

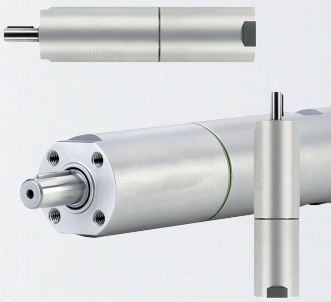


## ADVANCED LINE

Stainless Steel Air Motors  
from 20 W / 0.03 Hp up to 1.6 kW / 2.1 Hp

# PRODUCT SPECTRUM OVERVIEW: ADVANCED LINE AIR MOTORS

## Stainless steel motors with integrated planetary gears



The vane motors of the ADVANCED LINE are particularly compact drive solutions for installation in either handheld machines or industrial systems. These top quality stainless steel motors are suitable for the chemical industry, for the paper industry, the pharmaceutical industry, medical technology and also for use in the food industry.

### Performance classes:

20/30 W	Page 4
80/100 W	Page 6
90/120/170 W	Page 8
100/200/280 W	Page 10
130/300/400	Page 12
300/600/850 W	Page 20
900/1100 W	Page 22
700/1600/2200 W	Page 32

## High torque stainless steel motors



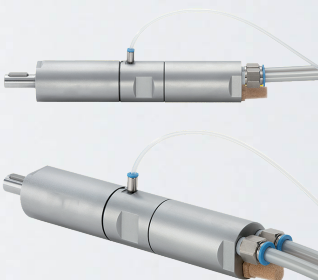
The high torque motors of the ADVANCED LINE are small in size but provide extremely high output. Our high torque motors are also less apt to stall, the stalling torque for e.g. motor type 67X-517 is 600 Nm.

### Performance classes:

300/400 W	Page 14
600/850 W	Page 24
900/1100 W	Page 26

These drive solutions are particularly suitable for use in industrial agitators and mixers as used in the paint industry, food industry or pharmaceutical industry.

## Stainless steel motors with integrated holding brake



Due to their size and design DEPRAG stainless steel motors with integrated holding brake are the optimal choice for use in any application where reliability plays an important role. The integrated holding brake can either be controlled using a separate control lead or via the motor exhaust. If pressure falls the brakes are automatically activated.

### Performance classes:

300 W	Page 16
100/130/200/300 W	Page 18
300/600/900 W	Page 28
600/900 W	Page 30
700/1600 W	Page 34

The big plus: This innovative complete system is also available with ATEX certification!

## ATEX SPECIFICATION



<b>A =</b>	CE	II 2G Ex h IIC T6 Gb X
		II 2D Ex h IIIC T80 °C Db X
<b>B =</b>	CE	II 2G Ex h IIC T5 Gb X
		II 2D Ex h IIIC T95 °C Db X
<b>C =</b>	CE	II 2G Ex h IIC T4 Gb X
		II 2D Ex h IIIC T130 °C Db X
<b>D =</b>	CE	II 2G Ex h IIC T3 Gb X
		II 2D Ex h IIIC T195 °C Db X

## ADVANTAGES OF ADVANCED LINE AIR MOTORS

- **Non corrosive**
- **Sterilisable**
- **ATEX conform**
- **Compact**
- **Oil-free**
- **Insensitive to cleaning solvents**
- **Sealed**



The ADVANCED LINE air motors are particularly suitable for use in the food industry, medical technology, underwater applications and the chemical industry. All airmotors can also be used without lubrication.

All external parts (housing and spindle) of our ADVANCED LINE series are made from high quality non corrosive steel. Our air motors are also available in an ATEX conform complete system with integrated holding brakes.

In addition our modular principle enables us to offer low cost customisations for your specific application!

### **High torque motors made from stainless steel - small in size but extremely high torque:**

Our ADVANCED LINE pneumatic motors are also available as high torque motors made from stainless steel. The ideal drive solution for e.g. agitators and industrial mixers.

### LONG LIFE-SPAN

A wide product range of stainless steel motors, the use of DEPRAG high performance vanes as well as a specific surface coating on our materials all this ensures your motor's long life-span.



Airmotor - gear box - valve: a stainless steel system for the paper industry, sealed stainless steel motors, high performance vanes

### SHORT DELIVERY TIMES

Due to our large amount of in-house production we are able to deliver quickly and flexibly at short notice, even when dealing with smaller quantities.



Large amount of in-house production, on-site salt bath heat treatment facility

### APPLICATION CONSULTANCY

Our application engineers will gladly advise you in the selection of the most suitable drive for your application. If you would like to test or replace your existing drive we can check it for you in our innovative performance testing facility.

### WIDE VARIETY AND COMPREHENSIVE RANGE OF ACCESSORIES


Our standard programme is distinguished by its wide variety. All our stainless steel motors are also available with threaded spindle. Additionally due to our modular principle we are able to offer numerous variations to choose from.

Do not hesitate to contact us if you have a specific mounting fixture request.




