

| Project:               | Sub Project /part                                      |
|------------------------|--------------------------------------------------------|
| MAP Safety Drive AKD2G | Product codes<br>230000-007_AKD2G_product_code_00.docx |

This report is a "local" pdf printout out of the Kollmorgen Sub-version (svn) for Hardware projects. The latest version and the document history can be found in the svn.

<https://sbavsvap01.dhrrmotion.com/svn/SBASVN01/Hardware/trunk/Projects/MAP/Docs/Specifications/Sy stem>

For more information, please refer to document: Using Sub-version for hardware projects.

## 1 Type certification summary

| No | Type                      | DRIVE HW rev | DRIVE SMM FW rev                                                                                           |
|----|---------------------------|--------------|------------------------------------------------------------------------------------------------------------|
| 1  | AKD2G-SPv-6V03S-A1yy-zzzz | A            | N/A                                                                                                        |
| 2  | AKD2G-SPv-6V06S-A1yy-zzzz |              |                                                                                                            |
| 3  | AKD2G-SPv-6V12S-A1yy-zzzz |              |                                                                                                            |
| 4  | AKD2G-SPv-6V03D-A1yy-zzzz |              |                                                                                                            |
| 5  | AKD2G-SPv-6V06D-A1yy-zzzz |              |                                                                                                            |
| 6  | AKD2G-SPv-7V03S-A1yy-zzzz |              |                                                                                                            |
| 7  | AKD2G-SPv-7V06S-A1yy-zzzz |              |                                                                                                            |
| 8  | AKD2G-SPv-7V12S-A1yy-zzzz |              |                                                                                                            |
| 9  | AKD2G-SPv-7V24S-A1yy-zzzz |              |                                                                                                            |
| 10 | AKD2G-SPv-7V03D-A1yy-zzzz |              |                                                                                                            |
| 11 | AKD2G-SPv-7V06D-A1yy-zzzz |              |                                                                                                            |
| 12 | AKD2G-SPv-6V03S-A2yy-zzzz |              | Safety FW: 1.04 with<br>Drive FW: M_02-05-03-002<br>or<br>Safety FW: 1.04 with<br>Drive FW: M_02-10-00-103 |
| 13 | AKD2G-SPv-6V06S-A2yy-zzzz |              |                                                                                                            |
| 14 | AKD2G-SPv-6V12S-A2yy-zzzz |              |                                                                                                            |
| 15 | AKD2G-SPv-6V03D-A2yy-zzzz |              |                                                                                                            |
| 16 | AKD2G-SPv-6V06D-A2yy-zzzz |              |                                                                                                            |
| 17 | AKD2G-SPv-7V03S-A2yy-zzzz |              |                                                                                                            |
| 18 | AKD2G-SPv-7V06S-A2yy-zzzz |              |                                                                                                            |
| 19 | AKD2G-SPv-7V12S-A2yy-zzzz |              |                                                                                                            |
| 20 | AKD2G-SPv-7V03D-A2yy-zzzz |              |                                                                                                            |
| 21 | AKD2G-SPv-7V06D-A2yy-zzzz |              |                                                                                                            |
| 22 | AKD2G-SPv-6V03S-A3yy-zzzz |              |                                                                                                            |
| 23 | AKD2G-SPv-6V06S-A3yy-zzzz |              |                                                                                                            |
| 24 | AKD2G-SPv-6V12S-A3yy-zzzz |              |                                                                                                            |
| 25 | AKD2G-SPv-6V03D-A3yy-zzzz |              |                                                                                                            |
| 26 | AKD2G-SPv-6V06D-A3yy-zzzz |              |                                                                                                            |
| 27 | AKD2G-SPv-7V03S-A3yy-zzzz |              |                                                                                                            |
| 28 | AKD2G-SPv-7V06S-A3yy-zzzz |              |                                                                                                            |
| 29 | AKD2G-SPv-7V12S-A3yy-zzzz |              |                                                                                                            |
| 30 | AKD2G-SPv-7V03D-A3yy-zzzz |              |                                                                                                            |
| 31 | AKD2G-SPv-7V06D-A3yy-zzzz |              |                                                                                                            |

Part number code:

With v = C, E, I, N, P (for more details see chapter 5.1)

With yy = 00, F3, IO, DX (for more details see chapter 5.1)

With z = any letters or numbers (not safety relevant). E.g. first z is A for conformal coating PCBA's inside

