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| **Combination data** | | |
| Nominal voltage | V | 48 |
| No load speed | min-¹ | 197 |
| Max. continuous torque | mNm | 6 |
| Stall torque | mNm | 7.5 |

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| **Motor data** | | |
| Article No. | 283860 |  |
| Program | EC-max 22 Ø22 mm, brushless, 25 Watt |  |
| Assigned power rating | W | 25 |
| Nominal voltage | V | 48 |
| No load speed | min-¹ | 13000 |
| Stall torque | mNm | 127 |
| Max. continuous torque | mNm | 23.4 |
| Speed / torque gradient | min-¹ / mNm-¹ | 103 |
| No load current | mA | 57.6 |
| Starting current | A | 3.66 |
| Max. permissible speed | min-¹ | 18000 |
| Nominal current (max. continuous current) | A | 0.72 |
| Max. efficiency | % | 77.2 |
| Torque constant | mNm / A-¹ | 34.8 |
| Speed constant | min-¹ / V-¹ | 274 |
| Mechanical time constant | ns | 4.82 |
| Rotor inertia | gcm² | 4.45 |
| Terminal inductance | mH | 0.73 |
| Thermal resistance housing-ambient | KW-¹ | 10.2 |
| Thermal resistance winding-housing | KW-¹ | 1.02 |
| Thermal time constant winding | s | 2.08 |
| Motor lenght | mm | 48.5 |
| Weight | g | 115 |

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| **Gear data** | | |
| Article No. | 166940 |  |
| Program | Planetary Gearhead GP 32 C Ø32 mm, 1.0 - 6.0 Nm, Ceramic Version |  |
| Reduction |  | 66:1 |
| No. of stages |  | 3 |
| Max. continuous torque | Nm | 6 |
| Intermittently permissible torque at gear output | Nm | 7.5 |
| Sense of rotation, drive to output |  | = |
| Max. efficiency | % | 70 |
| Average backlash no load | ° | 2 |
| Mass inertia | gcm² | 0.7 |
| Gearhead length L1 | mm | 43 |
| Weight | g | 194 |
| Max. motor shaft diameter | mm | 4 |

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| **Sensor data** | | |
| Article No. | 201937 |  |
| Program | Encoder MR, Typ M, 128 - 512 CPT, 2 / 3 Channels, with Line Driver |  |
| Counts per turn |  | 512 |
| Number of channels |  | 2 |
| Max. operating frequency | kHz | 320 |
| Operating temperature range | °C | -25...85 |
| Weight | g | 40 |

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| **mmc data** | | |
| Article No. | 367676 |  |
| Program | Digital positioning controller EPOS2 24/5, 5 A, 11 - 24 VDC |  |
| Operating voltage VccMin | V | 11 |
| Operating voltage VccMax | V | 24 |
| Max. output voltage . | V | 1 |
| Max. output voltage | V | 0.9 |
| Maximum current | A | 10 |
| Continuous current | A | 5 |
| For EC motors |  | yes |
| Operation |  | 4-Q |
| Speed control |  | yes |
| Regulator |  | no |
| Position control |  | yes |
| Torque |  | yes |