50 W to 750 W (MSMD, MHMD: IP65 / MSME: IP67)

Motor							Driver			Power capacity (at rated load) (kVA)	Optional parts								
Motor series		Power supply	Output (W)	Part No. Note) 1	Rating/ Spec. (page)		A5II series A5 series Part No. (Speed, Position, Torque, Full-Closed type) Note) 2	A5IIE series A5E series Part No. (Position control type) Note) 3,4	Frame		Encoder Cable: 20-bit Incremental Note) 5	Encoder Cable: 17-bit Absolute Note) 4,5,8		Motor Cable: without Brake Note) 5	Motor Cable: with Brake Note) 5	Brake Cable Note) 5	External Regenerative Resistor	Reactor (Single phase / 3-phase)	Noise Filter (Single phase / 3-phase)
Low inertia	MSMD (Leadwire type) 3000 r/min	Single phase 100 V	50	MSMD5AZ□1∗	49		MAD◇T1105	MAD◇T1105E	A-frame	Approx. 0.4	MFECA 0**0EAM	MFECA 0**0EAE Note) 7		MFMCA 0**0EED		MFMCB 0**0GET	DV0P4280	DV0P227	DV0P4170
			100	MSMD011□1∗	51		MAD◇T1107	MAD◇T1107E		Approx. 0.4									
			200	MSMD021□1∗	53		MBD◇T2110	MBD◇T2110E	B-frame	Approx. 0.5							DV0P4283	DV0P228	
			400	MSMD041□1∗	55		MCD◇T3120	MCD◇T3120E	C-frame	Approx. 0.9							DV0P4282		DV0PM20042
		Single phase/ 3-phase 200 V	50	MSMD5AZ□1∗	50		MAD◇T1505	MAD◇T1505E	A-frame	Approx. 0.5							DV0P4281	DV0P227 / DV0P220	DV0P4170 / DV0PM20042
			100	MSMD012□1∗	52		MAD◇T1505	MAD◇T1505E		Approx. 0.5									
			200	MSMD022□1∗	54		MAD◇T1507	MAD◇T1507E		Approx. 0.5							DV0P4283		
			400	MSMD042□1∗	56		MBD◇T2510	MBD◇T2510E	B-frame	Approx. 0.9								DV0P228 / DV0P220	
			750	MSMD082□1∗	57		MCD◇T3520	MCD◇T3520E	C-frame	Approx. 1.3									DV0PM20042
	MSME (Connector type) 3000 r/min	Single phase 100 V	50	MSME5AZ□1∗	65		MAD◇T1105	MAD◇T1105E	A-frame	Approx. 0.4	MFECA 0**0MJD (For movable, direction of motor shaft)	MFECA 0**0MJE (For movable, direction of motor shaft)		MFMCA 0**0NJD (For movable, direction of motor shaft)		MFMCB 0**0PJT (For movable, direction of motor shaft)	DV0P4280	DV0P227	DV0P4170
			100	MSME011□1∗	67		MAD◇T1107	MAD◇T1107E		Approx. 0.4									
			200	MSME021□1∗	69		MBD◇T2110	MBD◇T2110E	B-frame	Approx. 0.5	MFECA 0**0MKD (For movable, opposite direction of motor shaft)	MFECA 0**0MKE (For movable, opposite direction of motor shaft)		MFMCA 0**0NKD (For movable, opposite direction of motor shaft)		MFMCB 0**0PKT (For movable, opposite direction of motor shaft)	DV0P4283	DV0P228	
			400	MSME041□1∗	71		MCD◇T3120	MCD◇T3120E	C-frame	Approx. 0.9							DV0P4282		DV0PM20042
		Single phase/ 3-phase 200 V	50	MSME5AZ□1∗	66		MAD◇T1505	MAD◇T1505E	A-frame	Approx. 0.5	MFECA 0**0TJD (For fixed, direction of motor shaft)	MFECA 0**0TJE (For fixed, direction of motor shaft)		MFMCA 0**0RJD (For fixed, direction of motor shaft)		MFMCB 0**0SJT (For fixed, direction of motor shaft)	DV0P4281	DV0P227 / DV0P220	DV0P4170 / DV0PM20042
			100	MSME012□1∗	68		MAD◇T1505	MAD◇T1505E		Approx. 0.5									
			200	MSME022□1∗	70		MAD◇T1507	MAD◇T1507E		Approx. 0.5							DV0P4283		
			400	MSME042□1∗	72		MBD◇T2510	MBD◇T2510E	B-frame	Approx. 0.9								DV0P228 / DV0P220	
			750	MSME082□1∗	73		MCD◇T3520	MCD◇T3520E	C-frame	Approx. 1.3				Note) 6					DV0PM20042
High inertia	MHMD (Leadwire type) 3000 r/min	Single phase 100 V	200	MHMD021□1∗	59		MBD◇T2110	MBD◇T2110E	B-frame	Approx. 0.5	MFECA 0**0EAM	MFECA 0**0EAE Note) 7		MFMCA 0**0EED		MFMCB 0**0GET	DV0P4283	DV0P228	DV0P4170
			400	MHMD041□1∗	61		MCD◇T3120	MCD◇T3120E	C-frame	Approx. 0.9							DV0P4282		DV0PM20042
		Single phase/ 3-phase 200 V	200	MHMD022□1∗	60		MAD◇T1507	MAD◇T1507E	A-frame	Approx. 0.5							DV0P4283	DV0P227 / DV0P220	DV0P4170 / DV0PM20042
			400	MHMD042□1∗	62		MBD◇T2510	MBD◇T2510E	B-frame	Approx. 0.9								DV0P228 / DV0P220	
			750	MHMD082□1∗	63		MCD◇T3520	MCD◇T3520E	C-frame	Approx. 1.3									DV0PM20042

Note) 1 Rotary encoder specifications: □ Motor specification: ∗ (refer to P.16)
Note) 2 ◇: Drivers series K: A5Ⅱ series H: A5 series
Note) 3 ◇: Drivers series K: A5ⅡE series H: A5E series
Note) 4 Because A5ⅡE, A5E series drivers (dedicated for position control) do not support the 17-bit absolute specification, only 20-bit incremental type can be used in combination.
Note) 5 Cable length: ** (03: 3 m, 05: 5 m, 10: 10 m, 20: 20 m) (Example. 3 m: MFECA0030EAM)
Note) 6 Cables for opposite to output shaft cannot be used with 50 W or 100 W motor.
Note) 7 When you use a 17-bit absolute encoder as an incremental encoder, please use the encoder cable MFECA0**0EAD.
Note) 8 Please note that a battery is not supplied together with 17-bit absolute encoder cable (with battery box). Please buy the battery part number "DV0P2990" separately.

