

DRUM MOTOR

DM SERIES

DM 0217



Practice-oriented, scalable and thought out in detail: The new drum motor DM 0217 makes it easy to build a completely individual conveyor system and is dimensioned for the higher requirements of permissible belt tension now demanded from industry and belt manufacturers alike.

With a broader speed spectrum, the DM 0217 covers all possible applications. The clever plug-and-play connection significantly simplifies the installation. Each motor is approved, tested, and modularized so that it can be produced and delivered around the world in the shortest amount of time.

The modular design of the DM 0217 allows a free combination of individual module groups, such as shaft, end housing, shell or steel gear, to perfectly meet the requirements of an application. In addition, various options, such as encoder, brake, backstop, rubber laggings, etc., as well as different accessories are available.

With the platform concept of the DM 0217, it is possible to cover all internal logistics applications in the food processing sector, as well as in industry, distribution and airports.



Technical data

| | Asynchronous squirrel cage motor |
|--|--|
| Insulation class of motor windings | Class F, IEC 34 (VDE 0530) |
| Voltage | 230/400 V $\pm 5\%$ (IEC 34/38) Most of the common international voltages and frequencies are available upon request |
| Frequency | 50 Hz |
| Shaft sealing | NBR |
| Protection rate Motor* | IP69K |
| Thermal controller | Bi-metal switch |
| Operating mode | S1 |
| Ambient temperature, 3-phase motor | +2 to +40 °C Low temperature ranges on request. |
| Ambient temperature, 3-phase motor for applications with form-fit belts or no belt | +2 to +25 °C |

* The protection rate of the cable connector may deviate.

Design variants and accessories

| | |
|-----------------------|---|
| Lagging | Lagging for friction drive belts Lagging for modular plastic belts Lagging for positive drive solid homogeneous belts |
| Transmission of force | Sprockets only on request |
| Options | Backstop Electromagnetic holding brake and rectifier* Encoder* Balancing Plug connection (up to max. 1100 W) |
| Oils | Food-grade oils (NSF H1) |
| Certificate | cULus safety certificates |
| Accessories | Deflection drums; conveyor rollers; mounting brackets; cables; inverters |

* Depending on the option, the drum motor is extended by 50 mm.

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Material variants

The following components can be selected for the drum motor and the electrical connection:

| Component | Version | Aluminum | Mild steel | Stainless steel | Brass/nickel | Technopolymer |
|-----------------------------|-----------------------------|----------|------------|-----------------|--------------|---------------|
| Shell | Crowned | | ● | ● | | |
| | Cylindrical | | ● | ● | | |
| | Cylindrical + key | | ● | ● | | |
| End housing | Standard | ● | | ● | | |
| Shaft | Standard | | | ● | | |
| | Cross-drilled thread | | | ● | | |
| Gear boxes | Spur gear box | | ● | | | |
| Electrical connector | Straight connector | | | ● | ● | ● |
| | Straight hygienic connector | | | ● | | |
| | Elbow connector | | | ● | | ● |
| | Terminal box | ● | | ● | | ● |
| | 90° hygienic connector | | | ● | | |
| Motor winding | Asynchronous motor | | | | | |
| External seal | PTFE | | | | | |

