

Discontinued some variations
Sales of ETS-05 to ETS-12 discontinued.

Series variation																
Type	Model No.		Applicable motor capacity (W)	Body width (mm)	Screw lead (mm)	Max. load capacity (kg)										
						Horizontal *2	Vertical									
Slider		ETS-05	100	51	2	10	7	100mm/s								
					5	10	3	250								
					10	5	1.5	500								
		ETS-06	50 *1	65	2	12	6	100								
					5	12	4	250								
					10	6	2	500								
			100		2	30	15	100								
					5	30	10	250								
					10	15	5	500								
		ETS-10	100	102	5	50	12	250								
					10	30	8	500								
			200		16	22	5	800								
					20	18	3	1000								
		ETS-12	100	102	5	50	12	250								
					10	30	8	500								
			200		16	22	5	800								
					20	18	3	1000								
		ETS-13	100 *1	135	5	50	12	250								
					10	30	8	500								
					16	22	5	800								
					20	18	3	1000								
			200		5	70	17	250								
					10	47	12	500								
					16	30	6	800								
					20	24	4	1000								
		ETS-14	200	135	5	95	27	250								
					10	75	18	500								
					16	44	7	800								
					20	35	6	1000								
			400		5	110	33	250								
					10	88	22	500								
					16	48	10	800								
					20	40	8	1000								
		ETS-17	400	170	5	120	40	250								
					10	110	30	500								
					20	75	14	1000								
					40	35	7	2000								
			750		5	120	50	250								
					10	120	40	500								
					20	83	25	1000								
					40	50	10	2000								
	ETS-22	750	220	5	150	55	250									
				10	150	45	500									
				25	120	20	1250									
				40	60	10	2000									

Servo motor compatible

Stepper motor compatible

Safety precautions

EBS

EBR

ETS

ETS Multi-Axis

ECS

ETV

ECV

EKS

EBS

EBR

ETS

ECS

*1: ETS-06 50 W/ETS-13 100 W support only metal stopper (ETS-X) specifications.

*2: The load capacity when wall mounted is the same as for horizontal installation.

ETS Series

Series variation

*3: The max. speed is the speed when the motor mounted by the customer can output a rotation speed of 3000 rpm. The max. speed is restricted by the stroke. Do not move at speeds beyond the limit.

*4:  shows the positioning time. Maximum stroke when installed horizontally and operated at max. speed and max. acceleration/deceleration. Note that this is not the value at maximum load capacity.

How to order

How to order

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

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

A Body size *1	
05	Body width 51 mm
06	Body width 65 mm
10	Body width 102 mm
12	Body width 102 mm
13	Body width 135 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 to 150	50 mm (In 50 mm increments) 1500 mm

D Motor mounting direction *2 *3	
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	
0	50 W
1	100 W
2	200 W
4	400 W
8	750 W

G Brake *2	
N	None
B	Yes

H Origin sensor (1 pc) *4	
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) *4	
N	None
A	Inside
B	Outside

J Grease nipple	
N	None (Body mounting direction: Standard)
D	None (Body mounting direction: Bottom side)
R	Right
L	Left

K Positioning pin hole	
N	None
P	Yes

L Magnet slider method *5	
	Standard
M	Yes

M Metal stopper specifications (ETS-X) *1 *3	
	Standard
X	Yes

*1: ETS-06 50 W/ETS-13 100 W support only metal stopper specifications.

*2: Select "Yes" to the Brake only when the motor mounting direction is built-in mounting.
For other mounting directions, select "None."

*3: Built-in mounting cannot be selected with metal stopper specifications.

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

*5: ETS-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
DENSO WAVE Incorporated (ETS-X only)	-	M	M	M	-
Bosch Rexroth AG	P	P	P	P	P
Rockwell Automation, Inc.	M	M	M	M	M
SIEMENS AG	M	M	M	M	M

*50 W supports only ETS-06 metal stopper specifications.

Example of model No.

ETS-06-05040-EM1NCBDP-M-X

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
M Metal stopper specifications (ETS-X)	: 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
Sales of ETS-05 to ETS-12 discontinued.

ETS Series

List of servo motors recommended for mounting

List of servo motors recommended for mounting

Code	Manufacturer	Series	50 W *3 (ETS-06 Series)	100 W *3 *4 (ETS-05/06/10/12/13 Series)
M	Mitsubishi Electric Corporation	MELSERVO J4	HG-KR053	HG-KR13
		MELSERVO J5	HG-KT053W	HK-KT13W
M	Delta Electronics Co., Ltd.	ECMA-C *2	ECMA-C1040F	ECMA-C10401
M	Sanyo Corporation, Ltd.	SANMOTION R	R2□A04005	R2□A04010
Y	YASKAWA Electric Corporation	Σ-V	SGMJV-A5	SGMJV-01
		Σ-7 *1	SGM7J-A5	SGM7J-01
Y	Keyence Corporation	SV	SV-□005	SV-□010
		SV2 *1	SV2-□005	SV2-□010
P	Panasonic Corporation	MINAS A5	MSMD5A	MSMD01
		MINAS A6 *1	MSMF5A	MSMF01
M	OMRON Corporation	G5	R88M-K0503	R88M-K10030
		1S *1	-	R88M-1M10030
M	Fuji Electric Co., Ltd.	ALPHA7 GYS	GYS500D7-□B2□	GYS101D7-□B2□
		ALPHA7 GYB	-	-
F	FANUC CORPORATION *1	βiS-B	A06B-0111-B1	A06B-0112-B1
M	DENSO WAVE Incorporated	410627	-	410627-121□
			-	410627-122□
P	Bosch Rexroth AG	MSM	MSM019A	MSM019B
M	Rockwell Automation, Inc. *1	TLP	TLP-A046-005-DKA□2	TLP-A046-010-DKA□2
M	SIEMENS AG *1	1FK2 *7	1FK2102-0AG0	1FK2102-1AG0

Code	Manufacturer	Series	200 W *4 *5 (ETS-10/12/13/14 Series)	400 W (ETS-13/14/17 Series)	750 W *6 (ETS-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
M	DENSO WAVE Incorporated	410627	410627-125□	410627-127□	-
			410627-126□	410627-128□	-
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 *7	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: ETS-06 50 W and ETS-13 100 W are available with metal stopper specifications only; built-in mounting cannot be selected.

*4: Contact CKD when using an OMRON motor with ETS-12 built-in mounting.

*5: ETS-10 and 12 200 W cannot be used with built-in mounting.

*6: ETS-17 750 W cannot be used with built-in mounting.

*7: 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)

EBS
EBR
ETS
ETS Multi-Axis
ECS
ETV
ECV
EKS
EBS
EBR
ETS
ECS

Stepper motor compatible
EBS
EBR
ETS
ECS

Safety
precautions