




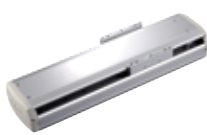



Series variation

Type	Model No.	Applicable motor capacity (W)	Body width (mm)	Screw lead (mm)	Max. load capacity (kg)										
					Horizontal *2	Vertical									
							50	100	150	200	250	300	350	400	
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							
					16	22	5	800							
					20	18	3	1000							
		ETS-12	100	102	5	50	12	250							
					10	30	8	500							
					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	135	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			135	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	170	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

*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.

Stroke length (mm) and max. speed (mm/s) *3																	Page										
450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250		1300	1350	1400	1450	1500	1550	1600	1650 mm		
			90	80	70	60			13.53 sec.*4																	90	
			225	200	175	150			5.53 sec.																		96
			450	400	350	300			2.87 sec.																		96
			90	80	70	60			13.53 sec.																		102
			225	200	175	150			5.53 sec.																		110
			450	400	350	300			2.87 sec.																		118
							225	200	175	150	125			8.6 sec.													126
							450	400	350	300	250			4.4 sec.													134
							720	640	560	480	400			2.83 sec.													142
							900	800	700	600	500			2.3 sec.													142
							225	200	175	150	125			8.6 sec.													142
							450	400	350	300	250			4.4 sec.													142
							720	640	560	480	400			2.83 sec.													142
							900	800	700	600	500			2.3 sec.													142
							225	200	175	150	125			8.53 sec.													142
							450	400	350	300	250			4.37 sec.													142
							900	800	700	600	500			2.28 sec.													142
							1800	1600	1400	1200	1000			1.24 sec.													142
							225	200	175	150	125			8.53 sec.													142
							450	400	350	300	250			4.37 sec.													142
							900	800	700	600	500			2.28 sec.													142
							1800	1600	1400	1200	1000			1.24 sec.													142
							225	200	175	150	125	100		15.2 sec.													142
							450	400	350	300	250	200		7.7 sec.													142
							1125	1000	875	750	625	500		3.2 sec.													142
							1800	1600	1400	1200	1000	800	600		2.7 sec.												142

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 Safety precautions

*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

D Motor mounting direction *2 *3	
E	Straight mounting
B	Built-in mounting
R	Right mounting
D	Bottom mounting
L	Left mounting

G Brake *2	
N	None
B	Yes

K Positioning pin hole	
N	None
P	Yes

E Screw lead	
02	2 mm
05	5 mm
10	10 mm
16	16 mm
20	20 mm
25	25 mm
40	40 mm

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

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)

L Magnet slider method *5	
	Standard
M	Yes

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

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

F Motor capacity *1	
0	50 W
1	100 W
2	200 W
4	400 W
8	750 W

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

*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.

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

EBS

EBR

ETS

ECS

EBS

EBR

ETS

ECS

Servo motor compatible

Stepper motor compatible

Safety precautions