

# DRUM MOTOR 113LS

## 113.0Ø 0.035kW - 0.55kW, with steel helical gearbox

### Product description

This drum motor has been designed specifically for applications that require a strong drive.

#### Characteristics

- Salt water resistant aluminum bearing housing
- Three phase AC induction motor
- 3-phase dual voltage standard
- Integral motor protection
- Hardened steel helical gear type
- Low noise operation
- Maintenance free
- Lifetime lubrication
- Reversible operation
- Reinforced internal shaft for RL exceeding 800 mm

#### Applications

- Heavy and frequent use Conveyors
- Conveyors for check-in at airports
- Packaging equipment
- Weighing Machines
- Metal detector
- Pharmaceutical industries
- Food processing
- Plastic or modular belt applications
- Dry, damp and wash down applications

### TECHNICAL DATA

#### Motor Data

|  |   |
|--|---|
| Type of Motor                          | Asynchronous squirrel-cage, IEC 34 (VDE 0530)   |
| Insulation class of motor windings     | Class F, IEC 34 (VDE 0530)  |
| Derated windings (20% power reduction) | On request for applications without belt  |
| Voltage                                | 230/400 V ± 5% (IEC 34/38) single voltage<br>Dual voltage or special voltage on request |
| Frequency                              | 50/60 Hz  |
| Internal shaft sealing system          | Double-lipped FPM or nitrile; NBR   |
| Protection rate                        | IP66, IP69 in TS8N Version  |
| Thermal protection                     | Bimetallic Contact  |
| Ambient temperature, 3-phase motor     | -5°C to + 40°C mineral oil<br>-25°C to + 40°C synthetic oil                             |

#### General technical data

|                         |         |
|-------------------------|---------|
| Max. Roller length (RL) | 1200 mm |
|-------------------------|---------|

All data and values declared in the catalogue refer to operation with a frequency of 50 Hz.



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## Materials

The following drum motor components are available in different versions, as shown in the below chart, with further options for the material type as indicated.

| Components            | Version                           | Material  |       |                 |               |         |
|-----------------------|-----------------------------------|-----------|-------|-----------------|---------------|---------|
|                       |                                   | Aluminium | Steel | Stainless Steel | Brass /Nickel | Polymer |
| Shell                 | Crowned                           |           | Std   | TS8N            |               |         |
|                       | Cylindrical                       |           | Std   | TS8N            |               |         |
|                       | Cylindrical + key (for sprockets) |           | Std   | TS8N            |               |         |
|                       | Special crowns and grooves        |           | Std   | TS8N            |               |         |
| End housing           | Standard                          | Std       |       | TS8N            |               |         |
|                       | With V-grooves                    |           |       | TS8N            |               |         |
|                       | With O-grooves                    |           |       | TS8N            |               |         |
| Shaft                 | Standard                          |           |       | Std             |               |         |
|                       | Cross-drilled and threaded, M6    |           |       | Std             |               |         |
| Electrical connection | Straight connector                |           |       | TS8N            | Std           |         |
|                       | Elbow connector                   |           |       | TS8N            |               | Std     |
|                       | Terminal box                      | Std       |       | TS8N            |               |         |

Please contact Rulmeca for further versions.

**TS8N Version** - End Caps in stainless steel with PTFE lip seals.

## Options

- Rubber Lagging for standard belts
- Profiled lagging for plastic modular belts
- Profiled lagging for thermoplastic belts
- Sprockets for plastic modular belts
- Backstop / Anti run-back bearing
- Electromagnetic brake
- Rectifiers
- Encoder
- Food-grade Oil (EU, FDA and USDA)
- Non-horizontal mounting (more than  $\pm 5^\circ$ )
- Dynamic balancing

## Note

The combination of encoder and electromagnetic brake is not possible.

