

NUP2018E.M3

Cylindrical Roller Bearings (single row, with cage)



Details:

Main dimensions

| | | | |
|-------------|----------------|----------------|-----------------|
| d [mm] | 90 | d_1 [mm] | ≈ 107.6 |
| D [mm] | 140 | D_1 [mm] | ≈ 124.4 |
| B [mm] | 30 | $r_{1,2}$ [mm] | 1.5 |
| Weight [kg] | ≈ 1.79 | $r_{3,4}$ [mm] | 1.1 |
| F [mm] | 102 | s [mm] | 2 |



| Mating dimensions | | Calculation data | |
|--------------------|-----|--------------------------------|------|
| $d_{a, \min}$ [mm] | 97 | C [kN] | 162 |
| $d_{c, \min}$ [mm] | 110 | C_0 [kN] | 225 |
| $D_{a, \max}$ [mm] | 133 | C_u [kN] | 29.2 |
| $r_{a, \max}$ [mm] | 1.5 | n_{th} [min^{-1}] | 4150 |
| | | n_g [min^{-1}] | 6300 |