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Motor variants

Mechanical data for 3-phase asynchronous motor

| P_N [W] | n_p | gs | i | v [m/s] | n_A [min ⁻¹] | M_A [Nm] | F_N [N] | FW_{MIN} [mm] | SL_{MIN} [mm] |
|--------------|-------|----|-------|------------|-------------------------------|---------------|--------------|--------------------|--------------------|
| 370 | 8 | 3 | 62.37 | 0.126 | 11.1 | | | 410 | 400 |
| 550 | 6 | 3 | 62.37 | 0.154 | 13.5 | 365.2 | 3358 | 410 | 400 |
| 550 | 6 | 3 | 46.56 | 0.207 | 18.1 | 272.6 | 2506 | 410 | 400 |
| 750 | 4 | 3 | 62.37 | 0.247 | 21.7 | 310.6 | 2856 | 410 | 400 |
| 1100 | 8 | 2 | 31.11 | 0.260 | 22.8 | 442.6 | 4070 | 410 | 500 |
| 1100 | 4 | 3 | 46.56 | 0.323 | 28.4 | 348.8 | 3207 | 410 | 400 |
| 1100 | 4 | 3 | 39.31 | 0.382 | 33.6 | 294.5 | 2708 | 410 | 400 |
| 1100 | 4 | 3 | 31.56 | 0.476 | 41.8 | 263.4 | 2174 | 410 | 400 |
| 1100 | 4 | 3 | 24.6 | 0.611 | 53.7 | 184.3 | 1695 | 410 | 400 |
| 1100 | 4 | 2 | 19.64 | 0.766 | 67.2 | 150.1 | 1380 | 410 | 400 |
| 1100 | 4 | 2 | 14.66 | 1.026 | 90.1 | 112.1 | 1030 | 410 | 400 |
| 1100 | 4 | 2 | 12.38 | 1.215 | 106.7 | 94.6 | 870 | 410 | 400 |
| 1100 | 2 | 3 | 24.6 | 1.317 | 115.7 | 85.4 | 786 | 410 | 400 |
| 1100 | 2 | 2 | 19.64 | 1.650 | 144.9 | 69.6 | 640 | 410 | 400 |
| 1100 | 2 | 2 | 14.66 | 2.211 | 194.1 | 51.9 | 478 | 410 | 400 |
| 1100 | 2 | 2 | 12.38 | 2.618 | 229.9 | 43.9 | 403 | 410 | 400 |
| 1100 | 2 | 2 | 9.65 | 3.357 | 294.8 | 34.2 | 314 | 410 | 400 |
| 1500 | 6 | 2 | 27.53 | 0.386 | 33.9 | 405.4 | 3728 | 510 | 500 |
| 1500 | 4 | 2 | 31.11 | 0.516 | 45.3 | 303.6 | 2791 | 510 | 550 |
| 1500 | 4 | 2 | 27.53 | 0.583 | 51.2 | 268.7 | 2470 | 510 | 500 |
| 1500 | 4 | 2 | 20.1 | 0.799 | 70.1 | 196.2 | 1804 | 510 | 500 |
| 1500 | 4 | 2 | 16.8 | 0.956 | 83.9 | 163.9 | 1507 | 510 | 500 |
| 1500 | 4 | 2 | 13.22 | 1.214 | 106.6 | 129.0 | 1187 | 510 | 500 |
| 2200 | 4 | 2 | 31.11 | 0.525 | 46.1 | 437.8 | 4026 | 510 | 500 |
| 2200 | 4 | 2 | 27.53 | 0.593 | 52.1 | 387.4 | 3563 | 510 | 500 |
| 2200 | 4 | 2 | 20.1 | 0.812 | 71.3 | 282.9 | 2601 | 510 | 500 |
| 2200 | 4 | 2 | 16.8 | 0.971 | 85.3 | 236.4 | 2174 | 510 | 500 |
| 2200 | 4 | 2 | 13.22 | 1.234 | 108.4 | 186.1 | 1711 | 510 | 500 |
| 2200 | 2 | 2 | 27.53 | 1.188 | 104.4 | 193.2 | 1777 | 510 | 500 |
| 2200 | 2 | 2 | 20.1 | 1.628 | 142.9 | 141.1 | 1297 | 510 | 500 |
| 2200 | 2 | 2 | 16.8 | 1.948 | 171.0 | 117.9 | 1084 | 510 | 500 |
| 2200 | 2 | 2 | 13.22 | 2.475 | 217.3 | 92.8 | 853 | 510 | 500 |