Performance testing facility, professional guidance from our engineers

## 20/30 W ADVANCED LINE AIR MOTOR

Motor size 0		reversible				
Series 67X-ATEX conform	Type	67X-010	67X-020	67X-030	67X-040	
	Part no.	306700B	306700C	306700D	306700E	
<b>ATEX specification</b>		<b>C</b>	<b>C</b>	<b>A</b>	<b>A</b>	
Nominal power	W / HP	20 / 0.03	20 / 0.03	20 / 0.03	20 / 0.03	
Nominal speed	rpm	3000	2500	650	475	
Speed (idling)	rpm	6000	5000	1300	950	
Nominal torque	Nm / in.lbs	0.06 / 0.5	0.08 / 0.7	0.29 / 2.6	0.4 / 3.5	
Start torque min.	Nm / in.lbs	0.09 / 0.8	0.12 / 1	0.44 / 3.9	0.6 / 5.3	
Stall torque	Nm / in.lbs	0.12 / 1	0.15 / 1.33	0.55 / 4.87	0.75 / 6.64	
Air consumption	m <sup>3</sup> /min / cfm	0.1 / 3	0.1 / 3	0.1 / 3	0.1 / 3	
Weight	kg / lbs	0.16 / 0.3	0.16 / 0.3	0.16 / 0.3	0.16 / 0.3	
Hose I.D., supply air/exhaust air	mm / in.	3 / 1/8	3 / 1/8	3 / 1/8	3 / 1/8	

**Included in delivery:**

2 Slide connectors (M 5)

Motor size 0		right rotation				
Series 67X-ATEX conform	Type	67X-010R	67X-020R	67X-030R	67X-040R	
	Part no.	3067000B	3067000C	3067000D	3067000E	
<b>ATEX specification</b>		<b>C</b>	<b>C</b>	<b>A</b>	<b>A</b>	
Nominal power	W / HP	30/0.04	30/0.04	30/0.04	30/0.04	
Nominal speed	rpm	3000	2500	650	500	
Speed (idling)	rpm	6000	5000	1300	1000	
Nominal torque	Nm / in.lbs	0.1/0.885	0.11/0.97	0.44/3.89	0.57/5.04	
Start torque min.	Nm / in.lbs	0.12/1.06	0.17/1.5	0.66/5.84	0.86/7.61	
Stall torque	Nm / in.lbs	0.18/1.59	0.22/1.95	0.84/7.43	1.09/9.65	
Air consumption	m <sup>3</sup> /min / cfm	0.1/3.53	0.1/3.53	0.1/3.53	0.1/3.53	
Weight	kg / lbs	0.13/0.29	0.13/0.29	0.13/0.29	0.13/0.29	
Hose I.D., supply air/exhaust air	mm / in.	3 / 1/8	3 / 1/8	3 / 1/8	3 / 1/8	

**Included in delivery:**

1 Slide connector (M 5)

Performance data relate to an air pressure of 6 bar (85 PSI) and lubricated air. With oil-free operation the output will be reduced by 10 - 20%.

Please note that these motor gears are not stall-proof. If a higher application-based torque cannot be limited by the customer (e.g. by use of a slip clutch), please contact our application specialists to discuss an alternative solution.

Optional Equipment	for Motor size 0	
<b>Flange</b> incl. mounting screws	Part no.	4451872
<b>Silencer: motor is reversible (right and left rotation)</b>		
1 Silencer	Part no.	129588A
<b>Maintenance unit with lubricator*</b>	Part no.	820454A
Connection thread		G 1/4
<b>Maintenance unit without lubricator*</b>	Part no.	822408A
Connection thread		G 1/4
<b>Replacement part set</b> consisting of: vanes, sealant rings, o-rings and silencers	Part no.	446083B

