



AM3042 | Servomotor 3.35 Nm (standstill torque)

| Data for 400 V AC | AM3042-wCyz-0000 | AM3042-wEyz-0000 | AM3042-wGyz-0000 |
|---|--------------------------|---------------------------|---------------------------|
| Standstill torque | 3.35 Nm | 3.42 Nm | 3.53 Nm |
| Rated torque | 3.10 Nm | 2.81 Nm | 2.35 Nm |
| Rated speed | 1500 min ⁻¹ | 3500 min ⁻¹ | 6000 min ⁻¹ |
| Rated power | 0.49 kW | 1.03 kW | 1.48 kW |
| Peak torque | 12.81 Nm | 13.0 Nm | 13.2 Nm |
| Standstill current | 1.40 A | 2.74 A | 4.80 A |
| Peak current | 7.0 A | 13.7 A | 24.0 A |
| Torque constant | 2.4 Nm/A | 1.26 Nm/A | 0.74 Nm/A |
| Voltage constant | 154 mV/min ⁻¹ | 80.9 mV/min ⁻¹ | 47.5 mV/min ⁻¹ |
| Number of poles | 10 | | |
| Rotor moment of inertia | 1.450 kgcm ² | | |
| Weight | 3.39 kg | | |
| Holding torque brake (M _{br}) | 6 Nm | | |
| Power consumption (brake) at 24 V DC (P _{br}) | 13 W | | |
| Rotor moment of inertia incl. brake (J) | 1.581 kg cm ² | 1.518 kg cm ² | 1.518 kg cm ² |
| Weight incl. brake (m) | 4.02 kg | | |

| Order reference AM30uv-wxyz-000a | |
|-------------------------------------|---|
| u | flange code |
| v | motor length |
| w = 0 | smooth shaft (standard) |
| w = 1 | shaft with groove and feather key according to DIN 6885 |
| w = 2 | shaft with IP 65 sealing ring and smooth shaft (AM304x to AM308x) |
| w = 3 | shaft with IP 65 sealing ring and shaft with groove and feather key (AM304x to AM308x) |
| x | winding code A...T |
| y = 0 | resolver, 2-pole |
| y = 1 | single-turn absolute encoder, EnDat 2.1, absolute position within one revolution, electronic identification plate, AM302x...AM304x: 512 sine periods per revolution, AM305x...AM308x: 2,048 sine periods per revolution |
| y = 2 | multi-turn absolute encoder, EnDat 2.1, absolute position within 4,096 revolutions, electronic identification plate, AM302x...AM304x: 512 sine periods per revolution, AM305x...AM308x: 2,048 sine periods per revolution |
| y = 3 | single-turn absolute encoder, BiSS, absolute position within one revolution, electronic identification plate, AM302x...AM308x: 2,048 sine periods per revolution |
| y = 4 | multi-turn absolute encoder, BiSS, absolute position within 4,096 revolutions, electronic identification plate, AM302x...AM308x: 2,048 sine periods per revolution |
| z = 0 | without holding brake |
| z = 1 | with holding brake for AM302x...AM308x |
| a = 0 | rotatable angular connectors for motor and feedback cable (only for AM302x up to AM307x) |
| a = 3 | vertical connectors for motor and feedback cables (only for AM302x up to AM307x) |
| | The options cannot be installed in the field. Options such as shaft seal, holding brake, absolute encoder can lead to a reduction of the nominal rating. |
| | All electric quantities are RMS values. |