



## How to order

## How to order

ECS - 06 - 05 040 - E M 1 N C B D P - M

A B C D E F G H I J K L

| A Body size |                   |
|-------------|-------------------|
| 05          | Body width 51 mm  |
| 06          | Body width 65 mm  |
| 10          | Body width 102 mm |
| 12          | Body width 102 mm |
| 14          | Body width 135 mm |
| 17          | Body width 170 mm |
| 22          | Body width 220 mm |

| B Screw lead |       |
|--------------|-------|
| 02           | 2 mm  |
| 05           | 5 mm  |
| 10           | 10 mm |
| 16           | 16 mm |
| 20           | 20 mm |
| 25           | 25 mm |
| 40           | 40 mm |

| C Stroke length |                       |
|-----------------|-----------------------|
| 005             | 50 mm                 |
| to              | (In 50 mm increments) |
| 150             | 1500 mm               |

| D Motor mounting direction *1 |                   |
|-------------------------------|-------------------|
| E                             | Straight mounting |
| B                             | Built-in mounting |
| R                             | Right mounting    |
| D                             | Bottom mounting   |
| L                             | Left mounting     |

| E Mounted motor specification |                                        |
|-------------------------------|----------------------------------------|
| M                             |                                        |
| Y                             | Refer to the list on the page at right |
| P                             |                                        |
| F                             |                                        |

| F Motor capacity |       |
|------------------|-------|
| 1                | 100 W |
| 2                | 200 W |
| 4                | 400 W |
| 8                | 750 W |

| G Brake *1 |      |
|------------|------|
| N          | None |
| B          | Yes  |

| H Origin sensor (1 pc) *2 |                                                    |
|---------------------------|----------------------------------------------------|
| N                         | None                                               |
| A                         | Inside motor side                                  |
| B                         | Inside motor opposite side                         |
| C                         | Outside motor side (Included at shipment)          |
| D                         | Outside motor opposite side (Included at shipment) |

| I Limit sensor (2 pcs) *2 |         |
|---------------------------|---------|
| N                         | None    |
| A                         | Inside  |
| B                         | Outside |

| L Magnet slider method *3 |          |
|---------------------------|----------|
|                           | Standard |
| M                         | Yes      |

| K Positioning pin hole |      |
|------------------------|------|
| N                      | None |
| P                      | Yes  |

| J Grease nipple |                                          |
|-----------------|------------------------------------------|
| N               | None (Body mounting direction: Standard) |
| R               | Right                                    |
| L               | Left                                     |

\*1: Select "Yes" to the Brake only when the motor mounting direction is built-in mounting.

For other mounting directions, select "None."

\*2: The sensor dog is assembled at shipment regardless of sensor presence.

\*3: ECS-05/06 uses the magnet slider method. Other sizes use the standard.

| Manufacturer                    | 50 W | 100 W | 200 W | 400 W | 750 W |
|---------------------------------|------|-------|-------|-------|-------|
| Mitsubishi Electric Corporation | M    | M     | M     | M     | M     |
| Delta Electronics Co., Ltd.     | M    | M     | M     | M     | M     |
| Sanyo Denki Co., Ltd.           | M    | M     | M     | M     | -     |
| YASKAWA Electric Corporation    | Y    | Y     | Y     | Y     | Y     |
| Keyence Corporation             | Y    | Y     | Y     | Y     | Y     |
| Panasonic Corporation           | P    | P     | P     | P     | P     |
| OMRON Corporation               | M    | M     | P     | P     | P     |
| Fuji Electric Co., Ltd.         | M    | M     | M     | M     | M     |
| FANUC CORPORATION               | F    | F     | F     | F     | F     |
| Bosch Rexroth AG                | P    | P     | P     | P     | P     |
| Rockwell Automation, Inc.       | M    | M     | M     | M     | M     |
| SIEMENS AG                      | M    | M     | M     | M     | M     |

## Example of model No.

## ECS-06-05040-EM1NCBDP-M

|                               |                                               |
|-------------------------------|-----------------------------------------------|
| A Body size                   | : 06 Series                                   |
| B Screw lead                  | : 5 mm                                        |
| C Stroke length               | : 400 mm                                      |
| D Motor mounting direction    | : Straight                                    |
| E Mounted motor specification | : M (refer to the table on the page at right) |
| F Motor capacity              | : 100 W                                       |
| G Brake                       | : None                                        |
| H Origin sensor               | : External motor side                         |
| I Limit sensor                | : Outside                                     |
| J Grease nipple               | : None (Body mounting method: Bottom side)    |
| K Positioning pin hole        | : Yes                                         |
| L Magnet slider method        | : Yes                                         |

\*This product is composed of an actuator (and motor mounting parts) only; there is no motor attached.  
The user must prepare, mount, and adjust the motor and driver.

