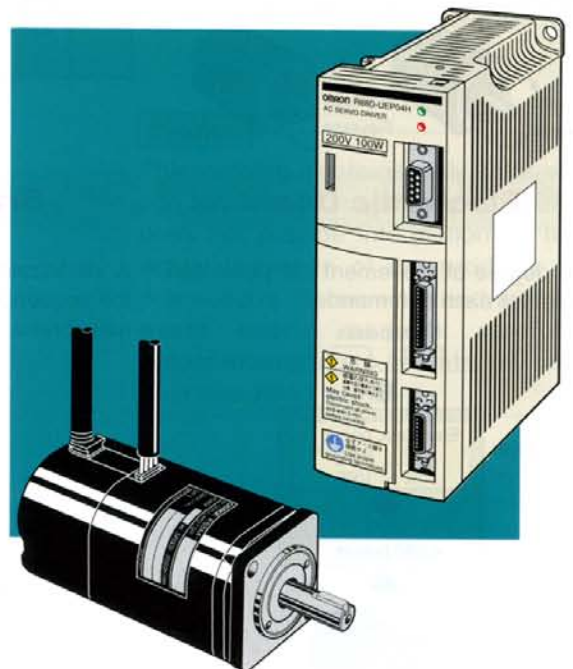
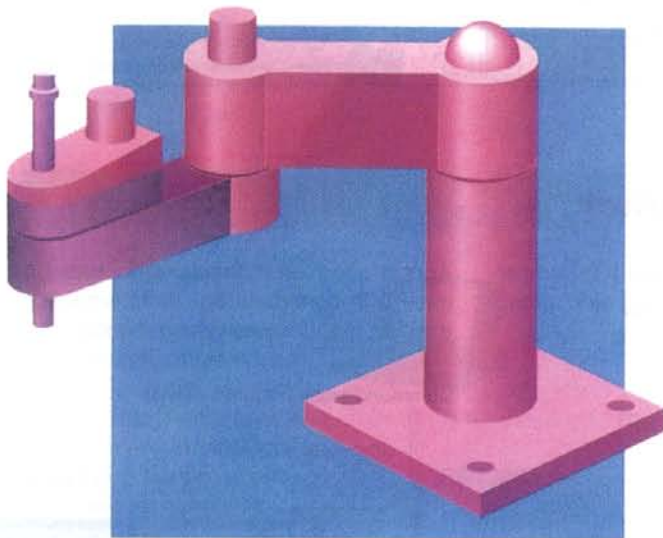
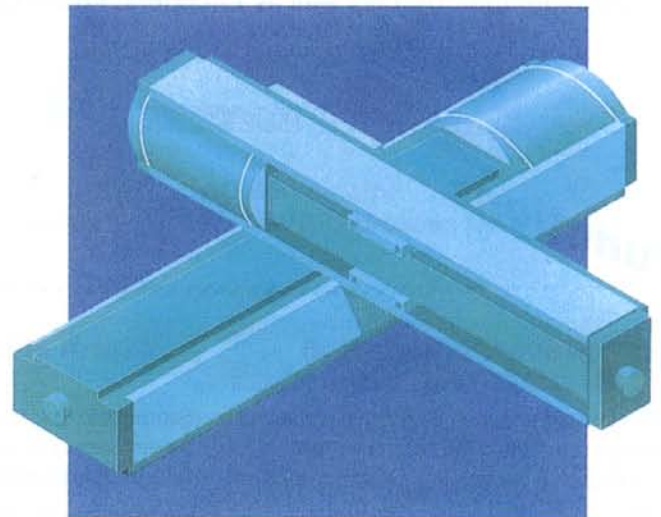


## AC Servomotor and AC Servodriver

OMRON Mechatronic System Components

# OMNUC U-Series UE Models

Easy-to-use UE Models Join the OMNUC U Series for an Even Wider Selection



# UE Models Join the OMNUC U Series

## Simplified Functions Offer Ease of Use

UE Models provide easy-to-use servodriver functions with approximately one-third the number of parameters and two-thirds the number of control I/O signals as other OMNUC U-series Models.

- User parameters: 9
- Setup parameters: 10
- Control input signals: 8
- Control output signals: 4

## Fast Response

The power rate and maximum response frequency of a UE Model are as high as those of the other OMNUC U-series Models. Therefore, improved productivity will result from the reduced positioning time.

## Use OMNUC U-series Peripheral Devices

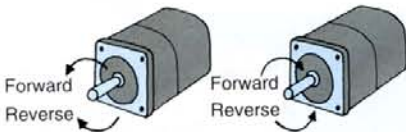
UE Models can use the peripheral devices for the OMNUC U Series, such as the Parameter Unit and Regeneration Unit, as well as Encoders, Power Cables, and Control Cables.

## Functions

### Reverse Rotation

The forward and reverse rotation commands can be reversed at the parameter level, without changing the Servomotor or encoder wiring.

	Default setting	Reverse rotation
Forward rotation command	CCW	CW
Reverse rotation command	CW	CCW



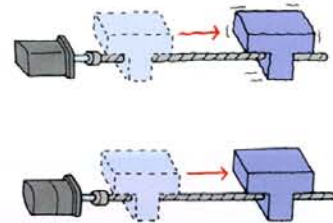
### Alarm History Display

Stores the past ten errors, even if the power supply is turned off, making accurate troubleshooting possible.

Display (alarm history)	Description
⋮	—
A40	Overvoltage detected
A51	Overspeed detected
A70	Overload detected
⋮	—

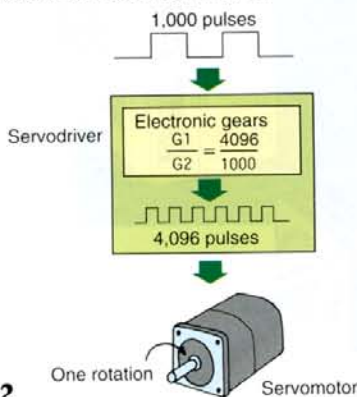
### Torque Command Filter

If the appropriate time constant is set, resonance with the load can be prevented.



### Electronic Gears

The degree of movement per pulse can be set for each command.