DL series

DM series

DP series

Application notes

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| P_N [W] | n_p | gs | i | v [m/s] | n_A [min ⁻¹] | M_A [Nm] | F_N [N] | FW_{MIN} [mm] | SL_{MIN} [mm] |
|--------------|-------|----|-------|------------|-------------------------------|---------------|--------------|--------------------|--------------------|
| 3000 | 4 | 2 | 27.53 | 0.588 | 51.6 | 532.8 | 4899 | 510 | 500 |
| 3000 | 4 | 2 | 20.1 | 0.805 | 70.7 | 389.0 | 3577 | 510 | 500 |
| 3000 | 4 | 2 | 16.8 | 0.963 | 84.6 | 325.1 | 2990 | 510 | 500 |
| 3000 | 4 | 2 | 13.22 | 1.224 | 107.5 | 255.9 | 2353 | 510 | 500 |
| 3000 | 2 | 2 | 27.53 | 1.189 | 104.4 | 263.2 | 2421 | 510 | 500 |
| 3000 | 2 | 2 | 20.1 | 1.629 | 143.0 | 192.2 | 1767 | 510 | 500 |
| 3000 | 2 | 2 | 16.8 | 1.949 | 171.1 | 160.6 | 1477 | 510 | 500 |
| 3000 | 2 | 2 | 13.22 | 2.477 | 217.5 | 126.4 | 1162 | 510 | 500 |
| 4000 | 2 | 2 | 31.11 | 1.054 | 92.5 | 396.3 | 3644 | 510 | 500 |
| 4000 | 2 | 2 | 16.8 | 1.952 | 171.4 | 214.0 | 1968 | 510 | 500 |
| 4000 | 2 | 2 | 13.22 | 2.480 | 217.8 | 168.4 | 1549 | 510 | 500 |

P_N = Rated power
 n_p = Number of poles
 gs = Gear stages
 i = Speed ratio
 v = Speed

n_A = Shell rated speed
 M_A = Drum motor rated torque
 F_N = Drum motor rated belt pull
 FW_{MIN} = Minimum drum width
 SL_{MIN} = Minimum shell length

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Electrical data for 3-phase asynchronous motor

