Part number correspondence table (GU series)

													Option	nal parts		
Power supply	Rated rotation speed (r/min)	output (W)	Motor	Gear head (Note 1)	Brushless amplifier	Brushless amplifier (supplied with power cable)	External regenerative resistor	Noise filter	Surge absorber	Reactor	M ext	Motor extension cable	Power supply connector kit	Console A (Note 2) Console A connection cable	Digital key pad (Note 3) Digital key pad connection cable	External speed setter
						Reference page P.102	P.99	P.95	P.95	P.101		P.97	—	P.96	P.96	P.99
		50	MBMU5AZAX	MX8G□B												
		50	MBMU5AZAS	_	MBEU5A1AAV											
Single		90	MBMU9A1AZ	MZ9G⊡B MY9G⊡B	MBEU9A1AAV	-		for single phase	for single phase power	for single phase power						
phase 100 V			MBMU9A1AS	_				power supply DV0P4170	supply	supply				Console A	Digital key pad	
		130	MBMU1E1AZ	MZ9G⊡B MY9G⊡B	MBEU1E1AAV				DV0F4130		DVOP	1 m DPQ1000110		Connection	DV0P3510	
	2000		MBMU1E1AS	—		No cotting	No sotting				DV0P	3 m 1 PQ1000130	No cotting	cable 1m	cable	0000020079
	3000	50	MBMU5AZAX	MX8G□B	MREUSASAAV	NO Setting	NO Setting				DV0P	5 m PQ1000150	NO Setting	DV0PM2006910 3 m	DV0P38310	DVUPINIZUU76
		50	MBMU5AZAS	_	WIDEUJAJAAV			for sinale	for single phase	for single phase		10 m		DV0PM2006930	DV0P38330	
Single/		90	MBMU9A2AZ	MZ9G⊡B MY9G⊡B	MBEU9A5AAV			phase power supply DV0P4170	power supply DV0P4190	power supply DV0P227				DV0PM2006950	5 m DV0P38350	
200 V			MBMU9A2AS	_				for 3-phase	for 3-phase	for 3-phase						
		130	MBMU1E2AZ	MZ9G⊡B MY9G⊡B	MBEU1E5AAV			DV0PM20042	supply	power supply DV0P220						
			MBMU1E2AS	-												

Wiring equipment

Selection of circuit breaker (MCCB), magnetic contactor and electric wire. (To check conformity with international standards, refer to P.121 Conformity with international safety standards.)

		MCCB (molded case	Magnetic contactor	Core of electric wire (mm ²)				
Single phase	Power capacity	circuit breaker) Rated current	Rated Current (Contact composition)	Main circuit, Grounding	Control circuit			
Single phase 100 V								
Single phase 200 V	50 W to 130 W	5 A	20 A (3P+1a)	0.5 (AWG20)	0.13 (AWG26)			
3-phase 200 V								

Be sure to connect the earth terminal to ground.

In wiring to power supply (outside of equipment) from MCCB, use an electric wire of 1.6 mm diameter (2.0 mm²) or more both for main circuit and grounding. Apply grounding class D (100 Ω or below) for grounding.

Selection of relay

A relay used in a control circuit, e.g. at the control input terminal should be small signal relay (Min. guaranteed current 1 mA or less) for positive contact.

<Example> Panasonic: DS type, HC type OMRON: G2A type

Selection of control circuit switch

When using a switch in place of relay, select a switch rated at minute electric current, to assure positive contact. <Example> Nihon Kaiheiki Ind.: M-2012J-G

• The wiring of SER and I/O connector

The wiring of SER and I/O connector should separate from power line to prevent malfunction.

• Wiring to the I/O connector

Permissible length for control signal cable is 3 m* or less.

* It is the maximum length in our evaluation environment, it does not guarantee the operation in customer's use environment.

(Note 1) A figure representing reduction ratio in \Box .

(Note 2) When using Console A, the Console A connection cable (DVOPM20069 * 0) is required. (Note 3) When using Digital key pad, the Digital key pad connection cable (DV0P383 * 0) is required. (Note 4) When connecting PC, the PC connection cable (DV0P4140) and the Digital key pad connection cable (DV0P383 * 0) are

required.

