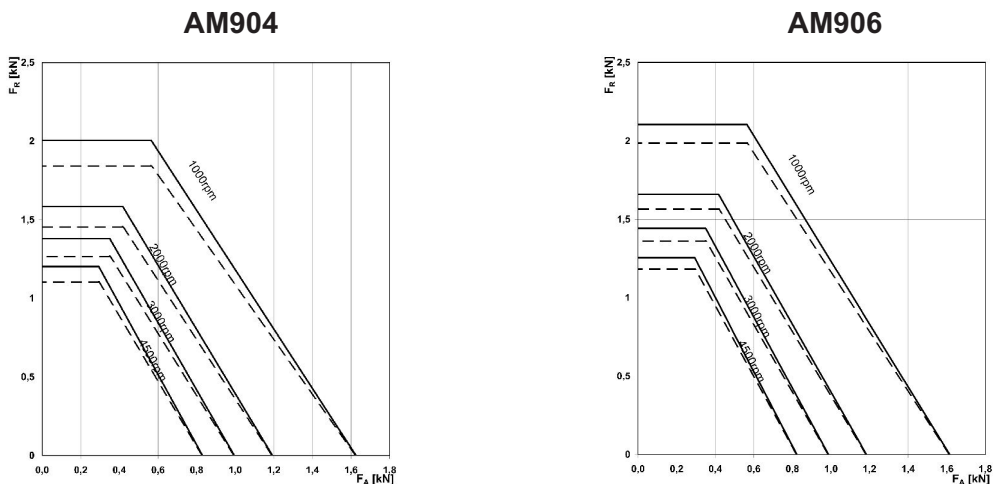
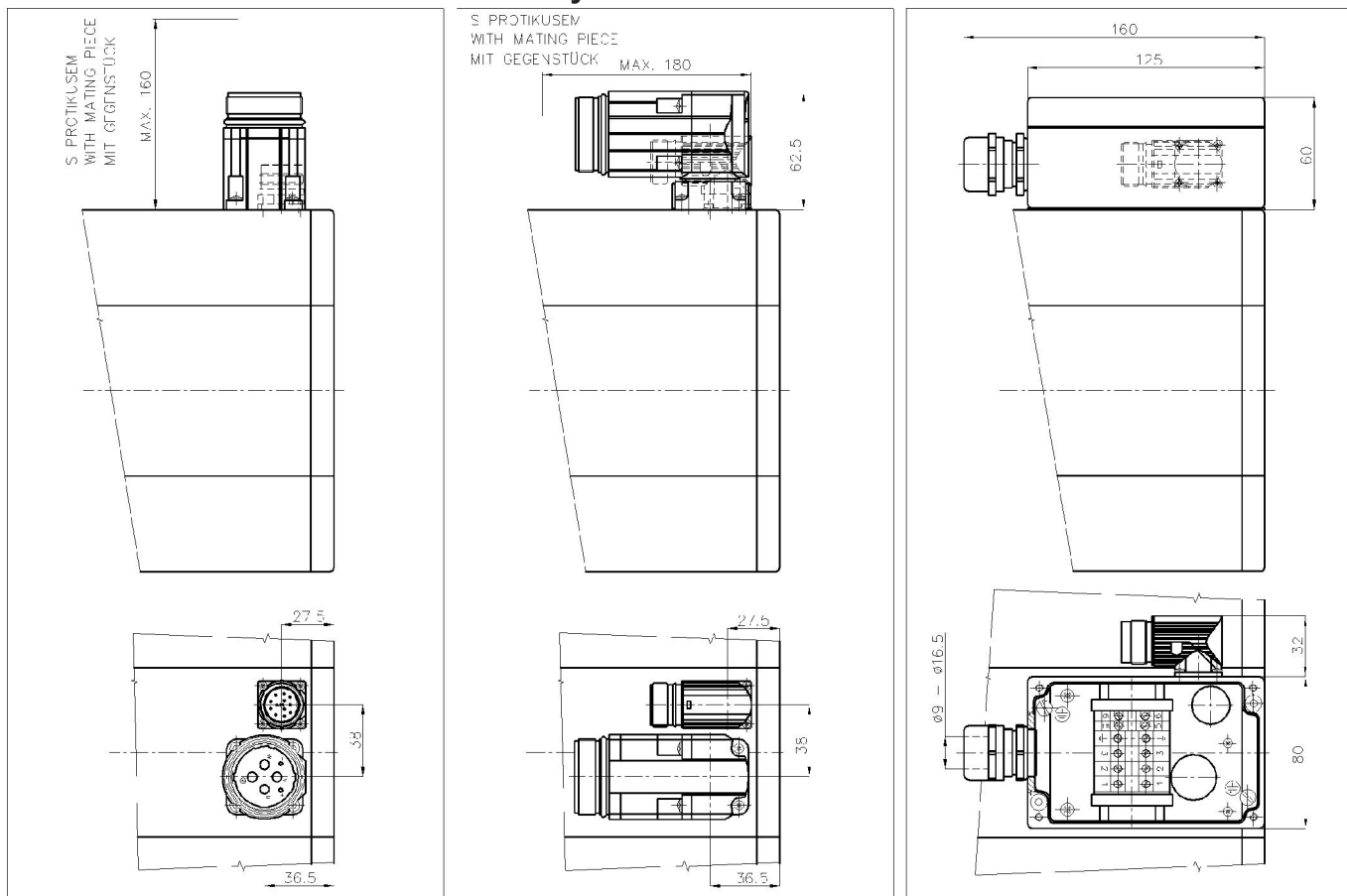


