



output shaft bearing: grooved ball bearing 2RS

- max. radial load: 1300N by  $n_2=100$  1/min  $L_h > 10.000h$
- max. axial load: 500N by  $n_2=100$  1/min  $L_h > 10.000h$
- reference to shaft center at temp. =  $30^\circ\text{C}$

straight-toothed planetary gearbox  
backlash at output shaft:

$\leq 14$  arcmin; reduced  $\leq 8$  arcmin

lifetime:  $> 30.000h$

efficiency: by rated load 92% (depends on ratio)

lubrication: lifetime-lubrication

nominal output torque at  $n_1 = 3000$  1/min

operating temperature:  $-20^\circ\text{C}$  bis  $+90^\circ\text{C}$

motor mounting: M2 (stocked driving pinion)

- torque of clamping screw: 6 Nm
- operation mode: S1
- operation ratio: CB1
- protection system IP 54

|                               |     |     |     |     |     |     |     |     |     |
|-------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| $i =$                         | 12  | 16  | 20  | 25  | 35  | 40  | 50  | 70  | 100 |
| nominal output torque [Nm]    | 80  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 64  |
| max. acceleration torque [Nm] | 100 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 80  |
| emergency torque [Nm]         | 160 | 216 | 216 | 216 | 216 | 216 | 216 | 216 | 160 |

consider mounting instruction  
subject to modifications

|                        |          |       |      |                                  |                  |   |            |
|------------------------|----------|-------|------|----------------------------------|------------------|---|------------|
| Zust                   | Änderung | Datum | Name | Ursprung                         | Ersatz für:      | Ersatz durch:   | Blatt<br>1 |
|                        |          |       |      |                                  | DS084.0445-2     |   | 1 Bl.      |
| Verwendungsbereich     |          |       |      | Allgemein-toleranzen ISO 2768-mH | Kanten ISO 13715 | Maßstab (Werkstoff, Halbzeug) (Rohteil-Nr) (Modell- oder Gesenk-Nr) | (Gewicht)  |
| Datum                  |          |       |      | Bearb. 11.06.16                  | Name BITZER      | EPL 84/2 14x30  |            |
| Norm                   |          |       |      | Gepr.                            |                  | pd38,1 bc66,7 4xM4 ø84  |            |
| Tolerierung ISO 8015   |          |       |      |                                  |                  |   |            |
| EISELE Antriebstechnik |          |       |      |                                  |                  |   |            |