* When installing the reactor, refer to P.101.

* For details of cable, refer to P.96 to P.98.

- Be sure to use a set of matched components (series, power source, capacity, output, etc.)
- tion may fall down by its own weight as power is turned off.

Control signal cable	I/O connector kit	Panel connector kit	PC connection cable (Note 5)	Noise filter for signal line	DIN rail mounting unit
P.98	P.99	P.99	P.98	P.95	—
2 m DV0PM20076	DV0PM20070	DV0P3610 (Fits to (Console A)	1.5 m DV0P4140	DV0P1460	No setting

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• This motor is not provided with a holding brake. If it is used to drive a vertical shaft, the movable sec-

Part number correspondence table (GV series)

													Optio	nal parts		
Power supply	Rated rotation speed (r/min)	output (W)	Motor	Gear head (Note 1)	Brushless amplifier	Brushless amplifier (supplied with power cable) (Note 2)	External regenerative resistor	Noise filter	Surge absorber	Reactor		Motor extension cable	Power supply connector kit	Console A (Note 3) Console A connection cable	Digital key pad (Note 4) Digital key pad connection cable	External speed setter
						Reference page P.102	P.99	P.95	P.95	P:101		P.97	P.98	P.96	P.96	P.99
		50	MBMU5AZAX	MX8G□B	MREGENIBOV	MREG5A1BCVC										
		50	MBMU5AZAS	_	MBEGGAIDOV	MBEGGAIDOVO										
Single		90	MBMU9A1AZ	MZ9G⊡B MY9G⊡B	MBEG9A1BCV	MBEG9A1BCVC	for 100 V	for single phase	for single phase	for single phase						
phase 100 V			MBMU9A1AS	—			DV0P2890 powe	power supply DV0P4170	supply DV0P4190	supply				Console A DV0P3500 Connection	Digital key pad DV0P3510 Connection	
		130	MBMU1E1AZ	MZ9G⊡B MY9G⊡B	MBEG1E1BCV	MBEG1E1BCVC				DVUPZZI	1m DV0PQ1000110 3 m DV0PQ1000130	1 m DV0PQ1000110				
	3000		MBMU1E1AS	—									cable 1m	cable	DV0PM20078	
	3000	50	MBMU5AZAX	MX8G⊡B	MREG5A5BCV	MREGENERCVC				6		5 m DV0PQ1000150	DV0F2010	DV0PM2006910 3 m	DV0P38310	DVOPINIZOOIO
		50	MBMU5AZAS	_	NIDECISA 3DOV	MBEGGAGBOVO		for single	for single phase	phase		10 m	`	DV0PM2006930	DV0P38330	
Single/		90	MBMU9A2AZ	MZ9G⊡B MY9G⊡B	MBEG9A5BCV	MBEG9A5BCVC	for 200 V	phase power supply DV0P4170	power supply DV0P4190	supply DV0P227				DV0PM2006950	5 m DV0P38350	
3-phase 200 V			MBMU9A2AS	—			DV0PM20068	for 3-phase	for 3-phase	for 3-phase						
		130	MBMU1E2AZ	MZ9G⊟B MY9G⊟B	MBEG1E5BCV	MBEG1E5BCVC		power supply DV0PM20042	ply power supply DV0P1450	power supply DV0P220	er Jy					
130	130 Image: Market and Mar				DV0P220											

Wiring equipment

Selection of circuit breaker (MCCB), magnetic contactor and electric wire. (To check conformity with international standards, refer to P.121 Conformity with international safety standards.)

		MCCB (molded case	Magnetic contactor	Core of electric wire (mm ²)				
Single phase	Power capacity	circuit breaker) Rated current	Rated Current (Contact composition)	Main circuit, Grounding	Control circuit			
Single phase 100 V			<u> </u>					
Single phase 200 V	50 W to 130 W	5 A	20 A (3P+1a)	0.5 (AWG20)	0.13 (AWG26)			
3-phase 200 V								

Be sure to connect the earth terminal to ground.

In wiring to power supply (outside of equipment) from MCCB, use an electric wire of 1.6 mm diameter (2.0 mm²) or more both for main circuit and grounding. Apply grounding class D (100 Ω or below) for grounding.