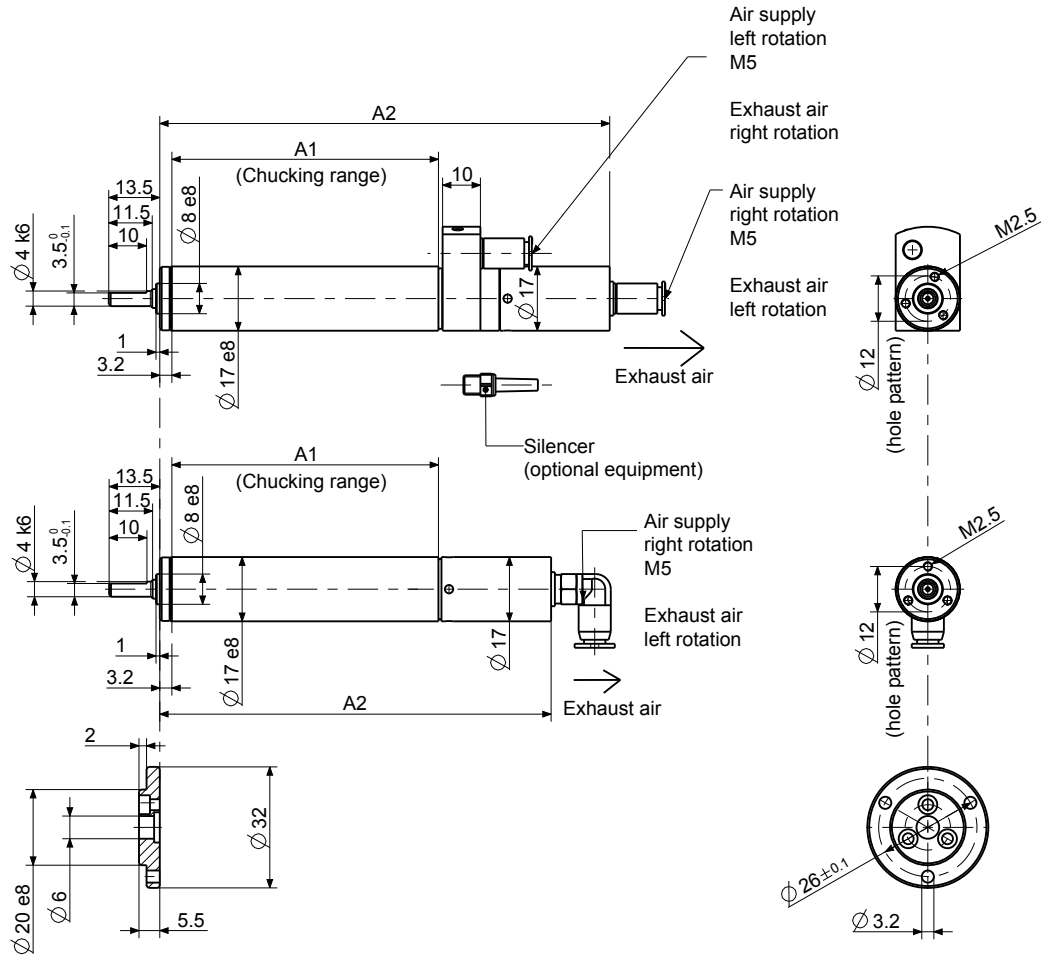
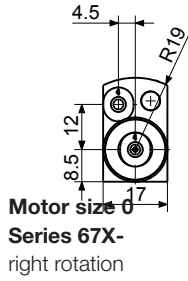
\*) Maintenance unit consists of pressure regulator valve, filter and optionally with or without lubricator

Of course you can also purchase individual replacement parts from us. Please contact us if this is a requirement. Our standard maintenance units are not ATEX conform. Please contact us if this is a requirement

Allowable shaft loading see page 36.

Further notes for soundproofing see page 36/37.

**Motor size 0**  
**Series 67X-**  
 reversible, right rotation



Dimensions in mm


p4400563

Motor size	Series 67X- Type		Dimensions of motor (mm)	
			A1	A2
0	67X-010	67X-020	64.5	112.9
	67X-030	67X-040	70.5	119
	67X-010R	67X-020R	64.5	97.4
	67X-030R	67X-040R	70.5	103.5

# 80/100 W ADVANCED LINE AIR MOTOR


## Motor size 1

reversible

Series 67X-ATEX conform	 Type Part no.	67X-001	67X-011	67X-021	67X-031	67X-061	67X-081	67X-331	67X-551	67X-581
ATEX specification		A	C	C	A	A	A	A	A	A
Nominal power	W/HP	80/0.11	80/0.11	80/0.11	80/0.11	80/0.11	80/0.11	80/0.11	80/0.11	80/0.11
Nominal speed	rpm	14500	3500	950	650	2)	2)	2)	2)	2)
Speed (idling)	rpm	29000	7000	1900	1300	490	240	60	30	8
Nominal torque	Nm/in.lbs	0.05/0.44	0.22/1.9	0.8/7	1.2/11	2/17.7 <sup>1)</sup>	2/17.7 <sup>1)</sup>	2/17.7 <sup>1)</sup>	2/17.7 <sup>1)</sup>	2/17.7 <sup>1)</sup>
Start torque min.	Nm/in.lbs	0.08/0.71	0.33/2.9	1.2/11	1.8/16	2/17.7 <sup>1)</sup>	2/17.7 <sup>1)</sup>	2/17.7 <sup>1)</sup>	2/17.7 <sup>1)</sup>	2/17.7 <sup>1)</sup>
Stall torque	Nm/in.lbs	0.10/0.89	0.41/3.63	1.5/13.28	2/17.7 <sup>1)</sup>	2/17.7 <sup>1)</sup>	2/17.7 <sup>1)</sup>	2/17.7 <sup>1)</sup>	2/17.7 <sup>1)</sup>	2/17.7 <sup>1)</sup>
Max. admissible torque	Nm/in.lbs	-	-	-	2/17.7	2/17.7	2/17.7	2/17.7	2/17.7	2/17.7
Air consumption	m <sup>3</sup> /min/cfm	0.23/8	0.23/8	0.23/8	0.23/8	0.23/8	0.23/8	0.23/8	0.23/8	0.23/8
Length A2	mm/in.	96.5/3.76	96.5/3.76	105.5/4.1	105.5/4.1	113.5/4.4	113.5/4.4	122.5/4.78	122.5/4.78	130.5/5.09
Length A1	mm/in.	85/3.3	85/3.3	94/3.67	94/3.67	102/3.978	102/3.978	111/4.329	111/4.329	118,75/4.63
Weight	kg/lbs	0.2/0.4	0.2/0.4	0.22/0.5	0.22/0.5	0.29/0.6	0.29/0.6	0.31/0.68	0.31/0.68	0.33/0.73
Hose I.D., supply										
air/exhaust air	mm/in.	4 <sup>5</sup> /32	4 <sup>5</sup> /32	4 <sup>5</sup> /32	4 <sup>5</sup> /32	4 <sup>5</sup> /32	4 <sup>5</sup> /32	4 <sup>5</sup> /32	4 <sup>5</sup> /32	4 <sup>5</sup> /32

