

# Table of Part Numbers and Options

| Power supply      | Motor series          | Rated rotational speed (r/min) | Output (W) | 2500P/r, Incremental |                     |                       | 17bit, Absolute/Incremental common |                     |                       |                       | 2500P/r and 17bit common |              |
|-------------------|-----------------------|--------------------------------|------------|----------------------|---------------------|-----------------------|------------------------------------|---------------------|-----------------------|-----------------------|--------------------------|--------------|
|                   |                       |                                |            | Motor Note) 1        | Rating/Spec. (page) | Encoder cable Note) 2 | Motor Note) 1                      | Rating/Spec. (page) | Encoder cable Note) 2 | Encoder cable Note) 2 | Driver                   | Frame symbol |
| Single phase 200V | MAMA Ultra            | 5000                           | 100        | MAMA012P1            | A4-49               |                       | MAMA012S1                          | A4-49               |                       |                       | MADDT1207P               | A-frame      |
|                   |                       |                                | 200        | MAMA022P1            | A4-49               |                       | MAMA022S1                          | A4-49               |                       |                       | MBDDT2210P               | B-frame      |
|                   |                       |                                | 400        | MAMA042P1            | A4-49               |                       | MAMA042S1                          | A4-49               |                       |                       | MCDDT3520P               | C-frame      |
|                   |                       |                                | 750        | MAMA082P1            | A4-49               |                       | MAMA082S1                          | A4-49               |                       |                       | MDDDT5540P               | D-frame      |
|                   |                       |                                | 400        | MAMA042P1            | A4-49               |                       | MAMA042S1                          | A4-49               |                       |                       | MCDDT3520P               | C-frame      |
| 3-phase, 200V     | low inertia           |                                | 750        | MAMA082P1            | A4-49               |                       | MAMA082S1                          | A4-49               |                       | MDDDT5540P            | D-frame                  |              |
| Single phase 100V | MSMD Low inertia      |                                | 50         | MSMD5AZP1            | A4-51               |                       | MSMD5AZS1                          | A4-51               |                       |                       | MADDT1105P               | A-frame      |
|                   |                       |                                | 100        | MSMD011P1            | A4-51               |                       | MSMD011S1                          | A4-51               |                       |                       | MADDT1107P               |              |
|                   |                       |                                | 200        | MSMD021P1            | A4-53               |                       | MSMD021S1                          | A4-53               |                       |                       | MBDDT2110P               | B-frame      |
|                   |                       |                                | 400        | MSMD041P1            | A4-53               |                       | MSMD041S1                          | A4-53               |                       |                       | MCDDT3120P               | C-frame      |
|                   | MQMA Low inertia Flat |                                | 100        | MQMA011P1            | A4-59               | MFECA 0**0EAM         | MQMA011S1                          | A4-59               | MFECA 0**0EAE         | MFECA 0**0EAD         | MADDT1107P               | A-frame      |
|                   |                       |                                | 200        | MQMA021P1            | A4-59               |                       | MQMA021S1                          | A4-59               |                       |                       | MBDDT2110P               | B-frame      |
|                   |                       |                                | 400        | MQMA041P1            | A4-59               |                       | MQMA041S1                          | A4-59               |                       |                       | MCDDT3120P               | C-frame      |
| Single phase 200V | MSMD Low inertia      | 3000                           | 50         | MSMD5AZP1            | A4-55               |                       | MSMD5AZS1                          | A4-55               |                       |                       | MADDT1205P               | A-frame      |
|                   |                       |                                | 100        | MSMD012P1            | A4-55               |                       | MSMD012S1                          | A4-55               |                       |                       | MADDT1207P               |              |
|                   |                       |                                | 200        | MSMD022P1            | A4-57               |                       | MSMD022S1                          | A4-57               |                       |                       | MBDDT2210P               | B-frame      |
|                   |                       |                                | 400        | MSMD042P1            | A4-57               |                       | MSMD042S1                          | A4-57               |                       |                       | MCDDT3520P               | C-frame      |