Selection of relav

A relay used in a control circuit, e.g. at the control input terminal should be small signal relay (Min. guaranteed current 1 mA or less) for positive contact.

<Example> Panasonic: DS type, HC type OMRON: G2A type

Selection of control circuit switch

When using a switch in place of relay, select a switch rated at minute electric current, to assure positive contact. <Example> Nihon Kaiheiki Ind.: M-2012J-G

• The wiring of SER and I/O connector

The wiring of SER and I/O connector should separate from power line to prevent malfunction.

• Wiring to the I/O connector

Permissible length for control signal cable is 5 m or less.

(Note 1) A figure representing reduction ratio in \Box .

- (Note 2) Refer to P.102 for a power supply connecting cable. This part number is the ordering part number for the amplifier and power cable, not for ordering amplifier only.
 - using optional power connection kit (DV0P2870).
- (Note 3) When using Console A, the Console A connection cable (DV0PM20069 * 0) is required.
- (Note 4) When using Digital key pad, the Digital key pad connection cable (DV0P383 * 0) is required.
- (Note 5) When connecting PC, the PC connection cable (DV0P4140) and the Digital key pad connection cable (DV0P383 * 0) are required.
- * When installing the reactor, refer to P.101.
- * For details of cable, refer to P.96 to P.98.
 - Be sure to use a set of matched components (series, power source, capacity, output, etc.)
 - This motor is not provided with a holding brake. If it is used to drive a vertical shaft, the movable sec-
 - tion may fall down by its own weight as power is turned off.

Control signal cable	I/O connector kit	Panel connector kit	PC connection cable (Note 5)	Noise filter for signal line	DIN rail mounting unit
P.98	P.99	P.99	P.98	P.95	P.100
2 m DV0PM20076	DV0PM20070	DV0P3610 (Fits to (Console A)	1.5 m DV0P4140	DV0P1460	DV0P3811

The supplied power connecting cable is for single-phase input, when supplying three-phase power; please make a cable

GV series

Part number correspondence table (KV series)

													Optional	parts								
Power supply	Rated rotation speed (r/min)	output (W)	Motor (Note 1)	Gear head	Brushless amplifier	Brusł amp (supplie power (Not	hless lifier ed with cable)	External regenerative resistor	Noise filter	Surge absorber	Reactor	Motor extension cable	Power supply connector kit	Console A (Note 3) Console A connection cable	Digital key pad (Note 4) Digital key pad connection cable	External speed setter	Control signal cable	I/O connector kit	Panel connector o kit	PC connection cable (Note 5)	Noise filter for signal line	DIN rail mounting unit
						Reference page	P.102	P.99	P.95	P.95	P.101	P.97	P.98	P.96	P.96	P.99	P.98	P.99	P.99	P.98	P.95	P.100
Cingle		50	MBMS5AZBLO		MBEK5A1BCV	MBEK5	A1BCVC		for single	for single	for single		D\/0P2870									D\/0P3811
phase 100 V		100	MBMS011BLO		MBEK011BCV	MBEK0	11BCVC	for 100 V DV0P2890	phase power supply	power supply	power supply		2001 2010									Die con
100 1		200	MBMS021BLO		MBEK021BCV	_	-		DV0P4170	DV0P4190	DV0P227	1m	_	Console A DV0P3500	Digital key pad							—
		50	MBMS5AZBLO		MBEK5A5BCV	MBEK5A	A5BCVC		for single	for single	for single phase	DV0PQ1000310		Connection	DV0P3510							
Single/	3000	100	MBMS012BLO	No cotting	MBEK015BCV	MBEK01	15BCVC		phase power supply	power supply	supply	3 m DV0PQ1000330	0	cable 1m	cable		2 m			1.5 m		DV0F3011
3-phase 200 V	3000	200	MBMS022BLO	No setting	MBEK025BCV				DV0P4170 for 3-phase	DV0P4190 for 3-phase	for 3-phase	5 m DV0PQ1000350	o	DV0PM2006910 3 m	DV0P38310	DVUPINIZUUIO	DVUPINIZUUIO	DVOPINIZOUTO	(Fits to (Console A)	500-4140	DV0P 1400	
		400	MBMS042BLO		MBEK045BCV		_	for 200 V DV0PM20068	power supply DV0PM20042	power supply DV0P1450	power supply DV0P220	10 m DV0PQ10003A1	1	DV0PM2006930 5 m DV0PM2006950	DV0P38330 5 m DV0P38350							
3-phase 200 V		750	MBMS082BLO		MBEK083BCV				for 3-phase power supply DV0PM20042	for 3-phase power supply DV0P1450	for 3-phase power supply DV0P221											

