PROTECT YOUR TRANSMISSION SYSTEM

ComInTec®
Technology for Safety

TORQUE LIMITERS FOR GEARBOXES
Up to 1200 Nm

.../PR-V

- Overload protection
- Easy assembly and setting
- Maintenance free
- IP67 level of water ingress protection
- High corrosion resistance
- ATEX version on request
- Precision setting
- Special treatment for food/pharma applications
DSS/F/SG/PR-V - backlash free ball model for gearboxes (input shaft):

- Balls solution, torsional backlash free, maintenance free
- Instant disengagement between the driver and the driven component when the calibration torque is exceeded
- Available with 360° individual re-engagement
- Solution complete with zinc-plated STEEL connection flange for IEC and NEMA motors
- IP67 level of protection from external agents
- Integrated inductive sensor for monitoring overloads
- Maximum torque 720 Nm; maximum bore/shaft Ø48 mm
- Available pre-calibrated and ready for use
- Anticorrosive surface treatment option for specific requirements

<table>
<thead>
<tr>
<th>Size</th>
<th>Torque Nm</th>
<th>IEC Motor Flange BS</th>
<th>NEMA Motor Flange C</th>
<th>Speed Max (rpm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.47</td>
<td>3-23</td>
<td>63a 11 140 52.5 3.5</td>
<td>56C 5/8 6.7 3.07 7</td>
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<td>71a 14 160 54.5 4.2</td>
<td>143TC 7/8 6.7 3.07 7</td>
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<td>1.80</td>
<td>9-100</td>
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<td>2.96</td>
<td>10-200</td>
<td>90a 24 200 90 9</td>
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<td>3.116</td>
<td>35-415</td>
<td>100La 28 250 110 17</td>
<td>184TC 1-1/8 8.9 4.41 17</td>
<td>2500</td>
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<tr>
<td>4.138</td>
<td>75-720</td>
<td>16QL 42 350 126 33.5</td>
<td>256TC 1-5/8 8.9 5.28 20</td>
<td>1850</td>
</tr>
</tbody>
</table>

Δ: On request

PRX - inductive proximity sensor

- INOX IP67 stainless steel housing
- Electrical contact: 7 – 30 VCC and 4KHz work frequency
- Operating temperature from -20°C to +70°C
- Output type: NPN (N.O. - N.C.), PNP (N.O. - N.C.)
- Length of cable: 2 metres (3x0.2)
COMINTEC PR-V GEARBOX TORQUE LIMITERS PROTECT YOUR MOST EXPENSIVE SYSTEM COMPONENTS FROM TORQUE OVERLOADS. MOUNTED BETWEEN THE MOTOR AND THE GEARBOX INSTANTLY DISENGAGES COMPONENTS BEFORE DAMAGE OCCURS.

Applications
- Food & Beverage Equipment
- Wastewater Treatment
- Packaging Equipment
- Shredders/Recycling

How it works
- Mounts directly to the motor and gearbox
- Suited for flange motors and gearbox
- No design work required
- Instant disengagement

Construction
- Ball detent style
- Housing: Standard Zinc plated steel
- Torque Limiter: Machined Steel
- Sensor: inductive proximity integrated

Technical
- Units are preset to requested torque setting
- Torque setting is adjustable and easy to change
- Automatic reset after 360° rotation
- IP67 rated

<table>
<thead>
<tr>
<th></th>
<th>ComInTec PR-V model</th>
<th>High Torque Ball Detent</th>
<th>Friction Style</th>
<th>Electric Sensing</th>
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</thead>
<tbody>
<tr>
<td>Disengagement</td>
<td>Instant</td>
<td>Instant</td>
<td>Friction</td>
<td>Delayed</td>
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<tr>
<td>Installation</td>
<td>Simple interface with motor and gearbox</td>
<td>Output of Gearbox</td>
<td>Simple interface</td>
<td>Integrated into electronic circuits</td>
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<tr>
<td>Dimension</td>
<td>Compact design</td>
<td>Larger size due to high torque</td>
<td>Compact design</td>
<td>Small physical size</td>
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<tr>
<td>Maintenance</td>
<td>None required</td>
<td>None required</td>
<td>Replace worn components</td>
<td>Frequent checking of calibration</td>
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<tr>
<td>Price</td>
<td>€€€€€€</td>
<td>€€€€€€</td>
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</table>

COMINTEC PR-V MODEL OFFERS EASE OF DESIGN, INSTALLATION AND THE SAME PROTECTION OF THE HIGH TORQUE BALL DETENT DEVICES AT A BETTER PRICE POINT.
DF/TAC/PR-V - Friction model for gearboxes (input shaft):

- Friction solution, compact and economical
- The drive component slips when the calibration torque is exceeded without fully disengaging the drive transmission
- Asbestos free friction rings
- Available with friction rings with performance specifications designed to suit the application
- Solution including aluminium connection flanges for IEC motors
- Integrated inductive sensor option for monitoring overloads
- Maximum torque 1200 Nm; maximum bore/shaft ø55 mm
- Available pre-calibrated and ready for use
- Anticorrosion surface treatment option for specific requirements

<table>
<thead>
<tr>
<th>Size DF/TAC/PR-V</th>
<th>Torque [Nm]</th>
<th>IEC Motor Flange BS</th>
<th>Max Speed [rpm]</th>
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<tbody>
<tr>
<td>0.038</td>
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<td>63a</td>
<td>11</td>
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<tr>
<td></td>
<td></td>
<td>71a</td>
<td>14</td>
</tr>
<tr>
<td>0.50</td>
<td>2-100</td>
<td>80a</td>
<td>19</td>
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<td></td>
<td>90a</td>
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<td>1.70</td>
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<td>162M</td>
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<td>Δ 160L</td>
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<td>Δ 180L</td>
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<td>4.140</td>
<td>180-1200</td>
<td>Δ 200L</td>
<td>55</td>
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</tbody>
</table>

Δ On request

Model DF/TAC/PR-V complete with spacer to be assembled between the motor and gearbox with PRX inspection and sensor.

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