• Selection of cable for MSME motor (Movable: For application where the cable is movable. Fixed: For application where the cable is fixed.)

• Encoder cable

Example: MFECA0∗∗0 ◇ △ □

◇ : Cable type

Symbol	Specifications
M	Movable
T	Fixed

△ : Cable direction

Symbol	Specifications
J	Direction of motor shaft
K	Opposite direction of motor shaft

□ : Encoder Specifications

Symbol	Specifications
D	20-bit Incremental
E	17-bit Absolute

• Motor cable

Example: MFMCA0∗∗0 ◇ △ D

◇ : Cable type

Symbol	Specifications
N	Movable
R	Fixed

△ : Cable direction

Symbol	Specifications
J	Direction of motor shaft
K	Opposite direction of motor shaft

• Brake cable

Example: MFMCB0∗∗0 ◇ △ T

◇ : Cable type

Symbol	Specifications
P	Movable
S	Fixed

△ : Cable direction

Symbol	Specifications
J	Direction of motor shaft
K	Opposite direction of motor shaft

• Options

Title			Part No.	Page
Interface Cable			DV0P4360	197
Interface Conversion Cable			DV0P4120	
			DV0P4121	
			DV0P4130	
			DV0P4131	
			DV0P4132	
Connector Kit for Power Supply Input Connection	A-frame to D-frame	Single row type	DV0PM20032	200
		Double row type	DV0PM20033	
Connector Kit for Motor Connection	A-frame to D-frame		DV0PM20034	201
Connector Kit for Motor/Encoder Connection			DV0P4290	202
			DV0P4380	
			DV0PM20035	203
Connector Kit for Motor/Brake Connection			DV0PM20040	206
Connector Kit	RS485, RS232		DV0PM20024	198
	Safety		DV0PM20025	
	Interface		DV0P4350	
	External Scale		DV0PM20026	199
	Encoder		DV0PM20010	
	Analog Monitor Signal		DV0PM20031	
Battery For Absolute Encoder			DV0P2990	207
Battery Box Note) 8			DV0P4430	
Mounting Bracket	A-frame		DV0PM20027	208
	B-frame		DV0PM20028	
	C-frame		DV0PM20029	
Encoder Cable	without Battery Box		MFECA0**0EAD	188
			MFECA0**0EAM	
			MFECA0**0MJD	189
			MFECA0**0MKD	
			MFECA0**0TJD	
			MFECA0**0TKD	
	with Battery Box Note) 8		MFECA0**0EAE	188
			MFECA0**0MJE	189
			MFECA0**0MKE	
			MFECA0**0TJE	
			MFECA0**0TKE	
Motor Cable	without Brake		MFMCA0**0EED	191
			MFMCA0**0NJD	
			MFMCA0**0NKD	
			MFMCA0**0RJD	
			MFMCA0**0RKD	
Brake Cable			MFMCB0**0GET	196
			MFMCB0**0PJT	
			MFMCB0**0PKT	
			MFMCB0**0SJT	
			MFMCB0**0SKT	
External Regenerative Resistor	50 Ω 25 W		DV0P4280	210
	100 Ω 25 W		DV0P4281	
	25 Ω 50 W		DV0P4282	
	50 Ω 50 W		DV0P4283	
	30 Ω 100 W		DV0P4284	
	20 Ω 130 W		DV0P4285	
Reactor	DV0P220, DV0P221, DV0P222, DV0P223, DV0P224, DV0P225, DV0P227, DV0P228, DV0P20047			209
Noise Filter	DV0P4170, DV0PM20042 DV0P4220, DV0PM20043			250
	DV0P3410			251
Surge Absorber	Single phase		DV0P4190	253
	3-phase (200 V)		DV0P1450	
Noise Filter for Signal Lines			DV0P1460	254