| P_N [W] | n_p | n_N [min ⁻¹] | f_N [Hz] | U_N [V] | I_N [A] | $\cos\varphi$ | η | J_R [kgcm ²] | I_s/I_N | M_s/M_N | M_B/M_N | M_P/M_N | M_N [Nm] | R_M [Ω] | $U_{SH\Delta}$ [V] | U_{SHY} [V] |
|--------------|-------|-------------------------------|---------------|--------------|--------------|---------------|--------|-------------------------------|-----------|-----------|-----------|-----------|---------------|--------------|-----------------------|------------------|
| 370 | 8 | 730 | 50 | 400 | 1.5 | 0.62 | 0.57 | 22.33 | 2.87 | 1.9 | 2.35 | 1.9 | 4.84 | 20.3 | | 28.3 |
| 370 | 8 | 730 | 50 | 230 | 2.59 | 0.62 | 0.58 | 22.33 | 2.87 | 1.9 | 2.35 | 1.9 | 4.84 | 20.3 | 16.3 | |
| 550 | 6 | 845 | 50 | 400 | 1.6 | 0.69 | 0.72 | 22.33 | 3.4 | 1.4 | 1.65 | 1.4 | 6.22 | 21 | | 34.8 |
| 550 | 6 | 845 | 50 | 230 | 2.76 | 0.69 | 0.72 | 22.33 | 3.4 | 1.4 | 1.65 | 1.4 | 6.22 | 21 | 20 | |
| 750 | 4 | 1355 | 50 | 400 | 1.8 | 0.8 | 0.75 | 11.56 | 3.5 | 1.53 | 1.8 | 1.3 | 5.29 | 11.57 | | 25 |
| 750 | 4 | 1355 | 50 | 230 | 3.11 | 0.8 | 0.76 | 11.56 | 3.5 | 1.53 | 1.8 | 1.3 | 5.29 | 11.57 | 14.4 | |
| 1100 | 2 | 2845 | 50 | 400 | 2.4 | 0.86 | 0.77 | 7.08 | 5.2 | 3.15 | 3.42 | 2.1 | 3.69 | 5.8 | | 18 |
| 1100 | 2 | 2845 | 50 | 230 | 4.14 | 0.86 | 0.78 | 7.08 | 5.2 | 3.15 | 3.42 | 2.1 | 3.69 | 5.8 | 10.3 | |
| 1100 | 4 | 1320 | 50 | 400 | 2.8 | 0.82 | 0.69 | 13 | 3.5 | 1.5 | 1.7 | 1.3 | 7.96 | 6.18 | | 21.3 |
| 1100 | 4 | 1320 | 50 | 230 | 4.83 | 0.82 | 0.7 | 13 | 3.5 | 1.5 | 1.7 | 1.3 | 7.96 | 6.18 | 12.2 | |
| 1100 | 8 | 709 | 50 | 400 | 3.71 | 0.59 | 0.73 | 82.1 | 3.66 | 2.05 | 2.69 | 1.89 | 14.82 | 5.1 | | 16.7 |
| 1100 | 8 | 709 | 50 | 230 | 6.43 | 0.59 | 0.73 | 82.1 | 3.66 | 2.05 | 2.69 | 1.89 | 14.82 | 5.1 | 9.7 | |
| 1500 | 6 | 934 | 50 | 400 | 3.36 | 0.81 | 0.8 | 82.1 | 4.84 | 2.15 | 2.29 | 1.55 | 15.34 | 4.3 | | 17.6 |
| 1500 | 6 | 934 | 50 | 230 | 5.82 | 0.81 | 0.8 | 82.1 | 4.84 | 2.15 | 2.29 | 1.55 | 15.34 | 4.3 | 10.1 | |
| 1500 | 4 | 1420 | 50 | 400 | 3.7 | 0.87 | 0.67 | 35.78 | 5.5 | 2.2 | 2.5 | 1.8 | 10.09 | 3.3 | | 15.9 |
| 1500 | 4 | 1420 | 50 | 230 | 6.38 | 0.87 | 0.68 | 35.78 | 5.5 | 2.2 | 2.5 | 1.8 | 10.09 | 3.3 | 9.2 | |
| 2200 | 4 | 1433 | 50 | 400 | 4.45 | 0.85 | 0.84 | 47.71 | 6.26 | 2.32 | 2.87 | 1.82 | 14.66 | 2.85 | | 16.2 |
| 2200 | 4 | 1433 | 50 | 230 | 7.71 | 0.85 | 0.84 | 47.71 | 6.26 | 2.32 | 2.87 | 1.82 | 14.66 | 2.85 | 9.3 | |
| 2200 | 2 | 2873 | 50 | 400 | 5.01 | 0.78 | 0.81 | 18.51 | 6.05 | 2.47 | 3.3 | 2.27 | 7.31 | 3.35 | | 19.6 |
| 2200 | 2 | 2873 | 50 | 230 | 8.68 | 0.78 | 0.82 | 18.51 | 6.05 | 2.47 | 3.3 | 2.27 | 7.31 | 3.35 | 11.3 | |
| 3000 | 4 | 1421 | 50 | 400 | 6.69 | 0.79 | 0.82 | 47.71 | 5.77 | 2.65 | 3.07 | 2.32 | 20.16 | 2 | | 15.9 |
| 3000 | 4 | 1421 | 50 | 230 | 11.58 | 0.79 | 0.82 | 47.71 | 5.77 | 2.65 | 3.07 | 2.32 | 20.16 | 2 | 9.1 | |
| 3000 | 2 | 2875 | 50 | 400 | 5.85 | 0.87 | 0.85 | 27.15 | 7.8 | 3.17 | 3.69 | 2.62 | 9.96 | 1.75 | | 13.4 |
| 3000 | 2 | 2875 | 50 | 230 | 11.52 | 0.87 | 0.75 | 27.15 | 7.8 | 3.17 | 3.69 | 2.62 | 9.96 | 1.75 | 8.8 | |
| 4000 | 2 | 2879 | 50 | 400 | 8.68 | 0.78 | 0.85 | 29.62 | 7.27 | 3.38 | 4.02 | 2.83 | 13.27 | 1.25 | | 12.7 |
| 4000 | 2 | 2879 | 50 | 230 | 15.03 | 0.78 | 0.86 | 29.62 | 7.27 | 3.38 | 4.02 | 2.83 | 13.27 | 1.25 | 7.3 | |

P_N = Rated power
 n_p = Number of poles
 n_N = Rated speed of rotor
 f_N = Rated frequency
 U_N = Rated voltage
 I_N = Rated current
 $\cos\varphi$ = Power factor
 η = Efficiency
 J_R = Rotor moment of inertia

I_s/I_N = Ratio of startup current – rated current
 M_s/M_N = Ratio of startup torque – rated torque
 M_B/M_N = Ratio of pull-out torque – rated torque
 M_P/M_N = Ratio of pull-up torque – rated torque
 M_N = Rated torque of rotor
 R_M = Branch resistance
 $U_{SH\Delta}$ = Heater voltage in delta connection
 U_{SHY} = Heater voltage in star connection