## Accessories

- Mounting brackets
- Idler Pulleys
- Rollers for conveyors
- Shaft caps
- Frequency Converters

# DRUM MOTOR 113LS

## 113.0Ø 0.035kW - 0.55kW, with steel helical gearbox

### TECHNICAL DATA DRUM MOTOR 113LS - 3PHASE - 50HZ - STANDARD RANGE

| $P_N$<br>[kW] | np<br>(rpm) | $I_n$<br>[A] | gs    | i          | $V_A$<br>[m/s] | $V_N$<br>[m/s] | $n_A$<br>[min <sup>-1</sup> ] | $M_N$<br>[Nm] | $F_T$<br>[N]        | RL<br>[mm]          |                     |
|---------------|-------------|--------------|-------|------------|----------------|----------------|-------------------------------|---------------|---------------------|---------------------|---------------------|
| 0.035         | 12<br>(420) | 0.80/0.46    | 3     | 42.66      | 0.06           | 0.05           | 9.8                           | 32.3          | 571                 | min 250<br>max 1200 |                     |
|               |             |              |       | 36.35      | 0.07           | 0.06           | 11.6                          | 27.5          | 486                 |                     |                     |
|               |             |              |       | 31.36      | 0.08           | 0.07           | 13.4                          | 23.7          | 420                 |                     |                     |
| 0.07          | 12<br>(380) | 1.11/0.64    | 3     | 42.66      | 0.05           | 0.05           | 8.9                           | 71.3          | 1262                | min 300<br>max 1200 |                     |
|               |             |              |       | 36.35      | 0.06           | 0.06           | 10.5                          | 60.7          | 1075                |                     |                     |
|               |             |              |       | 31.36      | 0.07           | 0.07           | 12.1                          | 52.4          | 928                 |                     |                     |
| 0.08          | 8<br>(635)  | 0.97/0.56    | 3     | 42.66      | 0.09           | 0.09           | 14.9                          | 48.8          | 863                 | min 250<br>max 1200 |                     |
| 0.10          | 6<br>(900)  | 0.90/0.52    | 3     | 42.66      | 0.12           | 0.11           | 21.1                          | 43.0          | 761                 |                     |                     |
|               |             |              |       | 36.35      | 0.15           | 0.13           | 24.8                          | 36.6          | 648                 |                     |                     |
|               |             |              |       | 31.36      | 0.17           | 0.16           | 28.7                          | 31.6          | 559                 |                     |                     |
|               |             |              |       | 27.32      | 0.19           | 0.18           | 32.9                          | 27.5          | 487                 |                     |                     |
|               |             |              |       | 23.99      | 0.22           | 0.22           | 37.5                          | 24.2          | 428                 |                     |                     |
|               |             |              | 21.18 | 0.25       | 0.25           | 42.5           | 21.3                          | 378           |                     |                     |                     |
|               |             |              | 15.17 | 0.35       | 0.32           | 59.3           | 15.3                          | 271           |                     |                     |                     |
|               |             |              | 12.92 | 0.41       | 0.40           | 69.7           | 13.0                          | 230           |                     |                     |                     |
|               |             |              | 11.15 | 0.48       | 0.45           | 80.7           | 11.2                          | 199           |                     |                     |                     |
|               |             |              | 42.66 | 0.09       | 0.09           | 14.8           | 92.1                          | 1631          | min 300<br>max 1200 |                     |                     |
| 36.35         | 0.10        | 0.11         | 17.3  | 78.5       | 1390           |                |                               |               |                     |                     |                     |
| 31.36         | 0.12        | 0.13         | 20.1  | 67.7       | 1199           |                |                               |               |                     |                     |                     |
| 0.15          | 4<br>(1370) | 1.02/0.59    | 3     | 42.66      | 0.19           | 0.18           | 32.1                          | 42.4          | 750                 |                     | min 250<br>max 1200 |
|               |             |              |       | 36.35      | 0.22           | 0.22           | 37.7                          | 36.1          | 639                 |                     |                     |
|               |             |              |       | 31.36      | 0.26           | 0.25           | 43.7                          | 31.1          | 551                 |                     |                     |
|               |             |              |       | 27.32      | 0.30           | 0.30           | 50.1                          | 27.1          | 480                 |                     |                     |
|               |             |              |       | 23.99      | 0.34           | 0.32           | 57.1                          | 23.8          | 422                 |                     |                     |
|               |             |              | 21.18 | 0.38       | 0.38           | 64.7           | 21.0                          | 372           |                     |                     |                     |
|               |             |              | 15.17 | 0.53       | 0.50           | 90.3           | 15.1                          | 267           |                     |                     |                     |
|               |             |              | 12.92 | 0.63       | 0.63           | 106.0          | 12.8                          | 227           |                     |                     |                     |
|               |             |              | 11.15 | 0.73       | 0.70           | 122.9          | 11.1                          | 196           |                     |                     |                     |
|               |             |              | 0.20  | 6<br>(895) | 1.44/0.84      | 3              | 42.66                         | 0.12          | 0.13                | 21.0                |                     |
| 36.35         | 0.15        | 0.14         |       |            |                |                | 24.6                          | 73.7          | 1304                |                     |                     |
| 31.36         | 0.17        | 0.16         |       |            |                |                | 28.5                          | 63.6          | 1125                |                     |                     |
| 27.32         | 0.19        | 0.20         |       |            |                |                | 32.8                          | 55.4          | 980                 |                     |                     |
| 23.99         | 0.22        | 0.22         |       |            |                |                | 37.3                          | 48.6          | 861                 |                     |                     |
| 21.18         | 0.25        | 0.25         |       |            |                | 42.3           | 42.9                          | 760           |                     |                     |                     |
| 15.17         | 0.35        | 0.35         |       |            |                | 59.0           | 30.8                          | 544           |                     |                     |                     |
| 12.92         | 0.41        | 0.40         |       |            |                | 69.3           | 26.2                          | 464           |                     |                     |                     |
| 11.15         | 0.47        | 0.50         |       |            |                | 80.3           | 22.6                          | 400           |                     |                     |                     |