Radiální a axiální zatížení volného konce Radial and axial shaft load capacity Zulässige Radial - und Axialbelastungen der Wellenenden

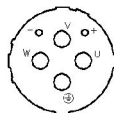


----- na konci hřídele / on the end of the shaft / auf Welle Ende
 _____ uprostřed hřídele / in the middle of the shaft / in Mitte der Welle

Konektory / Connectors / Stecker

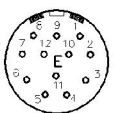


MOTOROVÝ KONEKTOR
POWER CONNECTOR
MOTORSTECKER



- 1 U
- 2 V
- 3 W
- 4 Brzda/Brake/Bremse
- 5 R1
- 6 R2
- 7 Teplotní spínač
Thermoswitch
- 8 Teplotní spínač
Thermoswitch
- 9 Zem/ERDE/GND

RESOLVEROVÝ KONEKTOR
SIGNAL CONNECTOR
SIGNALSTECKER



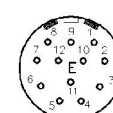
- 1 S3
- 2 S1
- 3 S4
- 4 S2
- 5 R1
- 6 R2
- 7 Teplotní spínač
Thermoswitch
- 8 Teplotní spínač
Thermoswitch
- 9 Zem/ERDE/GND

SVRČKOVNICE
TERMINAL BOX
KLEMME



- 1 U
- 2 V
- 3 W
- 4 Zem/ERDE/GND
- 5 Brzda/Brake/Bremse
- 6 Brzda/Brake/Bremse

RESOLVEROVÝ KONEKTOR
SIGNAL CONNECTOR
SIGNALSTECKER



- 1 S3
- 2 S1
- 3 S4
- 4 S2
- 5 R1
- 6 R2
- 7 Teplotní spínač
Thermoswitch
- 8 Teplotní spínač
Thermoswitch
- 9 Zem/ERDE/GND