# Discontinued some variations

**ECS Series**

List of servo motors recommended for mounting

List of servo motors recommended for mounting

| Code | Manufacturer                    | Series      | 100 W *3<br>(ECS-05/06/10/12 Series) |
|------|---------------------------------|-------------|--------------------------------------|
| M    | Mitsubishi Electric Corporation | MELSERVO J4 | HG-KR13                              |
|      |                                 | MELSERVO J5 | HK-KT13W                             |
| M    | Delta Electronics Co., Ltd.     | ECMA-C *2   | ECMA-C10401                          |
| M    | Sanyo Corporation, Ltd.         | SANMOTION R | R2□A04010                            |
| Y    | YASKAWA Electric Corporation    | Σ-V         | SGMJV-01                             |
|      |                                 | Σ-7 *1      | SGM7J-01                             |
| Y    | Keyence Corporation             | SV          | SV-□010                              |
|      |                                 | SV2 *1      | SV2-□010                             |
| P    | Panasonic Corporation           | MINAS A5    | MSMD01                               |
|      |                                 | MINAS A6 *1 | MSMF01                               |
| M    | OMRON Corporation               | G5          | R88M-K10030                          |
|      |                                 | 1S *1       | R88M-1M10030                         |
| M    | Fuji Electric Co., Ltd.         | ALPHA7 GYS  | GYS101D7-□B2□                        |
|      |                                 | ALPHA7 GYB  | -                                    |
| F    | FANUC CORPORATION *1            | βiS-B       | A06B-0112-B1                         |
| P    | Bosch Rexroth AG                | MSM         | MSM019B                              |
| M    | Rockwell Automation, Inc. *1    | TLP         | TLP-A046-010-DKA□2                   |
|      | SIEMENS AG *1                   | 1FK2 *6     | 1FK2102-1AG0                         |

| Code | Manufacturer                    | Series      | 200 W *3 *4<br>(ECS-10/12/14 Series) | 400 W<br>(ECS-14/17 Series) | 750 W *5<br>(ECS-17/22 Series) |
|------|---------------------------------|-------------|--------------------------------------|-----------------------------|--------------------------------|
| M    | Mitsubishi Electric Corporation | MELSERVO J4 | HG-KR23                              | HG-KR43                     | HG-KR73                        |
|      |                                 | MELSERVO J5 | HK-KT23W                             | HK-KT43W                    | HK-KT7M3W                      |
| M    | Delta Electronics Co., Ltd.     | ECMA-C *2   | ECMA-C10602                          | ECMA-C10604                 | ECMA-C10807                    |
| M    | Sanyo Corporation, Ltd.         | SANMOTION R | R2□A06020                            | R2□A06040                   | -                              |
| Y    | YASKAWA Electric Corporation    | Σ-V         | SGMJV-02                             | SGMJV-04                    | SGMJV-08                       |
|      |                                 | Σ-7 *1      | SGM7J-02                             | SGM7J-04                    | SGM7J-08                       |
| Y    | Keyence Corporation             | SV          | SV-□020                              | SV-□040                     | SV-□075                        |
|      |                                 | SV2 *1      | SV2-□020                             | SV2-□040                    | SV2-□075                       |
| P    | Panasonic Corporation           | MINAS A5    | MSMD02                               | MSMD04                      | MSMD08                         |
|      |                                 | MINAS A6 *1 | MSMF02                               | MSMF04                      | MSMF08                         |
| P    | OMRON Corporation               | G5          | R88M-K20030                          | R88M-K40030                 | R88M-K75030                    |
|      |                                 | 1S *1       | R88M-1M20030                         | R88M-1M40030                | R88M-1M75030                   |
| M    | Fuji Electric Co., Ltd.         | ALPHA7 GYS  | GYS201D7-□B2□                        | GYS401D7-□B2□               | GYS751D7-□B2□                  |
|      |                                 | ALPHA7 GYB  | GYB201D7-□B2□                        | GYB401D7-□B2□               | GYB751D7-□B2□                  |
| F    | FANUC CORPORATION *1            | βiS-B       | A06B-2115-B1                         | A06B-2116-B1                | A06B-2063-B1                   |
| P    | Bosch Rexroth AG                | MSM         | MSM031B                              | MSM031C                     | MSM041B                        |
| M    | Rockwell Automation, Inc. *1    | TLP         | TLP-A070-020-DKA□2                   | TLP-A070-040-DKA□2          | TLP-A090-075-DKA□2             |
| M    | SIEMENS AG *1                   | 1FK2 *6     | 1FK2203-2AG0                         | 1FK2203-4AG0                | 1FK2204-5AK0                   |

\* Contact CKD for mounting other than the above motors and products of other motor manufacturers.

\*1: Cannot be used with built-in mounting.

\*2: ECMA series (with brake) cannot be used with built-in mounting.

\*3: Contact CKD when using an OMRON motor with ECS-12 built-in mounting.

\*4: ECS-10 and 12 200 W cannot be used with built-in mounting.

\*5: ECS-17 750 W cannot be used with built-in mounting.

\*6: The servo motor is subject to the regulations of Export Trade Control Order Appendix Table 1 Item 7 (8), and is applicable with regard to its specifications. (as of January 2021)

Servo motor compatible

ETV

ECV

EKS

EBS

Stepper motor compatible

EBR

ETS

ECS

Safety  
precautions