$P_N$  Nominal mechanical power

np Number of poles

rpm Actual rotor rpm at full load

$I_n$  Amperage (230/400V) at full load

gs Gear stages

i Gear ratio

$V_A$  Theoretical actual belt (tangential) speed at full load\*

$V_N$  Nominal belt (tangential) speed

$n_A$  Revolutions of shell at full load\*

$M_N$  Nominal Torque at full load

$F_T$  Belt pull (tangential force) on shell at full load\*

RL Reference length

\* Valid for unlagged shells/ values can deviate at partly or no load conditions

# DRUM MOTOR 113LS

113.0Ø 0.035kW - 0.55kW, with steel helical gearbox

TECHNICAL DATA DRUM MOTOR 113LS - 3PHASE - 50HZ - STANDARD RANGE

| $P_N$<br>[kW] | np<br>(rpm) | $I_n$<br>[A] | gs        | i     | $V_A$<br>[m/s] | $V_N$<br>[m/s] | $n_A$<br>[min <sup>-1</sup> ] | $M_N$<br>[Nm] | $F_T$<br>[N] | RL<br>[mm]          |
|---------------|-------------|--------------|-----------|-------|----------------|----------------|-------------------------------|---------------|--------------|---------------------|
| 0.24          | 2<br>(2766) | 1.12/0.65    | 3         | 42.66 | 0.38           | 0.38           | 64.8                          | 33.6          | 594          | min 250<br>max 1200 |
|               |             |              |           | 36.35 | 0.45           | 0.45           | 76.1                          | 28.6          | 506          |                     |
|               |             |              |           | 31.36 | 0.52           | 0.50           | 88.2                          | 24.7          | 437          |                     |
|               |             |              |           | 27.32 | 0.60           | 0.60           | 101.2                         | 21.5          | 381          |                     |
|               |             |              |           | 23.99 | 0.68           | 0.70           | 115.3                         | 18.9          | 334          |                     |
|               |             |              | 21.18     | 0.77  | 0.80           | 130.6          | 16.7                          | 295           |              |                     |
|               |             |              | 2         | 15.17 | 1.08           | 1.10           | 182.3                         | 11.9          | 211          |                     |
|               |             |              |           | 12.92 | 1.27           | 1.25           | 214.1                         | 10.2          | 180          |                     |
| 11.15         | 1.47        | 1.50         |           | 248.1 | 8.8            | 155            |                               |               |              |                     |
| 0.30          | 4<br>(1390) | 1.66/0.96    | 3         | 42.66 | 0.19           | 0.20           | 32.6                          | 83.5          | 1478         | min 300<br>max 1200 |
|               |             |              |           | 36.35 | 0.23           | 0.22           | 38.2                          | 71.2          | 1260         |                     |
|               |             |              |           | 31.36 | 0.26           | 0.25           | 44.3                          | 61.4          | 1087         |                     |
|               |             |              |           | 27.32 | 0.30           | 0.30           | 50.9                          | 53.5          | 947          |                     |
|               |             |              |           | 23.99 | 0.34           | 0.35           | 57.9                          | 47.0          | 831          |                     |
|               |             |              | 21.18     | 0.39  | 0.38           | 65.6           | 41.5                          | 734           |              |                     |
|               |             |              | 2         | 15.17 | 0.54           | 0.50           | 91.6                          | 29.7          | 526          |                     |
|               |             |              |           | 12.92 | 0.64           | 0.63           | 107.6                         | 25.3          | 448          |                     |