|                   |                       |                                | 750        | MSMD082P1            | A4-57               |                       | MSMD082S1                          | A4-57               |                       |                       |                          |              |
|                   | MQMA Low inertia Flat |                                | 100        | MQMA012P1            | A4-61               |                       | MQMA012S1                          | A4-61               |                       |                       | MADDT1205P               | A-frame      |
|                   |                       |                                | 200        | MQMA022P1            | A4-61               |                       | MQMA022S1                          | A4-61               |                       |                       | MADDT1207P               | B-frame      |
|                   |                       |                                | 400        | MQMA042P1            | A4-61               |                       | MQMA042S1                          | A4-61               |                       |                       | MBDDT2210P               | B-frame      |
|                   | MSMA Low inertia      |                                | 1000       | MSMA102P1            | A4-63               |                       | MSMA102S1                          | A4-63               |                       |                       | MDDDT5540P               |              |
|                   |                       |                                | 1500       | MSMA152P1            | A4-63               |                       | MSMA152S1                          | A4-63               |                       |                       |                          |              |
|                   | MDMA Middle inertia   | 2000                           | 1000       | MDMA102P1            | A4-67               |                       | MDMA102S1                          | A4-67               |                       |                       | MDDDT3530P               | D-frame      |
|                   |                       |                                | 1500       | MDMA152P1            | A4-67               |                       | MDMA152S1                          | A4-67               |                       |                       |                          |              |
|                   | MGMA Middle inertia   | 1000                           | 900        | MGMA092P1            | A4-73               | MFECA 0**0ESD         | MGMA092S1                          | A4-73               | MFECA 0**0ESE         | MFECA 0**0ESD         | MDDDT5540P               |              |
|                   | MFMA Middle inertia   | 2000                           | 400        | MFMA042P1            | A4-77               |                       | MFMA042S1                          | A4-77               |                       |                       | MCDDT3520P               | C-frame      |
|                   |                       |                                | 1500       | MFMA152P1            | A4-77               | MFMA152S1             | A4-77                              | MDDDT5540P          | D-frame               |                       |                          |              |
| MHMA High inertia | 2000                  | 500                            | MHMA052P1  | A4-81                |                     | MHMA052S1             | A4-81                              |                     |                       | MCDDT3520P            | C-frame                  |              |
|                   |                       | 1000                           | MHMA102P1  | A4-81                |                     | MHMA102S1             | A4-81                              |                     |                       | MDDDT3530P            | D-frame                  |              |
| 1500              | MHMA152P1             | A4-81                          |            | MHMA152S1            | A4-81               |                       |                                    | MDDDT5540P          |                       |                       |                          |              |
| 3-phase, 200V     | MSMD Low inertia      | 3000                           | 750        | MSMD082P1            | A4-57               | MFECA 0**0EAM         | MSMD082S1                          | A4-57               | MFECA 0**0EAE         | MFECA 0**0EAD         | MCDDT3520P               | C-frame      |
|                   |                       |                                | 1000       | MSMA102P1            | A4-63               |                       | MSMA102S1                          | A4-63               |                       |                       | MDDDT5540P               | D-frame      |
|                   | MSMA Low inertia      | 3000                           | 1500       | MSMA152P1            | A4-63               |                       | MSMA152S1                          | A4-63               |                       |                       | MDDDT5540P               | D-frame      |
|                   |                       |                                | 2000       | MSMA202P1            | A4-63               |                       | MSMA202S1                          | A4-63               |                       |                       | MEDDT7364P               | E-frame      |
|                   |                       |                                | 3000       | MSMA302P1            | A4-65               |                       | MSMA302S1                          | A4-65               |                       |                       | MFDDTA390P               |              |
|                   |                       |                                | 4000       | MSMA402P1            | A4-65               |                       | MSMA402S1                          | A4-65               |                       |                       | MFDDTB3A2P               | F-frame      |
