSP-CMM02D55-10G 15 m JZSP-CMM02D55-15G 20 m JZSP-CMM02D55-20G	
	Brake cable only. For 400 V servo motors with brake SGMGH-□□D□ SGMSH-□□D□ SGMUH-□□D□	3 m JZSP-CMM02BR-□03G 5 m JZSP-CMM02BR-□05G 10 m JZSP-CMM02BR-□10G 15 m JZSP-CMM02BR-□15G 20 m JZSP-CMM02BR-□20G	



YASKAWA Europe GmbH

Hauptstraße 185
65760 Eschborn
Deutschland / Germany

+49 6196 569-300
info@yaskawa.eu.com
www.yaskawa.eu.com

上正科技有限公司
購買、維修 此手冊零組件
電話： 037-466333
Email: service@repairtw.com
Line id: @zzzz
www.repairtw.com