# Report

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Rev: **M1**

**KOLLMORGEN**®

| No        | Type                             | POWER BOARD,<br>MV & HV                                 | CONTROL BOARD                                                                                                                                                                          | PASS-THROUGH BOARD                                                                       | SMM BOARD                    |                                               |
|-----------|----------------------------------|---------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|------------------------------|-----------------------------------------------|
| Schematic |                                  |                                                         |                                                                                                                                                                                        |                                                                                          |                              |                                               |
| 1         | AKD2G-SPv-6V03S-Axyy-zzzz        | 9DS0-<br>0193_MAP_MV12_Power<br><br>r6B<br>or<br>r7B /C | 9DS0-<br>0185_MAPC_CONTROL<br><br>r7B<br>or<br>9DS0-0220 SCHEMATIC,<br>AKD2G CONTROL2<br>BOARD<br>R3B<br>or<br>FOR FS1 ONLY;<br>9DS0-0220 SCHEMATIC,<br>AKD2G CONTROL2<br>BOARD<br>R2A | 9DS0-<br>0198_MAPC_PASSTHRPS<br><br>r4B<br>or<br>9DS0-<br>0198_MAPC_PASSTHRPS<br><br>r4C | 9DS0-0189_MAP SMM<br><br>r4B |                                               |
| 2         | AKD2G-SPv-6V06S-Axyy-zzzz        |                                                         |                                                                                                                                                                                        |                                                                                          |                              |                                               |
| 3         | AKD2G-SPv-6V12S-Axyy-zzzz        |                                                         |                                                                                                                                                                                        |                                                                                          |                              |                                               |
| 4         | AKD2G-SPv-6V03D-Axyy-zzzz        |                                                         |                                                                                                                                                                                        |                                                                                          |                              |                                               |
| 5         | AKD2G-SPv-6V06D-Axyy-zzzz        |                                                         |                                                                                                                                                                                        |                                                                                          |                              |                                               |
| 6         | AKD2G-SPv-7V03S-Axyy-zzzz        | 9DS0-<br>0192_MAP_HV12_Power<br><br>r7C /D              |                                                                                                                                                                                        |                                                                                          |                              |                                               |
| 7         | AKD2G-SPv-7V06S-Axyy-zzzz        |                                                         |                                                                                                                                                                                        |                                                                                          |                              |                                               |
| 8         | AKD2G-SPv-7V12S-Axyy-zzzz        |                                                         |                                                                                                                                                                                        |                                                                                          |                              |                                               |
| 9         | AKD2G-SPv-7V03D-Axyy-zzzz        |                                                         |                                                                                                                                                                                        |                                                                                          |                              |                                               |
| 10        | AKD2G-SPv-7V06D-Axyy-zzzz        |                                                         |                                                                                                                                                                                        |                                                                                          |                              |                                               |
| 11        | <u>AKD2G-SPv-7V24S-Axyy-zzzz</u> | <u>9DS0-<br/>0192_MAP_HV24_Power</u><br><br>R4A         | <u>9DS0-0220 SCHEMATIC,<br/>AKD2G CONTROL2<br/>BOARD<br/>R3B</u>                                                                                                                       |                                                                                          |                              | <u>This combination not<br/>certified yet</u> |

| PCB |                                  |                                                      |                                                                                                             |                       |                                           |
|-----|----------------------------------|------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|-----------------------|-------------------------------------------|
| 1   | AKD2G-SPv-6V03S-Axyy-zzzz        | PCB: 1107-0188 REV 6A<br>Or<br>PCB: 1107-0188 REV 7A | PCB: 1107-0180 REV 7A<br>Or<br>PCB: 1107-0213 REV 3A<br>Or<br><b>FOR FS1 ONLY:</b><br>PCB: 1107-0213 REV 2A | PCB: 1107-0179 REV 4A | PCB: 1107-0184 REV 4A                     |
| 2   | AKD2G-SPv-6V06S-Axyy-zzzz        |                                                      |                                                                                                             |                       |                                           |
| 3   | AKD2G-SPv-6V12S-Axyy-zzzz        |                                                      |                                                                                                             |                       |                                           |
| 4   | AKD2G-SPv-6V03D-Axyy-zzzz        |                                                      |                                                                                                             |                       |                                           |
| 5   | AKD2G-SPv-6V06D-Axyy-zzzz        |                                                      |                                                                                                             |                       |                                           |
| 6   | AKD2G-SPv-7V03S-Axyy-zzzz        | PCB: 1107-0187 REV 7A                                |                                                                                                             |                       |                                           |
| 7   | AKD2G-SPv-7V06S-Axyy-zzzz        |                                                      |                                                                                                             |                       |                                           |
| 8   | AKD2G-SPv-7V12S-Axyy-zzzz        |                                                      |                                                                                                             |                       |                                           |
| 9   | AKD2G-SPv-7V03D-Axyy-zzzz        |                                                      |                                                                                                             |                       |                                           |
| 10  | AKD2G-SPv-7V06D-Axyy-zzzz        |                                                      |                                                                                                             |                       |                                           |
| 11  | <u>AKD2G-SPv-7V24S-Axyy-zzzz</u> | <u>PCB: 1107-0208 -REV 4A</u>                        | <u>PCB: 1107-0213 REV 3A</u>                                                                                |                       | <u>This combination not certified yet</u> |

