



PLANETARY GEARBOXES



PLANETARY GEARBOXES



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STEPPER GEARBOXES

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Key advantages of R.T.A. planetary gearboxes

SG series is a full range of planetary gearboxes combining high performance with optimal reliability. It features a perfect PLUG AND GO solution with R.T.A. stepper and servo motors.

- Low noise.
- High quality.
- High precision.
- High nominal and accelerants torque.
- Excellent radial and axial load carrying capacity.
- IP64 protection degree.
- Custom ratios available.



R.T.A. added value: the service

- Wide stock of models always available.
- Dedicated warehouse with quick restore.
- Professional service of assembling and testing.
- Quality test on every product to ensure the best performance and traceability.

R.T.A. Stock philosophy

R.T.A. gearboxes are always available at stock, guaranteeing very fast delivery times.



R.T.A. Plug&Go solution in 5 easy steps

R.T.A. offers an exclusive professional assembly service of stepper and servo motors with the wide range of planetary gearboxes.

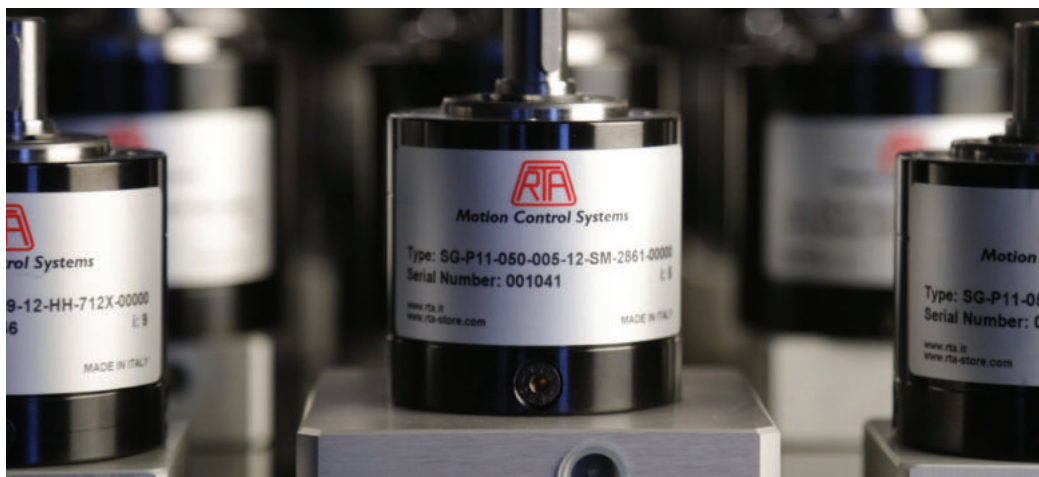
- Select the gearboxes and motors from our wide range of models always available in stock.
- Our highly qualified staff will make the assembly and testing of the products.
- The assembled motor/gearbox combo is ready to use.
- Processing and shipping times will be extremely fast.
- No more storage charges, assembly and quality control.



**PLUG
&
GO!**

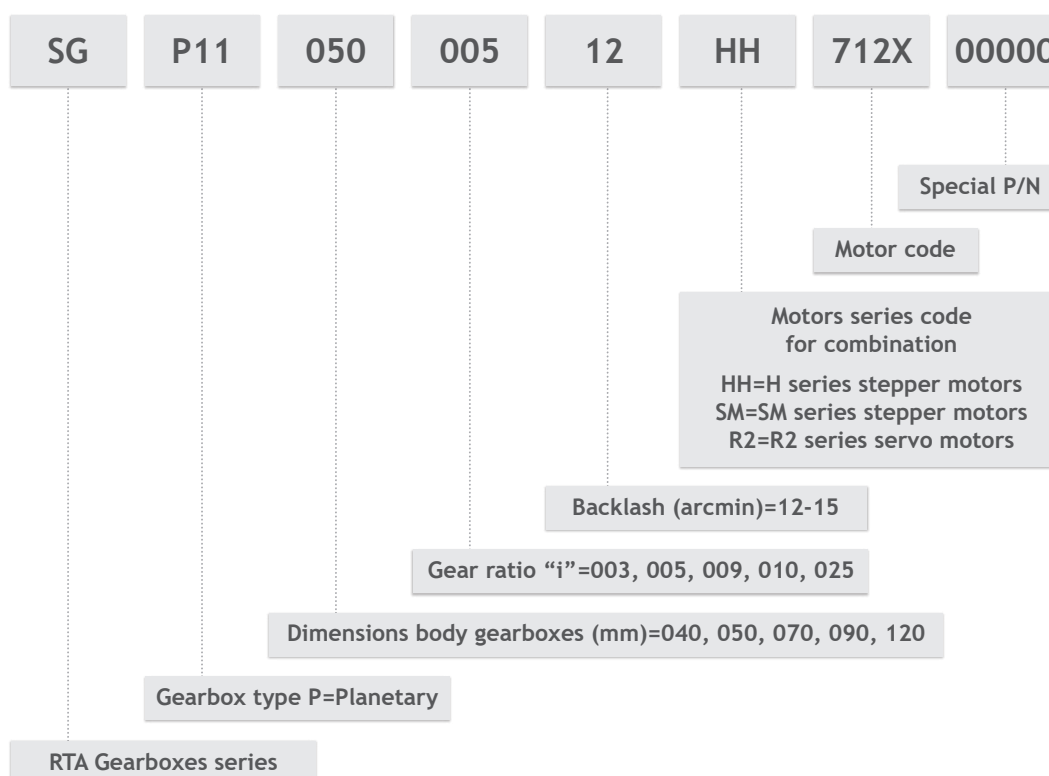


Planetary gearboxes encoding models




Motion Control Systems
 Type: SG-P11-050-005-12-HH-712X-00000
 Serial Number: xxxx i:xx
 www.rta.it www.rta-store.com MADE IN ITALY

ENCODING MODELS



2 series, 32 models

1 STEPPER GEARBOXES



- 16 models
- Motor flange coupling from Nema 17 to Nema 34
- i= 03, 05, 09, 10, 25
- Gearbox body from 40 mm to 90 mm
- IP 64 protection degree
- Low Backlash versions



**CUSTOM RATIOS
AVAILABLE**

**LOW BACKLASH
VERSIONS**

2 SERVO GEARBOXES



- 16 models
- Motor flange coupling from flange 40mm to 100mm
- i= 03, 05, 10, 25
- Gearbox body from 40 mm to 120 mm
- IP 64 protection degree



**CUSTOM RATIOS
AVAILABLE**

**LOW BACKLASH
VERSIONS**

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PLANETARY GEARBOXES

	GEARBOX BODY (mm)	MAX VELOCITY (min ⁻¹)	BACKLASH (arcmin)	RATED OUTPUT TORQUE	EMERGENCY TORQUE (Nm)	MOTOR COUPLING (Flange size)	PAGE
STEPPER GEARBOXES							
BODY SIZE Ø mm 40 MOTOR FLANGE mm 42 - SHAFT Ø mm 5							
SG-P12-040-005-15-HH-52XX-00000	40	5000	15'	12	30	NEMA 17	390
SG-P12-040-010-15-HH-52XX-00000	40	5000	15'	6	25	NEMA 17	390
SG-P12-040-025-19-HH-52XX-00000	40	5000	19'	12	30	NEMA 17	390
BODY SIZE Ø mm 55 MOTOR FLANGE mm 56 - SHAFT Ø mm 6.35							
SG-P11-050-003-12-HH-712X-00000	55	4000	12'	10	28	NEMA 23	391
SG-P11-050-005-12-HH-712X-00000	55	5000	12'	12	30	NEMA 23	391
SG-P11-050-009-12-HH-712X-00000	55	6000	12'	10	28	NEMA 23	391
BODY SIZE Ø mm 55 MOTOR FLANGE mm 60 - SHAFT Ø mm 8							
SG-P11-050-003-12-HH-782X-00000	55	4000	12'	10	28	60 mm	392
SG-P11-050-005-12-HH-782X-00000	55	5000	12'	12	30	60 mm	392
BODY SIZE Ø mm 55 MOTOR FLANGE mm 60 - SHAFT Ø mm 14							
SG-P11-050-003-12-HH-7826-00000	55	4000	12'	10	28	60 mm	393
BODY SIZE Ø mm 55 MOTOR FLANGE mm 85 - SHAFT Ø mm 14							
SG-P11-050-005-12-SM-2861-00000	55	5000	12'	12	30	NEMA 34	394
BODY SIZE Ø mm 70 MOTOR FLANGE mm 60- SHAFT Ø mm 8							
SG-P11-070-010-12-HH-782X-00000	70	6000	12'	18	60	60 mm	395