| 11.15         | 0.74        | 0.70         |           | 124.7 | 21.8           | 386            |                               |               |              |                     |
| 0.37          | 4<br>(1350) | 1.94/1.12    | 3         | 42.66 | 0.19           | 0.18           | 31.6                          | 106.1         | 1877         | min 300<br>max 1200 |
|               |             |              |           | 36.35 | 0.22           | 0.22           | 37.1                          | 90.4          | 1600         |                     |
|               |             |              |           | 31.36 | 0.25           | 0.25           | 43.0                          | 78.0          | 1380         |                     |
|               |             |              |           | 27.32 | 0.29           | 0.30           | 49.4                          | 67.9          | 1202         |                     |
|               |             |              |           | 23.99 | 0.33           | 0.32           | 56.3                          | 59.6          | 1056         |                     |
|               | 21.18       | 0.38         | 0.38      | 63.7  | 52.7           | 932            |                               |               |              |                     |
|               | 2           | 15.17        | 0.53      | 0.50  | 89.0           | 37.7           | 668                           |               |              |                     |
|               |             | 12.92        | 0.62      | 0.60  | 104.5          | 32.1           | 569                           |               |              |                     |
|               |             | 11.15        | 0.72      | 0.70  | 121.1          | 27.7           | 491                           |               |              |                     |
|               |             | 2            | 1.56/0.90 | 3     | 21.18          | 0.78           | 0.80                          | 132.2         | 25.4         |                     |
| 2             |             |              |           |       | 15.17          | 1.09           | 1.10                          | 184.6         | 18.2         | 322                 |
|               | 12.92       |              |           |       | 1.28           | 1.25           | 216.7                         | 15.5          | 274          |                     |
| 0.55          | 2<br>(2790) | 2.20/1.27    | 3         | 42.66 | 0.39           | 0.38           | 65.4                          | 76.3          | 1350         | min 300<br>max 1200 |
|               |             |              |           | 36.35 | 0.45           | 0.45           | 76.8                          | 65.0          | 1151         |                     |
|               |             |              |           | 31.36 | 0.53           | 0.50           | 89.0                          | 56.1          | 993          |                     |
|               |             |              |           | 27.32 | 0.60           | 0.60           | 102.1                         | 48.9          | 865          |                     |
|               |             |              |           | 23.99 | 0.69           | 0.70           | 116.3                         | 42.9          | 759          |                     |
|               |             |              | 21.18     | 0.78  | 0.80           | 131.7          | 37.9                          | 670           |              |                     |
|               |             |              | 2         | 15.17 | 1.09           | 1.10           | 183.9                         | 27.1          | 480          |                     |
|               |             |              |           | 12.92 | 1.28           | 1.25           | 215.9                         | 23.1          | 409          |                     |
|               |             |              |           | 11.15 | 1.48           | 1.50           | 250.2                         | 19.9          | 353          |                     |