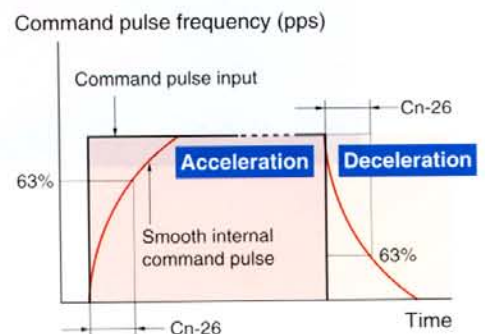
### Brake Interlock

A dedicated signal is used to simplify the sequence for the holding electromagnetic brake.



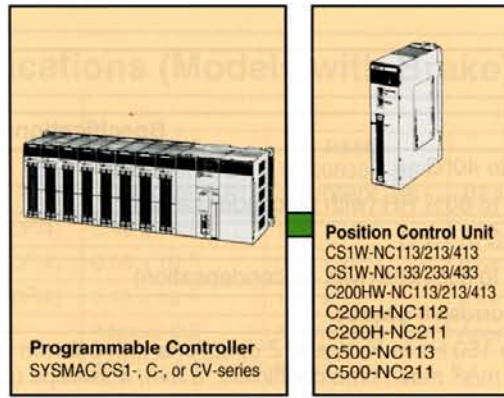
### Pulse Smoothing Function

Acceleration and deceleration can be used with command pulses to smoothly execute high-frequency commands.



# System Configuration

## Parameter Unit



Pulse train input

AC Servodriver  
for OMNUC U-series UE Models



AC Servomotor  
for OMNUC U-series UE Models



## Rich Command Pulse Mode

Available for all types of command pulse.

	Command pulse mode	Motor forward command	Motor reverse command
Positive logic setting	Feed pulse and direction signal		
	90° phase difference signals A-, B-phase feed pulse (Multiplication by 1, 2, or 4)		
	Reverse pulse and forward pulse		

## Table of Contents

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External Dimensions	9
Model Number Legends	13
Standard Models	14

## Communications with Personal Computer

A personal computer running special software makes it possible to write and read parameters and display current, speed, and I/O signal information graphically on-screen, simplifying system adjustment and monitoring.



### Caution

This catalog contains only information required for model selection, and does not provide information on the actual operation of the products or precautions. Be sure to read the relevant user's manuals carefully before attempting to operate any product described here.

# AC Servomotor Specifications

## ■ General Specifications

Item	Specifications
Operating ambient temperature	0°C to 40°C
Operating ambient humidity	20% to 80% RH (with no condensation)
Storage ambient temperature	-10°C to 75°C
Storage ambient humidity	20% to 85% RH (with no condensation)
Storage and operating atmosphere	No corrosive gasses.
Vibration resistance	10 to 150 Hz in X, Y, and Z directions with 0.2-mm double amplitude; acceleration: 24.5 m/s <sup>2</sup> max.; time coefficient: 8 min; 4 sweeps (see note 1)
Impact resistance	Acceleration 98 m/s <sup>2</sup> max., in X, Y, and Z directions, three times
Insulation resistance	Between power line terminals and case: 10 MΩ min. (500 VDC megger)
Dielectric strength	Between power line terminals and case: 1,500 VAC for 1 min (10 mA max.) at 50/60 Hz (JEC2121)
Run position	All directions
Insulation grade	Type B (JIS C4004)
Structure	Totally-enclosed self-cooling
Protective structure	IP-42 (JEM1030) (Cannot be used in environment with water-soluble cutting fluids.)
Vibration grade	V-15 (JEC2121)
Mounting method	Flange-mounting

- Note:**
1. Vibration may be amplified due to sympathetic resonance of machinery, so use the Servomotor Driver under conditions which will not exceed 19.6 m/s<sup>2</sup> over a long period of time.
  2. The above items reflect individual evaluation testing. The results may differ under compounded conditions.
  3. The Servomotor cannot be used in a misty atmosphere.

## ■ Performance Specifications

Item	Symbol IEC	Unit	Model						
			R88-UE10030H-S1	R88-UE20030H-S1	R88-UE40030H-S1	R88-UE75030H-S1	R88-UE10030L-S1	R88-UE20030L-S1	R88-UE30030L-S1
Rated output (see note 1)	<i>P<sub>r</sub></i>	W	100	200	400	750	100	200	300
Rated torque (see note 1)	<i>T<sub>r</sub></i>	N • m	0.318	0.637	1.27	2.39	0.318	0.637	0.954
Rated rotational speed	<i>ω<sub>r</sub></i>	r/min	3,000	3,000	3,000	3,000	3,000	3,000	3,000
Momentary maximum rotational speed	<i>ω<sub>m</sub></i>	r/min	4,500	4,500	4,500	4,500	4,500	4,500	4,500
Momentary maximum torque (see note 1)	<i>T<sub>m</sub></i>	N • m	0.96	1.91	3.82	7.10	0.96	1.91	3.72
Momentary maximum/rated current ratio	<i>I<sub>m</sub>/I<sub>r</sub></i>	%	322	300	308	316	323	311	400
Rated current (see note 1)	<i>I<sub>r</sub></i>	A (rms)	0.87	2.0	2.6	4.4	2.2	2.7	3.7
Momentary maximum current (see note 1)	<i>I<sub>m</sub></i>	A (rms)	2.8	6.0	8.0	13.9	7.1	8.4	14.8
Rotor inertia	<i>J<sub>r</sub></i>	kg • m <sup>2</sup> (GD <sup>2</sup> /4)	0.40 x 10 <sup>-5</sup>	1.23 x 10 <sup>-5</sup>	1.91 x 10 <sup>-5</sup>	6.71 x 10 <sup>-5</sup>	0.40 x 10 <sup>-5</sup>	1.23 x 10 <sup>-5</sup>	1.91 x 10 <sup>-5</sup>
Torque constant (see note 1)	<i>K<sub>t</sub></i>	N • m/A	0.408	0.355	0.533	0.590	0.156	0.255	0.279
Induced voltage constant (see note 1)	<i>K<sub>i</sub></i>	mV/ (r/min)	14.0	12.4	18.6	20.6	5.43	8.9	9.74
Power rate (see note 1)	<i>Q<sub>p</sub></i>	kW/s	25.4	32.8	84.6	85.1	25.4	32.8	47.3
Mechanical time constant	<i>τ<sub>m</sub></i>	ms	0.5	0.4	0.3	0.3	0.6	0.4	0.3
Winding resistance	<i>R<sub>w</sub></i>	Ω	6.99	1.34	1.23	0.45	1.22	0.706	0.435
Winding inductance	<i>L<sub>w</sub></i>	mH	13.2	7.2	7.9	5.7	2.0	4.0	2.3
Electrical time constant	<i>τ<sub>e</sub></i>	ms	1.9	5.4	6.4	13	1.6	5.7	5.3
Weight	<i>m</i>	kg	Approx. 0.5	Approx. 1.1	Approx. 1.7	Approx. 3.4	Approx. 0.5	Approx. 1.1	Approx. 1.7
Corresponding Servo Driver	R88D-		UEP04H	UEP08H	UEP12H	UEP20H	UEP10L	UEP12L	UEP15L

