## Special bearings

### Bearing Designation
PLC 05-13

### Dimensions (mm)

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>d</td>
<td>30</td>
</tr>
<tr>
<td>D</td>
<td>74,2</td>
</tr>
<tr>
<td>B</td>
<td>16</td>
</tr>
<tr>
<td>C</td>
<td>28</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>R</td>
<td>-</td>
</tr>
<tr>
<td>( r_s ) min</td>
<td>1</td>
</tr>
<tr>
<td>( r_{1s} ) min</td>
<td>0,6</td>
</tr>
</tbody>
</table>

### Basic Load Rating (kN)

<table>
<thead>
<tr>
<th>Rating</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>C</td>
<td>19,600</td>
</tr>
<tr>
<td>( C_0 )</td>
<td>11,200</td>
</tr>
</tbody>
</table>

### Limiting Speed for Lubrication (min⁻¹)

<table>
<thead>
<tr>
<th>Lubrication</th>
<th>Speed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grease</td>
<td>11000</td>
</tr>
<tr>
<td>Oil</td>
<td>-</td>
</tr>
</tbody>
</table>

### Weight [kg]
0,545

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Tolerance Symbols and Their Meaning

d  nominal bore diameter
\(d_1\)  nominal diameter of larger theoretical tapered bore diameter
\(d_2\)  nominal diameter of the shaft washer bore diameter deviation in single radial plane
\(\Delta_{1a}\)  mean cylindrical bore diameter deviation in single radial plane
\(\Delta_{a\text{rep}}\)  deviation of mean larger theoretical diameter of tapered bore
\(\Delta_{1\text{rep}}\)  mean shaft washer bore diameter deviation of double direction thrust bearings in single radial plane
\(V_{1p}\)  single bore diameter variation in single radial plane
\(V_{a\text{rep}}\)  mean cylindrical bore diameter variation
\(V_{a\text{rep}}\)  shaft washer bore diameter variation of double direction thrust bearings in single radial plane
D  nominal outside diameter
\(\Delta_{2a}\)  deviation of single outside diameter from the nominal dimension
\(\Delta_{2\text{rep}}\)  mean outside cylindrical surface diameter deviation in single plane
\(V_{2p}\)  single outside cylindrical surface diameter variation in single radial plane
\(V_{2p}\)  mean outside cylindrical surface diameter variation
B  inner ring nominal width
T  total nominal width of tapered roller bearings
\(T_1\)  nominal effective width of cup sub-unit
\(T_2\)  nominal effective width of cone sub-unit
H  rated width of unidirectional axial bearing
H  rated height of unidirectional ball axial bearing including the body ring
H  rated height of bidirectional axial bearing
H  rated height of bidirectional axial ball bearing including body rings
H  rated height of spherical-roller bearing
\(H_{1a}\)  inner ring single width deviation
\(H_{1a}\)  outer ring single width deviation
\(H_{2a}\)  bearing single width deviation (total)
\(H_{1a}\)  cone sub-unit effective width deviation
\(H_{2a}\)  cup sub-unit effective width deviation
\(H_{1s}\)  height deviation of single direction axial bearings from nominal value
\(H_{2s}\)  height deviation of single direction axial ball bearings with spheroid housing washer from nominal value
\(H_{2s}\)  height deviation of double direction axial roller bearings from nominal value
\(H_{3s}\)  height deviation of double direction axial ball bearings with spheroid housing washer from nominal value
\(H_{3s}\)  height deviation of radial spherical-roller bearing from the rated value
C  outer ring nominal width
\(V_{1a}\)  inner ring single width variation
\(V_{2a}\)  outer ring single width variation
\(K_{a}\)  radial runout of assembled bearing inner ring
\(S_{a}\)  radial runout of assembled bearing outer ring
\(S_{a}\)  shaft washer raceway axial runout
\(S_{a}\)  housing washer raceway axial runout
\(S_{a}\)  inner ring flat seat face axial runout of assembled bearings
\(S_{a}\)  outer ring flat seat face axial runout of assembled bearings
\(S_{a}\)  flat seat face axial runout
\(S_{a}\)  runout of supporting face towards seat face for single row tapered roller bearings