**DRUM MOTOR 113LS**

113.0Ø 0.035kW - 0.55kW, with steel helical gearbox

**TECHNICAL DATA DRUM MOTOR 113LS - 3PHASE - 50HZ - DERATED RANGE**

| $P_N$<br>[kW] | np<br>(rpm) | $I_n$<br>[A] | gs    | i           | $V_A$<br>[m/s] | $V_N$<br>[m/s] | $n_A$<br>[min <sup>-1</sup> ] | $M_N$<br>[Nm] | $F_T$<br>[N] | RL<br>[mm]          |      |      |
|---------------|-------------|--------------|-------|-------------|----------------|----------------|-------------------------------|---------------|--------------|---------------------|------|------|
| 0.12          | 4<br>(1364) | 0.73/0.42    | 3     | 42.66       | 0.19           | 0.18           | 32.0                          | 34.0          | 603          | min 250<br>max 1200 |      |      |
|               |             |              |       | 36.35       | 0.22           | 0.22           | 37.5                          | 29.0          | 513          |                     |      |      |
|               |             |              |       | 31.36       | 0.26           | 0.25           | 43.5                          | 25.0          | 443          |                     |      |      |
|               |             |              |       | 27.32       | 0.30           | 0.30           | 49.9                          | 21.8          | 386          |                     |      |      |
|               |             |              |       | 23.99       | 0.34           | 0.32           | 56.9                          | 19.1          | 339          |                     |      |      |
|               |             |              | 21.18 | 0.38        | 0.38           | 64.4           | 16.9                          | 299           |              |                     |      |      |
|               |             |              | 2     | 15.17       | 0.53           | 0.50           | 89.9                          | 12.1          | 214          |                     |      |      |
|               |             |              |       | 12.92       | 0.62           | 0.63           | 105.6                         | 10.3          | 183          |                     |      |      |
|               |             |              |       | 11.15       | 0.72           | 0.70           | 122.3                         | 8.9           | 158          |                     |      |      |
|               |             |              | 0.25  | 4<br>(1410) | 1.44/0.83      | 3              | 42.66                         | 0.20          | 0.20         |                     | 33.1 | 68.6 |
| 36.35         | 0.23        | 0.22         |       |             |                |                | 38.8                          | 58.5          | 1035         |                     |      |      |
| 31.36         | 0.27        | 0.25         |       |             |                |                | 45.0                          | 50.4          | 893          |                     |      |      |
| 27.32         | 0.31        | 0.30         |       |             |                |                | 51.6                          | 43.9          | 778          |                     |      |      |
| 23.99         | 0.35        | 0.35         |       |             |                |                | 58.8                          | 38.6          | 683          |                     |      |      |
| 21.18         | 0.39        | 0.38         |       |             |                | 66.6           | 34.1                          | 603           |              |                     |      |      |
| 2             | 15.17       | 0.55         |       |             |                | 0.50           | 92.9                          | 24.4          | 432          |                     |      |      |
|               | 12.92       | 0.65         |       |             |                | 0.63           | 109.1                         | 20.8          | 368          |                     |      |      |
|               | 11.15       | 0.75         |       |             |                | 0.70           | 126.5                         | 17.9          | 317          |                     |      |      |
| 0.31          | 4<br>(1380) | 1.64/0.95    |       |             |                | 3              | 42.66                         | 0.19          | 0.18         | 32.3                | 86.9 | 1539 |
|               |             |              | 36.35 | 0.22        | 0.22           |                | 38.0                          | 74.1          | 1311         |                     |      |      |
|               |             |              | 31.36 | 0.26        | 0.25           |                | 44.0                          | 63.9          | 1131         |                     |      |      |
|               |             |              | 27.32 | 0.30        | 0.30           |                | 50.5                          | 55.7          | 985          |                     |      |      |
|               |             |              | 23.99 | 0.34        | 0.32           |                | 57.5                          | 48.9          | 865          |                     |      |      |
|               |             |              | 21.18 | 0.39        | 0.38           | 65.2           | 43.2                          | 764           |              |                     |      |      |
|               |             |              | 2     | 15.17       | 0.54           | 0.50           | 91.0                          | 30.9          | 547          |                     |      |      |
|               |             |              |       | 12.92       | 0.63           | 0.60           | 106.8                         | 26.3          | 466          |                     |      |      |
|               | 11.15       | 0.73         |       | 0.70        | 123.8          | 22.7           | 402                           |               |              |                     |      |      |
|               | 2<br>(2800) | 1.26/0.73    | 2     | 3           | 21.18          | 0.78           | 0.80                          | 132.2         | 21.3         | 377                 |      |      |
|               |             |              |       | 2           | 15.17          | 1.09           | 1.10                          | 184.6         | 15.2         | 270                 |      |      |
|               |             |              |       | 12.92       | 1.28           | 1.25           | 216.7                         | 13.0          | 230          |                     |      |      |
|               |             |              |       | 11.15       | 1.49           | 1.50           | 251.1                         | 11.2          | 198          |                     |      |      |
|               |             |              |       |             |                |                |                               |               |              |                     |      |      |

Derated motors are used in applications, where standard windings tend to overheat, typically in applications with no belt as modular belting, in hot environments or when thick lagging is required on shell. To gain the full benefit of the deration, the drum motor has to be operated close to or at full load. Derated motors should not be used together with Frequency Converters. In case of doubts Rulmeca offers technical support to order the optimal motor setup for the application.