POHLED NA KOLÍKY KONEKTORŮ / SIGHT ON CONNECTOR PINS / ANSICHT AUF STECKERSTIFTE

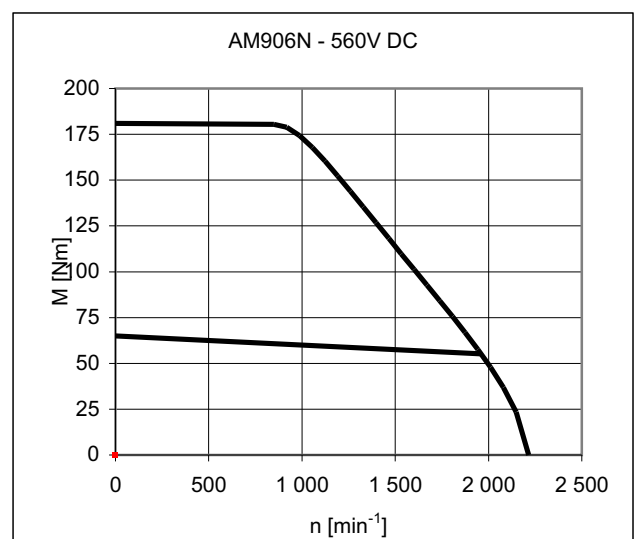
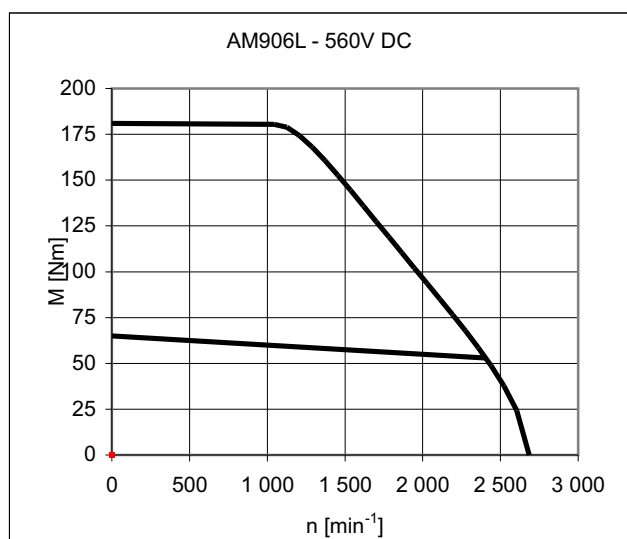