Wiring equipment

Selection of circuit breaker (MCCB), magnetic contactor and electric wire. (To check conformity with international standards, refer to P.121 Conformity with international safety standards.)

		MCCB (molded case	Magnetic contactor	Core of electric wire (mm ²)				
Single phase	Power capacity	circuit breaker) Rated current	Rated Current (Contact composition)	Main circuit, Grounding	Control circuit			
Single phase 100 V								
Single phase 200 V	50 W, 100 W	5 A		0.5 (AWG20)				
3-phase 200 V								
Single phase 100 V	200 W	10 A	20 A		012 (000226)			
	200 W	5 A	(3P+1a)		0.13 (AVVG20)			
Single phase 200 v	400 W	10 A		0.75 (AWG18)				
2 phase 200 V	200 W, 400 W	5 A						
3-phase 200 v	750 W	10 A						

Be sure to connect the earth terminal to ground.

In wiring to power supply (outside of equipment) from MCCB, use an electric wire of 1.6 mm diameter (2.0 mm²) or more both for main circuit and grounding. Apply grounding class D (100 Ω or below) for grounding.

Selection of relay

A relay used in a control circuit, e.g. at the control input terminal should be small signal relay (Min. guaranteed current 1 mA or less) for positive contact.

<Example> Panasonic: DS type, HC type OMRON: G2A type

Selection of control circuit switch

When using a switch in place of relay, select a switch rated at minute electric current, to assure positive contact. <Example> Nihon Kaiheiki Ind.: M-2012J-G

• The wiring of SER and I/O connector

Keep the cables connected to the POWER connector (50 W, 100 W), POWER terminal block (200 W to 750 W), the MOTOR connector away from the SER connector, and the cable connected to the I/O connector.

• Wiring to the I/O connector

Permissible length for control signal cable is 5 m or less.

(Note 1) O: Refer to the table below.

			Shaft shape	
		Round	Keyway, center tap	D-cut
Oilead	Without	А	S	N
Oirsear	With	С	U	Q

(Note 2) Refer to P.102 for a power supply connecting cable.

using optional power connection kit (DV0P2870).

(Note 3) When using Console A, the Console A connection cable (DV0PM20069 * 0) is required. (Note 4) When using Digital key pad, the Digital key pad connection cable (DV0P383 * 0) is required.

reauired.

* When installing the reactor, refer to P.101.

* For details of cable, refer to P.96 to P.98.

• Be sure to use a set of matched components (series, power source, capacity, output, etc.) • This motor is not provided with a holding brake. If it is used to drive a vertical shaft, the movable section may fall down by its own weight as power is turned off.

This part number is the ordering part number for the amplifier and power cable, not for ordering amplifier only.

The supplied power connecting cable is for single-phase input, when supplying three-phase power; please make a cable

- (Note 5) When connecting PC, the PC connection cable (DV0P4140) and the Digital key pad connection cable (DV0P383 * 0) are

Part number correspondence table (GP series)