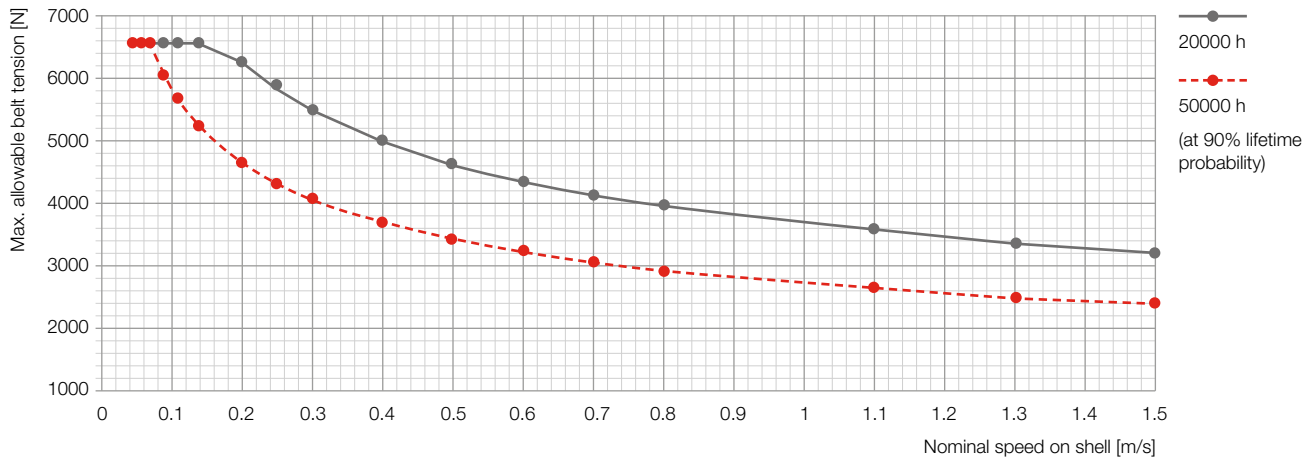
$P_N$  Nominal mechanical power  
 $n_p$  Number of poles  
 rpm Actual rotor rpm at full load  
 $I_n$  Amperage (230/400V) at full load  
 gs Gear stages  
 i Gear ratio  
 $V_A$  Theoretical actual belt (tangential) speed at full load\*  
 $V_N$  Nominal belt (tangential) speed  
 $n_A$  Revolutions of shell at full load\*

$M_N$  Nominal Torque at full load  
 $F_T$  Belt pull (tangential force) on shell at full load\*  
 RL Reference length  
 \* Valid for unlagged shells/ values can deviate at partly or no load conditions

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## Belt tension diagram



For the right allowable belt tension value please check the accordant nominal speed on the drum motor shell.

