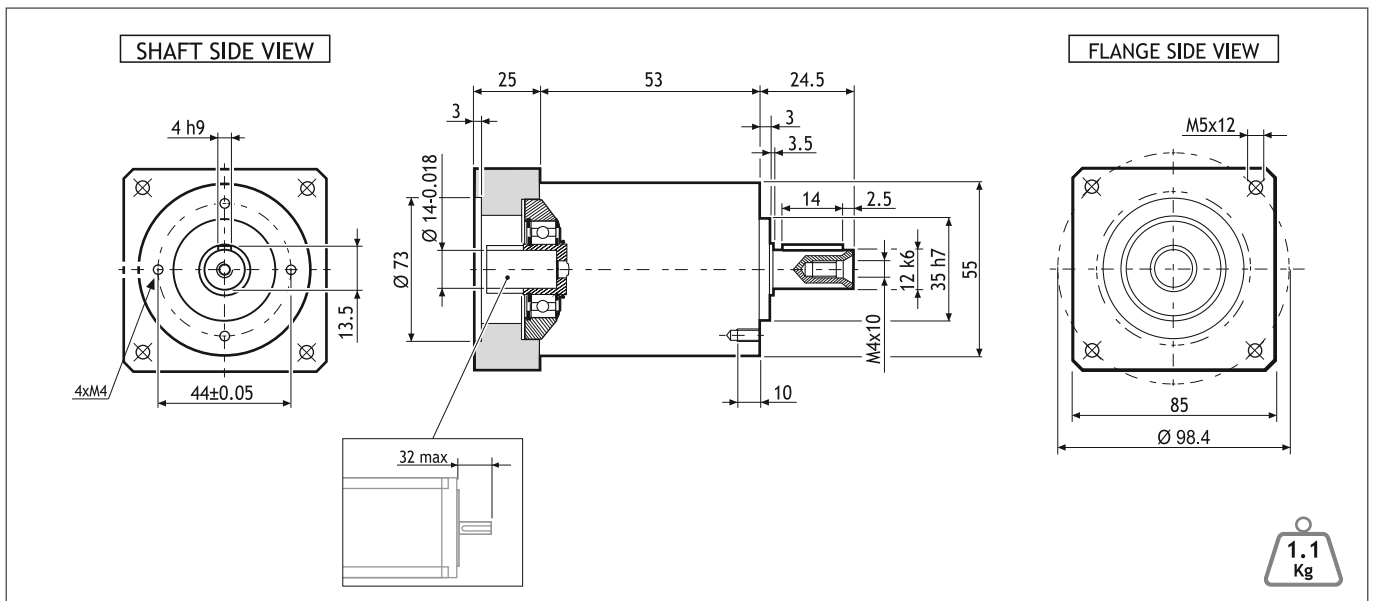


# SG-P11-050-005-12-SM-2861-00000



## Dimensions (Units:mm)



| MODEL                           | Rated output torque<br>[Nm] | Maximum acceleration output torque<br>[Nm] | Emergency step output torque<br>[Nm] | Backlash<br>[arcmin] | Nominal input speed<br>[min <sup>-1</sup> ] | Maximum momentary input speed<br>[min <sup>-1</sup> ] | Torsional stiffness<br>[Nm/arcmin] | Maximum radial force applying on output shaft<br>[N] | Maximum axial force applying on output shaft<br>[N] | Gear efficiency<br>[%] | Gear moment of inertia<br>[Kg·m <sup>2</sup> ] |
|---------------------------------|-----------------------------|--------------------------------------------|--------------------------------------|----------------------|---------------------------------------------|-------------------------------------------------------|------------------------------------|------------------------------------------------------|-----------------------------------------------------|------------------------|------------------------------------------------|
| SG-P11-050-005-12-SM-2861-00000 | 12                          | 20                                         | 30                                   | 12'                  | 3500                                        | 5000                                                  | 0.9                                | 500                                                  | 600                                                 | 97                     | 0.07x10 <sup>-4</sup>                          |

## Suggested motors

**RM 3R1M**

**MOUNTING OPERATION MODE:**
■ Tightening torque M=5 Nm
■ Locking bolt M4
■ R.T.A. Quality Control



R.T.A. s.r.l.  
Via E. Mattei - Fraz- Divisa  
27020 Marcignago (PV) (Italy)  
T +39.0382.929.855  
F +39.0382.929.150  
www.rta.it

R.T.A. Deutschland GmbH  
Bublitz Strasse 34, 40599  
Duesseldorf (Germany)  
T +49.211.749.668.60  
F +49.211.749.668.66  
www.rta-deutschland.de