0.4 kW to 5.0 kW IP65 motor

Motor						Driver			Power capacity (at rated load) (kVA)	Optional parts							
Motor series		Power supply	Output (W)	Part No. Note) 1	Rating/ Spec. (page)	A5Ⅱ series A5 series Part No. (Speed, Position, Torque, Full-Closed type) Note) 2	A5ⅡE series A5E series Part No. (Position control type) Note) 3,4	Frame		Encoder Cable			Motor Cable		Brake Cable	External Regenerative Resistor	Reactor (Single phase / 3-phase)	Noise Filter
										20-bit Incremental Note) 5	17-bit Absolute Note) 4,5,8		without Brake Note) 5	with Brake Note) 5	Note) 5			
Low inertia	MSME 3000 r/min	Single phase/ 3-phase 200 V	1000	MSME102 □ C ✻	74	MDD ◇ T5540	MDD ◇ T5540E	D-frame	Approx. 1.8	MFECA 0**0ESD	MFECA 0**0ESE		MFMCD 0**2ECD	MFMCA 0**2FCD	—	DV0P4284	DV0P228 / DV0P222	DV0P4220
			1500	MSME152 □ C ✻	75	MDD ◇ T5540	MDD ◇ T5540E		Approx. 2.3								DV0PM20047 / DV0P222	
		3-phase 200 V	2000	MSME202 □ C ✻	76	MED ◇ T7364	MED ◇ T7364E	E-frame	Approx. 3.3							DV0P4285 Note) 6	DV0P223	DV0PM20043
			3000	MSME302 □ C ✻	77	MFD ◇ TA390	MFD ◇ TA390E	F-frame	Approx. 4.5				MFMCA 0**3ECT	MFMCA 0**3FCT		DV0P4285 ×2 in parallel	DV0P224	DV0P3410
			4000	MSME402 □ C ✻	78	MFD ◇ TB3A2	MFD ◇ TB3A2E		Approx. 6								DV0P225	
			5000	MSME502 □ C ✻	79	MFD ◇ TB3A2	MFD ◇ TB3A2E		Approx. 7.5								— Note) 7	
		3-phase 400 V	750	MSME084 □ C ✻	104	MDD ◇ T2412	MDD ◇ T2412E	D-frame	Approx. 1.6	MFECA 0**0ESD	MFECA 0**0ESE		MFMCD 0**2ECD	MFMCE 0**2FCD	—	DV0PM20048	— Note) 7	Recommended components P.252
			1000	MSME104 □ C ✻	105	MDD ◇ T3420	MDD ◇ T3420E		Approx. 1.8									
			1500	MSME154 □ C ✻	106	MDD ◇ T3420	MDD ◇ T3420E		Approx. 2.3									
			2000	MSME204 □ C ✻	107	MED ◇ T4430	MED ◇ T4430E	E-frame	Approx. 3.3							DV0PM20049		
			3000	MSME304 □ C ✻	108	MFD ◇ T5440	MFD ◇ T5440E	F-frame	Approx. 4.5				MFMCA 0**3ECT	MFMCA 0**3FCT		DV0PM20049 ×2 in parallel		
			4000	MSME404 □ C ✻	109	MFD ◇ TA464	MFD ◇ TA464E		Approx. 6									
			5000	MSME504 □ C ✻	110	MFD ◇ TA464	MFD ◇ TA464E		Approx. 7.5									
Middle inertia	MDME 2000 r/min	Single phase/ 3-phase 200 V	1000	MDME102 □ C ✻	80	MDD ◇ T3530	MDD ◇ T3530E	D-frame	Approx. 1.8	MFECA 0**0ESD	MFECA 0**0ESE		MFMCD 0**2ECD	MFMCA 0**2FCD	—	DV0P4284	DV0P228 / DV0P222	DV0P4220
			1500	MDME152 □ C ✻	81	MDD ◇ T5540	MDD ◇ T5540E		Approx. 2.3								DV0PM20047 / DV0P222	
		3-phase 200 V	2000	MDME202 □ C ✻	82	MED ◇ T7364	MED ◇ T7364E	E-frame	Approx. 3.3							DV0P4285 Note) 7	DV0P223	DV0PM20043
			3000	MDME302 □ C ✻	83	MFD ◇ TA390	MFD ◇ TA390E	F-frame	Approx. 4.5				MFMCA 0**3ECT	MFMCA 0**3FCT		DV0P4285 ×2 in parallel	DV0P224	DV0P3410
			4000	MDME402 □ C ✻	84	MFD ◇ TB3A2	MFD ◇ TB3A2E		Approx. 6								DV0P225	
			5000	MDME502 □ C ✻	85	MFD ◇ TB3A2	MFD ◇ TB3A2E		Approx. 7.5								— Note) 7	
		3-phase 400 V	400	MDME044 □ C ✻	111	MDD ◇ T2407	MDD ◇ T2407E	D-frame	Approx. 0.9	MFECA 0**0ESD	MFECA 0**0ESE		MFMCD 0**2ECD	MFMCE 0**2FCD	—	DV0PM20048	— Note) 7	Recommended components P.252