PLANETARY GEARBOXES

	GEARBOX BODY (mm)	MAX VELOCITY (min ⁻¹)	BACKLASH (arcmin)	RATED OUTPUT TORQUE	EMERGENCY TORQUE (Nm)	MOTOR COUPLING (Flange size)	PAGE
STEPPER GEARBOXES							
BODY SIZE Ø mm 70 MOTOR FLANGE mm 85 - SHAFT Ø mm 14							
SG-P11-070-010-12-SM-2861-00000	70	6000	12'	18	60	NEMA 34	396
BODY SIZE Ø mm 70 MOTOR FLANGE mm 85 - SHAFT Ø mm 14							
SG-P11-070-003-12-SM-286X-00000	70	4000	12'	18	60	NEMA 34	397
SG-P11-070-005-12-SM-286X-00000	70	5000	12'	25	70	NEMA 34	397
BODY SIZE Ø mm 90 MOTOR FLANGE 85 mm - SHAFT Ø mm 14							
SG-P11-090-010-12-SM-286X-00000	90	6000	12'	37	150	NEMA 34	398
SG-P11-090-025-15-SM-2861-00000	90	4500	15'	43	160	85 mm	399
BODY SIZE Ø mm 120 MOTOR FLANGE 86 mm - SHAFT Ø mm 14							
SG-P11-120-025-15-SM-286X-00000	 120	4500	15'	110	360	NEMA 34	400
SERVO GEARBOXES							
BODY SIZE Ø mm 40 MOTOR FLANGE mm 40 - SHAFT Ø mm 8							
SG-P12-040-005-15-R2-0100-00000	40	5000	15'	12	30	40 mm	403
SG-P12-040-010-15-R2-0100-00000	40	5000	15'	6	25	40 mm	403
SG-P12-040-025-19-R2-0100-00000	40	5000	19'	12	30	40 mm	403
BODY SIZE Ø mm 70 MOTOR FLANGE mm 60 - SHAFT Ø mm 14							
SG-P11-070-003-12-R2-0X00-00000	70	4000	12'	18	60	60 mm	404
SG-P11-070-005-12-R2-0X00-00000	70	5000	12'	25	70	60 mm	404
SG-P11-070-010-12-R2-0X00-00000	70	6000	12'	18	60	60 mm	404
BODY SIZE Ø mm 90 MOTOR FLANGE mm 60 - SHAFT Ø mm 14							
SG-P11-090-010-12-R2-0400-00000	90	6000	12'	37	150	60 mm	405
BODY SIZE Ø mm 90 MOTOR FLANGE mm 60 - SHAFT Ø mm 14							
SG-P11-090-025-15-R2-0X00-00000	90	4500	12'	43	160	60 mm	406
BODY SIZE Ø mm 90 MOTOR FLANGE mm 80 - SHAFT Ø mm 16							
SG-P11-090-003-12-R2-0750-00000	90	3500	12'	37	160	10 mm	407
SG-P11-090-005-12-R2-0750-00000	90	4500	12'	43	160	80 mm	407
SG-P11-090-010-12-R2-0750-00000	90	6000	12'	37	150	80 mm	407
BODY SIZE Ø mm 90 MOTOR FLANGE mm 100 - SHAFT Ø mm 16							
SG-P11-090-005-12-R2-1000-00000	90	4500	12'	43	160	100 mm	408
BODY SIZE Ø mm 120 MOTOR FLANGE mm 80 - SHAFT Ø mm 16							
SG-P11-120-010-12-R2-0750-00000	120	6000	12'	95	150	80 mm	409
SG-P11-120-025-15-R2-0750-00000	120	4500	12'	110	360	80 mm	409
BODY SIZE Ø mm 120 MOTOR FLANGE mm 100 - SHAFT Ø mm 16							
SG-P11-120-010-12-R2-1000-00000	120	5000	12'	95	300	100 mm	410
SG-P11-120-025-15-R2-1000-00000	120	4500	12'	110	360	100 mm	410

PLANETARY GEARBOXES

STEPPER GEARBOXES



SG-P11-050-00X-12-HH-712X-00000

i=003 i=005 i=009



PLANETARY GEARBOXES

SG 050

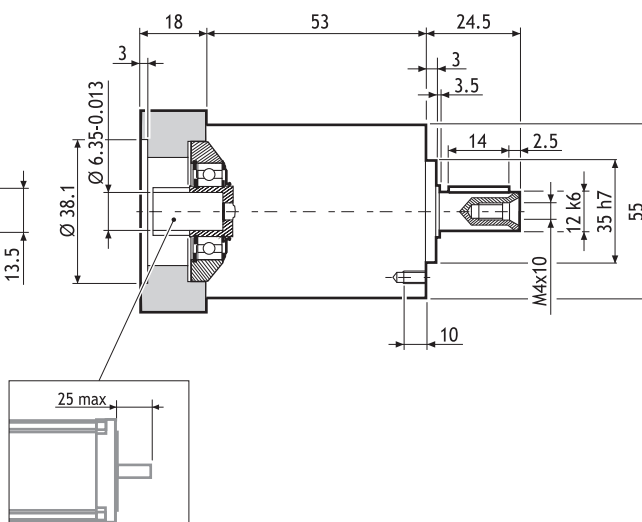
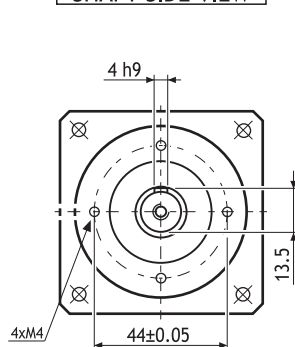
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MADE IN ITALY

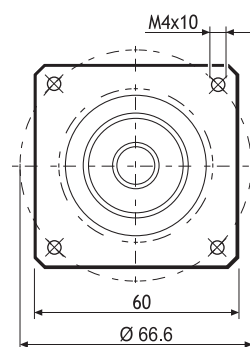
IP64

Dimensions (Units:mm)

SHAFT SIDE VIEW



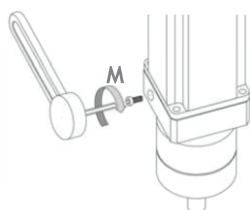
FLANGE SIDE VIEW



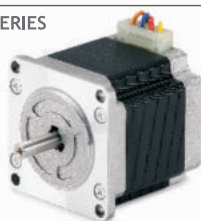
1.1 Kg

MODEL	Rated output torque [Nm]	Maximum acceleration output torque [Nm]	Emergency step output torque [Nm]	Backlash [arcmin]	Nominal input speed [min ⁻¹]	Maximum momentary input speed [min ⁻¹]	Torsional stiffness [Nm/arcmin]	Maximum radial force applying on output shaft [N]	Maximum axial force applying on output shaft [N]	Gear efficiency [%]	Gear moment of inertia [Kg·m ²]
SG-P11-050-003-12-HH-712X-00000	10	16	28	12'	3300	4000	0.9	500	600	97	0.07x10 ⁻⁴
SG-P11-050-005-12-HH-712X-00000	12	20	30	12'	3500	5000	0.9	500	600	97	0.05x10 ⁻⁴
SG-P11-050-009-12-HH-712X-00000	10	16	28	12'	4000	6000	0.9	500	600	97	0.04x10 ⁻⁴

Suggested motors



103-H7123 SERIES



103-H7126 SERIES



MOUNTING OPERATION MODE:

■ Tightening torque M=5 Nm

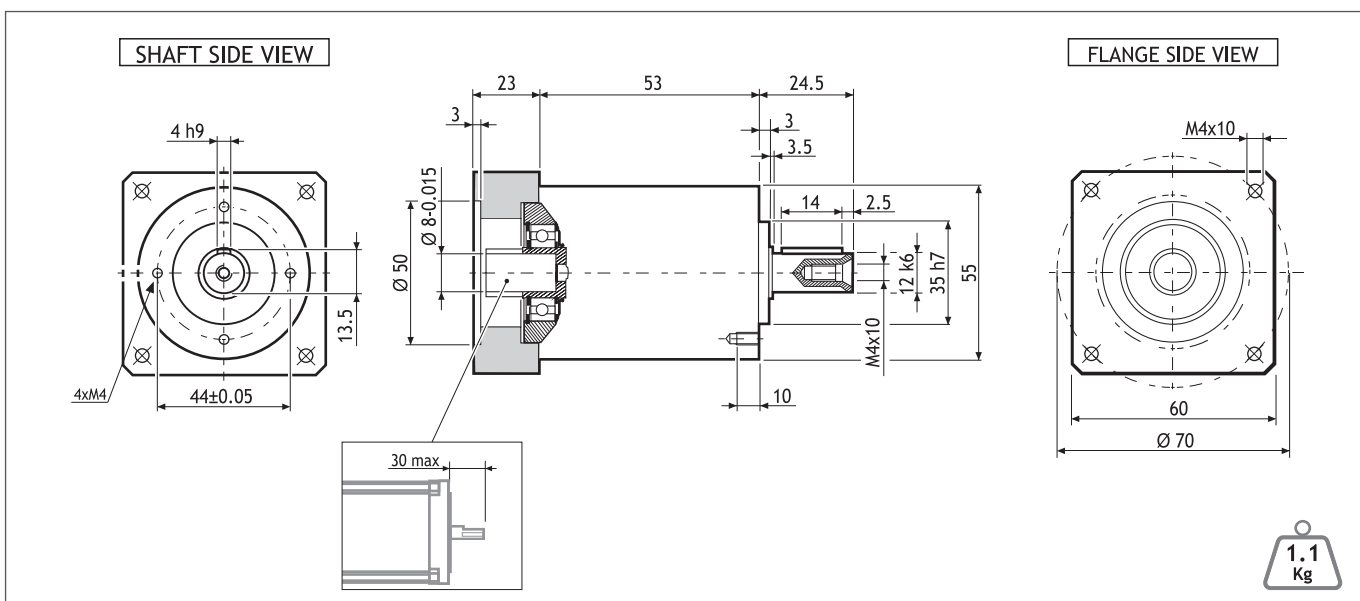
■ Locking bolt M4

■ R.T.A. Quality Control

SG-P11-050-0XX-12-HH-782X-00000



Dimensions (Units:mm)