- Note:**
1. Values for these items, as well as those for torque, the rotational speed characteristics, are the values at an armature winding temperature of 100°C, combined with the Servo Driver. Other values are at normal conditions (20°C, 65%). The momentary maximum torque value is the reference value.
  2. An aluminum heat sink of at least t6 x 250 mm must be attached to the flange of any AC Servomotor that is in continuous operation under the above rating. Here, it is assumed that the AC Servomotor is mounted horizontally where there are no nearby objects obstructing thermal convection.

# AC Servomotor Specifications

## ■ Performance Specifications (Models with Brake)

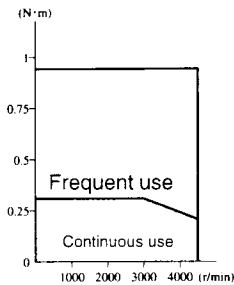
Item	Unit	Model				
		R88M-UE10030H-BS1 UE10030L-BS1	R88M-UE20030H-BS1 UE20030L-BS1	R88M-UE30030L-BS1	R88M-UE40030H-BS1	R88M-UE75030H-BS1
Rotor inertia	kg • m <sup>2</sup> (GD <sup>2</sup> /4)	0.40 × 10 <sup>-5</sup>	1.23 × 10 <sup>-5</sup>	1.91 × 10 <sup>-5</sup>	1.91 × 10 <sup>-5</sup>	6.71 × 10 <sup>-5</sup>
Brake inertia	kg • m <sup>2</sup> (GD <sup>2</sup> /4)	0.09 × 10 <sup>-5</sup>	0.58 × 10 <sup>-5</sup>	0.58 × 10 <sup>-5</sup>	0.58 × 10 <sup>-5</sup>	1.40 × 10 <sup>-5</sup>
Total inertia	kg • m <sup>2</sup> (GD <sup>2</sup> /4)	0.49 × 10 <sup>-5</sup>	1.81 × 10 <sup>-5</sup>	2.49 × 10 <sup>-5</sup>	2.49 × 10 <sup>-5</sup>	8.11 × 10 <sup>-5</sup>
Weight	kg	Approx. 0.8	Approx. 1.6	Approx. 2.2	Approx. 2.2	Approx. 4.3
Magnetized voltage	V	24 VDC ± 10% (no polarity)				
Power consumption	W (at 20°C)	6	6.5			6
Current consumption	A (at 20°C)	0.25	0.27			0.25
Static friction torque	N • m	0.34 min.	1.5 min.			2.5 min.
Absorption time (see note)	ms	60 max.	100 max.			200 max.
Release time (see note)	ms	30 max.	40 max.			50 max.
Backlash	---	± 1° (reference value)				
Rating	---	Continuous				
Insulation grade	---	Type F				

**Note:** The operation time measurement is the measured value with a surge killer (CR50500, by Okaya Electric Industrial Co.) installed.

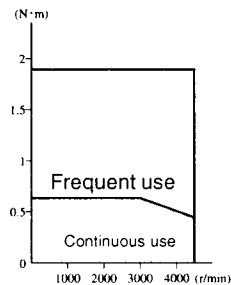
## ■ Torque and Rotation Speed Characteristics

### 200 VAC Specifications (With 3-m Standard Cable and 200-VAC Input)

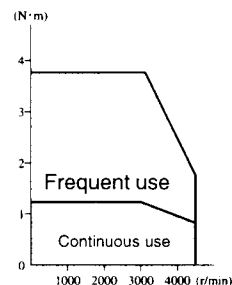
R88M-UE10030H-S1



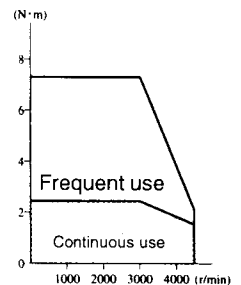
R88M-UE20030H-S1



R88M-UE40030H-S1

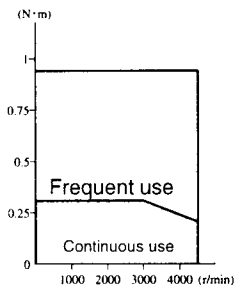


R88M-UE75030H-S1

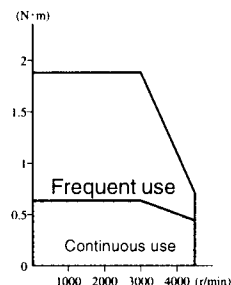


### 100 VAC Specifications (With 3-m Standard Cable and 100-VAC Input)

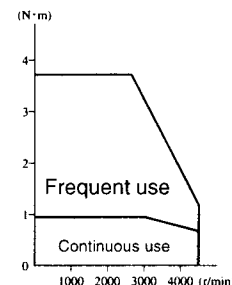
R88M-UE10030L-S1



R88M-UE20030L-S1



R88M-UE30030L-S1



# AC Servodriver Specifications

## ■ General Specifications

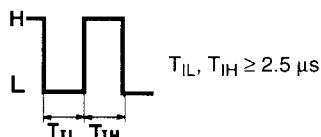
Item	Specifications
Operating ambient temperature	0°C to 50°C
Operating ambient humidity	35% to 85% RH (with no condensation)
Storage ambient temperature	-10°C to 75°C
Storage ambient humidity	35% to 85% RH (with no condensation)
Storage and operating atmosphere	No corrosive gasses.
Vibration resistance	10 to 55 Hz in X, Y, and Z directions with 0.10-mm double amplitude; acceleration: 4.9 m/s <sup>2</sup> max.; time coefficient: 8 min; 4 sweeps (see note 1)
Impact resistance	Acceleration 19.6 m/s <sup>2</sup> max., in X, Y, and Z directions, three times
Insulation resistance	Between power line terminals and case: 5 MΩ min. (at 1,000 VDC)
Dielectric strength	Between power line terminals and case: 1,000 VAC for 1 min (20 mA max.) at 50/60 Hz
Protective structure	Built into panel.