|                   |                       |                                | 5000       | MSMA502P1            | A4-65               |                       | MSMA502S1                          | A4-65               |                       |                       |                          |              |
|                   | MDMA Middle inertia   | 2000                           | 1000       | MDMA102P1            | A4-67               |                       | MDMA102S1                          | A4-67               |                       |                       | MDDDT3530P               | D-frame      |
|                   |                       |                                | 1500       | MDMA152P1            | A4-67               |                       | MDMA152S1                          | A4-67               |                       |                       | MDDDT5540P               |              |
|                   |                       |                                | 2000       | MDMA202P1            | A4-69               |                       | MDMA202S1                          | A4-69               |                       |                       | MEDDT7364P               | E-frame      |
|                   |                       |                                | 3000       | MDMA302P1            | A4-69               |                       | MDMA302S1                          | A4-69               |                       |                       | MFDDTA390P               |              |
|                   |                       |                                | 4000       | MDMA402P1            | A4-71               |                       | MDMA402S1                          | A4-71               |                       |                       | MFDDTB3A2P               | F-frame      |
|                   | MGMA Middle inertia   | 1000                           | 900        | MGMA092P1            | A4-73               | MFECA 0**0ESD         | MGMA092S1                          | A4-73               | MFECA 0**0ESE         | MFECA 0**0ESD         | MDDDT5540P               | D-frame      |
|                   |                       |                                | 2000       | MGMA202P1            | A4-73               |                       | MGMA202S1                          | A4-73               |                       |                       | MFDDTA390P               |              |
|                   |                       |                                | 3000       | MGMA302P1            | A4-75               |                       | MGMA302S1                          | A4-75               |                       |                       | MFDDTB3A2P               | F-frame      |
|                   |                       |                                | 4500       | MGMA452P1            | A4-75               |                       | MGMA452S1                          | A4-75               |                       |                       |                          |              |
|                   | MFMA Middle inertia   |                                | 400        | MFMA042P1            | A4-77               |                       | MFMA042S1                          | A4-77               |                       |                       | MCDDT3520P               | C-frame      |
|                   |                       |                                | 1500       | MFMA152P1            | A4-77               |                       | MFMA152S1                          | A4-77               |                       |                       | MDDDT5540P               | D-frame      |
|                   |                       |                                | 2500       | MFMA252P1            | A4-79               |                       | MFMA252S1                          | A4-79               |                       |                       | MEDDT7364P               | E-frame      |
|                   |                       |                                | 4500       | MFMA452P1            | A4-79               |                       | MFMA452S1                          | A4-79               |                       |                       | MFDDTB3A2P               | F-frame      |
| MHMA High inertia | 2000                  | 500                            | MHMA052P1  | A4-81                |                     | MHMA052S1             | A4-81                              |                     |                       | MCDDT3520P            | C-frame                  |              |
|                   |                       | 1000                           | MHMA102P1  | A4-81                |                     | MHMA102S1             | A4-81                              |                     |                       | MDDDT3530P            | D-frame                  |              |
|                   |                       | 1500                           | MHMA152P1  | A4-81                |                     | MHMA152S1             | A4-81                              |                     |                       | MDDDT5540P            |                          |              |
|                   |                       | 2000                           | MHMA202P1  | A4-83                |                     | MHMA202S1             | A4-83                              |                     |                       | MEDDT7364P            | E-frame                  |              |
|                   |                       | 3000                           | MHMA302P1  | A4-83                |                     | MHMA302S1             | A4-83                              |                     |                       | MFDDTA390P            |                          |              |
|                   |                       | 4000                           | MHMA402P1  | A4-83                |                     | MHMA402S1             | A4-83                              |                     |                       | MFDDTB3A2P            | F-frame                  |              |
| 5000              | MHMA502P1             | A4-83                          |            | MHMA502S1            | A4-83               |                       |                                    |                     |                       |                       |                          |              |