MODEL	Rated output torque [Nm]	Maximum acceleration output torque [Nm]	Emergency step output torque [Nm]	Backlash [arcmin]	Nominal input speed [min ⁻¹]	Maximum momentary input speed [min ⁻¹]	Torsional stiffness [Nm/arcmin]	Maximum radial force applying on output shaft [N]	Maximum axial force applying on output shaft [N]	Gear efficiency [%]	Gear moment of inertia [Kg·m ²]
SG-P11-050-003-12-HH-782X-00000	10	16	28	12'	3300	4000	0.9	500	600	97	0.07x10 ⁻⁴
SG-P11-050-005-12-HH-782X-00000	12	20	30	12'	3500	5000	0.9	500	600	97	0.05x10 ⁻⁴

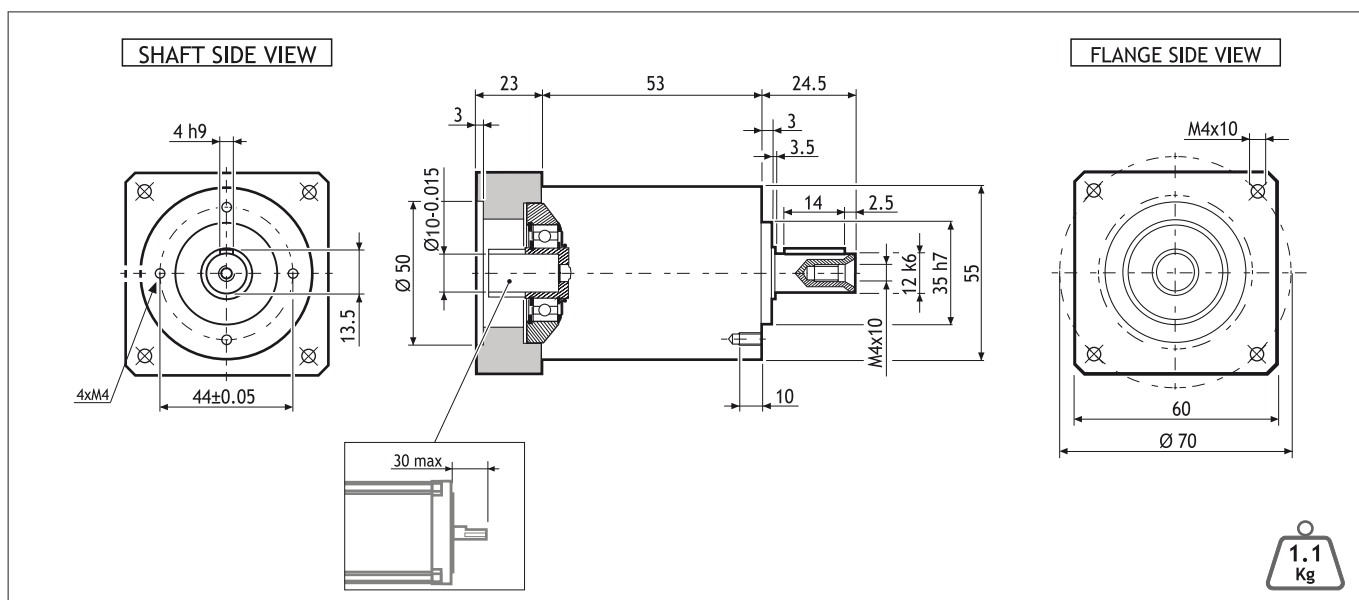
Suggested motors

	103-H7823 SERIES 	
MOUNTING OPERATION MODE: ■ Tightening torque M=5 Nm ■ Locking bolt M4 ■ R.T.A. Quality Control		

SG-P11-050-003-12-HH-7826-00000



Dimensions (Units:mm)



MODEL	Rated output torque [Nm]	Maximum acceleration output torque [Nm]	Emergency step output torque [Nm]	Backlash [arcmin]	Nominal input speed [min ⁻¹]	Maximum momentary input speed [min ⁻¹]	Torsional stiffness [Nm/arcmin]	Maximum radial force applying on output shaft [N]	Maximum axial force applying on output shaft [N]	Gear efficiency [%]	Gear moment of inertia [Kg·m ²]
SG-P11-050-003-12-HH-7826-00000	10	16	28	12'	3300	4000	0.9	500	600	97	0.07x10 ⁻⁴

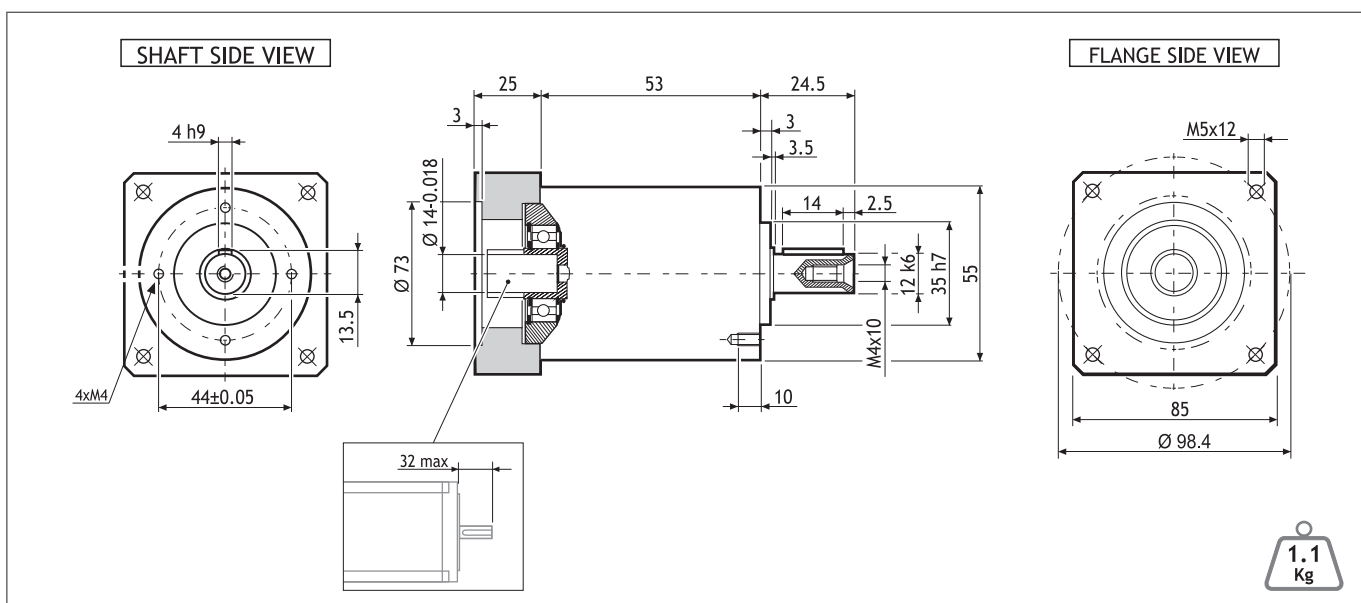
Suggested motors



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

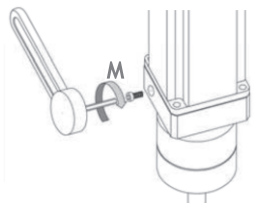


Dimensions (Units:mm)



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

Suggested motors



RM 3R1M



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

SG-P11-070-010-12-HH-782X-00000



PLANETARY GEARBOXES

SG 070

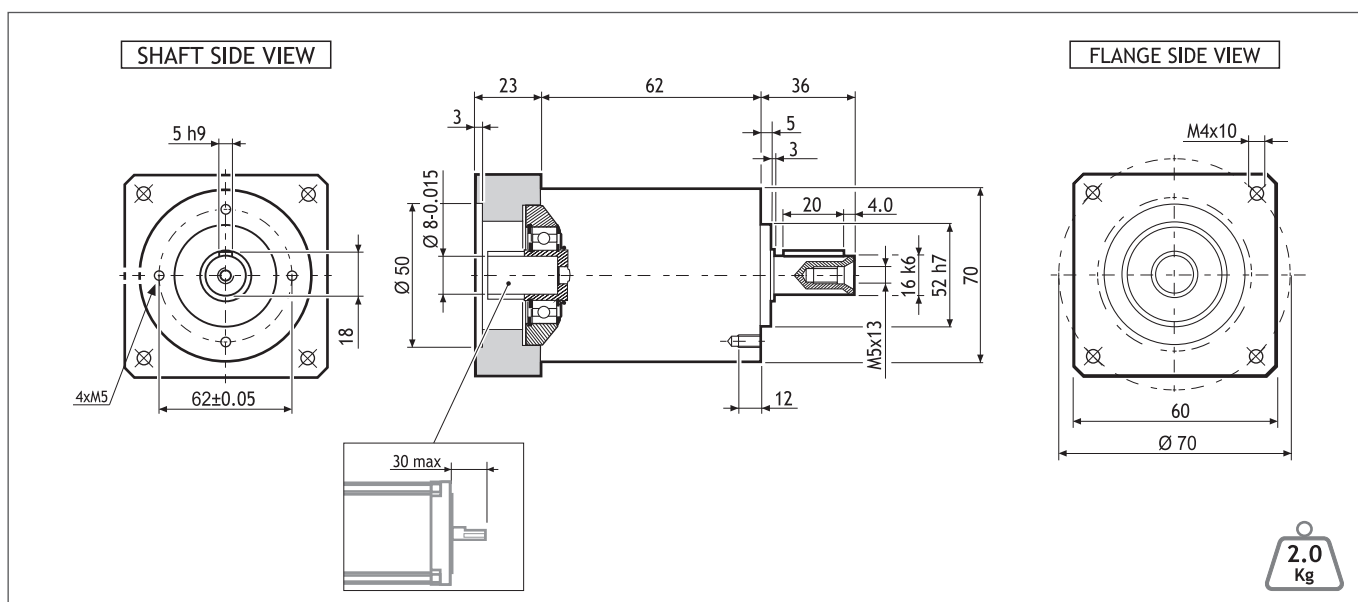
$i=010$

$\varphi=12'$

MADE IN ITALY

IP64

Dimensions (Units:mm)