## Motor size 1

right rotation

Series 67X-ATEX conform	 Type Part no.	67X-001R	67X-011R	67X-021R
ATEX specification		A	C	C
Nominal power	W/HP	100/0.134	100/0.134	100/0.134
Nominal speed	rpm	15500	4300	1200
Speed (idling)	rpm	31000	8600	2400
Nominal torque	Nm/in.lbs	0.06/0.53	0.22/1.9	0.8/7
Start torque min.	Nm/in.lbs	0.09/0.8	0.33/2.9	1.2/11
Stall torque	Nm/in.lbs	0.11/0.97	0.41/3.63	1.5/13.28
Max. admissible torque	Nm/in.lbs	-	-	-
Air consumption	m <sup>3</sup> /min/cfm	0.23/8	0.23/8	0.23/8
Length A2	mm/in.	96.5/3.76	96.5/3.76	105.5/4.1
Length A1	mm/in.	85/3.3	85/3.3	94/3.67
Weight	kg/lbs	0.2/0.4	0.2/0.4	0.22/0.5
Hose I.D., supply				
air/exhaust air	mm/in.	4 <sup>5</sup> /32	4 <sup>5</sup> /32	4 <sup>5</sup> /32

## Included in delivery:

Slide connectors (M8 x 0.75)

Performance data relate to an air pressure of 6 bar (85 PSI) and lubricated air.

With oil-free operation the output will be reduced by 10 - 20%.

- 1) Please take note of the maximum permissible torque for the gear. Please note that these motor gears are not stall-proof. If a higher application-based torque cannot be limited by the customer (e.g. by use of a slip clutch), please contact our application specialists to discuss an alternative solution.
- 2) At the maximum permissible torque of the gear, operating speed is adjusted to the region of the idle speed. This operating speed can be reduced to up to 25 % of the indicated idle speed by reducing pressure and additional exhaust air throttling. For operation at very low speeds in relation to the idle speed, we recommend the use of spring-assisted vanes (Z vanes).

## Optional Equipment

for motor size 1

<b>Flange</b> incl. mounting screws	Part no.	4451812
<b>Bracket</b> incl. mounting screws	Part no.	4451802
<b>Silencer</b>	Part no.	117968A
<b>Maintenance unit with lubricator*</b>	Part no.	820454A
Connection thread		G 1/4
<b>Maintenance unit without lubricator*</b>	Part no.	822408A
Connection thread		G 1/4
<b>Replacement part set</b> consisting of: vanes, sealant rings, o-rings and silencers	Part no.	446084B / for part no. 306710(0)A 446084C / for part no. 306710(0)B,C