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Rev: **M1**

**KOLLMORGEN**®

| No         | Type                      | POWER BOARD,<br>MV & HV                                               | CONTROL BOARD                                                                                             | PASS-THROUGH BOARD                         | SMM BOARD                                                                              |
|------------|---------------------------|-----------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|--------------------------------------------|----------------------------------------------------------------------------------------|
| Oracle/BOM |                           |                                                                       |                                                                                                           |                                            |                                                                                        |
| 1          | AKD2G-SPv-6V03S-Axyy-zzzz | A222-0001-R6B<br>Or<br>A222-0001-R7B / C<br>Or<br>A222-0001-A-R7B / C | A214-0002-R7B<br>Or<br>A214-0002-A R7B                                                                    |                                            |                                                                                        |
| 2          | AKD2G-SPv-6V06S-Axyy-zzzz | AKD2G POWER BOARD,<br>MV3/6, SINGLE-AXIS                              | AKD2G CONTROL BOARD,<br>FIELDBUS BASE<br><br>Or                                                           |                                            |                                                                                        |
| 3          | AKD2G-SPv-6V12S-Axyy-zzzz | A222-0004-R6B<br>Or<br>A222-0004-R7B / C<br>Or<br>A222-0004-A-R7B / C | A214-0004-R7B<br>Or<br>A214-0004-A R7B                                                                    |                                            |                                                                                        |
| 4          | AKD2G-SPv-6V03D-Axyy-zzzz | A222-0002-R6B<br>Or<br>A222-0002-R7B / C<br>Or<br>A222-0002-A-R7B / C | AKD2G CONTROL BOARD,<br>ANALOG/CAN BASE<br><br>Or<br><b>A241-0002 R3B</b><br>Or<br><b>A241-0002-A R3B</b> | A225-0001-R4B<br>Or<br>A225-0001-A R4B     | <b>A218-000w -R4B</b><br><b>Or</b><br><b>A218-000w-A-R4B</b><br><b>Refer to Remark</b> |
| 5          | AKD2G-SPv-6V06D-Axyy-zzzz | AKD2G POWER BOARD,<br>MV3/6, DUAL-AXIS                                | AKD2G CONTROL2<br>BOARD,FBUS-PHY,BASE<br><br><b>A241-0004 R3B</b><br>Or<br><b>A241-0004-A R3B</b>         | AKD2G PASS-THROUGH<br>BOARD, STO, PS_BRAKE | AKD2G SMM BOARD                                                                        |
| 6          | AKD2G-SPv-7V03S-Axyy-zzzz | A221-0001-R7C / D<br>Or<br>A221-0001-A-R7C / D                        | AKD2G CONTROL2<br>BOARD,ANALOG/CAN,BA<br>SE<br><br><b>A241-0006 R3B</b><br>Or<br><b>A241-0006-A R3B</b>   |                                            |                                                                                        |
| 7          | AKD2G-SPv-7V06S-Axyy-zzzz | AKD2G POWER BOARD,<br>HV3/6, SINGLE-AXIS                              | AKD2G CONTROL2<br>BOARD,FBUS-ASIC,BASE<br>Or                                                              |                                            |                                                                                        |
| 8          | AKD2G-SPv-7V12S-Axyy-zzzz | A221-0003-R7C / D<br>Or<br>A221-0003-A-R7C / D                        | AKD2G POWER BOARD,<br>HV12, SINGLE-AXIS                                                                   |                                            |                                                                                        |