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Mechanical data for 3-phase asynchronous motor (form-fit belts or without belt)

| P_N [W] | n_p | gs | i | v [m/s] | n_A [min ⁻¹] | M_A [Nm] | F_N [N] | FW_{MIN} [mm] | SL_{MIN} [mm] |
|--------------|-------|----|-------|------------|-------------------------------|---------------|--------------|--------------------|--------------------|
| 306 | 8 | 3 | 62.37 | 0.126 | 11.0 | 248.6 | 2286 | 407 | 400 |
| 455 | 6 | 3 | 62.37 | 0.162 | 14.3 | 286.7 | 2636 | 407 | 400 |
| 455 | 6 | 3 | 46.56 | 0.217 | 19.1 | 214.0 | 1968 | 407 | 400 |
| 620 | 4 | 3 | 62.37 | 0.254 | 22.3 | 249.8 | 2297 | 407 | 400 |
| 909 | 4 | 3 | 46.56 | 0.338 | 29.7 | 274.9 | 2527 | 407 | 400 |
| 909 | 4 | 3 | 39.31 | 0.400 | 35.2 | 237.0 | 2179 | 407 | 400 |
| 909 | 4 | 3 | 31.56 | 0.499 | 43.8 | 190.3 | 1750 | 407 | 400 |
| 909 | 4 | 3 | 24.6 | 0.640 | 56.2 | 148.3 | 1364 | 407 | 400 |
| 909 | 4 | 2 | 19.64 | 0.801 | 70.4 | 118.4 | 1089 | 407 | 400 |
| 909 | 4 | 2 | 14.66 | 1.074 | 94.3 | 88.4 | 813 | 407 | 400 |
| 909 | 4 | 2 | 12.38 | 1.271 | 111.6 | 74.6 | 686 | 407 | 400 |
| 909 | 2 | 3 | 24.6 | 1.318 | 115.8 | 72.0 | 662 | 407 | 400 |
| 909 | 2 | 2 | 19.64 | 1.651 | 145.0 | 57.5 | 529 | 407 | 400 |
| 909 | 2 | 2 | 14.66 | 2.212 | 194.3 | 42.9 | 395 | 407 | 400 |
| 909 | 2 | 2 | 12.38 | 2.620 | 230.0 | 36.2 | 333 | 407 | 400 |
| 909 | 2 | 2 | 9.65 | 3.361 | 295.1 | 28.3 | 260 | 407 | 400 |

P_N = Rated power
 n_p = Number of poles
 gs = Gear stages
 i = Speed ratio
 v = Speed

n_A = Shell rated speed
 M_A = Drum motor rated torque
 F_N = Drum motor rated belt pull
 FW_{MIN} = Minimum drum width
 SL_{MIN} = Minimum shell length

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Electrical data for 3-phase asynchronous motor (form-fit belts or without belt)

| P_N [W] | n_p | n_N [min ⁻¹] | f_N [Hz] | U_N [V] | I_N [A] | $\cos\varphi$ | η | J_R [kgcm ²] | I_S/I_N | M_S/M_N | M_B/M_N | M_P/M_N | M_N [Nm] | R_M [Ω] | $U_{SH\Delta}$ [V] | U_{SHY} [V] |
|--------------|-------|-------------------------------|---------------|--------------|--------------|---------------|--------|-------------------------------|-----------|-----------|-----------|-----------|---------------|--------------|-----------------------|------------------|
| 306 | 8 | 689 | 50 | 400 | 1.02 | 0.68 | 0.64 | 22.33 | 2.99 | 1.75 | 2.07 | 1.6 | 4.24 | 25.9 | | 26.9 |
| 306 | 8 | 689 | 50 | 230 | 1.77 | 0.68 | 0.64 | 22.33 | 2.99 | 1.75 | 2.07 | 1.6 | 4.24 | 25.9 | 15.6 | |
| 455 | 6 | 889 | 50 | 400 | 1.08 | 0.85 | 0.72 | 22.33 | 3.37 | 1.65 | 1.69 | 1.31 | 4.89 | 22.3 | | 30.7 |
| 455 | 6 | 889 | 50 | 230 | 1.87 | 0.85 | 0.72 | 22.33 | 3.37 | 1.65 | 1.69 | 1.31 | 4.89 | 22.3 | 17.7 | |
| 620 | 4 | 1391 | 50 | 400 | 1.32 | 0.85 | 0.8 | 11.56 | 4.52 | 1.88 | 2.06 | 1.35 | 4.26 | 12.7 | | 21.4 |
| 620 | 4 | 1391 | 50 | 230 | 2.29 | 0.85 | 0.8 | 11.56 | 4.52 | 1.88 | 2.06 | 1.35 | 4.26 | 12.7 | 12.4 | |
| 909 | 4 | 1382 | 50 | 400 | 1.98 | 0.83 | 0.8 | 13 | 4.53 | 2.1 | 2.21 | 1.58 | 6.28 | 7.8 | | 19.2 |
| 909 | 4 | 1382 | 50 | 230 | 3.43 | 0.83 | 0.8 | 13 | 4.53 | 2.1 | 2.21 | 1.58 | 6.28 | 7.8 | 11.1 | |
| 909 | 2 | 2848 | 50 | 400 | 1.81 | 0.87 | 0.83 | 7.08 | 7.03 | 3.33 | 3.62 | 2.97 | 3.05 | 6.2 | | 14.6 |
| 909 | 2 | 2848 | 50 | 230 | 3.14 | 0.87 | 0.84 | 7.08 | 7.03 | 3.33 | 3.62 | 2.97 | 3.05 | 6.2 | 8.5 | |