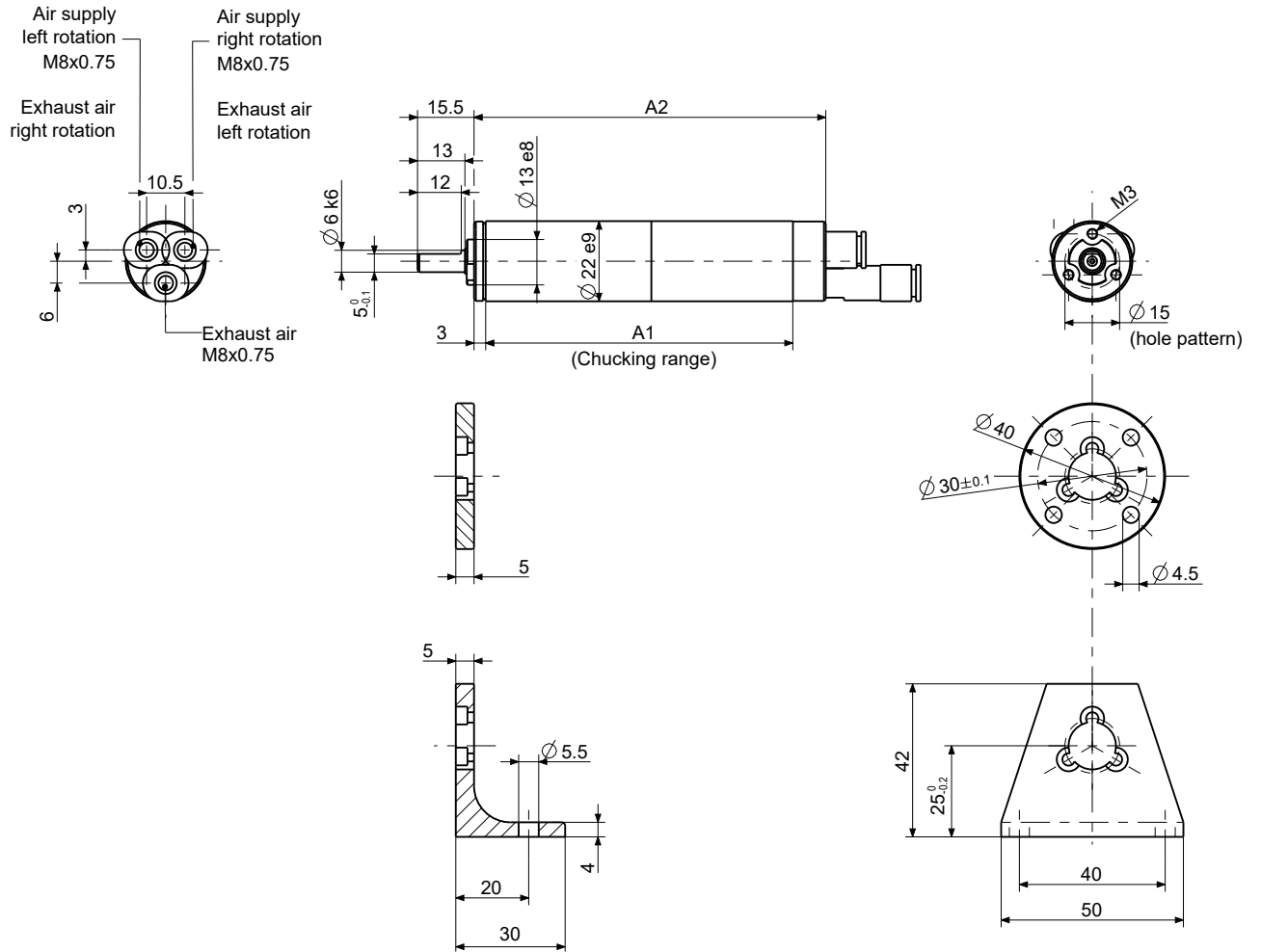
\* Maintenance unit consists of pressure regulator valve, filter and optionally with or without lubricator

Of course you can also purchase individual replacement parts from us. Please contact us if this is a requirement. Our standard maintenance units are not ATEX conform. Please contact us if this is a requirement

Allowable shaft loading see page 36.

Further notes for soundproofing see page 36/37.




**Motor size 1**  
**Series 67X-**  
 reversible, right rotation



Dimensions in mm

p4400602

## 90/120/170 W ADVANCED LINE AIR MOTOR

Motor size 2		reversible							
<b>Series 67X-</b> ATEX conform		<b>Type</b> Part no.	<b>67X-002</b> 306720A	<b>67X-012</b> 306720H	<b>67X-022</b> 306720B	<b>67X-032</b> 306720C	<b>67X-042</b> 306720D	<b>67X-052</b> 306720E	<b>67X-2521</b> 306720F
<b>ATEX specification</b>			<b>A</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>A</b>	<b>A</b>	<b>A</b>
<b>Series 67X- with threaded shaft</b>		<b>Type</b> Part no.	<b>67X-002G</b> 3067207A	<b>67X-012G</b> 3067207H	<b>67X-022G</b> 3067207B	<b>67X-032G</b> 3067207C	<b>67X-042G</b> 3067207D	<b>67X-052G</b> 3067207E	<b>67X-2521G</b> 3067207F
<b>ATEX specification</b>			<b>A</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>A</b>	<b>A</b>	<b>A</b>
Nominal power	W / HP		120 / 0.16	120 / 0.16	120 / 0.16	120 / 0.16	120 / 0.16	120 / 0.16	90 / 0.12 <sup>3)</sup>
Nominal speed	rpm		11000	2750	1800	700	450	300	<sup>2)</sup>
Speed (idling)	rpm		22000	5500	3600	1400	900	600	100
Nominal torque	Nm / in.lbs		0.10 / 0.9	0.4 / 3.5	0.6 / 5.3	1.6 / 14	2.5 / 22	3.8 / 34	5/44 <sup>1)</sup>
Start torque min.	Nm / in.lbs		0.15 / 1.3	0.6 / 5.3	0.9 / 8	2.4 / 21	3.8 / 34	5/44 <sup>1)</sup>	5/44 <sup>1)</sup>
Stall torque	Nm / in.lbs		0.19 / 1.68	0.76 / 6.73	1.14 / 10.09	3 / 26.55	4.7 / 41.6	5/44 <sup>1)</sup>	5/44 <sup>1)</sup>
Max. admissible torque	Nm / in.lbs		-	-	-	-	-	5 / 44	5 / 44
Air consumption	m <sup>3</sup> /min / cfm		0.3 / 11	0.3 / 11	0.3 / 11	0.3 / 11	0.3 / 11	0.3 / 11	0.3 / 11
Weight	kg / lbs		0.35 / 0.8	0.35 / 0.8	0.35 / 0.8	0.4 / 0.9	0.4 / 0.9	0.4 / 0.9	0.45 / 1
Hose I.D., supply air/exhaust air	mm / in.		6 / ¼	6 / ¼	6 / ¼	6 / ¼	6 / ¼	6 / ¼	6 / ¼
Motor size 2		right rotation							
<b>Series 67X-</b> ATEX conform		<b>Type</b> Part no.	<b>67X-002R</b> 3067200A	<b>67X-012R</b> 3067200H	<b>67X-022R</b> 3067200B	<b>67X-032R</b> 3067200C	<b>67X-042R</b> 3067200D	<b>67X-052R</b> 3067200E	
<b>ATEX specification</b>			<b>A</b>	<b>D</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>A</b>	
Nominal power	W / HP		170 / 0.23	170 / 0.23	170 / 0.23	170 / 0.23	170 / 0.23	170 / 0.23	
Nominal speed	rpm		12250	3075	2050	750	500	340	
Speed (idling)	rpm		24500	6150	4100	1500	1000	680	
Nominal torque	Nm / in.lbs		0.13 / 1.15	0.5 / 4.42	0.8 / 7.08	2.1 / 18.6	3.2 / 28.3	4.8 / 42.5	
Start torque min.	Nm / in.lbs		0.2 / 1.77	0.8 / 7.08	1.2 / 10.62	3.2 / 28.3	4.8 / 42.5	5/44 <sup>1)</sup>	
Stall torque	Nm / in.lbs		0.25 / 2.2	1 / 8.85	1.5 / 13.3	4.1 / 36.3	5/44 <sup>1)</sup>	5/44 <sup>1)</sup>	
Max. admissible torque	Nm / in.lbs		-	-	-	-	5 / 44	5 / 44	
Air consumption	m <sup>3</sup> /min / cfm		0.3 / 11	0.3 / 11	0.3 / 11	0.3 / 11	0.3 / 11	0.3 / 11	
Weight	kg / lbs		0.35 / 0.8	0.35 / 0.8	0.35 / 0.8	0.4 / 0.9	0.4 / 0.9	0.4 / 0.9	
Hose I.D., supply air/exhaust air	mm / in.		6 / ¼	6 / ¼	6 / ¼	6 / ¼	6 / ¼	6 / ¼	