- Note:**
1. Vibration may be amplified due to sympathetic resonance of machinery, so use the Servomotor under conditions which will not exceed 4.9 m/s<sup>2</sup> over a long period of time.
  2. The above items reflect individual evaluation testing. The results may differ under compounded conditions.
  3. Absolutely do not conduct a withstand voltage test or other Megger tester tests on the Servo driver. If such tests are conducted, internal elements may be damaged.
  4. Depending on the operating conditions, some Servodriver parts will require maintenance. Refer to the relevant operation manual for details.

## ■ Performance Specifications

	Model						
	R88D -UEP04H	R88D -UEP08H	R88D -UEP12H	R88D -UEP20H	R88D -UEP10L	R88D -UEP12L	R88D -UEP15L
Continuous output current (0-P)	1.2 A	2.8 A	3.7 A	6.2 A	3.1 A	3.8 A	4.8 A
Momentary maximum output current (0-P)	4.0 A	8.5 A	11.3 A	19.7 A	10 A	12 A	15 A
Input power supply	Single-phase 200/230 VAC (170 to 253 V) 50/60 Hz				Single-phase 100/115 VAC (85 to 127 V) 50/60 Hz		
Control method	All-digital servo						
Speed feedback	Optical encoder with 1,024 pulses/revolution						
Applicable load inertia	Maximum of 30 times motor's rotor inertia		Maximum of 20 times motor's rotor inertia		Maximum of 30 times motor's rotor inertia		Maximum of 20 times motor's rotor inertia
Inverter method	PWM method based on IGBT						
PWM frequency	11 kHz			7.8 kHz	11 kHz		7.8 kHz
Weight	Approx. 0.9 kg		Approx. 1.2 kg	Approx. 1.5 kg	Approx. 0.9 kg	Approx. 1.2 kg	Approx. 1.5 kg
Applicable Servomotor	R88M- UE10030H-S1	R88M- UE20030H-S1	R88M- UE40030H-S1	R88M- UE75030H-S1	R88M- UE10030L-S1	R88M- UE20030L-S1	R88M- UE30030L-S1
Applicable Servomotor wattage	100 W	200 W	400 W	750 W	100 W	200 W	300 W
Capacity	Maximum response pulse frequency	200 kpps					
	Position loop gain	1 to 500 (1/s)					
	Electrical gear function	Setting range: $0.01 \leq (G1/G2) \leq 100$ (G1, G2 = 1 to 65, 535)					
	Positioning completed width	0 to 250 (command units)					
	Position accel/decel time constant setting	0 to 64 ms (acceleration and deceleration are set the same)					
Input	Position command pulse input (see note)	TTL line driver input photo isolation input power supply 6 mA to 3 V. Feed pulse/forward, reverse signal, forward pulse/reverse pulse, 90° disparity (A-, B-phase) signal.					
	Deviation counter reset input	TTL line driver input photo isolation input power supply 6 mA to 3 V.					
	Sequence input	24-VDC, 5-mA photocoupler input, external power supply: 12 to 24 VDC, 30 mA min.					
Output	Position feedback output	Z-phase open-collector output: 20 mA at 30 VDC, 1 pulse/revolution					
	Sequence output	Open-collector output: 50 mA at 30 VDC, alarm, brake interlock, positioning complete					
External regeneration	Regeneration equivalent to minimum of 30 times motor's rotor inertia required.		Regeneration equivalent to minimum of 20 times motor's rotor inertia required.		Regeneration equivalent to minimum of 30 times motor's rotor inertia required.		Regeneration equivalent to minimum of 20 times motor's rotor inertia required.
Protective functions	Overcurrent, grounding, overload, overvoltage, overspeeding, overrun prevention, transmission errors, encoder errors, deviation counter overrun						

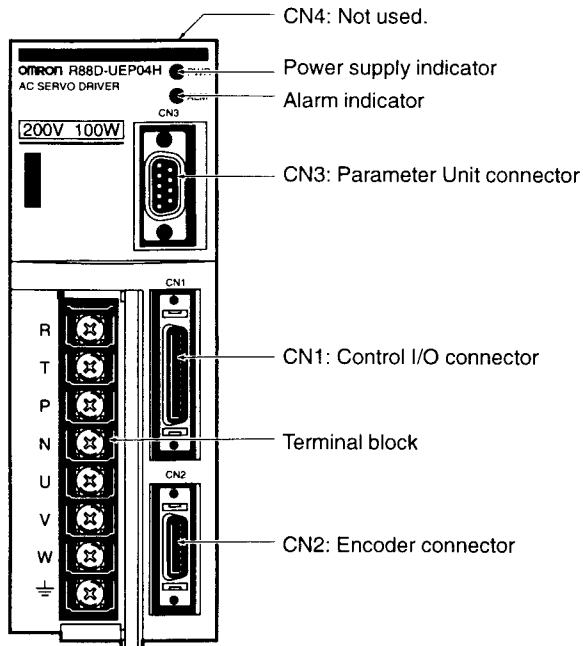
- Note:** Ensure that the input pulse width meets the following conditions.



# AC Servo Driver Specifications

## ■ Control I/O CN1

2	-PULS /-CW /-A	Feed pulse/ reverse pulse/ A-phase	1	+PULS /+CW /+A	Feed pulse/ reverse pulse/ A-phase	19	---	Not used
4	-SIGN /-CCW /-B	Forward/reverse signal/ forward rotation pulse/ B-phase	3	+SIGN/ +CCW /+B	Forward/reverse signal/ forward rotation pulse/ B-phase	20	---	Not used
6	-ECRST	Deviation counter reset	5	+ECRST	Deviation counter reset	21	---	Not used
8	INP	Positioning complete output	7	BKIR	Brake interlock output	22	---	Not used
10	OGND	Output ground common	9	---	Not used	23	---	Not used
12	---	Not used	11	---	Not used	24	---	Not used
14	RUN	Run command input	13	+24VIN	Control 12 to 24-VDC input	25	---	Not used
16	POT	Forward drive prohibit input	15	MING	Gain reduction	26	---	Not used
18	RESET	Alarm reset input	17	NOT	Reverse drive prohibit input	27	---	Not used
						28	---	Not used
						29	---	Not used
						30	---	Not used
						31	---	Not used
						32	Z	Encoder Z- phase output
						33	ZCOM	Encoder Z- phase output ground
						34	ALM	Alarm output
						35	ALMCOM	Alarm output ground
						36	FG	Frame ground