P_N = Rated power
 n_p = Number of poles
 U_N = Rated voltage
 I_N = Rated current
 $\cos\varphi$ = Power factor
 η = Efficiency
 J_R = Rotor moment of inertia
 I_S/I_N = Ratio of startup current – rated current

M_S/M_N = Ratio of startup torque – rated torque
 M_B/M_N = Ratio of pull-out torque – rated torque
 M_P/M_N = Ratio of pull-up torque – rated torque
 M_N = Rated torque of rotor
 R_M = Branch resistance
 $U_{SH\Delta}$ = Heater voltage in delta connection
 U_{SHY} = Heater voltage in star connection

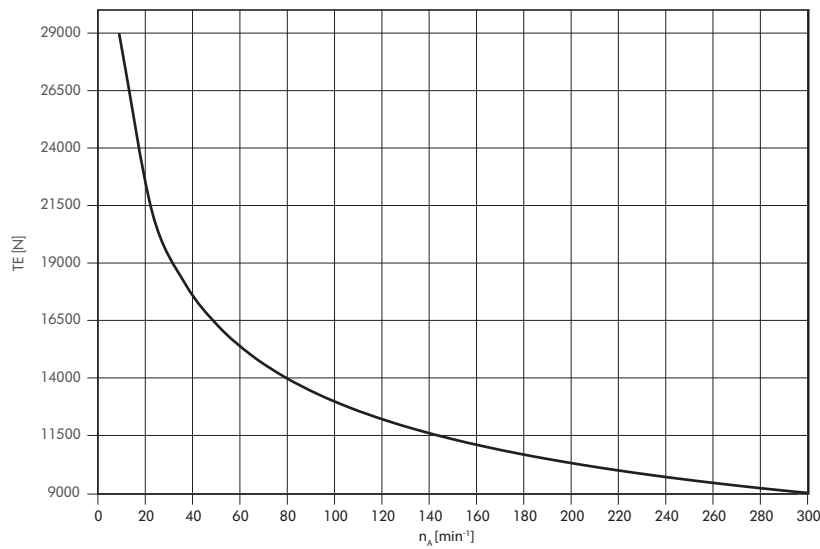
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Belt tension diagrams

Belt tension depending on rated speed of shell



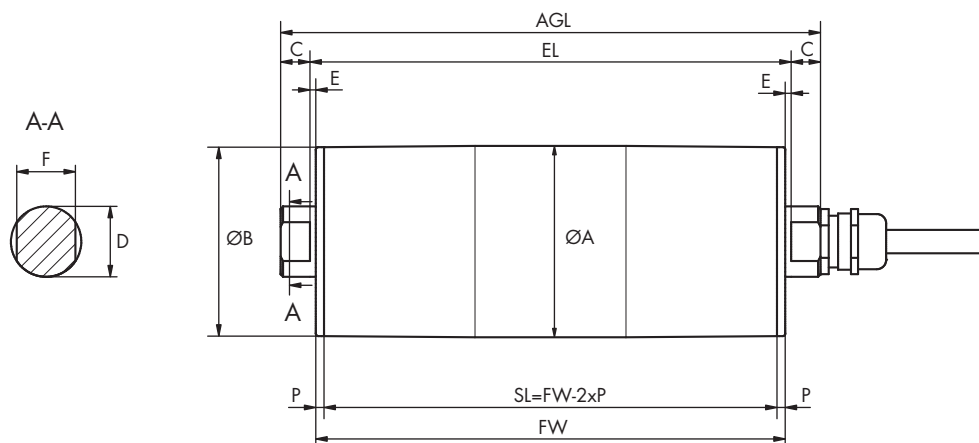
Note: The correct value for the maximum permissible belt tension is determined from the maximum permissible TE value for the rpm of the drum motor. The TE value for the shell length does not have to be taken into account for the standard motor DM 0217. The belt tension diagrams apply only to standard shafts.