MODEL	Rated output torque [Nm]	Maximum acceleration output torque [Nm]	Emergency step output torque [Nm]	Backlash [arcmin]	Nominal input speed [min ⁻¹]	Maximum momentary input speed [min ⁻¹]	Torsional stiffness [Nm/arcmin]	Maximum radial force applying on output shaft [N]	Maximum axial force applying on output shaft [N]	Gear efficiency [%]	Gear moment of inertia [Kg·m ²]
SG-P11-070-010-12-HH-782X-00000	18	30	60	12'	4000	6000	3	1300	1400	97	0.06x10 ⁻⁴

Suggested motors

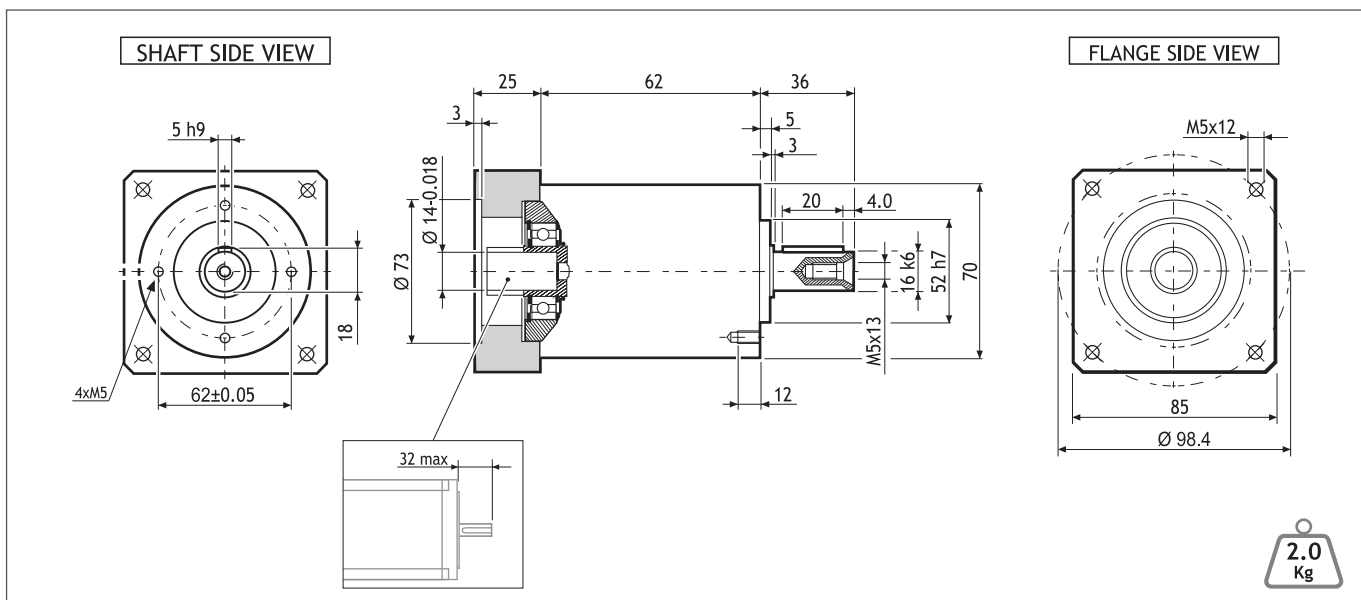
	103-H7823 SERIES 	
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MOUNTING OPERATION MODE: ■ Tightening torque M=5 Nm ■ Locking bolt M4 ■ R.T.A. Quality Control

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



Dimensions (Units:mm)



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

Suggested motors

RM 3R1M

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

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

$i=003$

$i=005$



PLANETARY GEARBOXES

SG 070

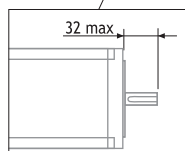
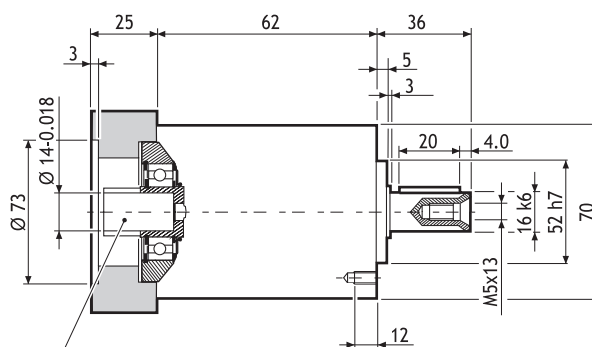
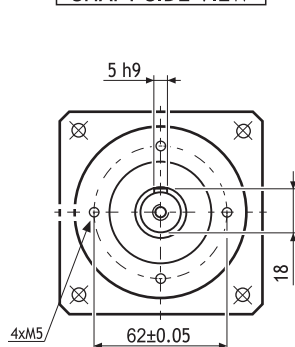
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MADE
IN
ITALY

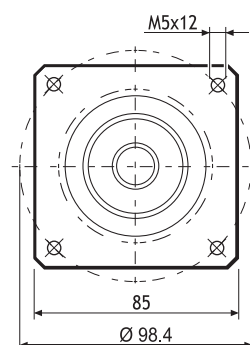
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Dimensions (Units:mm)

SHAFT SIDE VIEW



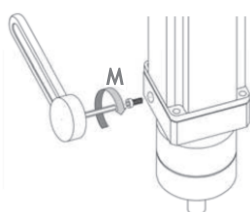
FLANGE SIDE VIEW



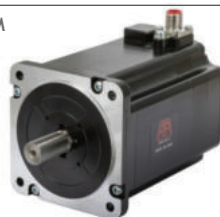
2.0
Kg

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

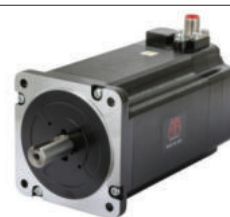
Suggested motors



RM 3R2M



RM 3R3M



c **RA** us

c **RA** us

MOUNTING OPERATION MODE:

■ Tightening torque M=5 Nm

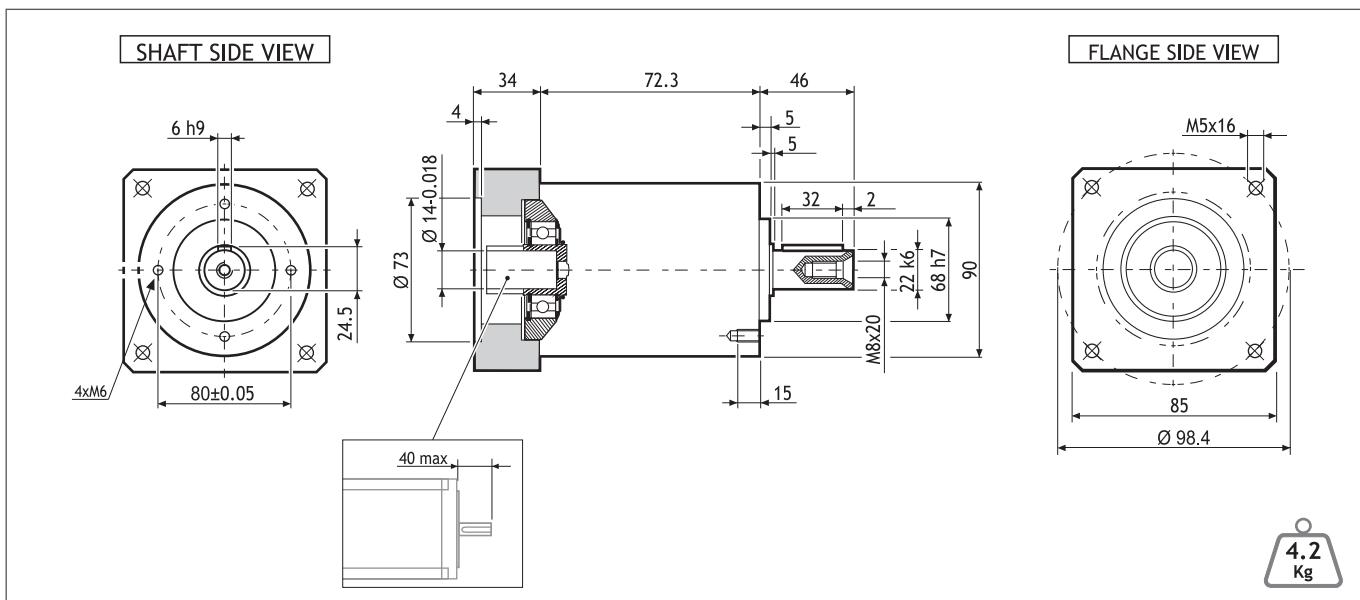
■ Locking bolt M4

■ R.T.A. Quality Control

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



Dimensions (Units:mm)