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Rev: **M1**

**KOLLMORGEN**®

| No | Type                             | POWER BOARD,<br>MV & HV                                                                                           | CONTROL BOARD                                                                                                                                                                                                                                                                                                                          | PASS-THROUGH BOARD | SMM BOARD                                     |
|----|----------------------------------|-------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-----------------------------------------------|
| 9  | AKD2G-SPv-7V03D-Axyy-zzzz        |                                                                                                                   | <b>FOR FS1 ONLY:</b><br><b>A241-0002 R2A</b><br>Or<br><b>A241-0002-A R2A</b><br>AKD2G CONTROL2<br>BOARD,FBUS-PHY,BASE<br><br><b>A241-0004 R2A</b><br>Or<br><b>A241-0004-A R2A</b><br>AKD2G CONTROL2<br>BOARD,ANALOG/CAN,BA<br>SE<br><br><b>A241-0006 R2A</b><br>Or<br><b>A241-0006-A R2A</b><br>AKD2G CONTROL2<br>BOARD,FBUS-ASIC,BASE |                    |                                               |
| 10 | AKD2G-SPv-7V06D-Axyy-zzzz        | A221-0002-R7C / D<br>Or<br><b>A221-0002-A-R7C / D</b><br>AKD2G POWER BOARD,<br>HV3/6, DUAL-AXIS                   |                                                                                                                                                                                                                                                                                                                                        |                    |                                               |
| 11 | <u>AKD2G-SPv-7V24S-Axyy-zzzz</u> | <u>A236-0001-R4A</u><br>Or<br><u>A236-0001-A-R4A</u><br><br><u>AKD2G POWER BOARD,</u><br><u>HV24, SINGLE-AXIS</u> | <b>A241-0002 R3B</b><br>Or<br><b>A241-0002-A R3B</b><br>AKD2G CONTROL2<br>BOARD,FBUS-PHY,BASE<br><br><b>A241-0004 R3B</b><br>Or<br><b>A241-0004-A R3B</b><br>AKD2G CONTROL2<br>BOARD,ANALOG/CAN,BA<br>SE<br><br><u>A241-0006 R3B</u><br>Or<br><u>A241-0006-A R3B</u><br><u>AKD2G CONTROL2</u><br><u>BOARD,FBUS-ASIC,BASE</u>           |                    | <u>This combination not<br/>certified yet</u> |

PCBA code:

With w = 1,3,4,5 (voltage regulator variants, with and without debug headers)

With x = 1, 2, 3: safety variant FS1 (with PT board), FS2 and FS3 (with SMM)

Remark: The coated SMM version is tested now.

## 2 Attestation

| to<br>Rev. | Name, function<br>(execution)                | Date              | Name, function<br>(report review and release) | Date              |
|------------|----------------------------------------------|-------------------|-----------------------------------------------|-------------------|
| A          | Lars Lindner, R&D Manager                    | 2020-02-12        | Scott Davis, Project Manager                  | 2020-02-19        |
| B          | Lars Lindner R&D Manager                     | 2020-03-27        | Scott Davis, Project Manager                  | 2020-03-27        |
| C          | Lars Lindner, R&D Manager                    | 2020-07-28        | Scott Davis, Project Manager                  | 2020-07-28        |
| D          | Lars Lindner, R&D Manager                    | 2020-09-15        | Scott Davis, Project Manager                  | 2020-09-14        |
| E          | Lars Lindner, R&D Manager                    | 2020-11-09        | Scott Davis, Project Manager                  | 2020-11-09        |
| F          | Lars Lindner, R&D Manager                    | 2021-05-12        | Scott Davis, Project Manager                  | 2021-05-11        |
| G          | Lars Lindner, R&D Manager                    | 2021-07-01        | Scott Davis, Project Manager                  | 2021-07-01        |
| H          | Lars Lindner, Compliance Manager             | 2022-02-10        | Scott Davis, Project Manager                  | 2022-02-10        |
| I          | Lars Lindner, Compliance Manager             | 2022-04-24        | Scott Davis, Project Manager                  | 2022-04-24        |
| J          | Lars Lindner, Compliance Manager             | 2022-06-23        | Scott Davis, Project Manager                  | 2022-06-23        |
| K          | Lars Lindner, Compliance Manager             | 2022-09-29        | Scott Davis, Project Manager                  | 2022-09-28        |
| L          | Lars Lindner, Compliance Manager             | 2023-02-10        | Scott Davis, Project Manager                  | 2023-02-10        |
| WIP        | <u>Lars Lindner, Compliance Manager</u>      | <u>2023-03-13</u> | <u>Scott Davis, Project Manager</u>           | <u>2023-03-13</u> |
| M          | <u>Lars Lindner, Compliance Manager</u>      | <u>2023-06-15</u> | <u>Scott Davis, Project Manager</u>           | <u>2023-06-15</u> |
| M1         | Jürgen Schmitt,<br>Functional Safety Manager | 2023-06-27        | Lars Lindner,<br>Compliance Manager           | 2023-06-27        |

Table 1: Attestation of tests

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## 3 Content

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## 4 Organisation

### 4.1 Manufacturer

Company name: Kollmorgen Europe GmbH

Pempelfurtstr. 1  
40880 Ratingen  
Germany

### 4.2 Performance

Report written by: Mr. Schmitt  
Report written 2020-02-12 (rev A)  
Used report template version: S