| Optional parts |                        |  |                        |                          |         |              |
|----------------|------------------------|--|------------------------|--------------------------|---------|--------------|
|                | Motor cable<br>Note) 2 | Motor cable<br>(with brake)<br>Note) 2 | Brake cable<br>Note) 2 | Regenerative<br>resistor | Reactor | Noise filter |
|                |                        |  |                        | DV0P4283                 | DV0P220 | DV0P4170     |
|                |                        |  |                        |                          | DV0P221 | DV0P4180     |
|                |                        |  |                        | DV0P4284                 |         | DV0P4220     |
|                |                        |  |                        | DV0P4283                 | DV0P220 | DV0P4180     |
|                |                        |  |                        | DV0P4284                 | DV0P221 | DV0P4220     |
|                |                        |  |                        | DV0P4280                 | DV0P227 | DV0P4170     |
|                |                        |  |                        | DV0P4283                 |         |              |
|                |                        |  |                        | DV0P4282                 | DV0P228 | DV0P4180     |
|                | MFMCA                  | —                                      | MFMCB                  | DV0P4280                 | DV0P227 | DV0P4170     |
|                | 0**0EED                |  | 0**0GET                | DV0P4283                 |         |              |
|                |                        |  |                        | DV0P4282                 | DV0P228 | DV0P4180     |
|                |                        |  |                        | DV0P4281                 | DV0P220 | DV0P4170     |
|                |                        |  |                        |                          | DV0P221 | DV0P4180     |
|                |                        |  |                        | DV0P4281                 | DV0P220 | DV0P4170     |
|                |                        |  |                        | DV0P4283                 | DV0P221 | DV0P4180     |
|                |                        |  |                        |                          |         |              |
|                | MFMCD                  |  |                        | DV0P4284                 | DV0P222 | DV0P4220     |
|                | 0**2ECD                |  |                        |                          |         |              |
|                |                        | MFMCA                                  | —                      |                          |         |              |
|                |                        | 0**2FCD                                |                        |                          |         |              |
|                | MFMCA                  |  |                        | DV0P4283                 | DV0P220 | DV0P4180     |
|                | 0**2ECD                |  |                        | DV0P4284                 | DV0P222 | DV0P4220     |
|                |                        |  |                        | DV0P4283                 | DV0P220 | DV0P4180     |
|                | MFMCD                  |  |                        | DV0P4284                 | DV0P222 | DV0P4220     |
|                | 0**2ECD                |  |                        |                          |         |              |
|                | MFMCA                  | —                                      | MFMCB                  | DV0P4283                 | DV0P221 | DV0P4180     |
|                | 0**0EED                |  | 0**0GET                |                          |         |              |
|                | MFMCD                  | MFMCA                                  |                        | DV0P4284                 | DV0P222 | DV0P4220     |
|                | 0**2ECD                | 0**2FCD                                |                        |                          |         |              |
|                | MFMCD0**2ECT           | MFMCA0**2FCT                           |                        | DV0P4285                 | DV0P223 |              |
|                |                        |  |                        | DV0P4285                 | DV0P224 |              |
|                | MFMCA                  | MFMCA                                  |                        | DV0P4285                 | DV0P225 | DV0P3410     |
|                | 0**3ECT                | 0**3FCT                                |                        | X2 in parallel           | —       |              |
|                | MFMCD                  | MFMCA                                  |                        | DV0P4284                 | DV0P222 | DV0P4220     |
|                | 0**ECD                 | 0**2FCD                                |                        |                          |         |              |
|                | MFMCD**2ECT            | MFMCA0**2FCT                           |                        | DV0P4285                 | DV0P223 |              |
|                |                        |  |                        |                          | DV0P224 |              |
|                | MFMCA                  | MFMCA                                  |                        | DV0P4285                 | DV0P225 | DV0P3410     |
|                | 0**3ECT                | 0**3FCT                                |                        | X2 in parallel           | —       |              |
|                | MFMCD0**2ECD           | MFMCA0**2FCD                           | —                      | DV0P4284                 | DV0P222 | DV0P4220     |
|                |                        |  |                        |                          | DV0P223 |              |
