



HK1816

Drawn cup needle roller bearing open end

Schaeffler ID:
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Drawn cup needle roller bearings with
open ends HK, to DIN 618/ISO 3245

Technical information



Main Dimensions & Performance Data

| | | |
|------------------------|--------------|---------------------------------------|
| F_w | 18 mm | Under roller diameter |
| D | 24 mm | Outside diameter |
| C | 16 mm | Width |
| C_r | 11,600 N | Basic dynamic load rating, radial |
| C_{0r} | 17,300 N | Basic static load rating, radial |
| C_{ur} | 2,180 N | Fatigue load limit, radial |
| n_G | 14,000 1/min | Limiting speed |
| $n_{G \text{ Grease}}$ | 8,400 1/min | Limiting speed for grease lubrication |
| n_{gr} | 10,400 1/min | Reference speed |
| | 16.98 g | Weight |

Dimensions

| | | |
|-----------|---------------|---------------------------|
| | SD18X24X3 | Sealing ring |
| C_1 | 16 mm | Width, outer ring |
| r_{min} | 0.8 mm | Minimum chamfer dimension |
| | G18X24X3 | Sealing ring 2 |
| | LR15X18X16,5 | Suitable inner rings LR |
| | IR15X18X16-XL | Suitable inner rings IR |

Temperature range

| | | |
|-----------|--------|----------------------------|
| T_{min} | -30 °C | Operating temperature min. |
| T_{max} | 140 °C | Operating temperature max. |