## STANDARD WEIGHTS FOR DRUM MOTOR 113LS

| P <sub>N</sub> [kW] | np | Standard weight [kg] for standard RL [mm] |      |       |       |       |       |       |       |       |       |       |       |       |       |       |
|---------------------|----|---|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|                     |    | 250                                       | 260  | 300   | 310   | 360   | 410   | 460   | 510   | 560   | 610   | 660   | 710   | 810   | 910   | 1010  |
| 0.04                | 12 | 7.20                                      | 7.35 | 7.95  | 8.10  | 8.85  | 9.60  | 10.35 | 11.10 | 11.85 | 12.60 | 13.35 | 14.10 | 18.80 | 20.30 | 21.80 |
| 0.07                | 12 | ---                                       | ---  | 10.10 | 10.25 | 11.00 | 11.75 | 12.50 | 13.25 | 14.00 | 14.75 | 15.50 | 16.25 | 20.95 | 22.45 | 23.95 |
| 0.08                | 8  | 7.20                                      | 7.35 | 7.95  | 8.10  | 8.85  | 9.60  | 10.35 | 11.10 | 11.85 | 12.60 | 13.35 | 14.10 | 18.80 | 20.30 | 21.80 |
| 0.10                | 6  | 7.20                                      | 7.35 | 7.95  | 8.10  | 8.85  | 9.60  | 10.35 | 11.10 | 11.85 | 12.60 | 13.35 | 14.10 | 18.80 | 20.30 | 21.80 |
| 0.15                | 8  | ---                                       | ---  | 10.10 | 10.25 | 11.00 | 11.75 | 12.50 | 13.25 | 14.00 | 14.75 | 15.50 | 16.25 | 20.95 | 22.45 | 23.95 |
|                     | 4  | 7.20                                      | 7.35 | 7.95  | 8.10  | 8.85  | 9.60  | 10.35 | 11.10 | 11.85 | 12.60 | 13.35 | 14.10 | 18.80 | 20.30 | 21.80 |
| 0.20                | 6  | ---                                       | ---  | 7.95  | 8.10  | 8.85  | 9.60  | 10.35 | 11.10 | 11.85 | 12.60 | 13.35 | 14.10 | 18.80 | 20.30 | 21.80 |
| 0.24                | 2  | 7.20                                      | 7.35 | 7.95  | 8.10  | 8.85  | 9.60  | 10.35 | 11.10 | 11.85 | 12.60 | 13.35 | 14.10 | 18.80 | 20.30 | 21.80 |
| 0.30                | 4  | ---                                       | ---  | 10.10 | 10.25 | 11.00 | 11.75 | 12.50 | 13.25 | 14.00 | 14.75 | 15.50 | 16.25 | 20.95 | 22.45 | 23.95 |
| 0.37                | 4  | ---                                       | ---  | 10.10 | 10.25 | 11.00 | 11.75 | 12.50 | 13.25 | 14.00 | 14.75 | 15.50 | 16.25 | 20.95 | 22.45 | 23.95 |
|                     | 2  | ---                                       | ---  | 10.10 | 10.25 | 11.00 | 11.75 | 12.50 | 13.25 | 14.00 | 14.75 | 15.50 | 16.25 | 20.95 | 22.45 | 23.95 |
| idler (UT113LS)     | -  | 5.35                                      | 6.10 | 6.85  | 7.60  | 8.35  | 9.10  | 9.85  | 10.60 | 11.35 | 12.10 | 12.85 | 13.60 | 14.35 | 15.10 | 16.60 |

Other RL dimension within the min & max RL available on request.

## Cable specification

Available cable options:

- Standard, screened
- Standard, unscreened
- Halogen-free, screened
- Halogen-free, unscreened

Available lengths: 1/3/5 m.

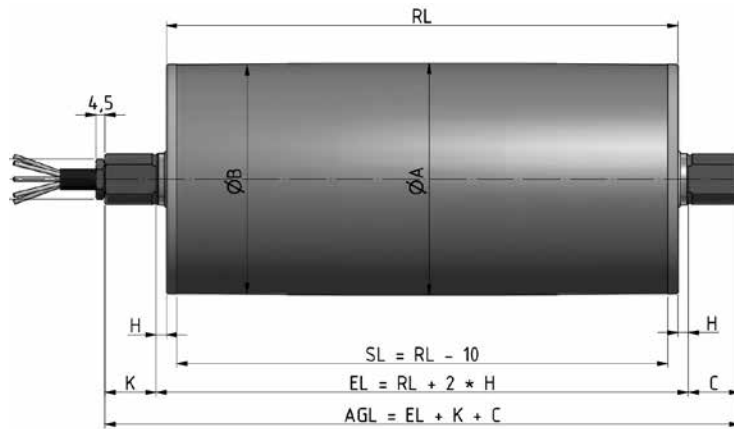
## Min. length with option

The following options increase the minimum length of the drum motor

| Option      | RL min with option mm |
|-------------|-----------------------|
| Brake       | RL min + 50 mm        |
| Encoder SKF | RL min + 0 mm         |
| Encoder RLS | RL min + 50 mm        |