|                | MFMCA                  | MFMCA                                  |                        | DV0P4285                 | DV0P224 | DV0P3410     |
|                | 0**3ECT                | 0**3FCT                                |                        | X2 in parallel           | —       |              |
|                |                        |  |                        |                          |         |              |
|                | MFMCA                  | MFMCA                                  |                        | DV0P4283                 | DV0P220 | DV0P4180     |
|                | 0**2ECD                | 0**2FCD                                |                        | DV0P4284                 | DV0P222 | DV0P4220     |
|                |                        |  |                        | DV0P4285                 | DV0P224 |              |
|                | MFMCD                  | MFMCA                                  |                        | DV0P4285                 | —       | DV0P3410     |
|                | 0**3ECT                | 0**3FCT                                |                        | X2 in parallel           |         |              |
|                |                        |  |                        |                          |         |              |
|                | MFMCD                  | MFMCA                                  |                        | DV0P4283                 | DV0P220 | DV0P4180     |
|                | 0**2ECD                | 0**2FCD                                |                        | DV0P4284                 | DV0P222 | DV0P4220     |
|                |                        |  |                        | DV0P4285                 | DV0P223 |              |
|                |                        |  |                        |                          | DV0P224 |              |
|                | MFMCA                  | MFMCA                                  |                        | DV0P4285                 | DV0P225 | DV0P3410     |
|                | 0**3ECT                | 0**3FCT                                |                        | X2 in parallel           | —       |              |

## ● Carrying page

| Options  |                         | Part No.             | Carrying page |
|--|-------------------------|----------------------|---------------|
| Instruction manual                                 | Japanese                | DV0P4480             | —             |
|  | English                 | DV0P4490             | —             |
| Console  |                         | DV0P4420             | A4-124        |
| Setup support software, PANATERM®                  | Japanese                | DV0P4460             | A4-123        |
|  | English                 |                      |               |
| RS232 communication cable (for connection with PC) |                         | DV0P1960             | A4-119        |
| Interface cable                                    |                         | DV0P4510             | A4-119        |
| Connector kit for external equipment               |                         | DV0P4500             | A4-118        |
| Connector kit for motor and encoder                |                         | DV0P4290             | A4-120        |
|  |                         | DV0P4380             |               |
|  |                         | DV0P4310             |               |
|  |                         | DV0P4320             | A4-121        |
|  |                         | DV0P4330             |               |
| Battery for absolute encoder                       |                         | DV0P2990             | A4-126        |
| Mounting bracket                                   | Frame A                 | DV0P4271             |               |
|  | Frame B                 | DV0P4272             | A4-123        |
|  | Frame C                 | DV0P4273             |               |
|  | Frame D                 | DV0P4274             |               |
| Encoder cable                                      | MFECA0**0EAD            |                      | A4-115        |
|  | MFECA0**0EAE            |                      |               |
|  | MFECA0**0EAM            |                      |               |
|  | MFECA0**0ESD            |                      |               |
| Motor cable  | MFECA0**0ESE            |                      |               |
|  | MFMCA0**0EED            |                      | A4-116        |
|  | MFMCA0**2ECD            |                      |               |
|  | MFMCA0**3ECT            |                      |               |
|  | MFMCD0**2ECD            |                      |               |
| Motor cable (with brake)                           | MFMCD0**2ECT            |                      |               |
|  | MFMCA0**2FCD            |                      | A4-117        |
|  | MFMCA0**2FCT            |                      |               |
| Brake cable  | MFMCA0**3FCT            |                      |               |
|  | MFMCB0**0GET            |                      | A4-117        |
| Regenerative resistor                              | 50 Ω, 25W               | DV0P4280             |               |
|  | 100 Ω, 25W              | DV0P4281             |               |
|  | 25 Ω, 50W               | DV0P4282             | A4-125        |
|  | 50 Ω, 50W               | DV0P4283             |               |
|  | 30 Ω, 100W              | DV0P4284             |               |
|  | 20 Ω, 130W              | DV0P4285             |               |
| Reactor  |                         | DV0P220 to DV0P228   | A4-124        |
| Noise filter                                       |                         | DV0P4170 to DV0P4220 | A4-110        |
| Surge absorber                                     | Single phase 100V, 200V | DV0P4190             | A4-111        |
|  | 3-phase 200V            | DV0P1450             |               |
| Noise filter for signal wire                       |                         | DV0P1460             | A4-111        |

Note) 1. □ represents the motor structure.

Note) 2. \*\* represents the cable length (specified value)  
For details, refer to cable specifications (A4-113).