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

Suggested motors

RM 3R2M

c R us

RM 3R3M

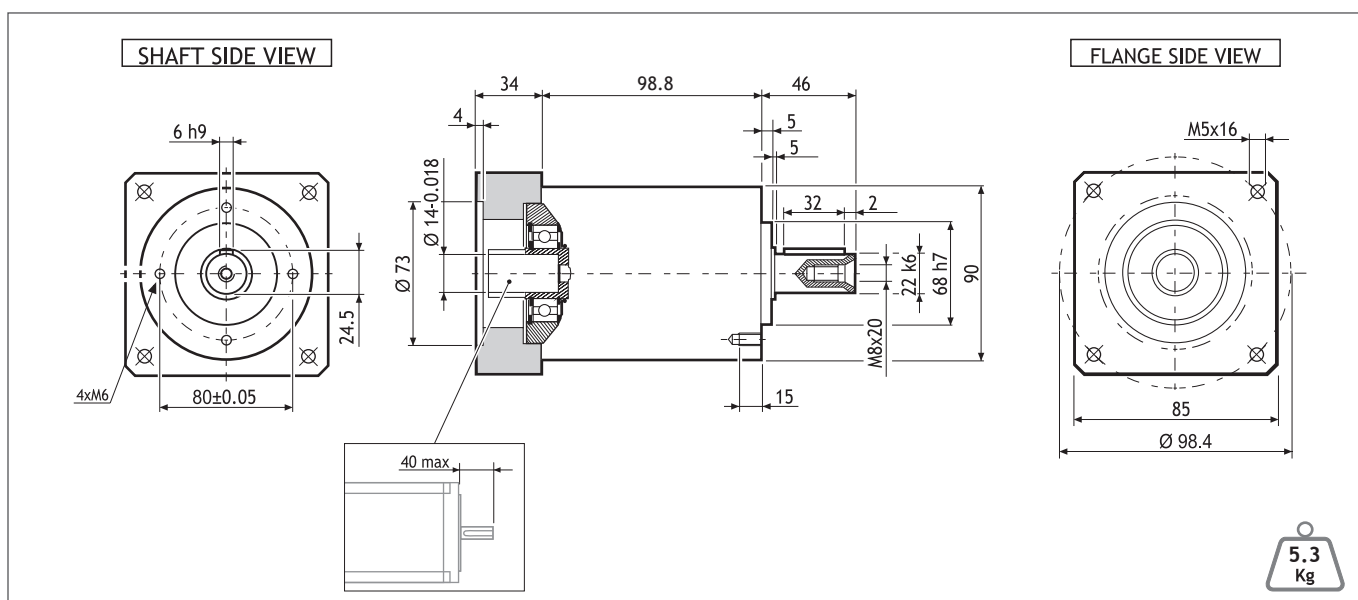
c R us

MOUNTING OPERATION MODE: ■ Tightening torque M=11 Nm ■ Locking bolt M6 ■ R.T.A. Quality Control

SG-P11-090-025-15-SM-2861-00000



Dimensions (Units:mm)



MODEL	Rated output torque [Nm]	Maximum acceleration output torque [Nm]	Emergency step output torque [Nm]	Backlash [arcmin]	Nominal input speed [min ⁻¹]	Maximum momentary input speed [min ⁻¹]	Torsional stiffness [Nm/arcmin]	Maximum radial force applying on output shaft [N]	Maximum axial force applying on output shaft [N]	Gear efficiency [%]	Gear moment of inertia [Kg·m ²]
SG-P11-090-025-15-SM-2861-00000	43	80	160	15'	3200	4500	8.5	2200	1900	94	0.40x10 ⁻⁴

Suggested motors



MOUNTING OPERATION MODE:

■ Tightening torque M=11 Nm

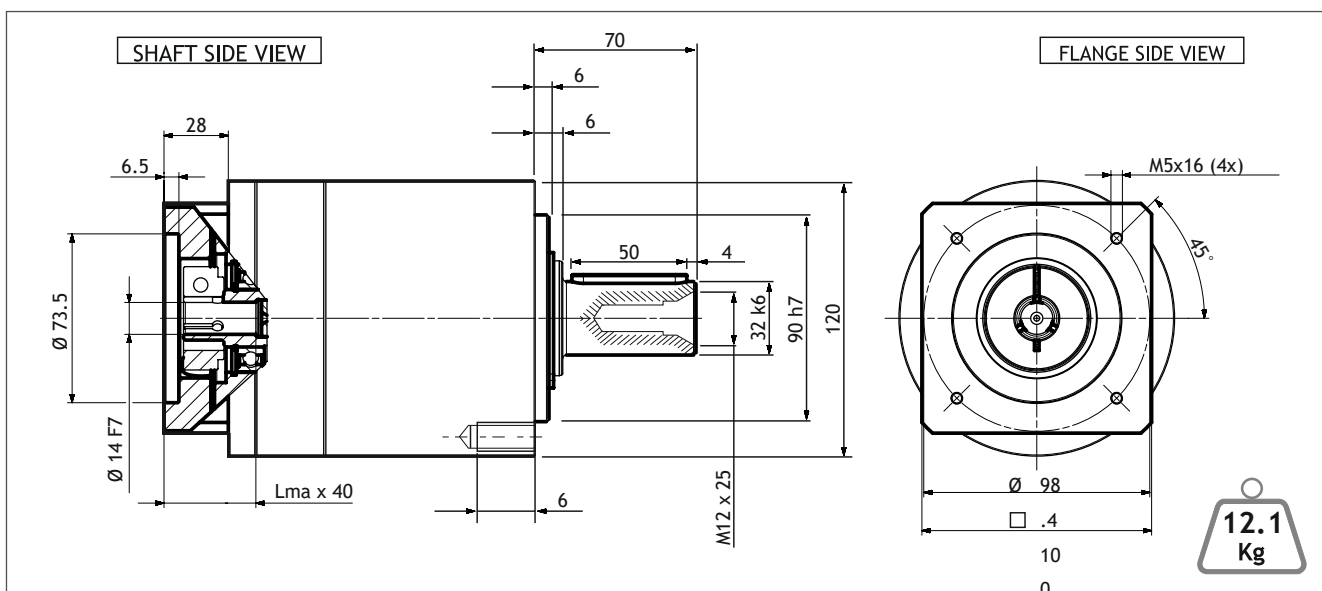
■ Locking bolt M6

■ R.T.A. Quality Control

SG-P11-120-025-15-SM-286X-00000



Dimensions (Units:mm)



MODEL	Rated output torque [Nm]	Maximum acceleration output torque [Nm]	Emergency step output torque [Nm]	Backlash [arcmin]	Nominal input speed [min ⁻¹]	Maximum momentary input speed [min ⁻¹]	Torsional stiffness [Nm/arcmin]	Maximum radial force applying on output shaft [N]	Maximum axial force applying on output shaft [N]	Gear efficiency [%]	Gear moment of inertia [Kgcm ²]
SG-P11-120-025-15-SM-286X-00000	110	190	360	15'	3000	4500	22.5	3500	3000	94	0.71

Suggested motors

RM 3RxM

RM 3TxM-0xx0

MOUNTING OPERATION MODE:
■ Tightening torque M=11 Nm
■ Locking bolt M6
■ R.T.A. Quality Control

PLANETARY GEARBOXES

SERVO GEARBOXES



SG P12-040-0XX-1X-R2-0100

i=005

i=010

i=025



PLANETARY GEARBOXES

SG 040

$\varphi < 19'$

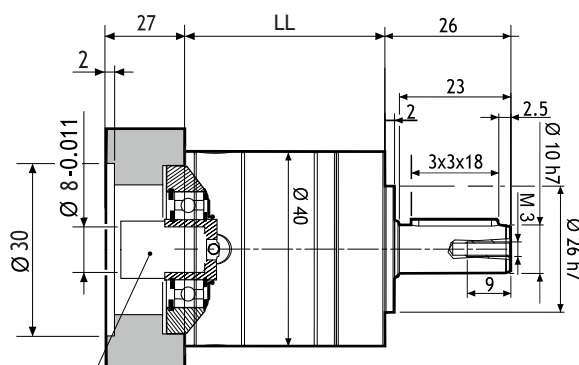
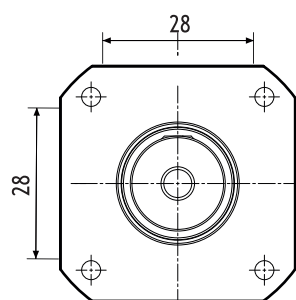
$\varphi < 15'$

MADE
IN
ITALY

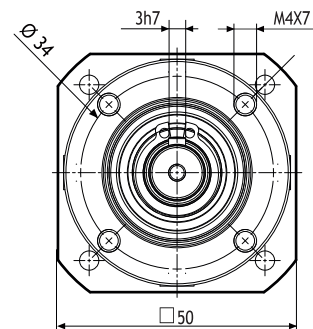
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Dimensions (Units:mm)