			600	MDME064 □ C ✻	112	MDD ◇ T2407	MDD ◇ T2407E		Approx. 1.2									
			1000	MDME104 □ C ✻	113	MDD ◇ T2412	MDD ◇ T2412E		Approx. 1.8									
			1500	MDME154 □ C ✻	114	MDD ◇ T3420	MDD ◇ T3420E		Approx. 2.3									
			2000	MDME204 □ C ✻	115	MED ◇ T4430	MED ◇ T4430E	E-frame	Approx. 3.3							DV0PM20049		
			3000	MDME304 □ C ✻	116	MFD ◇ T5440	MFD ◇ T5440E	F-frame	Approx. 4.5				MFMCA 0**3ECT	MFMCA 0**3FCT		DV0PM20049 ×2 in parallel		
			4000	MDME404 □ C ✻	117	MFD ◇ TA464	MFD ◇ TA464E		Approx. 6									
			5000	MDME504 □ C ✻	118	MFD ◇ TA464	MFD ◇ TA464E		Approx. 7.5									
	MGME (Low speed/ High torque type) 1000 r/min	Single phase/ 3-phase 200 V	900	MGME092 □ C ✻	92	MDD ◇ T5540	MDD ◇ T5540E	D-frame	Approx. 1.8	MFECA 0**0ESD	MFECA 0**0ESE		MFMCD 0**2ECD	MFMCA **2FCD	—	DV0P4284	DV0P228 / DV0P221	DV0P4220
		3-phase 200 V	2000	MGME202 □ C ✻	93	MFD ◇ TA390	MFD ◇ TA390E	F-frame	Approx. 3.8				MFMCA 0**3ECT	MFMCA 0**3FCT		DV0P4285 ×2 in parallel	DV0P223	DV0P3410
			3000	MGME302 □ C ✻	94	MFD ◇ TB3A2	MFD ◇ TB3A2E		Approx. 4.5								DV0P224	
		3-phase 400 V	900	MGME094 □ C ✻	125	MDD ◇ T3420	MDD ◇ T3420E	D-frame	Approx. 1.8	MFECA 0**0ESD	MFECA 0**0ESE		MFMCD 0**2ECD	MFMCE 0**2FCD	—	DV0PM20048	— Note) 7	Recommended components P.252
			2000	MGME204 □ C ✻	126	MFD ◇ T5440	MFD ◇ T5440E	F-frame	Approx. 3.8				MFMCA 0**3ECT	MFMCA 0**3FCT		DV0PM20049 ×2 in parallel		
			3000	MGME304 □ C ✻	127	MFD ◇ TA464	MFD ◇ TA464E		Approx. 4.5									
High inertia	MHME 2000 r/min	Single phase/ 3-phase 200 V	1000	MHME102 □ C ✻	97	MDD ◇ T3530	MDD ◇ T3530E	D-frame	Approx. 1.8	MFECA 0**0ESD	MFECA 0**0ESE		MFMCD 0**2ECD	MFMCA 0**2FCD	—	DV0P4284	DV0P228/ DV0P222	DV0P4220
			1500	MHME152 □ C ✻	98	MDD ◇ T5540	MDD ◇ T5540E		Approx. 2.3								DV0PM20047/ DV0P222	
		3-phase 200 V	2000	MHME202 □ C ✻	99	MED ◇ T7364	MED ◇ T7364E	E-frame	Approx. 3.3				MFMCE 0**2ECD	MFMCE 0**2FCD		DV0P4285 Note) 6	DV0P223	DV0PM20043
			3000	MHME302 □ C ✻	100	MFD ◇ TA390	MFD ◇ TA390E	F-frame	Approx. 4.5				MFMCA 0**3ECT	MFMCA 0**3FCT		DV0P4285 ×2 in parallel	DV0P224	DV0P3410
			4000	MHME402 □ C ✻	101	MFD ◇ TB3A2	MFD ◇ TB3A2E		Approx. 6								DV0P225	
			5000	MHME502 □ C ✻	102	MFD ◇ TB3A2	MFD ◇ TB3A2E		Approx. 7.5								— Note) 7	
		3-phase 400 V	1000	MHME104 □ C ✻	130	MDD ◇ T2412	MDD ◇ T2412E	D-frame	Approx. 1.8	MFECA 0**0ESD	MFECA 0**0ESE		MFMCD 0**2ECD	MFMCE 0**2FCD	—	DV0P20049	— Note) 7	Recommended components P.252
			1500	MHME154 □ C ✻	131	MDD ◇ T3420	MDD ◇ T3420E		Approx. 2.3				MFMCE 0**2ECD	MFMCE 0**2FCD				
			2000	MHME204 □ C ✻	132	MED ◇ T4430	MED ◇ T4430E	E-frame	Approx. 3.3									
			3000	MHME304 □ C ✻	133	MFD ◇ T5440	MFD ◇ T5440E	F-frame	Approx. 4.5				MFMCA 0**3ECT	MFMCA 0**3FCT		DV0PM20049 ×2 in parallel		
			4000	MHME404 □ C ✻	134	MFD ◇ TA464	MFD ◇ TA464E		Approx. 6									
			5000	MHME504 □ C ✻	135	MFD ◇ TA464	MFD ◇ TA464E		Approx. 7.5									