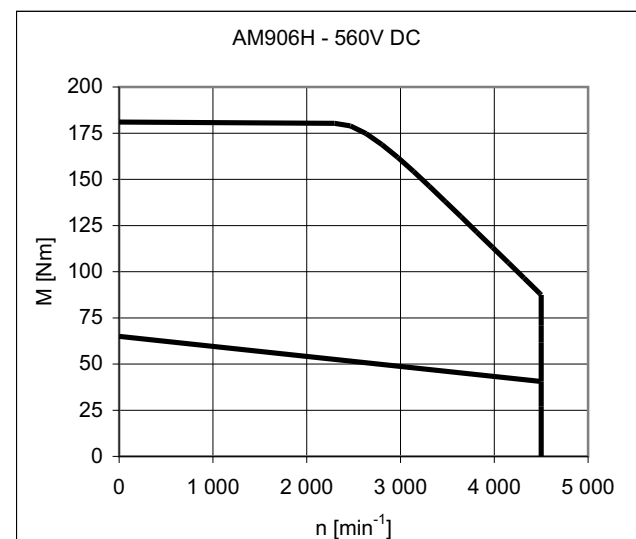
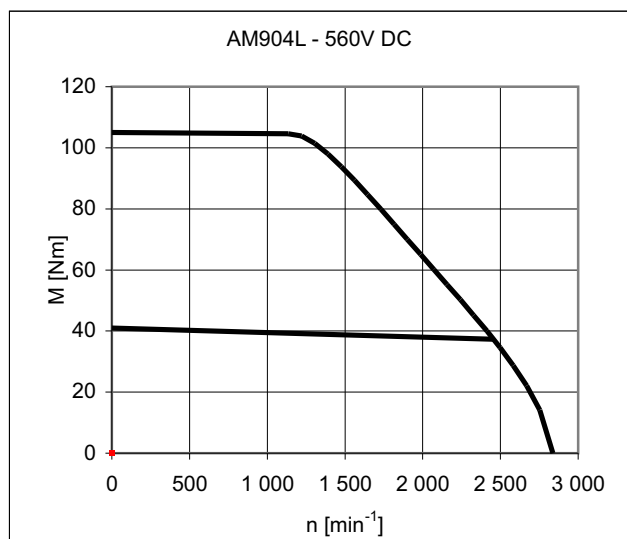
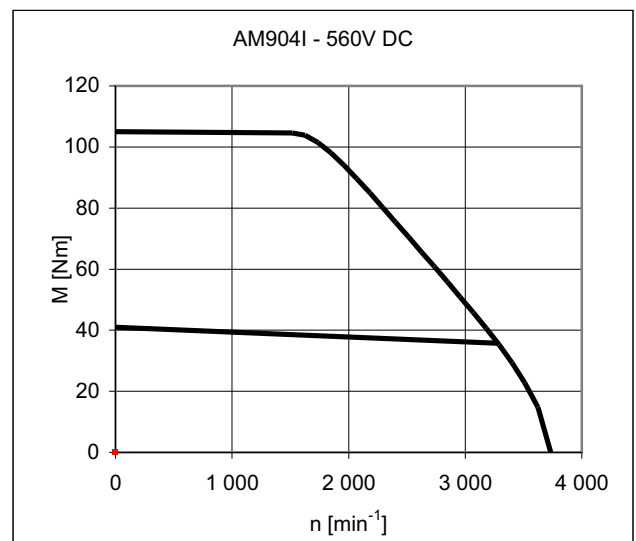
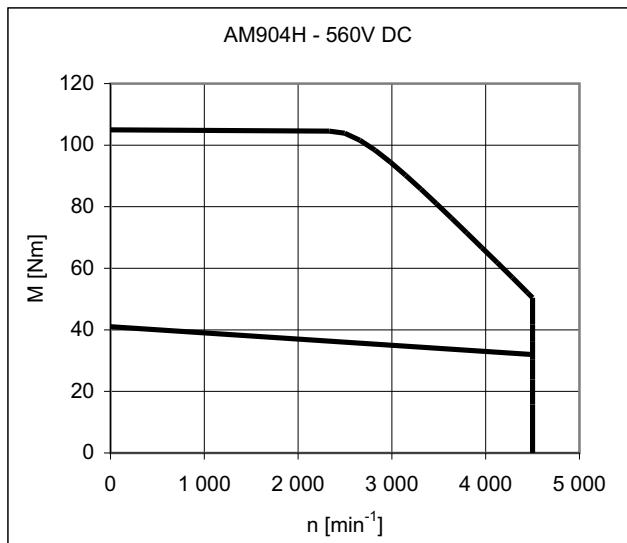
AM 90 Technische Daten