Performance data relate to an air pressure of 6 bar (85 PSI) and lubricated air. With oil-free operation the output will be reduced by 10 - 20%.

<sup>3)</sup> theoretical values for issuing the power diagram

<sup>1)</sup> Please take note of the maximum permissible torque for the gear. Please note that these motor gears are not stall-proof. If a higher application-based torque cannot be limited by the customer (e.g. by use of a slip clutch), please contact our application specialists to discuss an alternative solution.

<sup>2)</sup> At the maximum permissible torque of the gear, operating speed is adjusted to the region of the idle speed. This operating speed can be reduced to up to 25 % of the indicated idle speed by reducing pressure and additional exhaust air throttling. For operation at very low speeds in relation to the idle speed, we recommend the use of spring-assisted vanes (Z vanes).

Optional Equipment	for motor size 2	
<b>Flange</b> incl. mounting screws	Part no.	4445694
<b>Bracket</b> incl. mounting screws	Part no.	4445722
<b>Silencer: motor operates in one direction (right or left rotation)</b>		
1 Hose nozzle	Part no.	823237
1 Silencer	Part no.	129596A
<b>Silencer: motor is reversible (right and left rotation)</b>		
2 Hose nozzles	Part no.	823237
1 Silencer	Part no.	129596B
<b>Maintenance unit with lubricator*</b>	Part no.	820454A
Connection thread		G 1/4
<b>Maintenance unit without lubricator*</b>	Part no.	822408A
Connection thread		G 1/4
<b>Replacement part set</b> consisting of: vanes, sealant rings, o-rings and silencers	Part no.	445580C / for part no. 306720(0)A 445580A / for part no. 306720(0)B-H

\*) Maintenance unit consists of pressure regulator valve, filter and optionally with or without lubricator