R.T.A. IBERICA  
C/Generalitat 22, Local 1  
08850 Gava - Barcelona (Spain)  
T +34 936.388.805  
F +34 936.334.595  
www.rta-iberica.es

R.T.A. INDIA Pvt  
Teerth Business Center 3<sup>rd</sup> Floor, Unit No. 7,  
Block EL-15, MIDC Bhosari Pimpri-Chinchwad,  
Pune 411026 (India)  
Tel. +91 9422507445  
www.rta-india.in

# SG-P11-070-0XX-12-SM-286X-00000

i=003

i=005



PLANETARY GEARBOXES

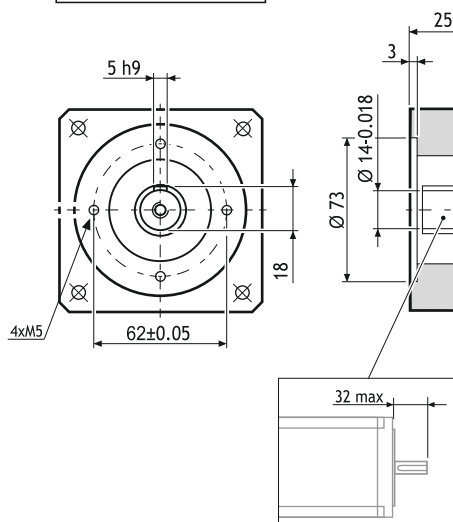
SG 070

$\varphi=12'$

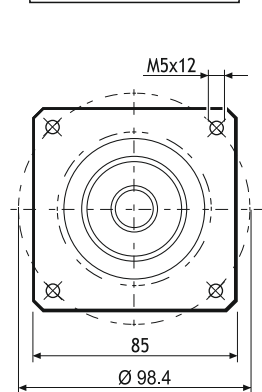


## Dimensions (Units:mm)

SHAFT SIDE VIEW

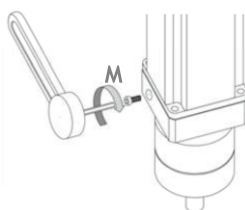


FLANGE SIDE VIEW

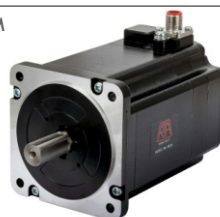


| MODEL                           | Rated output torque<br>[Nm] | Maximum acceleration output torque<br>[Nm] | Emergency step output torque<br>[Nm] | Backlash<br>[arcmin] | Nominal input speed<br>[min <sup>-1</sup> ] | Maximum momentary input speed<br>[min <sup>-1</sup> ] | Torsional stiffness<br>[Nm/arcmin] | Maximum radial force applying on output shaft<br>[N] | Maximum axial force applying on output shaft<br>[N] | Gear efficiency<br>[%] | Gear moment of inertia<br>[Kg·m <sup>2</sup> ] |
|---------------------------------|-----------------------------|--------------------------------------------|--------------------------------------|----------------------|---------------------------------------------|-------------------------------------------------------|------------------------------------|------------------------------------------------------|-----------------------------------------------------|------------------------|------------------------------------------------|
| SG-P11-070-003-12-SM-286X-00000 | 18                          | 30                                         | 60                                   | 12'                  | 3300                                        | 4000                                                  | 3                                  | 1300                                                 | 1400                                                | 97                     | 0.14x10 <sup>-4</sup>                          |
| SG-P11-070-005-12-SM-286X-00000 | 25                          | 35                                         | 70                                   | 12'                  | 3500                                        | 5000                                                  | 3                                  | 1300                                                 | 1400                                                | 97                     | 0.09x10 <sup>-4</sup>                          |

## Suggested motors



RM 3R2M



RM 3R3M



MOUNTING OPERATION MODE:

■ Tightening torque M=5 Nm

■ Locking bolt M4

■ R.T.A. Quality Control



R.T.A. s.r.l.  
Via E. Mattei - Fraz- Divisa  
27020 Marcignago (PV) (Italy)  
T +39.0382.929.855  
F +39.0382.929.150  
www.rta.it

R.T.A. Deutschland GmbH  
Bublitzer Strasse 34, 40599  
Duesseldorf (Germany)  
T +49.211.749.668.60  
F +49.211.749.668.66  
www.rta-deutschland.de

R.T.A. IBERICA  
C/Generalitat 22, Local 1  
08850 Gava - Barcelona (Spain)  
T +34 936.388.805  
F +34 936.334.595  
www.rta-iberica.es