| MOTORTYP | | | AM904H | AM904I | AM904L |
|---|--------------|------------------------------------|--------|--------|--------|
| ZWISCHENKREISSPANNUNG | U_{DC} | V | 560 | 560 | 560 |
| S STILLSTANDSWERTE | | | | | |
| Stillstandsrehmoment | M_0 | Nm | 41,0 | 41,0 | 41,0 |
| Stillstandsstrom | I_0 | A | 48,0 | 32,9 | 24,4 |
| Drehmomentkonstante | k_M | Nm/A | 0,992 | 1,49 | 1,98 |
| N MOTORNENNWERTE | | | | | |
| Spannung | $U_{N,MOT}$ | V | 214 | 230 | 251 |
| Drehmoment | M_N | Nm | 34,0 | 37,0 | 38,0 |
| Strom | I_N | A | 39,9 | 29,7 | 22,6 |
| Drehzahl | n_N | min ⁻¹ | 3 500 | 2 500 | 2 000 |
| Leistung | P_N | W | 12 461 | 9 686 | 7 958 |
| Spannungskonstante | K_E | V.min/1000 | 60 | 90 | 120 |
| Spannungskonstante | k_e | Vs/rad | 0,573 | 0,859 | 1,15 |
| Ü ÜBERLASTBARKEIT BEI NENNDREHZAHL | | | | | |
| Überlastbarkeit bei Nenndrehzahl | M_U | Nm | 80,2 | 74,3 | 64,3 |
| Max. Nutz-Werte | M_U/M_N | - | 2,36 | 2,01 | 1,69 |
| MOTOR-GRENZWERTE BEI NETZ-NENNSPANNUNG | | | | | |
| Max MOTORWERTE | | | | | |
| Drehmoment | M_{max} | Nm | 105 | 105 | 105 |
| Strom | I_{max} | A | 181 | 124 | 92,0 |
| Drehzahl | n_{mech} | min ⁻¹ | 4 500 | 4 500 | 4 500 |
| C ECKPUNKT | | | | | |
| Strom | I_C | A | 181 | 124 | 92,0 |
| Bruchdrehmoment | M_C | Nm | 105 | 105 | 105 |
| Drehzahl | n_C | min ⁻¹ | 2 333 | 1 564 | 1 135 |
| Nutz MAX. PARAMETR FÜR BETRIEB S1 | | | | | |
| Nutzdrehzahl | n_{nutz} | min ⁻¹ | 4 500 | 3 366 | 2 455 |
| Nutzmoment | M_{nutz} | Nm | 32,0 | 35,6 | 37,3 |
| Nutzleistung | P_{nutz} | W | 15 079 | 12 553 | 9 593 |
| Q LEERLAUFPUNKT (I und M - 0) | | | | | |
| Drehzahl | n_0 | min ⁻¹ | 5 587 | 3 822 | 2 838 |
| TECHNISCHE ANGABEN | | | | | |
| Polzahl | 2p | - | 6 | 6 | 6 |
| Wicklungswiderstand | R_{U-V} | | 0,0946 | 0,218 | 0,361 |
| Wicklungsinduktivität | L_{U-V} | mH | 2,2 | 4,6 | 8,5 |
| Eigentragheitsmoment | J | kg.m ² /1000 | 5,5 | 5,5 | 5,5 |
| Masse | m | kg | 34 | 34 | 34 |
| Axiale Belastung | F_A | N | 417 | 564 | 564 |
| Radiale Belastung | F_R | N | 1 585 | 2 006 | 2 006 |
| Mittlere Drehzahl | n_{mitt} | min ⁻¹ | 2 000 | 1 000 | 1 000 |
| MECHANISCHE MOTORWERTE | | | | | |
| Statisches Reibungsmoment | M_r | Nm | 0,28 | 0,28 | 0,29 |
| Dämpfungskonstante | k_D | Nm.min.10 ⁻⁵ | 6,7 | 6,7 | 7,1 |
| Mechanische Zeitkonstante | T_m | ms | 0,79 | 0,81 | 0,76 |
| THERMISCHE MOTORWERTE | | | | | |
| Th. Widerst. [Wickl.-Umg.] | $R_{th(RU)}$ | K/W | 0,16 | 0,17 | 0,21 |
| Th. Widerst. [Geh.-Umg.] | $R_{th(GU)}$ | K/W | 0,12 | 0,13 | 0,16 |
| Th. Zeitkonstante | T_{th} | min | 55,4 | 55,4 | 55,4 |
| KÜHLER | | | | | |
| Wassermenge | Q_W | dm ³ .min ⁻¹ | - | - | - |
| Wasserdruckverlust zw. Ein- und Ausgang | p_N | kPa | - | - | - |
| Luftmenge | Q_L | dm ³ .s ⁻¹ | - | - | - |

