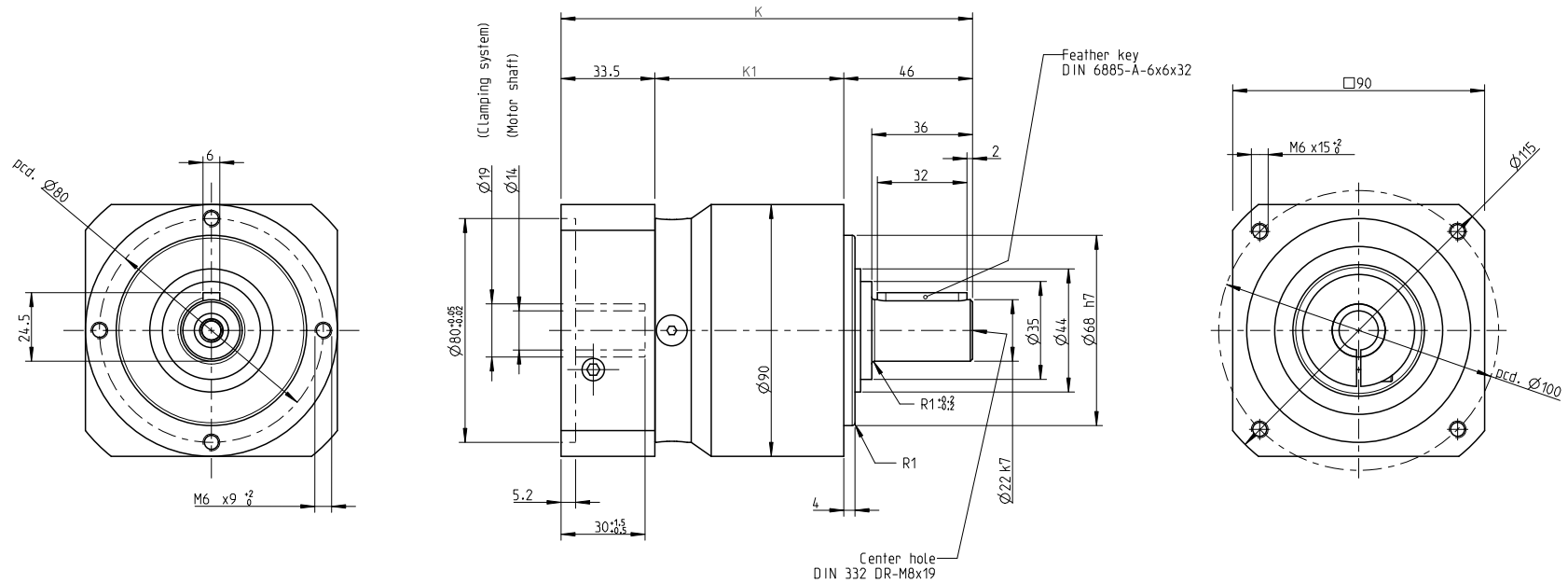


| Engineering data        |                 | Mechanical data            |                        |
|-------------------------|-----------------|----------------------------|------------------------|
| Ratio                   | 9               | Radial force for 20'000h   | 1900 N*                |
| Number of stages        | 2               | Radial force for 30'000h   | 1700 N*                |
| Rated output torque     | 52 Nm           | Max. radial force          | 3100 N*                |
| Cycling output torque   | 97 Nm           | Axial force for 20'000h    | 2000 N                 |
| Max output torque       | 146 Nm          | Axial force for 30'000h    | 1500 N                 |
| Emergency output torque | 260 Nm          | Max. axial force           | 3800 N                 |
| Rated input speed       | 4000 rpm        | Protection                 | IP54                   |
| Max input speed         | 7000 rpm        | Input inertia              | 0.62 kgcm <sup>2</sup> |
| Efficiency              | 97 %*           | Mass                       | 3.92 kg                |
| Operating temperature   | <-25; 90> °C    | Tilting moment for 20'000h | 99 Nm                  |
| Backlash                | < 9 arcmin      | Tilting moment for 30'000h | 89 Nm                  |
| Service life            | 20000 h         | Max. bending moment        | 16 Nm                  |
| Running noise           | 60 dB(A)        | Output shaft design        | Shaft key              |
| Torsional stiffness     | 16.10 Nm/arcmin |                            |                        |

\* at rated speed & torque

\* Defined for point of action at ½ output shaft length

| Lubrication  |                               | Supported motors      |                             |
|--------------|-------------------------------|-----------------------|-----------------------------|
| Type         | Standard                      | Motor types           | TGN3, TGT3, TGH3            |
| Lubricant    | Grease (lifetime lubrication) | Clamping diameter     | 19 mm                       |
| Customs info |                               | Input flange          | Motor adaptation - one part |
| HS Code      | 84834090                      | Installation position | Any                         |



| NO OF STAGES | K     | K1   |
|--------------|-------|------|
| I. stage     | 147   | 67,5 |
| II. stage    | 164,5 | 85   |

|               |       |            |           |                  |              |
|---------------|-------|------------|-----------|------------------|--------------|
| INDEX         | ZMĚNA | DATUM      | PODPIS    |                  |              |
|               |       |            |           |                  |              |
| ZM.MAT.       |       |            | T.O.      | HMOTNOST kg      | MĚŘ.         |
| ROZM.-POLOT.  |       |            |           |                  |              |
| ROZM. ZAŘ.    |       |            |           | ČSN              | TR.Č.        |
| VYPR.         |       | NORM. REF. |           | POZN.            | Č. KUSOVNÍKU |
| PŘEKR.        |       |            |           |                  |              |
| TECHNOL.      |       | SCHVÁLIL.  | 12.9.2020 | STARÝ V.         | Č.V.         |
| NÁZEV         |       |            |           |                  |              |
| Gearbox SG090 |       |            |           | TGN3, TGH3, TGT3 |              |
|               |       |            |           | Listů            | List         |