Note) 1 Rotary encoder specifications: □ Motor specification: ✻ (refer to P.16)
Note) 2 ◇ : Drivers series K: A5Ⅱ series H: A5 series Note) 3 ◇ : Drivers series K: A5ⅡE series H: A5E series
Note) 4 Because A5ⅡE, A5E series drivers (dedicated for position control) do not support the 17-bit absolute specification, only 20-bit incremental type can be used in combination.
Note) 5 Cable length: ** (03: 3 m, 05: 5 m, 10: 10 m, 20: 20 m), (Example. 3 m: MFECA0030EAM)
Note) 6 Other combinations exist, and refer to P.210 for details.
Note) 7 Reactor should be prepared by the user.
Note) 8 Please note that a battery is not supplied together with 17-bit absolute encoder cable (with battery box). Please buy the battery part number “DV0P2990” separately.

• Options (IP65 motor)

Title			Part No.	Page
Interface Cable			DV0P4360	197
Interface Conversion Cable			DV0P4120	
			DV0P4121	
			DV0P4130	
			DV0P4131	
			DV0P4132	
Connector Kit for Power Supply Input Connection	A-frame to D-frame	Single row type	DV0PM20032	200
		Double row type	DV0PM20033	
	E-frame (200 V)		DV0PM20044	
	D-frame (400 V)		DV0PM20051	
	E-frame (400 V)		DV0PM20052	
Connector Kit for Control Power Supply Input Connection	D-frame and E-frame (400 V)		DV0PM20053	201
Connector Kit for Motor Connection	A-frame to D-frame		DV0PM20034	
	E-frame (200 V)		DV0PM20046	
	D-frame (400 V)		DV0PM20054	
Connector Kit for Regenerative Resistor	E-frame		DV0PM20045	
	D-frame (400 V)		DV0PM20055	
Connector Kit for Motor/Encoder Connection			DV0P4310	204
			DV0P4320	
			DV0P4330	205
			DV0P4340	
Connector Kit	RS485, RS232		DV0PM20024	198
	Safety		DV0PM20025	
	Interface		DV0P4350	
	External Scale		DV0PM20026	199
	Encoder		DV0PM20010	
	Analog Monitor Signal		DV0PM20031	
Battery For Absolute Encoder			DV0P2990	207
Battery Box Note) 8			DV0P4430	
Mounting Bracket	D-frame		DV0PM20030	208
Encoder Cable	without Battery Box		MFECA0**0ESD	189
	with Battery Box Note) 8		MFECA0**0ESE	190
Motor Cable	without Brake		MFMCA0**2ECD	191
			MFMCD0**2ECD	192
			MFMCE0**2ECD	
			MFMCF0**2ECD	
			MFMCA0**3ECT	193
			MFMCD0**3ECT	
	with Brake		MFMCA0**2FCD	194
			MFMCE0**2FCD	
			MFMCA0**3FCT	195
External Regenerative Resistor	50 Ω 25 W		DV0P4280	210
	100 Ω 25 W		DV0P4281	
	25 Ω 50 W		DV0P4282	
	50 Ω 50 W		DV0P4283	
	30 Ω 100 W		DV0P4284	
	20 Ω 130 W		DV0P4285	
	120 Ω 80 W		DV0PM20048	
	80 Ω 190 W		DV0PM20049	
Reactor	DV0P220, DV0P221, DV0P222, DV0P223, DV0P224, DV0P225, DV0P227, DV0P228, DV0PM20047			209
Noise Filter	DV0P4170, DV0PM20042 DV0P4220, DV0PM20043			250
	DV0P3410			251
Surge Absorber	Single phase		DV0P4190	253
	3-phase (200 V)		DV0P1450	
	3-phase (400 V)		DV0PM20050	
Noise Filter for Signal Lines			DV0P1460	254