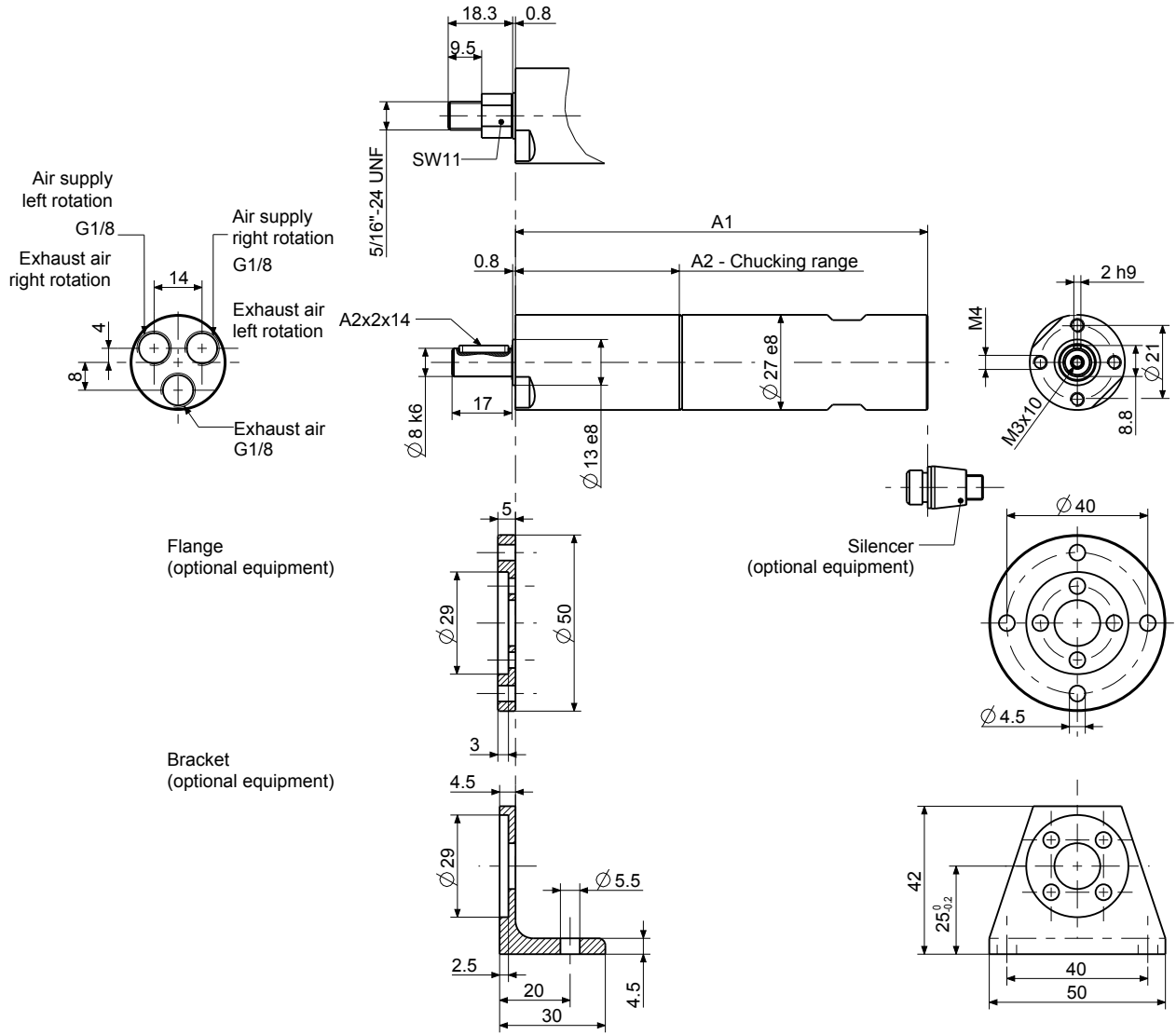
Of course you can also purchase individual replacement parts from us. Please contact us if this is a requirement. Our standard maintenance units are not ATEX conform. Please contact us if this is a requirement

Allowable shaft loading see page 36.

Further notes for soundproofing see page 36/37.



**Motor size 2**  
**Series 67X-**  
 reversible and right rotation






Dimensions in mm

p4402205

Motor size	Series 67X- Type			Dimensions of motor (mm)	
				A1	A2
2	67X-002(G,R)	67X-012(G,R)	67X-022(G,R)	117	46.5
	67X-032(G,R)	67X-042(G,R)	67X-052(G,R)	129.5	59
	67X-2521(G)			142	71.5