Technical data AM 90

| AM906H | AM906L | AM906N | TYPE OF THE MOTOR | | |
|--------|--------|--------|---|------------------------------------|--|
| 560 | 560 | 560 | U_{DC} | V | VOLTAGE OF INTERMEDIATE CIRCUIT |
| | | | STANDSTILL VALUES <u>S</u> | | |
| 65,0 | 65,0 | 65,0 | M_0 | Nm | Standstill torque |
| 76,9 | 36,5 | 30,1 | I_0 | A | Standstill current |
| 0,992 | 1,98 | 2,48 | k_M | Nm/A | Torque constant |
| | | | RATED VALUES OF THE MOTOR <u>N</u> | | |
| 202 | 256 | 237 | $U_{N,MOT}$ | V | Rated voltage |
| 46,0 | 55,0 | 57,5 | M_N | Nm | Rated torque |
| 54,4 | 30,8 | 26,6 | I_N | A | Rated current |
| 3 500 | 2 000 | 1 500 | n_N | min ⁻¹ | Rated speed |
| 16 859 | 11 518 | 9 031 | P_N | W | Rated power output |
| 60 | 120 | 150 | K_E | V.min/1000 | Voltage constant |
| 0,573 | 1,15 | 1,43 | k_e | Vs/rad | Voltage constant |
| | | | OVERLOADING CAPABILITY AT RATED SPEED <u>Ü</u> | | |
| 137 | 96,5 | 114 | $M_{Ü}$ | Nm | Max. torque overload at rated speed |
| 2,98 | 1,76 | 1,98 | $M_{Ü}/M_N$ | - | Max. overloading at rated speed |
| | | | VALUES OF THE MOTOR AT MAX. SUPPLY VOLTAGE U1 | | |
| | | | MAX. VALUES OF THE MOTOR <u>Max</u> | | |
| 181 | 181 | 181 | M_{max} | Nm | Max. torque |
| 316 | 150 | 124 | I_{max} | A | Max. current |
| 4 500 | 4 500 | 4 500 | n_{mech} | min ⁻¹ | Max. speed |
| | | | LIMIT POINT <u>C</u> | | |
| 316 | 150 | 124 | I_C | A | Current |
| 180 | 180 | 180 | M_C | Nm | Breakdown torque |
| 2 297 | 1 043 | 850 | n_C | min ⁻¹ | Speed |
| | | | MAX. USABLE PARAMETERS FOR S1 <u>Nutz</u> | | |
| 4 500 | 2 405 | 1 960 | n_{nutz} | min ⁻¹ | Max. usable speed |
| 40,5 | 53,0 | 55,2 | M_{nutz} | Nm | Max. usable torque |
| 19 102 | 13 340 | 11 331 | P_{nutz} | W | Max. usable power output |
| | | | NO-LOAD (I and M = 0) <u>0</u> | | |
| 5 666 | 2 686 | 2 216 | n_0 | min ⁻¹ | No-load speed |
| | | | TECHNICAL FEATURES | | |
| 6 | 6 | 6 | 2p | - | Number of poles |
| 0,0484 | 0,208 | 0,299 | R_{U-V} | | Winding resistance between two terminals |
| 1,3 | 5,8 | 8,5 | L_{U-V} | mH | Winding inductance between two terminals |
| 8,1 | 8,1 | 8,1 | J | kg.m ² /1000 | Moment of inertia |
| 45,5 | 45,5 | 45,5 | m | kg | Mass |
| 418 | 564 | 564 | F_A | N | Axial load |
| 1 659 | 2 006 | 2 006 | F_R | N | Radial load |
| 2 000 | 1 000 | 1 000 | n_{mitt} | min ⁻¹ | Average speed |
| | | | MECHANICAL VALUES OF THE MOTOR | | |
| 0,39 | 0,41 | 0,41 | M_f | Nm | Static friction torque |
| 11 | 11 | 11 | k_D | Nm.min.10 ⁻⁵ | Damping constant |
| 0,60 | 0,64 | 0,59 | T_m | ms | Mechanical time constant |
| | | | THERMAL VALUES OF THE MOTOR | | |
| 0,13 | 0,18 | 0,19 | $R_{th(RU)}$ | K/W | Thermal resistance (winding-ambient) |
| 0,10 | 0,14 | 0,15 | $R_{th(GU)}$ | K/W | Thermal resistance (frame-ambient) |
| 58,7 | 58,7 | 58,7 | T_{th} | min | Thermal time constant |
| | | | COOLER | | |
| - | - | - | Q_W | dm ³ .min ⁻¹ | Water flow rate |
| - | - | - | p_N | kPa | Pressure drop of water |
| - | - | - | Q_L | dm ³ .s ⁻¹ | Air flow rate |

AM 90 Momentkennlinien / Torque speed curves



Technische Änderungen vorbehalten / Subject to change without prior notice

REV. 13-05-02

05-094-0