400 W to 15.0 kW IP67 motor (MSME MDME MFME)

Motor						Driver			Power capacity (at rated load) (kVA)	Optional parts							
Motor series		Power supply	Output (W)	Part No. Note) 1	Rating/ Spec. (page)	A5Ⅱ series A5 series Part No. (Speed, Position, Torque, Full-Closed type) Note) 2	A5ⅡE series A5E series Part No. (Position control type) Note) 3,4	Frame		Encoder Cable: 20-bit Incremental Note) 5	Encoder Cable: 17-bit Absolute Note) 4,5,9	Motor Cable: without Brake Note) 5	Motor Cable: with Brake Note) 5	Brake Cable Note) 5	External Regenerative Resistor	Reactor (Single phase / 3-phase)	Noise Filter
Low inertia	MSME 3000 r/min	Single phase/ 3-phase 200 V	1000	MSME102 □ 1 ✻	74	MDD ◇ T5540	MDD ◇ T5540E	D-frame	Approx. 1.8	MFECA 0**0ETD	MFECA 0**0ETE	MFMCD 0**2ECD	MFMCA 0**2FCD	—	DV0P4284	DV0P228 / DV0P222	DV0P4220
			1500	MSME152 □ 1 ✻	75	MDD ◇ T5540	MDD ◇ T5540E		Approx. 2.3							DV0P222 / DV0PM20047	
		3-phase 200 V	2000	MSME202 □ 1 ✻	76	MED ◇ T7364	MED ◇ T7364E	E-frame	Approx. 3.3						DV0P4285 Note) 7	DV0P223	DV0PM20043
			3000	MSME302 □ 1 ✻	77	MFD ◇ TA390	MFD ◇ TA390E	F-frame	Approx. 4.5			MFMCA 0**3ECT	MFMCA 0**3FCT		DV0P4285 ×2 in parallel	DV0P224	DV0P3410
			4000	MSME402 □ 1 ✻	78	MFD ◇ TB3A2	MFD ◇ TB3A2E		Approx. 6							DV0P225	
			5000	MSME502 □ 1 ✻	79	MFD ◇ TB3A2	MFD ◇ TB3A2E		Approx. 7.5							— Note) 8	
		3-phase 400 V	750	MSME084 □ 1 ✻	104	MDD ◇ T2412	MDD ◇ T2412E	D-frame	Approx. 1.6	MFECA 0**0ETD	MFECA 0**0ETE	MFMCD 0**2ECD	MFMCE 0**2FCD	—	DV0PM20048	— Note) 8	Recommended components P.252
			1000	MSME104 □ 1 ✻	105	MDD ◇ T3420	MDD ◇ T3420E		Approx. 1.8								
			1500	MSME154 □ 1 ✻	106	MDD ◇ T3420	MDD ◇ T3420E		Approx. 2.3								
			2000	MSME204 □ 1 ✻	107	MED ◇ T4430	MED ◇ T4430E	E-frame	Approx. 3.3						DV0PM20049		
			3000	MSME304 □ 1 ✻	108	MFD ◇ T5440	MFD ◇ T5440E	F-frame	Approx. 4.5			MFMCA 0**3ECT	MFMCA 0**3FCT		DV0PM20049 ×2 in parallel		
			4000	MSME404 □ 1 ✻	109	MFD ◇ TA464	MFD ◇ TA464E		Approx. 6								
			5000	MSME504 □ 1 ✻	110	MFD ◇ TA464	MFD ◇ TA464E		Approx. 7.5								
Middle inertia	MDME 2000 r/min	Single phase/ 3-phase 200 V	1000	MDME102 □ 1 ✻	80	MDD ◇ T3530	MDD ◇ T3530E	D-frame	Approx. 1.8	MFECA 0**0ETD	MFECA 0**0ETE	MFMCD 0**2ECD	MFMCA 0**2FCD	—	DV0P4284	DV0P228 / DV0P222	DV0P4220
			1500	MDME152 □ 1 ✻	81	MDD ◇ T5540	MDD ◇ T5540E		Approx. 2.3							DV0PM20047 / DV0P222	
		3-phase 200 V	2000	MDME202 □ 1 ✻	82	MED ◇ T7364	MED ◇ T7364E	E-frame	Approx. 3.3						DV0P4285 Note) 7	DV0P223	DV0PM20043
			3000	MDME302 □ 1 ✻	83	MFD ◇ TA390	MFD ◇ TA390E	F-frame	Approx. 4.5			MFMCA 0**3ECT	MFMCA 0**3FCT		DV0P4285 ×2 in parallel	DV0P224	DV0P3410
			4000	MDME402 □ 1 ✻	84	MFD ◇ TB3A2	MFD ◇ TB3A2E		Approx. 6							DV0P225	
			5000	MDME502 □ 1 ✻	85	MFD ◇ TB3A2	MFD ◇ TB3A2E		Approx. 7.5							— Note) 8	
			7500	MDME752 □ 1 ✻	86	MGD ◇ TC3B4	—	G-frame	Approx. 11			— Note) 6	— Note) 6		DV0P4285 ×3 in parallel		Recommended components P.252
			11000	MDMEC12 □ 1 ✻	87	MHD ◇ TC3B4		H-frame	Approx. 17						DV0PM20058		
			15000	MDMEC52 □ 1 ✻	88	MHD ◇ TC3B4			Approx. 22								
		3-phase 400 V	400	MDME044 □ 1 ✻	111	MDD ◇ T2407	MDD ◇ T2407E	D-frame	Approx. 0.9	MFECA 0**0ETD	MFECA 0**0ETE	MFMCD 0**2ECD	MFMCE 0**2FCD	—	DV0PM20048	— Note) 8	Recommended components P.252
			600	MDME064 □ 1 ✻	112				Approx. 1.2								
			1000	MDME104 □ 1 ✻	113	MDD ◇ T2412	MDD ◇ T2412E		Approx. 1.8								
			1500	MDME154 □ 1 ✻	114	MDD ◇ T3420	MDD ◇ T3420E		Approx. 2.3								
			2000	MDME204 □ 1 ✻	115	MED ◇ T4430	MED ◇ T4430E	E-frame	Approx. 3.3						DV0PM20049		
			3000	MDME304 □ 1 ✻	116	MFD ◇ T5440	MFD ◇ T5440E	F-frame	Approx. 4.5			MFMCA 0**3ECT	MFMCA 0**3FCT		DV0PM20049 ×2 in parallel		
			4000	MDME404 □ 1 ✻	117	MFD ◇ TA464	MFD ◇ TA464E		Approx. 6								
			5000	MDME504 □ 1 ✻	118	MFD ◇ TA464	MFD ◇ TA464E		Approx. 7.5								
			7500	MDME754 □ 1 ✻	119	MGD ◇ TB4A2	—	G-frame	Approx. 11			— Note) 6	— Note) 6		DV0PM20049 ×3 in parallel		Recommended components P.252
			11000	MDMEC14 □ 1 ✻	120	MHD ◇ TB4A2		H-frame	Approx. 17						DV0PM20059		
			15000	MDMEC54 □ 1 ✻	121	MHD ◇ TB4A2			Approx. 22								
	MFME (Flat type) 2000 r/min	Single phase/ 3-phase 200 V	1500	MFME152 □ 1 ✻	89	MDD ◇ T5540	MDD ◇ T5540E	D-frame	Approx. 2.3	MFECA 0**0ETD	MFECA 0**0ETE	MFMCA 0**2ECD	MFMCA 0**2FCD	—	DV0P4284	DV0PM20047 / DV0P222	DV0P4220
		3-phase 200 V	2500	MFME252 □ 1 ✻	90	MED ◇ T7364	MED ◇ T7364E	E-frame	Approx. 3.8			MFMCF 0**2ECD	MFMCE 0**2FCD		DV0P4285 Note) 7	DV0P224	DV0PM20043
			4500	MFME452 □ 1 ✻	91	MFD ◇ TB3A2	MFD ◇ TB3A2E	F-frame	Approx. 6.8			MFMCD 0**3ECT	MFMCA 0**3FCT		DV0P4285 ×2 in parallel	— Note) 8	DV0P3410
		3-phase 400 V	1500	MFME154 □ 1 ✻	122	MDD ◇ T3420	MDD ◇ T3420E	D-frame	Approx. 2.3	MFECA 0**0ETD	MFECA 0**0ETE	MFMCF 0**2ECD	MFMCE 0**2FCD	—	DV0PM20048	— Note) 8	Recommended components P.252
			2500	MFME254 □ 1 ✻	123	MED ◇ T4430	MED ◇ T4430E	E-frame	Approx. 3.8						DV0PM20049		
			4500	MFME454 □ 1 ✻	124	MFD ◇ TA464	MFD ◇ TA464E	F-frame	Approx. 6.8			MFMCD 0**3ECT	MFMCA 0**3FCT		DV0PM20049 ×2 in parallel		