SHAFT SIDE VIEW



FLANGE SIDE VIEW

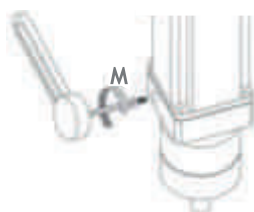


LL	i=005	i=010	i=025
mm	39	39	52

i=005	i=010	i=025
0.45	0.65	
Kg	Kg	

MODEL	Rated output torque [Nm]	Maximum acceleration output torque [Nm]	Emergency step output torque [Nm]	Backlash [arcmin]	Nominal input speed [min ⁻¹]	Maximum momentary input speed [min ⁻¹]	Torsional stiffness [Nm/arcmin]	Maximum radial force applying on output shaft [N]	Maximum axial force applying on output shaft [N]	Gear efficiency [%]	Gear moment of inertia [Kgm ²]
SG-P12-040-005-15-R2-0100	12	18	30	15'	5000	8000	0.8	220	200	98	1.6x10 ⁻⁶
SG-P12-040-010-15-R2-0100	6	9	25	15'	5000	8000	0.8	220	200	98	1.2x10 ⁻⁶
SG-P12-040-025-19-R2-0100	12	18	30	<19'	5000	8000	0.8	220	200	97	1.5x10 ⁻⁶

Suggested motors



R2AA04010FXH1CM



MOUNTING OPERATION MODE:

■ Tightening torque M=5 Nm

■ Locking bolt M4

■ R.T.A. Quality Control

SG-P11-070-0XX-12-R2-0X00-00000

i=003 i=005 i=010



PLANETARY GEARBOXES

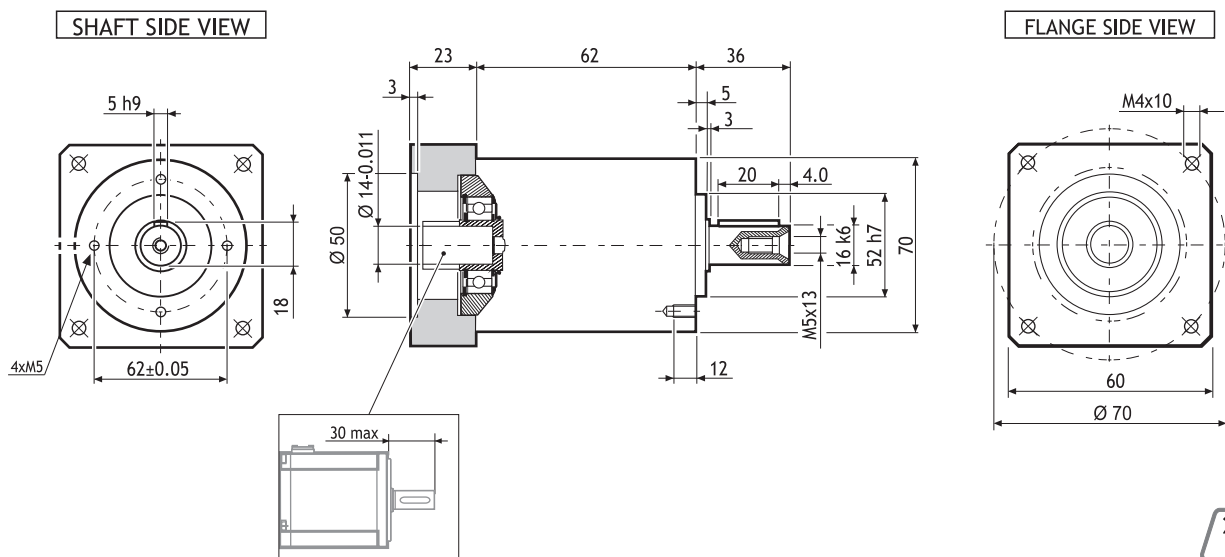
SG 070

$\varphi=12'$

MADE IN ITALY

IP64

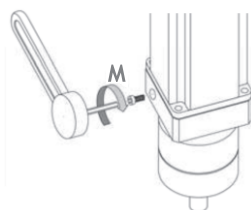
Dimensions (Units:mm)



2.0 Kg

MODEL	Rated output torque [Nm]	Maximum acceleration output torque [Nm]	Emergency step output torque [Nm]	Backlash [arcmin]	Nominal input speed [min ⁻¹]	Maximum momentary input speed [min ⁻¹]	Torsional stiffness [Nm/arcmin]	Maximum radial force applying on output shaft [N]	Maximum axial force applying on output shaft [N]	Gear efficiency [%]	Gear moment of inertia [Kg·m ²]
SG-P11-070-003-12-R2-0X00-00000	18	30	60	12'	3300	4000	3	1300	1400	97	0.12x10 ⁻⁴
SG-P11-070-005-12-R2-0X00-00000	25	35	70	12'	3500	5000	3	1300	1400	97	0.09x10 ⁻⁴
SG-P11-070-010-12-R2-0X00-00000	18	30	60	12'	4000	6000	3	1300	1400	97	0.06x10 ⁻⁴

Suggested motors



R2AA06020 SERIES



R2AA06040 SERIES



MOUNTING OPERATION MODE:

■ Tightening torque M=5 Nm

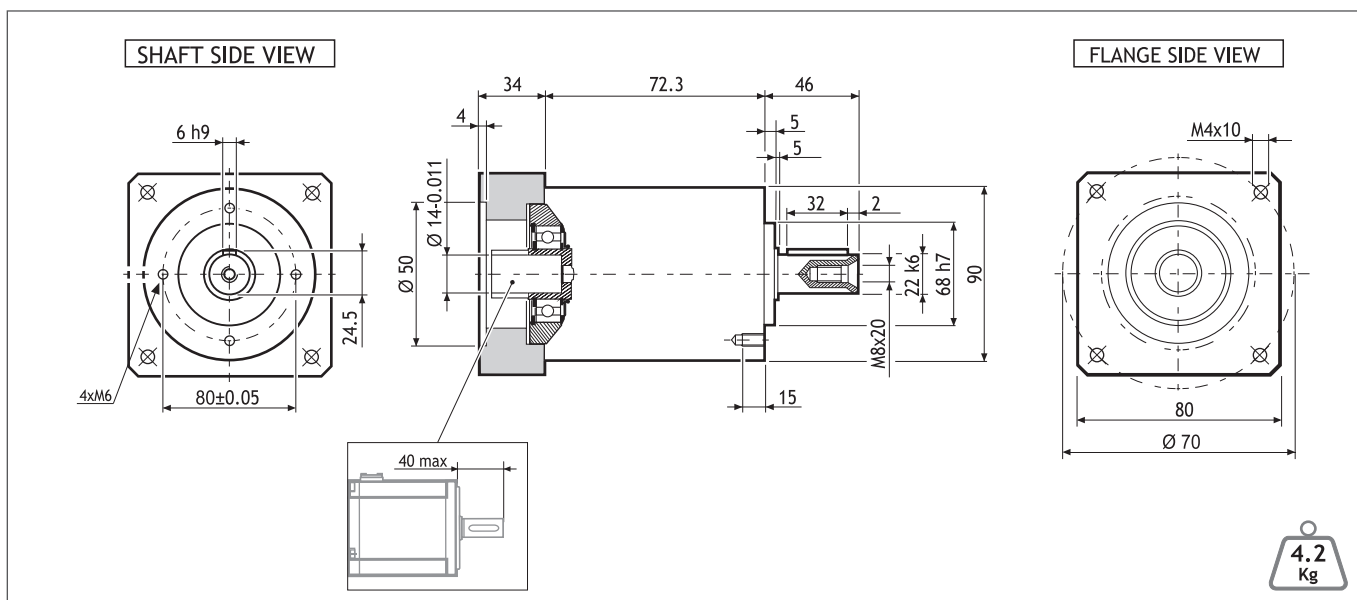
■ Locking bolt M4

■ R.T.A. Quality Control

SG-P11-090-010-12-R2-0400-00000



Dimensions (Units:mm)



MODEL	Rated output torque [Nm]	Maximum acceleration output torque [Nm]	Emergency step output torque [Nm]	Backlash [arcmin]	Nominal input speed [min ⁻¹]	Maximum momentary input speed [min ⁻¹]	Torsional stiffness [Nm/arcmin]	Maximum radial force applying on output shaft [N]	Maximum axial force applying on output shaft [N]	Gear efficiency [%]	Gear moment of inertia [Kg·m ²]
SG-P11-090-010-12-R2-0400-00000	37	70	150	12'	4000	6000	9	2200	1900	97	0.35x10 ⁻⁴