# AC Servo Driver Specifications

## ■ User Parameters

PRM No.	Parameter	Factory setting	Unit	Setting range	Description
Cn-00	System check mode	---	---	---	
Cn-01	Setup parameters 1	---	---	---	Refer to the details of setup parameters 1
Cn-02	Setup parameters 2	---	---	---	Refer to the details of setup parameters 2
Cn-04	Speed loop gain	80	Hz	1 to 2,000	Used to adjust speed loop response.
Cn-05	Speed loop integral time constant	20	ms	2 to 10,000	Used to set speed loop integral time constant.
Cn-12	Brake timing	0	10 ms	0 to 50	Used to set time lag between brake command and servo OFF.
Cn-17	Torque command filter time constant	4	100 $\mu$ s	0 to 250	Used to set filter time constant of torque command (equivalent to 398 to 6.4 Hz).
Cn-1A	Positioning loop gain	40	1/s	1 to 500	Used to adjust positioning loop response.
Cn-1b	Positioning complete width	3	Command unit	0 to 250	Used to set width of positioning complete signal output.
Cn-24	Electronic gear ratio G1 numerator	4	---	1 to 65,535	Setting range: $0.01 \leq G1/G2 \leq 100$
Cn-25	Electronic gear ratio G2 denominator	1	---	1 to 65,535	
Cn-26	Positioning command acceleration/deceleration time constant	0	0.1 ms	0 to 640	Used to set time pulse smoothing time constant.

## ■ Setup Parameters

Item		Bit number	Factory setting	Setting	Description
No. 1 (Cn-01)	Sequential input signal selection	0	0	0	Turns servo ON and OFF with RUN command (RUN: external input).
				1	Always keeps servo turned ON.
		2	1	0	Enables forward drive prohibit input (POT).
				1	Always enables forward drive.
	3	1	0	Enables reverse drive prohibit input (NOT).	
			1	Always enables reverse drive.	
	Error stop selection	8	0	0	Stops motor with dynamic brake in case of overtravel.
				1	Stops motor with maximum torque in case of overtravel.
Deviation counter with servo OFF	A	0	0	Clears deviation counter when servo is OFF or alarm results.	
			1	Does not clear deviation counter when servo is OFF or alarm results.	
No. 2 (Cn-02)	Reverse rotation	0	0	0	Forward rotation is CCW.
				1	Reverse rotation is CCW.
	Command pulse mode	5, 4, 3	0, 0, 1	0, 0, 0	Feed pulse, forward/reverse signal
				0, 0, 1	Forward pulse/reverse pulse
				0, 1, 0	90° phase difference (A/B-phase) signal multiplied by 1
				0, 1, 1	90° phase difference (A/B-phase) signal multiplied by 2
				1, 0, 0	90° phase difference (A/B-phase) signal multiplied by 4
	Deviation counter clear	A	1	0	Clears deviation counter high level.
				1	Clears deviation counter at ON-OFF differentiation (falling edge).
	Torque command filter order	C	0	0	First filter
				1	Second filter
Parameter Unit's monitor level selection	E	0	0	Deviation monitor at 1 command unit	
			1	Deviation monitor at 100 command units	