Note) 1 Rotary encoder specifications: □ Motor specification: ✻ (refer to P.16)
Note) 2 ◇ : Drivers series K: A5Ⅱ series H: A5 series
Note) 3 ◇ : Drivers series K: A5ⅡE series H: A5E series
Note) 4 Because A5ⅡE, A5E series drivers (dedicated for position control) do not support the 17-bit absolute specification, only 20-bit incremental type can be used in combination.
Note) 5 Cable length: ** (03: 3 m, 05: 5 m, 10: 10 m, 20: 20 m), (Example. 3 m: MFECA0030EAM)

Note) 6 Recommend to get the connector kit of options.
Note) 7 Other combinations exist, and refer to P.210 for details.
Note) 8 Reactor should be prepared by the user.
Note) 9 Please note that a battery is not supplied together with 17-bit absolute encoder cable (with battery box). Please buy the battery part number “DV0P2990” separately.

• Options (IP67 motor)

Title			Part No.	Page
Interface Cable			DV0P4360	197
Interface Conversion Cable			DV0P4120	
			DV0P4121	
			DV0P4130	
			DV0P4131	
			DV0P4132	
Connector Kit for Power Supply Input Connection	A-frame to D-frame	Single row type	DV0PM20032	200
		Double row type	DV0PM20033	
	E-frame (200 V)		DV0PM20044	
	D-frame (400 V)		DV0PM20051	
	E-frame (400 V)		DV0PM20052	
Connector Kit for Control Power Supply Input Connection	D-frame and E-frame (400 V)		DV0PM20053	201
Connector Kit for Motor Connection	A-frame to D-frame		DV0PM20034	
	E-frame (200 V)		DV0PM20046	
	D-frame (400 V)		DV0PM20054	
Connector Kit for Regenerative Resistor	E-frame		DV0PM20045	
	D-frame (400 V)		DV0PM20055	
Connector Kit for Motor/Encoder Connection			DV0PM20036	203
			DV0PM20037	204
			DV0PM20038	
			DV0PM20039	205
Connector Kit	RS485, RS232		DV0PM20024	198
	Safety		DV0PM20025	
	Interface		DV0P4350	
	External Scale		DV0PM20026	199
	Encoder		DV0PM20010	
	Analog Monitor Signal		DV0PM20031	
Battery For Absolute Encoder			DV0P2990	207
Battery Box Note) 9			DV0P4430	
Mounting Bracket	D-frame		DV0PM20030	208
Encoder Cable	without Battery Box		MFECA0**0ETD	190
	with Battery Box Note) 9		MFECA0**0ETE	
Motor Cable	without Brake		MFMCA0**2ECD	191
			MFMCD0**2ECD	192
			MFMCE0**2ECD	
			MFMCF0**2ECD	
			MFMCA0**3ECT	193
			MFMCD0**3ECT	
	with Brake		MFMCA0**2FCD	194
			MFMCE0**2FCD	
			MFMCA0**3FCT	195
External Regenerative Resistor	50 Ω 25 W		DV0P4280	210
	100 Ω 25 W		DV0P4281	
	25 Ω 50 W		DV0P4282	
	50 Ω 50 W		DV0P4283	
	30 Ω 100 W		DV0P4284	
	20 Ω 130 W		DV0P4285	
	120 Ω 80 W		DV0PM20048	
	80 Ω 190 W		DV0PM20049	
Reactor	DV0P220, DV0P221, DV0P222, DV0P223, DV0P224, DV0P225, DV0P227, DV0P228, DV0PM20047			209
Noise Filter	DV0P4170, DV0PM20042 DV0P4220, DV0PM20043			250
	DV0P3410			251
Surge Absorber	Single phase		DV0P4190	253
	3-phase (200V)		DV0P1450	
	3-phase (400V)		DV0PM20050	
Noise Filter for Signal Lines			DV0P1460	254

0.9 kW to 7.5 kW IP67 motor (MGME / MHME)

Motor						Driver			Power capacity (at rated load)	Optional parts							
Motor series		Power supply	Output (W)	Part No. Note) 1	Rating/ Spec. (page)	A5Ⅱ series A5 series Part No. (Speed, Position, Torque, Full-Closed type) Note) 2	A5ⅡE series A5E series Part No. (Position control type) Note) 3,4	Frame	(kVA)	Encoder Cable: 20-bit Incremental Note) 5	Encoder Cable: 17-bit Absolute Note) 4,5,9	Motor Cable: without Brake Note) 5	Motor Cable: with Brake Note) 5	Brake Cable Note) 5	External Regenerative Resistor	Reactor (Single phase / 3-phase)	Noise Filter
Middle inertia	MGME (Low speed/ High torque type) 1000 r/min	Single phase/ 3-phase 200 V	900	MGME092 □ 1 ＊	92	MDD ◇ T5540	MDD ◇ T5540E	D-frame	Approx. 1.8	MFECA 0**0ETD	MFECA 0**0ETE	MFMCD 0**2ECD	MFMCA 0**2FCD	—	DV0P4284	DV0P228 / DV0P221	DV0P4220
		3-phase 200 V	2000	MGME202 □ 1 ＊	93	MFD ◇ TA390	MFD ◇ TA390E	F-frame	Approx. 3.8			MFMCA 0**3ECT	MFMCA 0**3FCT		DV0P4285 ×2 in parallel	DV0P223 / DV0P224	DV0P3410
			3000	MGME302 □ 1 ＊	94	MFD ◇ TB3A2	MFD ◇ TB3A2E		Approx. 4.5								
			4500	MGME452 □ 1 ＊	95	MFD ◇ TB3A2	MFD ◇ TB3A2E		Approx. 7.5								
			6000	MGME602 □ 1 ＊	96	MGD ◇ TC3B4	—	G-frame	Approx. 9.0			— Note) 6	— Note) 6		DV0P4285 ×3 in parallel	— Note) 7	Recommended components P.252
		3-phase 400 V	900	MGME094 □ 1 ＊	125	MDD ◇ T3420	MDD ◇ T3420E	D-frame	Approx. 1.8	MFECA 0**0ETD	MFECA 0**0ETE	MFMCD 0**2ECD	MFMCE 0**2FCD	—	DV0PM20048	— Note) 7	Recommended components P.252
			2000	MGME204 □ 1 ＊	126	MFD ◇ T5440	MFD ◇ T5440E	F-frame	Approx. 3.8			MFMCA 0**3ECT	MFMCA 0**3FCT		DV0PM20049 ×2 in parallel		
			3000	MGME304 □ 1 ＊	127	MFD ◇ TA464	MFD ◇ TA464E		Approx. 4.5								
			4500	MGME454 □ 1 ＊	128	MFD ◇ TA464	MFD ◇ TA464E		Approx. 7.5								
			6000	MGME604 □ 1 ＊	129	MGD ◇ TB4A2	—	G-frame	Approx. 9.0			— Note) 6	— Note) 6		DV0PM20049 ×3 in parallel		
High inertia	MHME 2000 r/min	Single phase/ 3-phase 200 V	1000	MHME102 □ 1 ＊	97	MDD ◇ T3530	MDD ◇ T3530E	D-frame	Approx. 1.8	MFECA 0**0ETD	MFECA 0**0ETE	MFMCD 0**2ECD	MFMCA 0**2FCD	—	DV0P4284	DV0P228 / DV0P222	DV0P4220
			1500	MHME152 □ 1 ＊	98	MDD ◇ T5540	MDD ◇ T5540E		Approx. 2.3							DV0PM20047 / DV0P222	
		3-phase 200 V	2000	MHME202 □ 1 ＊	99	MED ◇ T7364	MED ◇ T7364E	E-frame	Approx. 3.3			MFMCE 0**2ECD	MFMCE 0**2FCD		DV0P4285 Note) 8	DV0P223	DV0PM20043
			3000	MHME302 □ 1 ＊	100	MFD ◇ TA390	MFD ◇ TA390E	F-frame	Approx. 4.5			MFMCA 0**3ECT	MFMCA 0**3FCT		DV0P4285 ×2 in parallel	DV0P224 / DV0P225	DV0P3410
			4000	MHME402 □ 1 ＊	101	MFD ◇ TB3A2	MFD ◇ TB3A2E		Approx. 6								
			5000	MHME502 □ 1 ＊	102	MFD ◇ TB3A2	MFD ◇ TB3A2E		Approx. 7.5								
			7500	MHME752 □ 1 ＊	103	MGD ◇ TC3B4	—	G-frame	Approx. 11			— Note) 6	— Note) 6		DV0P4285 ×3 in parallel	— Note) 7	Recommended components P.252
		3-phase 400 V	1000	MHME104 □ 1 ＊	130	MDD ◇ T2412	MDD ◇ T2412E	D-frame	Approx. 1.8	MFECA 0**0ETD	MFECA 0**0ETE	MFMCD 0**2ECD	MFMCE 0**2FCD	—	DV0PM20048	— Note) 7	Recommended components P.252
			1500	MHME154 □ 1 ＊	131	MDD ◇ T3420	MDD ◇ T3420E		Approx. 2.3								
			2000	MHME204 □ 1 ＊	132	MED ◇ T4430	MED ◇ T4430E	E-frame	Approx. 3.3			MFMCE 0**2ECD			DV0PM20049		
			3000	MHME304 □ 1 ＊	133	MFD ◇ T5440	MFD ◇ T5440E	F-frame	Approx. 4.5			MFMCA 0**3ECT	MFMCA 0**3FCT		DV0PM20049 ×2 in parallel		
			4000	MHME404 □ 1 ＊	134	MFD ◇ TA464	MFD ◇ TA464E		Approx. 6								
			5000	MHME504 □ 1 ＊	135	MFD ◇ TA464	MFD ◇ TA464E		Approx. 7.5								
			7500	MHME754 □ 1 ＊	136	MGD ◇ TB4A2	—	G-frame	Approx. 9.0			— Note) 6	— Note) 6		DV0PM20049 ×3 in parallel		