### 4.3 Report Revision history

| Rev       | Description                                                                                                                                                                                          | Author                | date              |
|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-------------------|
| A         | Document created out of template version S                                                                                                                                                           | Jürgen Schmitt        | 2020-02-12        |
| B         | Add HW revision of the drives                                                                                                                                                                        | Jürgen Schmitt        | 2020-03-30        |
| C         | Add AKD2G HV STO types                                                                                                                                                                               | Jürgen Schmitt        | 2020-07-23        |
| D         | Add AKD2G MV PB rev 7B                                                                                                                                                                               | Jürgen Schmitt        | 2020-09-14        |
| E         | Add conformal coated MV and HV variants                                                                                                                                                              | Jürgen Schmitt        | 2020-11-09        |
| F         | Add SMM variant                                                                                                                                                                                      | Jürgen Schmitt        | 2021-05-11        |
| G         | Add control2 PCBA                                                                                                                                                                                    | Jürgen Schmitt        | 2021-07-01        |
| H         | Add SPI EtherNet/IP                                                                                                                                                                                  | Jürgen Schmitt        | 2022-02-10        |
| I         | <b>Revision withdrawn:</b><br>Add Path Thro' rev 4C                                                                                                                                                  | Jürgen Schmitt        | 2022-04-27        |
| J         | Add SMM FW 1.12 / AKD FW 2-08-00-000                                                                                                                                                                 | Jürgen Schmitt        | 2022-06-22        |
| K         | Add AKD2G Control 2 PCBA rev 3B                                                                                                                                                                      | Jürgen Schmitt        | 2022-09-28        |
| L         | Editorials<br>Add AKD2G Control 2 PCBA rev 3B for SMM<br>Add AKD2G DRIVE FW 02-10-00-103 with AKD2G SMM FW 1.04                                                                                      | Jürgen Schmitt        | 2023-02-09        |
| <b>M</b>  | <u>Final documents AKD2G HV24A</u><br><u>documents conformal coated SMM PCBA A218-000w-A-R4B</u><br><u>unit change shrinkable tube</u>                                                               | <u>Jürgen Schmitt</u> | <u>2023-06-13</u> |
| <b>M1</b> | Changes M1 marked in yellow:<br><br>Highlight changes of rev M<br>Add Control 2 for AKD2 G HV24A<br><b>A241-0002 R3B</b><br><b>A241-0002-A R3B</b><br><b>A241-0004 R3B</b><br><b>A241-0004-A R3B</b> | <b>Jürgen Schmitt</b> | <b>2023-06-27</b> |

## 5 AKD2G product data

### 5.1 Product number scheme

Excerpt out of the AKD2G installation manual FS 1:

AKD2G-S Installation Manual, Safety 1 | 5 Package

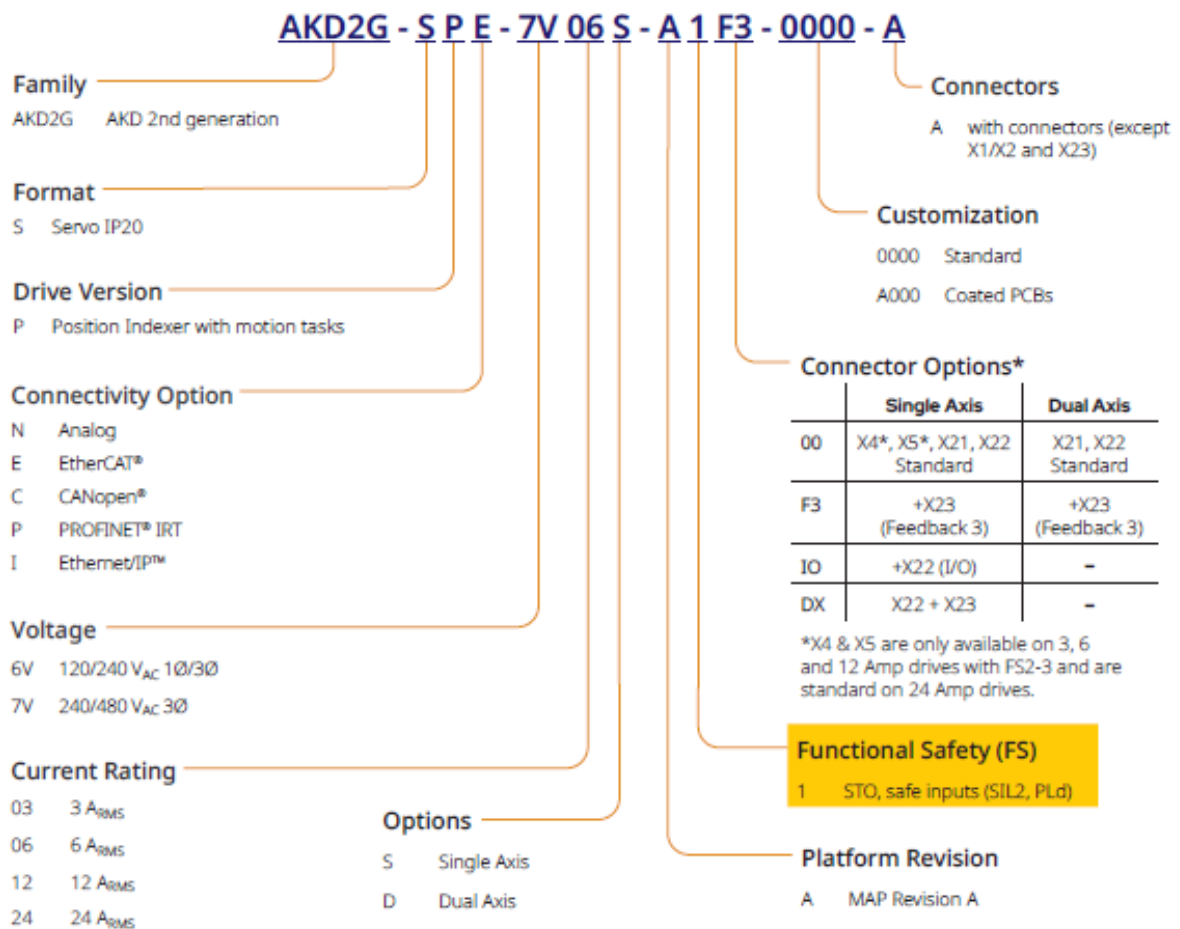
#### 5.3 Part Number Scheme

Use the part number scheme for product identification only.

Do not use it for the order process as not all features can always be combined among each other.

##### NOTE

- Mating connectors are **not** included in the package of a standard drive.
- Mating connectors are included when the drive is ordered with accessories (append "-A" to the model number).
- Mating connectors X1, X2, RJ25, RJ45, SubD are always part of the used cables.



\*See connector options feedback, I/O, and brake availability on the following page.

#### Example AKD2G-SPE-7V06S-A1IO-0000

AKD2G IP20 housing, position indexer, EtherCAT, 240 V to 480 V mains supply, 6 A rated current, single axis, Platform Revision A, dual channel STO SIL2 PLd, with additional I/O connector X22, uncoated, no mating connectors.

#### Example AKD2G-SPE-6V03D-A1F3-A000-A

AKD2G IP20 housing, position indexer, EtherCAT, 120 V to 240 V mains supply, 2 x 3 A rated current, dual axis, Platform Revision A, dual channel STO SIL2 PLd, with all possible connectors (X21 + X22 + X23), PCBs coated, with mating connectors.

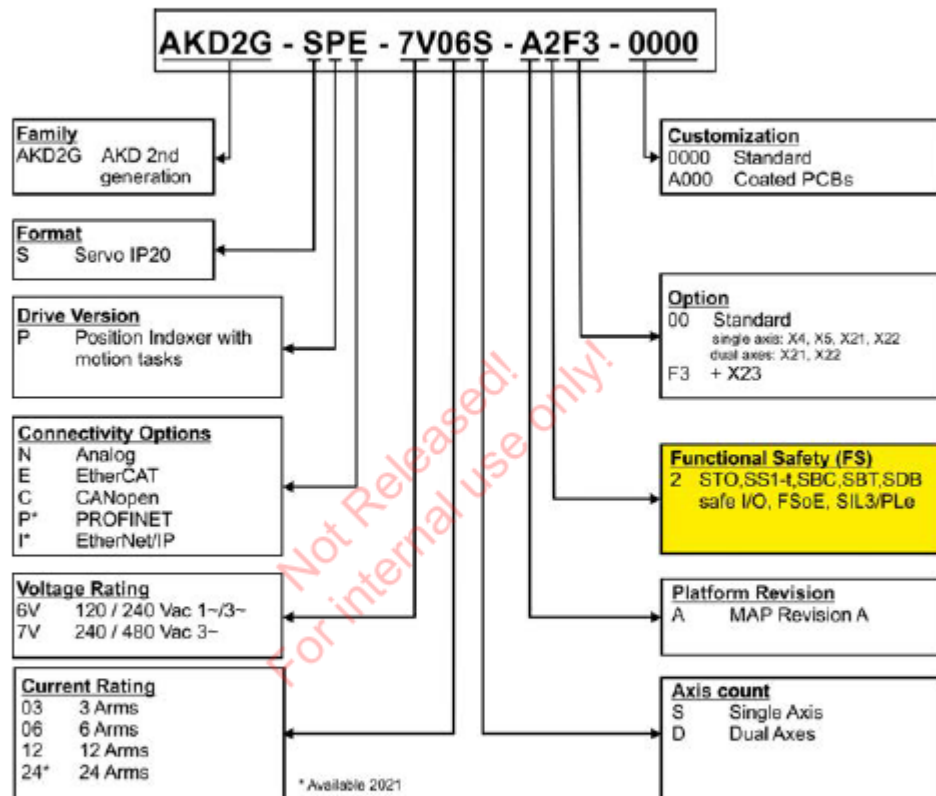
Excerpt out of the AKD2G installation manual FS 2:

### 5.3 Part Number Scheme

Use the part number scheme for product identification only, not for the order process, because not all combinations of features are possible.

#### NOTE

- Mating connectors are **not** included in the package of a standard drive.
- Mating connectors are included when the drive is ordered with accessories (append "-A" to the model number).
- Mating connectors X1, X2, RJ25, RJ45, SubD are part of the used cables always.



#### Example AKD2G-SPE-7V06S-A2F3-0000

AKD2G IP20 housing, position indexer, EtherCAT, 240 V to 480 V mains supply, 6 A rated current, single axis, Platform Revision A, safe stop functionality SIL3 PLe with FSoE, with all possible connectors (X21, X22, X4, X5, X23), uncoated, no mating connectors.

#### Example AKD2G-SPE-6V06D-A2F3-A000-A

AKD2G IP20 housing, position indexer, EtherCAT, 120 V to 240 V mains supply, 2 x 6 A rated current, dual axis, Platform Revision A, safe stop functionality SIL3 PLe with FSoE, with all possible connectors (X21, X22, X23), PCBs coated, with mating connectors.

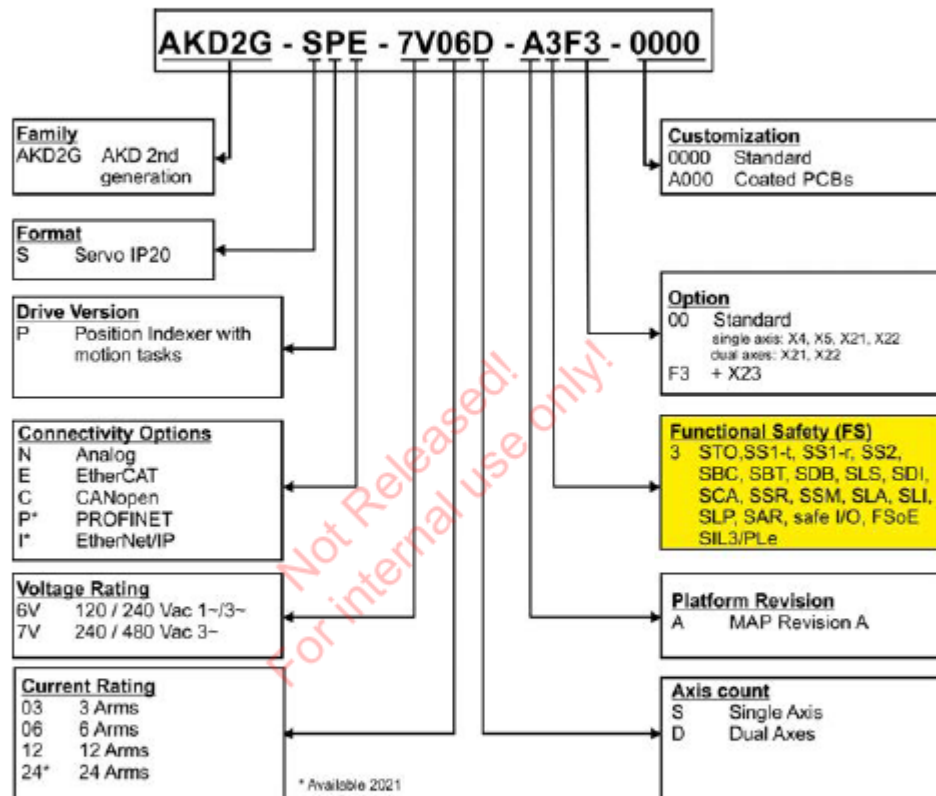
Excerpt out of the AKD2G installation manual FS 3:

### 5.3 Part Number Scheme

Use the part number scheme for product identification only, not for the order process, because not all combinations of features are possible.