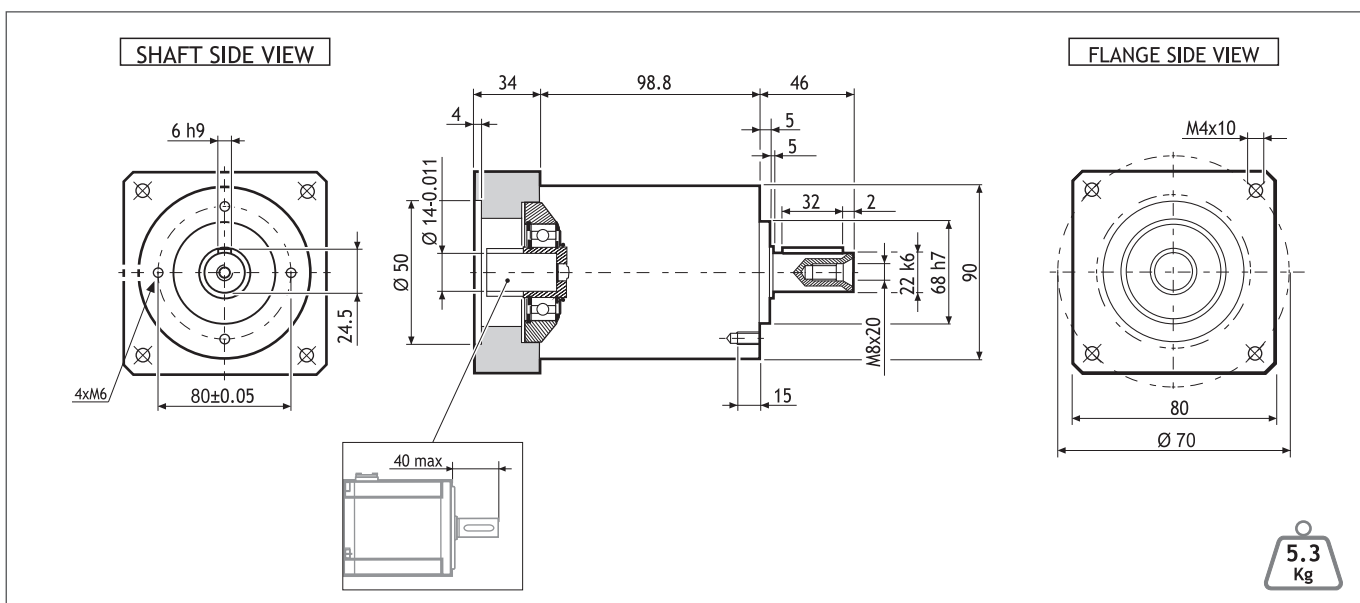
Suggested motors



SG-P11-090-025-15-R2-0X00-00000



Dimensions (Units:mm)



MODEL	Rated output torque [Nm]	Maximum acceleration output torque [Nm]	Emergency step output torque [Nm]	Backlash [arcmin]	Nominal input speed [min ⁻¹]	Maximum momentary input speed [min ⁻¹]	Torsional stiffness [Nm/arcmin]	Maximum radial force applying on output shaft [N]	Maximum axial force applying on output shaft [N]	Gear efficiency [%]	Gear moment of inertia [Kg·m ²]
SG-P11-090-025-15-R2-0X00-00000	43	80	160	15'	3200	4500	8.5	2200	1900	94	0.40x10 ⁻⁴

Suggested motors

R2AA06020 SERIES

R2AA06040 SERIES

MOUNTING OPERATION MODE: ■ Tightening torque M=11 Nm ■ Locking bolt M6 ■ R.T.A. Quality Control

SG-P11-090-0XX-12-R2-0750-00000

$i=003$ $i=005$ $i=010$



PLANETARY GEARBOXES

SG 090

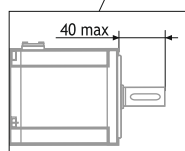
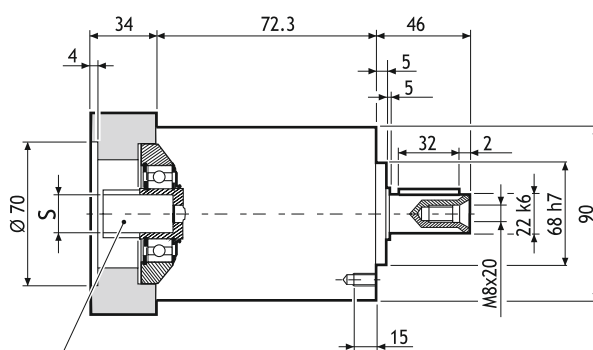
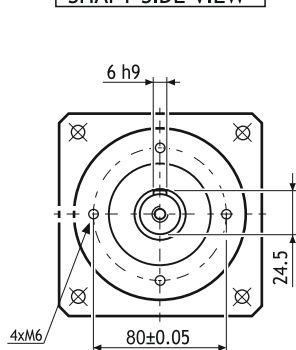
$\Phi=12'$

MADE
IN
ITALY

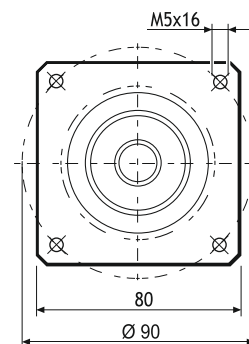
IP64

Dimensions (Units:mm)

SHAFT SIDE VIEW



FLANGE SIDE VIEW

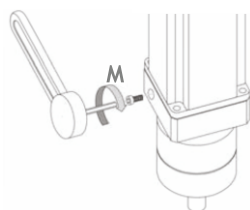


S	i=003	i=005	i=010
mm	14-0.011	14-0.011	16-0.011

4.2
Kg

MODEL	Rated output torque [Nm]	Maximum acceleration output torque [Nm]	Emergency step output torque [Nm]	Backlash [arcmin]	Nominal input speed [min ⁻¹]	Maximum momentary input speed [min ⁻¹]	Torsional stiffness [Nm/arcmin]	Maximum radial force applying on output shaft [N]	Maximum axial force applying on output shaft [N]	Gear efficiency [%]	Gear moment of inertia [Kg·m ²]
SG-P11-090-003-12-R2-0750-00000	37	70	150	12'	2900	3500	7	2200	1900	97	0.65x10 ⁻⁴
SG-P11-090-005-12-R2-0750-00000	43	80	160	12'	3200	4500	9	2200	1900	97	0.47x10 ⁻⁴
SG-P11-090-010-12-R2-0750-00000	37	70	150	12'	4000	6000	9	2200	1900	97	0.35x10 ⁻⁴

Suggested motors



R2AA08075 SERIES



MOUNTING OPERATION MODE:

■ Tightening torque M=11 Nm

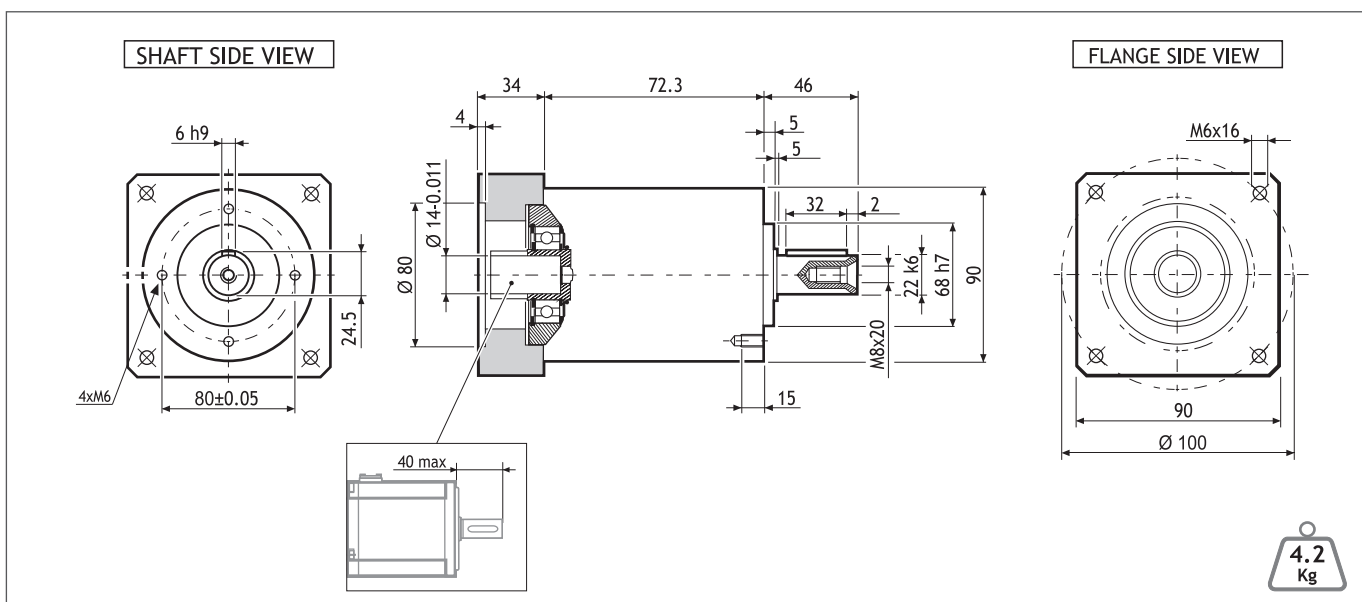
■ Locking bolt M6

■ R.T.A. Quality Control

SG-P11-090-005-12-R2-1000-00000



Dimensions (Units:mm)



MODEL	Rated output torque [Nm]	Maximum acceleration output torque [Nm]	Emergency step output torque [Nm]	Backlash [arcmin]	Nominal input speed [min ⁻¹]	Maximum momentary input speed [min ⁻¹]	Torsional stiffness [Nm/arcmin]	Maximum radial force applying on output shaft [N]	Maximum axial force applying on output shaft [N]	Gear efficiency [%]	Gear moment of inertia [Kg·m ²]
SG-P11-090-005-12-R2-1000-00000	43	80	160	12'	3200	4500	9	2200	1900	97	0.47x10 ⁻⁴