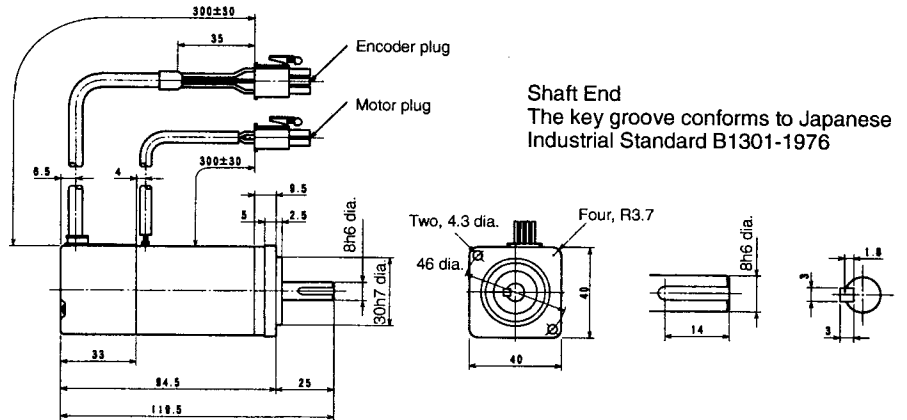
# External Dimensions

## ■ AC Servomotors

### • 100-W Output with No Brake

R88M-UE10030H-S1

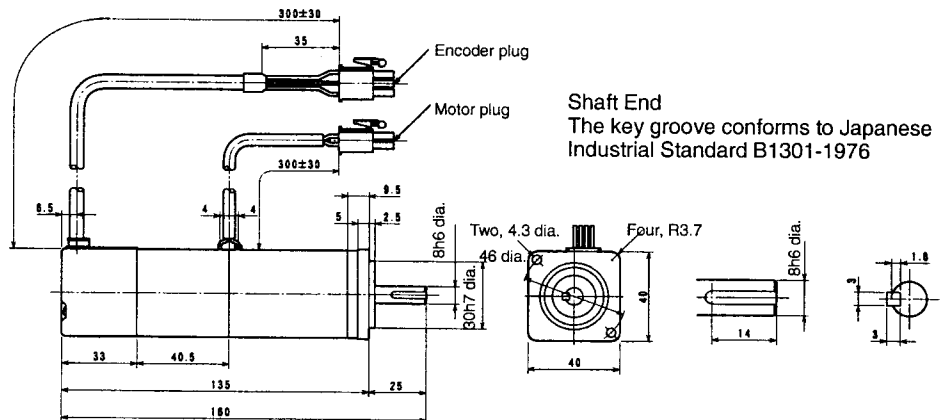
R88M-UE10030L-S1



### • 100-W Output with Brake

R88M-UE10030H-BS1

R88M-UE10030L-BS1

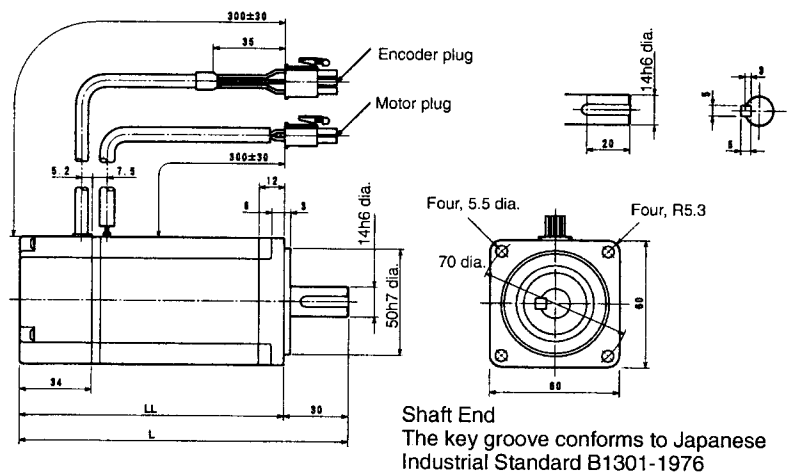


### • 200/300/400-W Output with No Brake

R88M-UE20030H-S1/-UE40030H-S1

R88M-UE20030L-S1/-UE30030L-S1

Model	L	LL
R88M-UE20030H-S1	126.5	96.5
R88M-UE20030L-S1		
R88M-UE40030H-S1	154.5	124.5
R88M-UE30030L-S1		



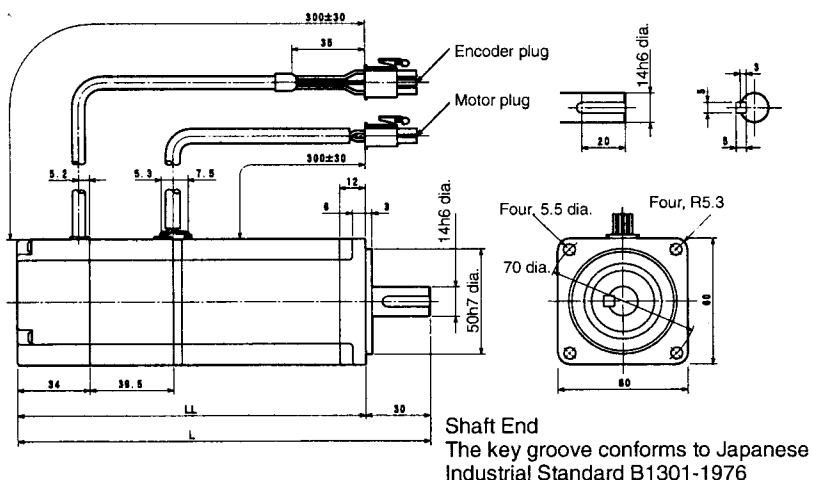
# External Dimensions

## • 200/300/400-W Output with Brake

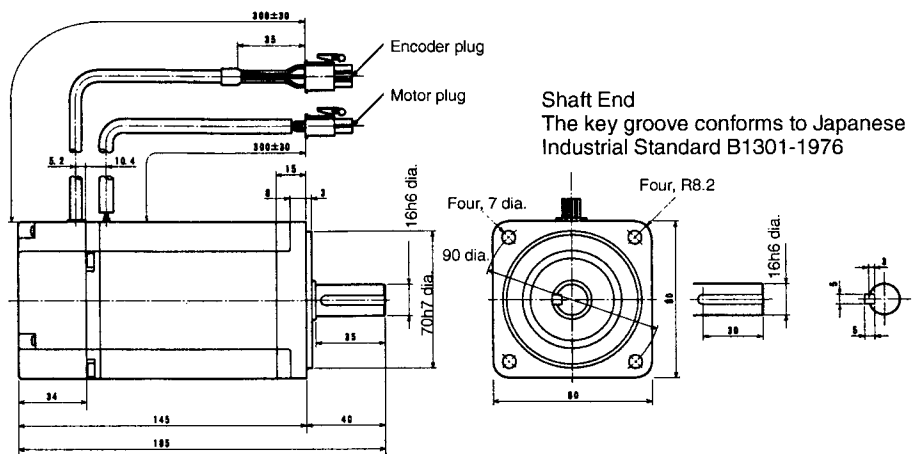
**R88M-UE20030H-BS1/-UE40030H-BS1**

**R88M-UE20030L-BS1/-UE30030L-BS1**

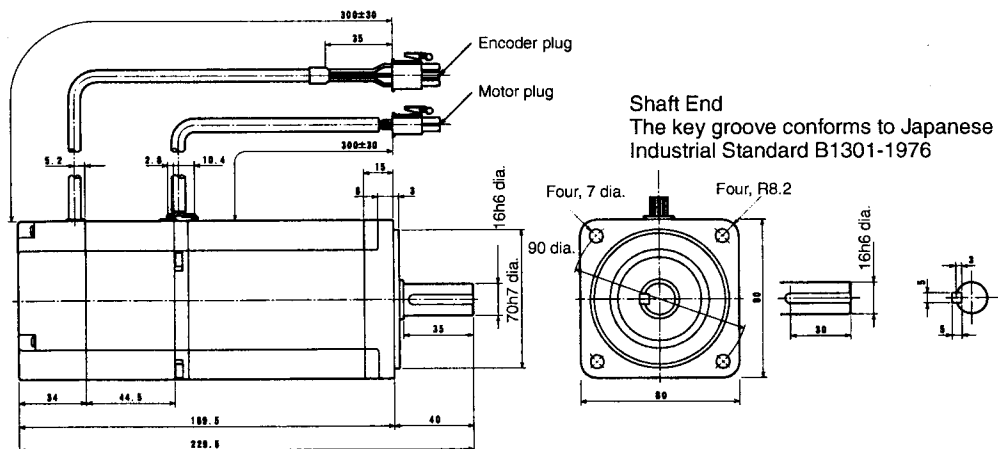
Model	L	LL
R88M-UE20030H-BS1	166	136
R88M-UE20030L-BS1		
R88M-UE40030H-BS1	194	164
R88M-UE30030L-BS1		