#### NOTE

- Mating connectors are **not** included in the package of a standard drive.
- Mating connectors are included when the drive is ordered with accessories (append "-A" to the model number).
- Mating connectors X1, X2, RJ25, RJ45, SubD are part of the used cables always.



#### Example AKD2G-SPE-7V06D-A3F3-0000

AKD2G IP20 housing, position indexer, EtherCAT, 240 V to 480 V mains supply, 2 x 6 A rated current, dual axis, Plattform Revision A, Safe Motion Functionality SIL3 PLe with FSoE, with all possible connectors (X21, X22, X23), uncoated, no mating connectors.

#### Example AKD2G-SPE-6V03S-A3F3-A000-A

AKD2G IP20 housing, position indexer, EtherCAT, 120 V to 240 V mains supply, 3 A rated current, single axis, Plattform Revision A, Safe Motion Functionality SIL3 PLe with FSoE, with all possible connectors (X21, X22, X4, X5, X23), PCBs coated, with mating connectors.

## 5.2 AKD2G CE declaration

Excerpt out of the AKD2G CE declaration (SMM, MV and HV version):

### EU Declaration of Conformity

**KOLLMORGEN**

We, the company

Kollmorgen Corporation  
201 W Rock Rd  
Radford VA, 24141-4099  
USA

hereby on our sole responsibility declare the conformity of the product series **Kollmorgen AKD2G** servo drives.

|                                                                                         |                           |                           |
|-----------------------------------------------------------------------------------------|---------------------------|---------------------------|
| Models:                                                                                 | AKD2G-Sxx-6V03S-xxxx-xxxx | AKD2G-Sxx-6V03D-xxxx-xxxx |
|                                                                                         | AKD2G-Sxx-6V06S-xxxx-xxxx | AKD2G-Sxx-6V06D-xxxx-xxxx |
|                                                                                         | AKD2G-Sxx-6V06H-xxxx-xxxx | AKD2G-Sxx-6V12S-xxxx-xxxx |
|                                                                                         | AKD2G-Sxx-7V03S-xxxx-xxxx | AKD2G-Sxx-7V03D-xxxx-xxxx |
|                                                                                         | AKD2G-Sxx-7V06S-xxxx-xxxx | AKD2G-Sxx-7V06D-xxxx-xxxx |
|                                                                                         | AKD2G-Sxx-7V06H-xxxx-xxxx | AKD2G-Sxx-7V12S-xxxx-xxxx |
|                                                                                         | AKD2G-Sxx-7V24S-xxxx-xxxx |                           |
| Where x is an alphanumeric character. See manual naming convention for options covered. |                           |                           |
| Models followed by -A denotes a connector set shipped in the same box.                  |                           |                           |

with the following directives:

The Machinery Directive 2006/42/EC using the following harmonized standard:

## 5.3 Type certification

See table front page.

For more details please refer to the system specification of the product:  
9D00-0608 MAP Multi-Axis Drive Family, System

## 5.4 AKD2G Product pictures



Figure 1 AKD2G-SPv-6V12S-A1F3-zzzz  
Single Axis drive



Figure 2 AKD2G-SPv-6V06D-A1F3-zzzz  
Dual Axis drive



Figure 3 AKD2G-SPv-7V12S-A1F3-zzzz  
Single Axis drive



Figure 4 AKD2G-SPv-7V06D-A1F3-zzzz  
Dual Axis drive



Figure 5: AKD2G- SPv-7V06SS-A3F3-zzzz  
Single Axis SMM drive



Figure 6: AKD2G- SPv-6V03D-A3F3-zzzz  
Dual Axis SMM drive

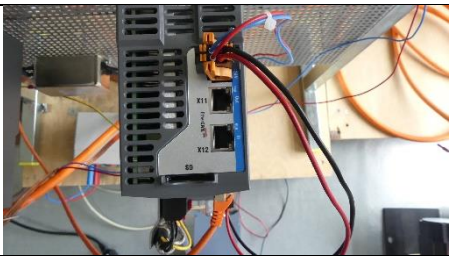


Figure7: EUT Overlay 12S MV  
Ethercat variant (SPE)



Figure 8: EUT Overlay 06D MV  
Profinet variant (SPP)



Figure 9: EUT Overlay 06D MV  
EtherNet/IP variant (SPI)



Figure 10: EUT Overlay 06D MV  
EtherNet/IP variant (SPI)



Figure 11: EUT Overlay 24S HV



Figure 12: EUT Overlay 24S HV