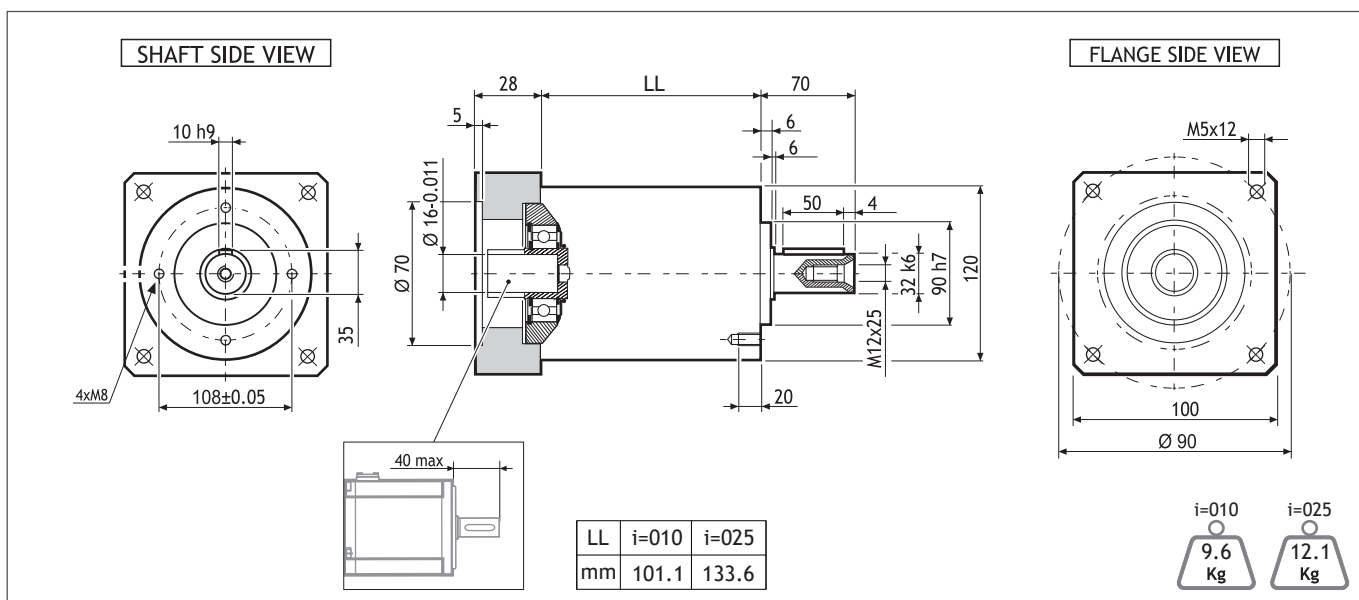
Suggested motors

	R2AAB8100 SERIES 	
MOUNTING OPERATION MODE: ■ Tightening torque M=11 Nm ■ Locking bolt M6 ■ R.T.A. Quality Control		

SG-P11-120- 0XX - 1X-R2-0750-00000

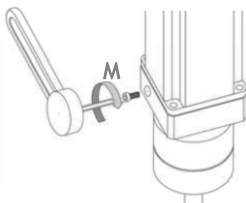


Dimensions (Units:mm)



MODEL	Rated output torque [Nm]	Maximum acceleration output torque [Nm]	Emergency step output torque [Nm]	Backlash [arcmin]	Nominal input speed [min ⁻¹]	Maximum momentary input speed [min ⁻¹]	Torsional stiffness [Nm/arcmin]	Maximum radial force applying on output shaft [N]	Maximum axial force applying on output shaft [N]	Gear efficiency [%]	Gear moment of inertia [Kg·m ²]
SG-P11-120-010-12-R2-0750-00000	95	160	300	12'	3500	5000	25	3500	3000	97	0.49x10 ⁻⁴
SG-P11-120-025-15-R2-0750-00000	110	190	360	15'	3000	4500	22.5	3500	3000	94	0.71x10 ⁻⁴

Suggested motors



R2AA08075 SERIES

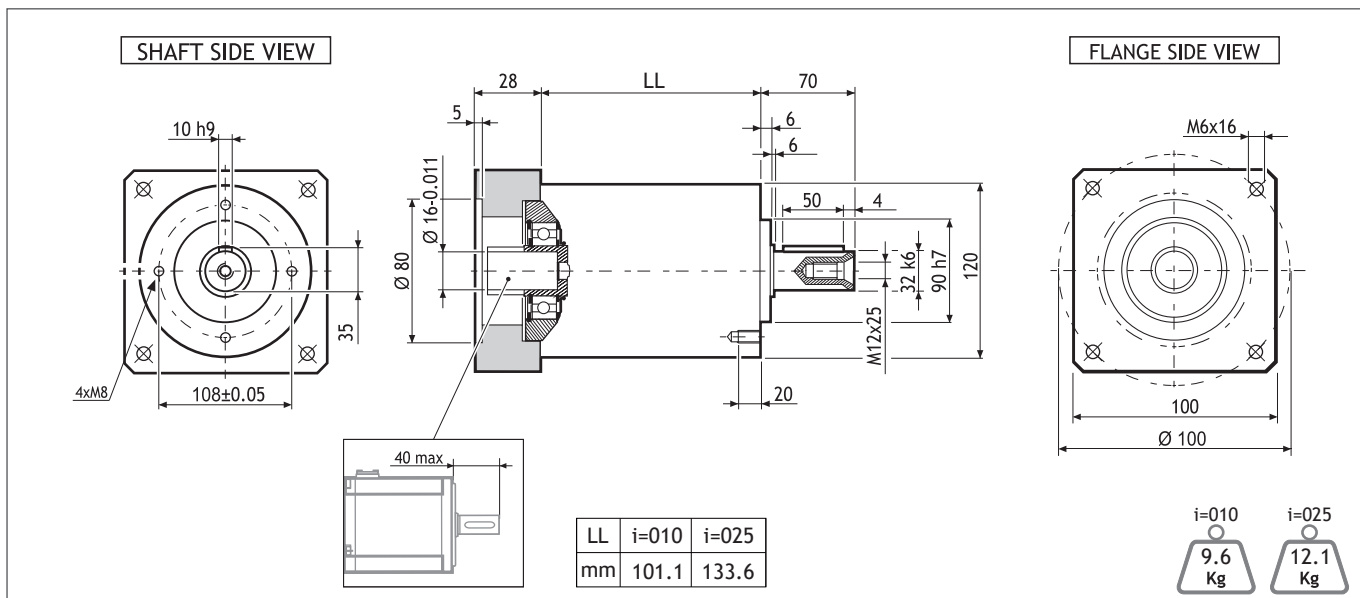


MOUNTING OPERATION MODE:
■ Tightening torque M=11 Nm
■ Locking bolt M6
■ R.T.A. Quality Control

SG-P11-120- 0XX -1X-R2-1000-00000



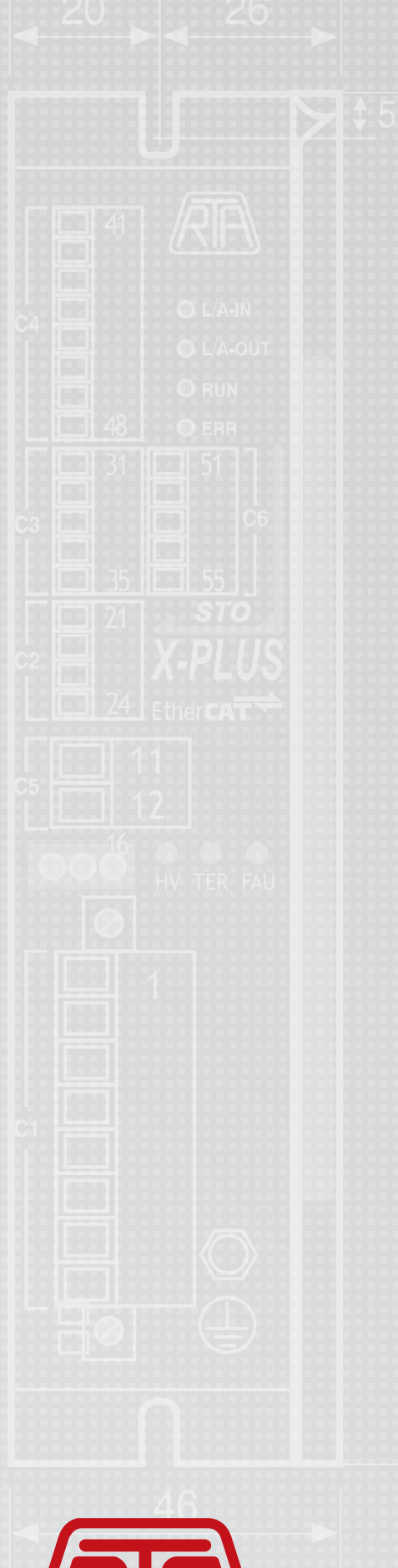
Dimensions (Units:mm)



MODEL	Rated output torque [Nm]	Maximum acceleration output torque [Nm]	Emergency step output torque [Nm]	Backlash [arcmin]	Nominal input speed [min ⁻¹]	Maximum momentary input speed [min ⁻¹]	Torsional stiffness [Nm/arcmin]	Maximum radial force applying on output shaft [N]	Maximum axial force applying on output shaft [N]	Gear efficiency [%]	Gear moment of inertia [Kg·m ²]
SG-P11-120-010-12-R2-1000-00000	95	160	300	12'	3500	5000	25	3500	3000	97	0.49x10 ⁻⁴
SG-P11-120-025-15-R2-1000-00000	110	190	360	15'	3000	4500	22.5	3500	3000	94	0.71x10 ⁻⁴

Suggested motors

	R2AAB8100 SERIES 	
MOUNTING OPERATION MODE: ■ Tightening torque M=11 Nm ■ Locking bolt M6 ■ R.T.A. Quality Control		



ITALY

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