**R88M-UE75030H-S1**



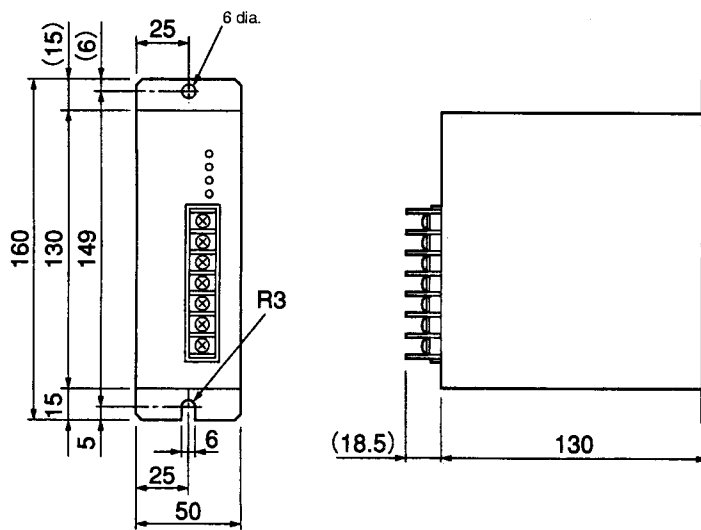
**R88M-UE75030H-BS1**



# External Dimensions

## ■ Regeneration Unit

### ● R88A-RG08UA



**Note:** Refer to User's Manual (I522-E1) for specifications of the Regeneration Unit.

# External Dimensions

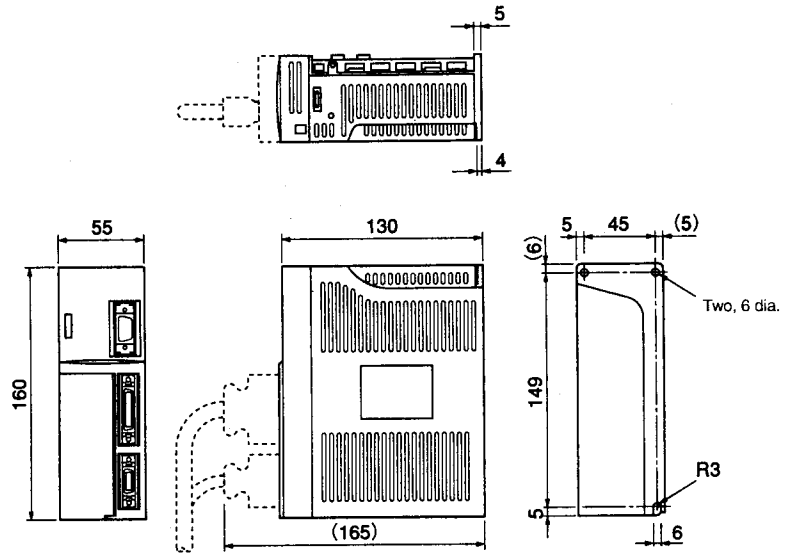
## ■ AC Servo Drivers

- 200 VAC, 100/200-W Output

R88D-UEP04H/-UEP08H

- 100 VAC, 100-W Output

R88D-UEP10L

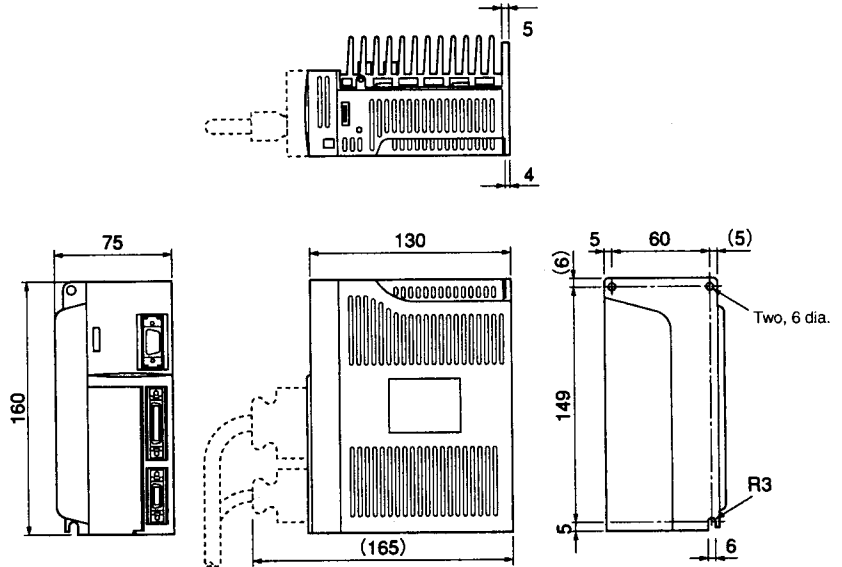


- 200 VAC, 400-W Output

R88D-UEP12H

- 100 VAC, 200-W Output

R88D-UEP12L

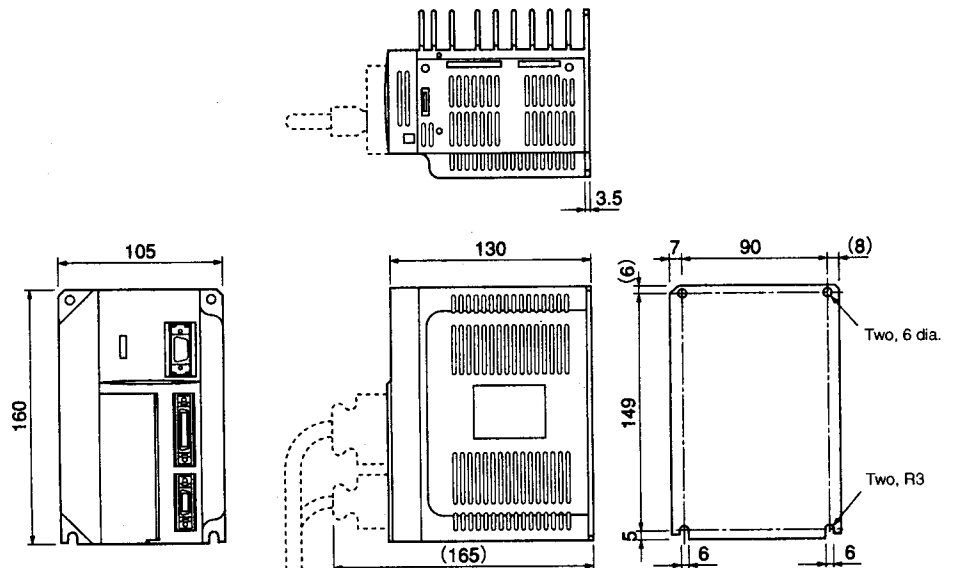


- 200 VAC, 750-W Output

R88D-UEP20H

- 100 VAC, 300-W Output

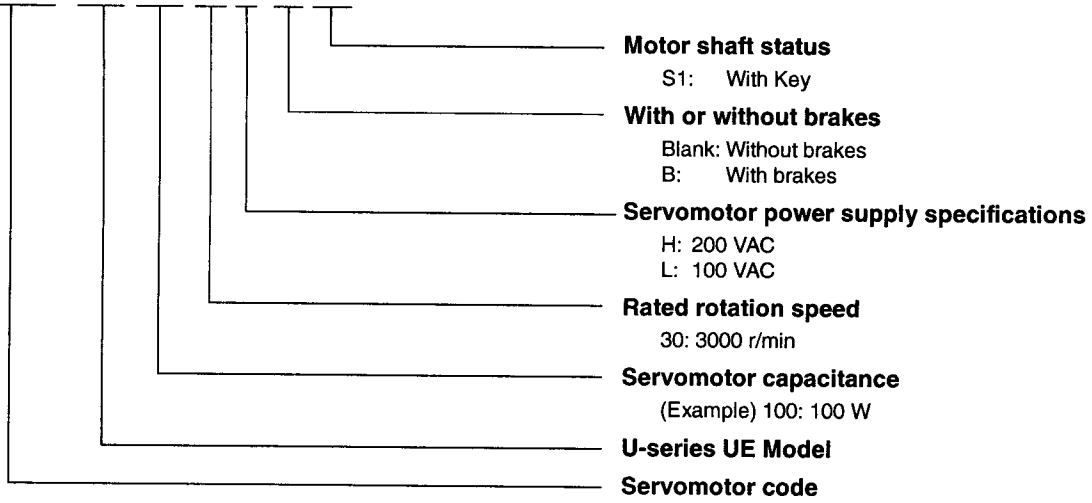
R88D-UEP15L



# Model Number Legends

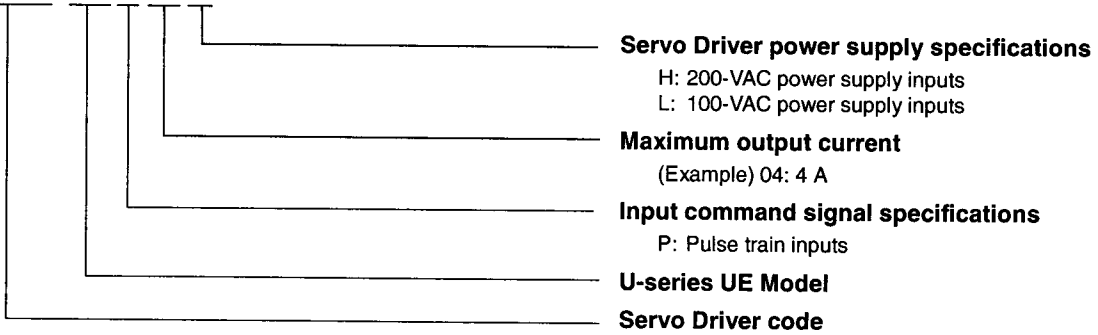
## ■ AC Servomotors

R88M-UE10030H-□S1



## ■ AC Servo Drivers

R88D-UEP04H



# Standard Models

## ■ Servomotor

Specifications				Model
Straight axis with key	Servo motor without brakes	For 200 VAC	100 W	R88M-UE10030H-S1
			200 W	R88M-UE20030H-S1
			400 W	R88M-UE40030H-S1
			750 W	R88M-UE75030H-S1
		For 100 VAC	100 W	R88M-UE10030L-S1
			200 W	R88M-UE20030L-S1
			300 W	R88M-UE30030L-S1
			Servo motor with brakes	For 200 VAC
	200 W	R88M-UE20030H-BS1		
	400 W	R88M-UE40030H-BS1		
	750 W	R88M-UE75030H-BS1		
	For 100 VAC	100 W	R88M-UE10030L-BS1	
200 W		R88M-UE20030L-BS1		
300 W		R88M-UE30030L-BS1		

## ■ Servodriver (Pulse Train Input Models)

Specifications			Model
Pulse Train Input	For 200 VAC	100 W	R88D-UEP04H
		200 W	R88D-UEP08H
		400 W	R88D-UEP12H
		750 W	R88D-UEP20H
	For 100 VAC	100 W	R88D-UEP10L
		200 W	R88D-UEP12L
		300 W	R88D-UEP15L