R.T.A. INDIA Pvt  
Teerth Business Center 3<sup>rd</sup> Floor, Unit No. 7,  
Block EL-15, MIDC Bhosari Pimpri-Chinchwad,  
Pune 411026 (India)  
Tel. +91 9422507445  
www.rta-india.in

# SG-P11-070-010-12-SM-2861-00000

## PLANETARY GEARBOXES



SG 070

$i=010$

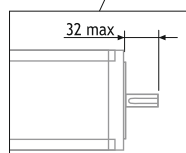
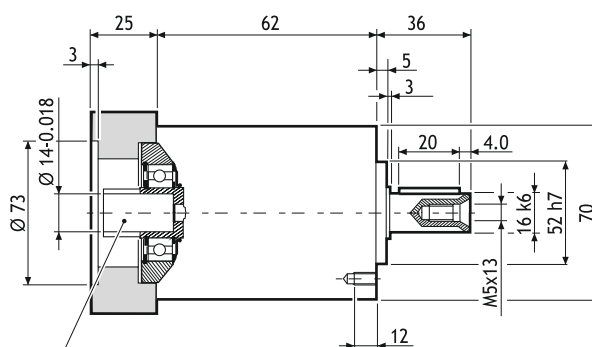
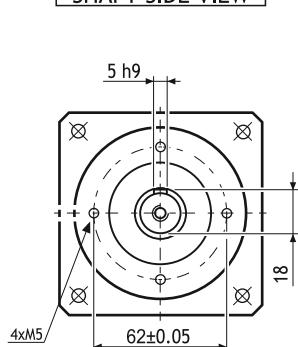
$\varphi=12'$

MADE  
IN  
ITALY

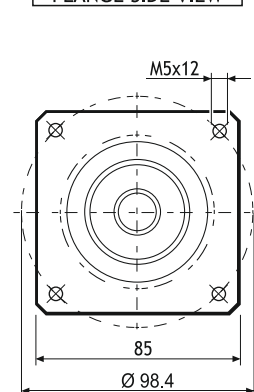
IP64

## Dimensions (Units:mm)

SHAFT SIDE VIEW



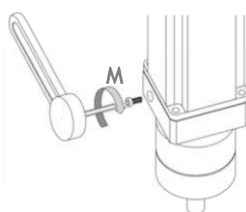
FLANGE SIDE VIEW



2.0  
Kg

| MODEL                           | Rated output torque<br>[Nm] | Maximum acceleration output torque<br>[Nm] | Emergency step output torque<br>[Nm] | Backlash<br>[arcmin] | Nominal input speed<br>[min <sup>-1</sup> ] | Maximum momentary input speed<br>[min <sup>-1</sup> ] | Torsional stiffness<br>[Nm/arcmin] | Maximum radial force applying on output shaft<br>[N] | Maximum axial force applying on output shaft<br>[N] | Gear efficiency<br>[%] | Gear moment of inertia<br>[Kg·m <sup>2</sup> ] |
|---------------------------------|-----------------------------|--------------------------------------------|--------------------------------------|----------------------|---------------------------------------------|-------------------------------------------------------|------------------------------------|------------------------------------------------------|-----------------------------------------------------|------------------------|------------------------------------------------|
| SG-P11-070-010-12-SM-2861-00000 | 18                          | 30                                         | 60                                   | 12'                  | 4000                                        | 6000                                                  | 3                                  | 1300                                                 | 1400                                                | 97                     | 0.04x10 <sup>-4</sup>                          |

## Suggested motors



RM 3R1M



c RU US

MOUNTING OPERATION MODE:

■ Tightening torque M=5 Nm

■ Locking bolt M4

■ R.T.A. Quality Control



R.T.A. s.r.l.  
Via E. Mattei - Fraz- Divisa  
27020 Marcignago (PV) (Italy)  
T +39.0382.929.855  
F +39.0382.929.150  
www.rta.it

R.T.A. Deutschland GmbH  
Bublitz Strasse 34, 40599  
Duesseldorf (Germany)  
T +49.211.749.668.60  
F +49.211.749.668.66  
www.rta-deutschland.de

R.T.A. IBERICA  
C/Generalitat 22, Local 1  
08850 Gava - Barcelona (Spain)  
T +34 936.388.805  
F +34 936.334.595  
www.rta-iberica.es

R.T.A. INDIA Pvt  
Teerth Business Center 3<sup>rd</sup> Floor, Unit No. 7,  
Block EL-15, MIDC Bhosari Pimpri-Chinchwad,  
Pune 411026 (India)  
Tel. +91 9422507445  
www.rta-india.in