## DRUM MOTOR 113LS

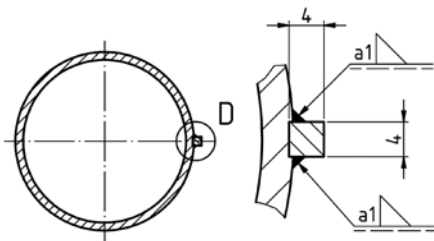
113.0Ø 0.035kW - 0.55kW, with steel helical gearbox



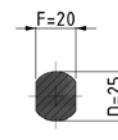
Drum motor with straight connector in stainless steel

| Drum shell shape     | ØA [mm] | ØB [mm] |
|----------------------|---------|---------|
| Crowned              | 113.0   | 111.5   |
| Cylindrical          | 112.0   | 112.0   |
| Cylindrical with key | 113.0   | 113.0   |

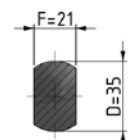
| Shaft dimension | Width across flats [mm] | H [mm] | K [mm] | C [mm] |
|-----------------|-------------------------|--------|--------|--------|
| Ø25mm           | 20                      | 5      | 25     | 25     |
| Ø35mm           | 21                      | 3      | 20     | 20     |



Drum motor with key 4x4



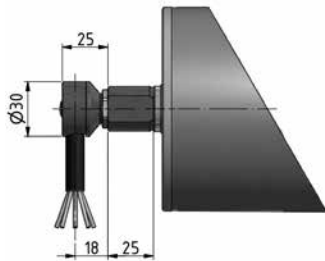
Standard shaft



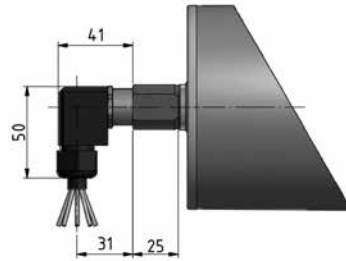
Shaft cap

# DRUM MOTOR 113LS

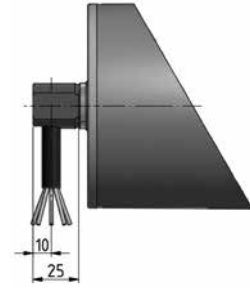
113.0Ø 0.035kW - 0.55kW, with steel helical gearbox



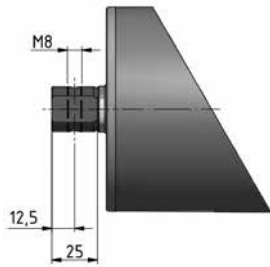
Elbow connector in stainless steel



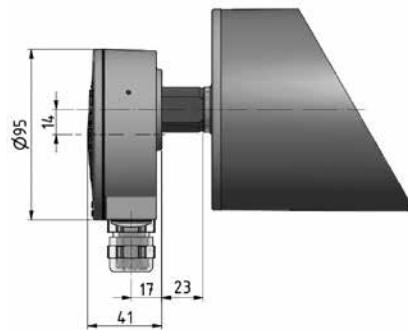
Elbow connector in polyamide



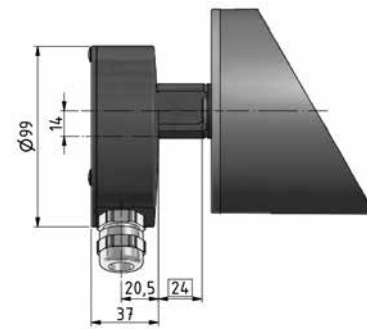
Cable slot 90° with threaded shaft



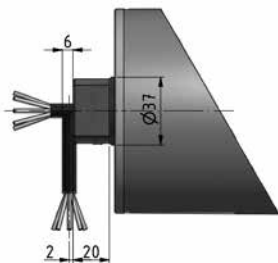
Cross-drilled and threaded shaft



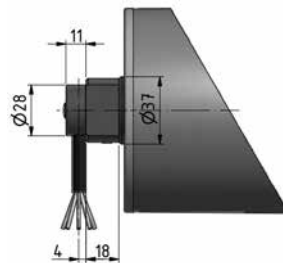
Terminal box in aluminium



Terminal box in stainless steel



Shaft cap Uni in stainless steel



Elbow connector with shaft cap in stainless steel