Note) 1 Rotary encoder specifications: □ Motor specification: ＊ (refer to P.16)
Note) 2 ◇ : Drivers series K: A5Ⅱ series H: A5 series
Note) 3 ◇ : Drivers series K: A5ⅡE series H: A5E series
Note) 4 Because A5ⅡE, A5E series drivers (dedicated for position control) do not support the 17-bit absolute specification, only 20-bit incremental type can be used in combination.
Note) 5 Cable length: ** (03: 3 m, 05: 5 m, 10: 10 m, 20: 20 m), (Example. 3 m: MFECA0030EAM)
Note) 6 Recommend to get the connector kit of options.
Note) 7 Reactor should be prepared by the user.
Note) 8 Other combinations exist, and refer to P.210 for details.
Note) 9 Please note that a battery is not supplied together with 17-bit absolute encoder cable (with battery box). Please buy the battery part number “DV0P2990” separately.

・Options (IP67 motor)

Title			Part No.	Page
Interface Cable			DV0P4360	197
Interface Conversion Cable			DV0P4120	
			DV0P4121	
			DV0P4130	
			DV0P4131	
			DV0P4132	
Connector Kit for Power Supply Input Connection	A-frame to D-frame	Single row type	DV0PM20032	200
		Double row type	DV0PM20033	
	E-frame (200 V)		DV0PM20044	
	D-frame (400 V)		DV0PM20051	
	E-frame (400 V)		DV0PM20052	
Connector Kit for Control Power Supply Input Connection	D-frame and E-frame (400 V)		DV0PM20053	201
Connector Kit for Motor Connection	A-frame to D-frame		DV0PM20034	
	E-frame (200 V)		DV0PM20046	
	D-frame (400 V)		DV0PM20054	
Connector Kit for Regenerative Resistor	E-frame		DV0PM20045	
	D-frame (400 V)		DV0PM20055	
Connector Kit for Motor/Encoder Connection			DV0PM20036	203
			DV0PM20037	204
			DV0PM20038	
			DV0PM20039	205
Connector Kit	RS485, RS232		DV0PM20024	198
	Safety		DV0PM20025	
	Interface		DV0P4350	
	External Scale		DV0PM20026	199
	Encoder		DV0PM20010	
	Analog Monitor Signal		DV0PM20031	
Battery For Absolute Encoder			DV0P2990	207
Battery Box Note) 9			DV0P4430	
Mounting Bracket	D-frame		DV0PM20030	208
Encoder Cable	without Battery Box		MFECA0**0ETD	190
	with Battery Box Note) 9		MFECA0**0ETE	
Motor Cable	without Brake		MFMCA0**2ECD	191
			MFMCD0**2ECD	192
			MFMCE0**2ECD	
			MFMCF0**2ECD	
			MFMCA0**3ECT	193
			MFMCD0**3ECT	
	with Brake		MFMCA0**2FCD	194
			MFMCE0**2FCD	
			MFMCA0**3FCT	195
External Regenerative Resistor	50 Ω 25 W		DV0P4280	210
	100 Ω 25 W		DV0P4281	
	25 Ω 50 W		DV0P4282	
	50 Ω 50 W		DV0P4283	
	30 Ω 100 W		DV0P4284	
	20 Ω 130 W		DV0P4285	
	120 Ω 80 W		DV0PM20048	
	80 Ω 190 W		DV0PM20049	
Reactor	DV0P220, DV0P221, DV0P222, DV0P223, DV0P224, DV0P225, DV0P227, DV0P228, DV0PM20047			209
Noise Filter	DV0P4170, DV0PM20042 DV0P4220, DV0PM20043			250
	DV0P3410			251
Surge Absorber	Single phase		DV0P4190	253
	3-phase (200 V)		DV0P1450	
	3-phase (400 V)		DV0PM20050	
Noise Filter for Signal Lines			DV0P1460	254