## ■ Parameter Units

Specifications	Model
Handy type	R88A-PR02U
Mounted type	R88A-PR03U

## ■ Regeneration Unit

Specifications	Model
Regeneration processing current 8 A <sub>DC</sub>	R88A-RG08UA

## ■ External Regeneration Resistor

Specifications	Model
Regenerative capacity: 70 W at 47 Ω	R88A-RR22047S

## ■ Encoder Cables

Specifications	Model	
Connectors on each side	3 m	R88A-CRU003C
	5 m	R88A-CRU005C
	10 m	R88A-CRU010C
	15 m	R88A-CRU015C
	20 m	R88A-CRU020C

## ■ Power Cables

Specifications	Model	
With a single connector for motors with no brakes	3 m	R88A-CAU003S
	5 m	R88A-CAU005S
	10 m	R88A-CAU010S
	15 m	R88A-CAU015S
	20 m	R88A-CAU020S
With a single connector for motors with brakes	3 m	R88A-CAU003B
	5 m	R88A-CAU005B
	10 m	R88A-CAU010B
	15 m	R88A-CAU015B
	20 m	R88A-CAU020B

## ■ General-purpose Control Cables

Specifications	Model	
For a general-purpose controller (Connector on one side)	1 m	R88A-CPU001S
	2 m	R88A-CPU002S

## ■ Connectors and Terminal Blocks

Specifications	Model	
Control cable connector	R88A-CNU01C	
Terminal Block Connector	XW2B-40F5-P	
Conversion Cables for Connector-Terminal Conversion Unit	1 m	R88A-CTU001N
	2 m	R88A-CTU002N

## ■ Front Panel Mounting Brackets

Specifications	Model
200 VAC: 100 to 400 W 100 VAC: 100, 200 W	For Servo Drivers R88A-TK01U
200 VAC: 750 W 100 VAC: 300 W	For Servo Drivers R88A-TK02U

**Note:** A wide variety of special cables are available for U-series AC Servomotor and Servodriver UE models for preventing wiring mistakes and reducing wiring effort. The AC Servodrivers are thus not provided with connectors.

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