													Optional parts								
Power supply	Rated rotation speed (r/min)	output (W)	Motor	Gear head (Note 1)	Brushless amplifier	Brushless amplifier (supplied with power cable) (Note 2)	External regenerative resistor	e Noise filter	Surge absorber	Reactor	Motor extension cable	Power supply connector kit	Console A Console A connection cable	Digital key pad (Note 3) Digital key pad connection cable	External speed setter	Control signal cable	I/O connector kit	Panel connector kit	PC connection cable (Note 5)	Noise filter for signal line	DIN rail mounting unit
						Reference page P.102	P.99	P.95	P.95	P.101	P.97	P.98	_	P.96	—	P.98	P.99	—	P.98	P.95	P.100
		50	MBMU5AZAB	MB8G⊡BV	MBEG5A1BCP	MBEG5A1BCPC	;	for single	for single	for single											
Single phase 100 V		90	MBMU9A1AB	MB9G⊡BV	MBEG9A1BCP	MBEG9A1BCPC	for 100 V DV0P2890	phase power supply	phase power supply	phase power supply	1m			Digital key pad DV0P3510							
		130	MBMU1E1AB	MB9G⊡BV	MBEG1E1BCP	MBEG1E1BCPC	;	DV0P4170	DV0P4190	DV0P227	DV0PQ1000110 3 m DV0PQ1000130			Connection		2 m			1.5 m		
	3000	50	MBMU5AZAB	MB8G⊡BV	MBEG5A5BCP	MBEG5A5BCPC		for single	for single phase	for single phase power	5 m DV0PQ1000150	DV0P2870	No setting	1m DV0P38310	No setting	DV0PM20076	DV0PM20070	No setting	DV0P4140	DV0P1460	DV0P3811
Single/ 3-phase		90	MBMU9A2AB	MB9G⊡BV	MBEG9A5BCP	MBEG9A5BCPC	for 200 V DV0PM20068	power supply	bower supply DV0P4190	supply DV0P227 for	10 m DV0PQ10001A1			3 m DV0P38330 5 m							
3-phase 200 V		130	MBMU1E2AB	MB9G⊡BV	MBEG1E5BCP	MBEG1E5BCPC	;	for 3-phasefor 3-phapower supplypowerDV0PM20042supplyDV0P145	power supply DV0P1450	· 3-phase power supply· IOI 3-phase power supplyv0P1450DV0P220				DV0P38350							

Wiring equipment

Selection of circuit breaker (MCCB), magnetic contactor and electric wire. (To check conformity with international standards, refer to P.121 Conformity with international safety standards.)

		MCCB (molded case	Magnetic contactor	Core of electric wire (mm ²)				
Single phase	Power capacity	circuit breaker) Rated current	Rated Current (Contact composition)	Main circuit, Grounding	Control circuit			
Single phase 100 V			00.4					
Single phase 200 V	50 W to 130 W	5 A	20 A (3P+1a)	0.5 (AWG20)	0.13 (AWG26)			
3-phase 200 V								

Be sure to connect the earth terminal to ground.

In wiring to power supply (outside of equipment) from MCCB, use an electric wire of 1.6 mm diameter (2.0 mm²) or more both for main circuit and grounding. Apply grounding class D (100 Ω or below) for grounding.

Selection of relay

A relay used in a control circuit, e.g. at the control input terminal should be small signal relay (Min. guaranteed current 1 mA or less) for positive contact.

<Example> Panasonic: DS type, HC type OMRON: G2A type

• Selection of control circuit switch

When using a switch in place of relay, select a switch rated at minute electric current, to assure positive contact. <Example> Nihon Kaiheiki Ind.: M-2012J-G

• The wiring of SER and I/O connector

The wiring of SER and I/O connector should separate from power line to prevent malfunction.

• Wiring to the I/O connector

Permissible length for control signal cable is 5 m or less.

(Note 1) A figure representing reduction ratio in \Box .

- (Note 2) Refer to P.102 for a power supply connecting cable. This part number is the ordering part number for the amplifier and power cable, not for ordering amplifier only. using optional power connection kit (DV0P2870).
- (Note 3) When using Digital key pad, the Digital key pad connection cable (DV0P383 * 0) is required.
- (Note 4) When connecting PC, the PC connection cable (DV0P4140) and the Digital key pad connection cable (DV0P383 * 0) are required.
- * When installing the reactor, refer to P.101.
- * For details of cable, refer to P.96 to P.98.
 - Be sure to use a set of matched components (series, power source, capacity, output, etc.)

 - tion may fall down by its own weight as power is turned off.

The supplied power connecting cable is for single-phase input, when supplying three-phase power; please make a cable

• This motor is not provided with a holding brake. If it is used to drive a vertical shaft, the movable sec-

GP series