# SG-P11-090-010-12-SM-286X-00000



## PLANETARY GEARBOXES

SG 090

$i=010$

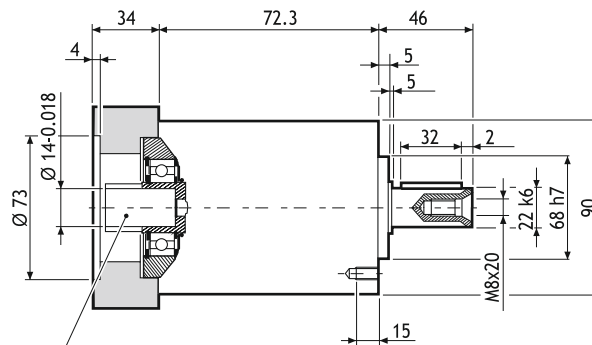
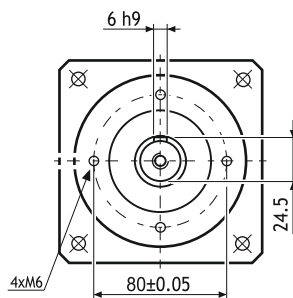
$\varphi=12'$

MADE  
IN  
ITALY

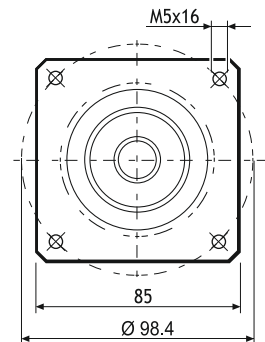
IP64

## Dimensions (Units:mm)

SHAFT SIDE VIEW



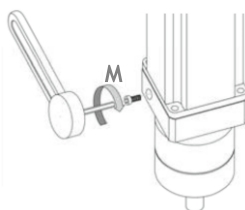
FLANGE SIDE VIEW



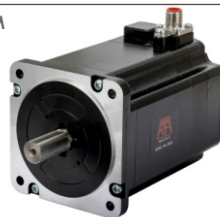
4.2  
Kg

| MODEL                           | Rated output torque<br>[Nm] | Maximum acceleration output torque<br>[Nm] | Emergency step output torque<br>[Nm] | Backlash<br>[arcmin] | Nominal input speed<br>[min <sup>-1</sup> ] | Maximum momentary input speed<br>[min <sup>-1</sup> ] | Torsional stiffness<br>[Nm/arcmin] | Maximum radial force applying on output shaft<br>[N] | Maximum axial force applying on output shaft<br>[N] | Gear efficiency<br>[%] | Gear moment of inertia<br>[Kg·m <sup>2</sup> ] |
|---------------------------------|-----------------------------|--------------------------------------------|--------------------------------------|----------------------|---------------------------------------------|-------------------------------------------------------|------------------------------------|------------------------------------------------------|-----------------------------------------------------|------------------------|------------------------------------------------|
| SG-P11-090-010-12-SM-286X-00000 | 37                          | 70                                         | 150                                  | 12'                  | 4000                                        | 6000                                                  | 9                                  | 2200                                                 | 1900                                                | 97                     | 0.35x10 <sup>-4</sup>                          |

## Suggested motors

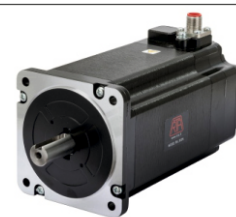


RM 3R2M



CALUS

RM 3R3M



CALUS

MOUNTING OPERATION MODE:

■ Tightening torque M=11 Nm

■ Locking bolt M6

■ R.T.A. Quality Control



R.T.A. s.r.l.  
Via E. Mattei - Fraz- Divisa  
27020 Marcignago (PV) (Italy)  
T +39.0382.929.855  
F +39.0382.929.150  
www.rta.it

R.T.A. Deutschland GmbH  
Bublitzer Strasse 34, 40599  
Duesseldorf (Germany)  
T +49.211.749.668.60  
F +49.211.749.668.66  
www.rta-deutschland.de

R.T.A. IBERICA  
C/Generalitat 22, Local 1  
08850 Gava - Barcelona (Spain)  
T +34 936.388.805  
F +34 936.334.595  
www.rta-iberica.es

R.T.A. INDIA Pvt  
Teerth Business Center 3<sup>rd</sup> Floor, Unit No. 7,  
Block EL-15, MIDC Bhosari Pimpri-Chinchwad,  
Pune 411026 (India)  
Tel. +91 9422507445  
www.rta-india.in