- TE = Belt tension
- n_A = Shell rated speed
- FW = Drum width

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Dimensions

Drum motor



| Type | | A [mm] | B [mm] | C [mm] | D [mm] | S [mm] | F [mm] | P [mm] | SL [mm] | EL [mm] | AGL [mm] |
|---------------------------------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|------------|-------------|
| DM 0217 crowned | Standard | 217.5 | 215.5 | 45 | 30 | 16.5 | 25 | 5 | FW - 10 | FW + 33 | FW + 123 |
| | Optional | 217.5 | 215.5 | 45 | 40 | 16.5 | 30 | 5 | FW - 10 | FW + 33 | FW + 123 |
| DM 0217 cylindrical | Standard | 215.5 | 215.5 | 45 | 30 | 16.5 | 25 | 5 | FW - 10 | FW + 33 | FW + 123 |
| | Optional | 215.5 | 215.5 | 45 | 40 | 16.5 | 30 | 5 | FW - 10 | FW + 33 | FW + 123 |
| DM 0217 cylindrical + key | Standard | 215.5 | 215.5 | 45 | 30 | 16.5 | 25 | 5 | FW - 10 | FW + 33 | FW + 123 |
| | Optional | 215.5 | 215.5 | 45 | 40 | 16.5 | 30 | 5 | FW - 10 | FW + 33 | FW + 123 |

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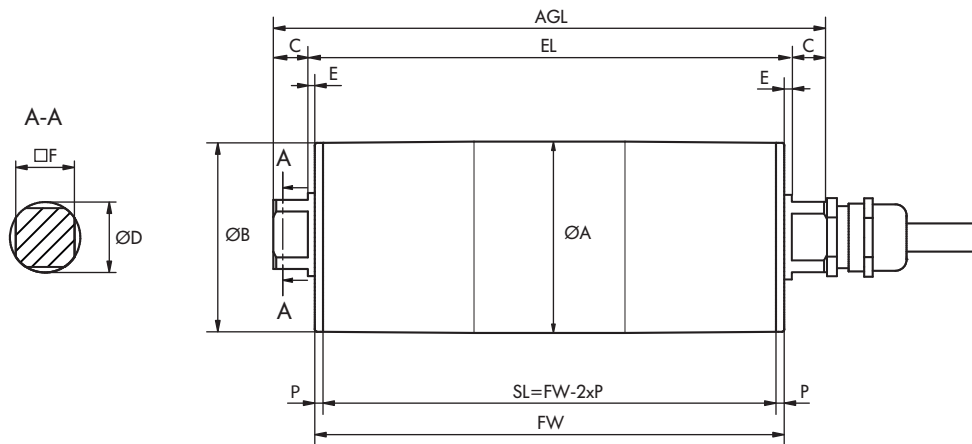


Fig.: Square shaft

| Type | | A [mm] | B [mm] | C [mm] | D [mm] | S [mm] | F [mm] | P [mm] | SL [mm] | EL [mm] | AGL [mm] |
|--|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|------------|-------------|
| DM 0217 crowned | Standard | 217.5 | 215.5 | 45 | 30 | 16.5 | 25 | 5 | FW - 10 | FW + 33 | FW + 123 |
| DM 0217 cylindrical | Standard | 215.5 | 215.5 | 45 | 30 | 16.5 | 25 | 5 | FW - 10 | FW + 33 | FW + 123 |
| DM 0217 cylindrical + key | Standard | 215.5 | 215.5 | 45 | 30 | 16.5 | 25 | 5 | FW - 10 | FW + 33 | FW + 123 |