# 100/200/280 W ADVANCED LINE AIR MOTOR

Motor size 2.5		reversible							
<b>Series 67X-</b> ATEX conform	 <b>Type</b> Part no.	<b>67X-0025</b> 306725B	<b>67X-0125</b> 306725C	<b>67X-0225</b> 306725D	<b>67X-0725</b> 306725F	<b>67X-0325</b> 306725E	<b>67X-0425</b> 306725A	<b>67X-04251</b> 306725G	<b>67X-24251</b> 306725H
<b>ATEX specification</b>		<b>A</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>
<b>Series 67X- with threaded shaft</b> ATEX conform	 <b>Type</b> Part no.	<b>67X-0025G</b> 3067257B	<b>67X-0125G</b> 3067257C	<b>67X-0225G</b> 3067257D	<b>67X-0725G</b> 3067257F	<b>67X-0325G</b> 3067257E	<b>67X-0425G</b> 3067257A	<b>67X-04251G</b> 3067257G	<b>67X-24251G</b> 3067257H
<b>ATEX specification</b>		<b>A</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>
Nominal power	W / HP	200 / 0.27	200 / 0.27	200 / 0.27	200 / 0.27	200 / 0.27	200 / 0.27	100 / 0.13	200 / 0.27
Nominal speed	rpm	8000	2300	1200	700	350	180	90	2)
Speed (idling)	rpm	16000	4600	2400	1400	700	360	180	50
Nominal torque	Nm / in.lbs	0.24/2.12	0.8/7.08	1.6/14.16	2.7/23.9	5.4/47.8	10.6/93.81	10.5/92.9	20/177 1)
Start torque min.	Nm / in.lbs	0.35/3.1	1.2/10.62	2.4/21.24	4.1/36.3	8.2/72.6	15.9/140.7	15/132.75	20/177 1)
Stall torque	Nm / in.lbs	0.45/3.98	1.5/13.3	3/26.6	5.1/45.1	10.3/91.2	20/177 1)	20/177 1)	20/177 1)
Max. admissible torque	Nm / in.lbs	-	-	-	-	-	20/177	20/177	20/177
Air consumption	m <sup>3</sup> /min / cfm	0.37/13.06	0.37/13.06	0.37/13.06	0.37/13.06	0.37/13.06	0.37/13.06	0.27/9.53	0.37/13.06
Weight	kg / lbs	0.7/1.54	0.75/1.65	0.75/1.65	0.85/1.87	0.85/1.87	0.85/1.87	0.85/1.87	0.95/2.09
Hose I.D., supply air/exhaust air	mm /in.	10 / 3/8	10 / 3/8	10 / 3/8	10 / 3/8	10 / 3/8	10 / 3/8	10 / 3/8	10 / 3/8
Motor size 2.5		right rotation							
<b>Series 67X-</b> ATEX conform	 <b>Type</b> Part no.	<b>67X-0025R</b> 3067250B	<b>67X-0125R</b> 3067250C	<b>67X-0225R</b> 3067250D	<b>67X-0725R</b> 3067250F	<b>67X-0325R</b> 3067250E	<b>67X-0425R</b> 3067250A		
<b>ATEX specification</b>		<b>A</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>A</b>	<b>A</b>		
Nominal power	W / HP	280 / 0.38	280 / 0.38	280 / 0.38	280 / 0.38	280 / 0.38	280 / 0.38		
Nominal speed	rpm	9000	2600	1350	750	395	200		
Speed (idling)	rpm	18000	5200	2700	1500	790	400		
Nominal torque	Nm / in.lbs	0.3 / 2.65	1.03 / 9.11	1.98 / 17.5	3.55 / 31.4	6.77 / 59.9	13.37/118.3		
Start torque min.	Nm / in.lbs	0.45 / 3.98	1.5 / 13.3	2.9 / 25.7	5.3 / 46.9	10.1 / 89.4	20 / 177		
Stall torque	Nm / in.lbs	0.55 / 4.9	1.95 / 17.3	3.7 / 32.7	6.7 / 59.3	12.8 / 113.3	20/177 1)		
Max. admissible torque	Nm / in.lbs	-	-	-	-	-	20/177		
Air consumption	m <sup>3</sup> /min / cfm	0.4/14.12	0.4/14.12	0.4/14.12	0.4/14.12	0.4/14.12	0.4/14.12		
Weight	kg / lbs	0.7/1.54	0.75/1.65	0.75/1.65	0.85/1.87	0.85/1.87	0.85/1.87		
Hose I.D., supply air/exhaust air	mm /in.	10 / 3/8	10 / 3/8	10 / 3/8	10 / 3/8	10 / 3/8	10 / 3/8		

Performance data relate to an air pressure of 6 bar (85 PSI) and lubricated air. With oil-free operation the output will be reduced by 10 - 20%.

- 1) Please take note of the maximum permissible torque for the gear. Please note that these motor gears are not stall-proof. If a higher application-based torque cannot be limited by the customer (e.g. by use of a slip clutch), please contact our application specialists to discuss an alternative solution.
- 2) At the maximum permissible torque of the gear, operating speed is adjusted to the region of the idle speed. This operating speed can be reduced to up to 25 % of the indicated idle speed by reducing pressure and additional exhaust air throttling. For operation at very low speeds in relation to the idle speed, we recommend the use of spring-assisted vanes (Z vanes).

## Optional Equipment

for motor size 2.5

<b>Flange</b> incl. mounting screws	Part no.	4445305
<b>Bracket</b> incl. mounting screws	Part no.	4445393
<b>Silencer: motor operates in one direction (right or left rotation)</b>		
1 Hose nozzle	Part no.	823238 (1/8")
1 Silencer	Part no.	129601A (G1/8 / G1/4)
<b>Silencer: motor is reversible (right or left rotation)</b>		
2 Hose nozzles	Part no.	823238 (1/8")
1 Silencer	Part no.	129601B (G1/4)
<b>Maintenance unit with lubricator*</b>	Part no.	820454A G 1/4
<b>Maintenance unit without lubricator*</b>	Part no.	822408A G 1/4
<b>Replacement part set</b> consisting of: vanes, sealant rings, o-rings and silencers	Part no.	444785A / for part no. 306725(O)A, C-H 444785E / for part no. 306725(O)B

\*) Maintenance unit consists of pressure regulator valve, filter and optionally with or without lubricator

Of course you can also purchase individual replacement parts from us. Please contact us if this is a requirement. Our standard maintenance units are not ATEX conform. Please contact us if this is a requirement

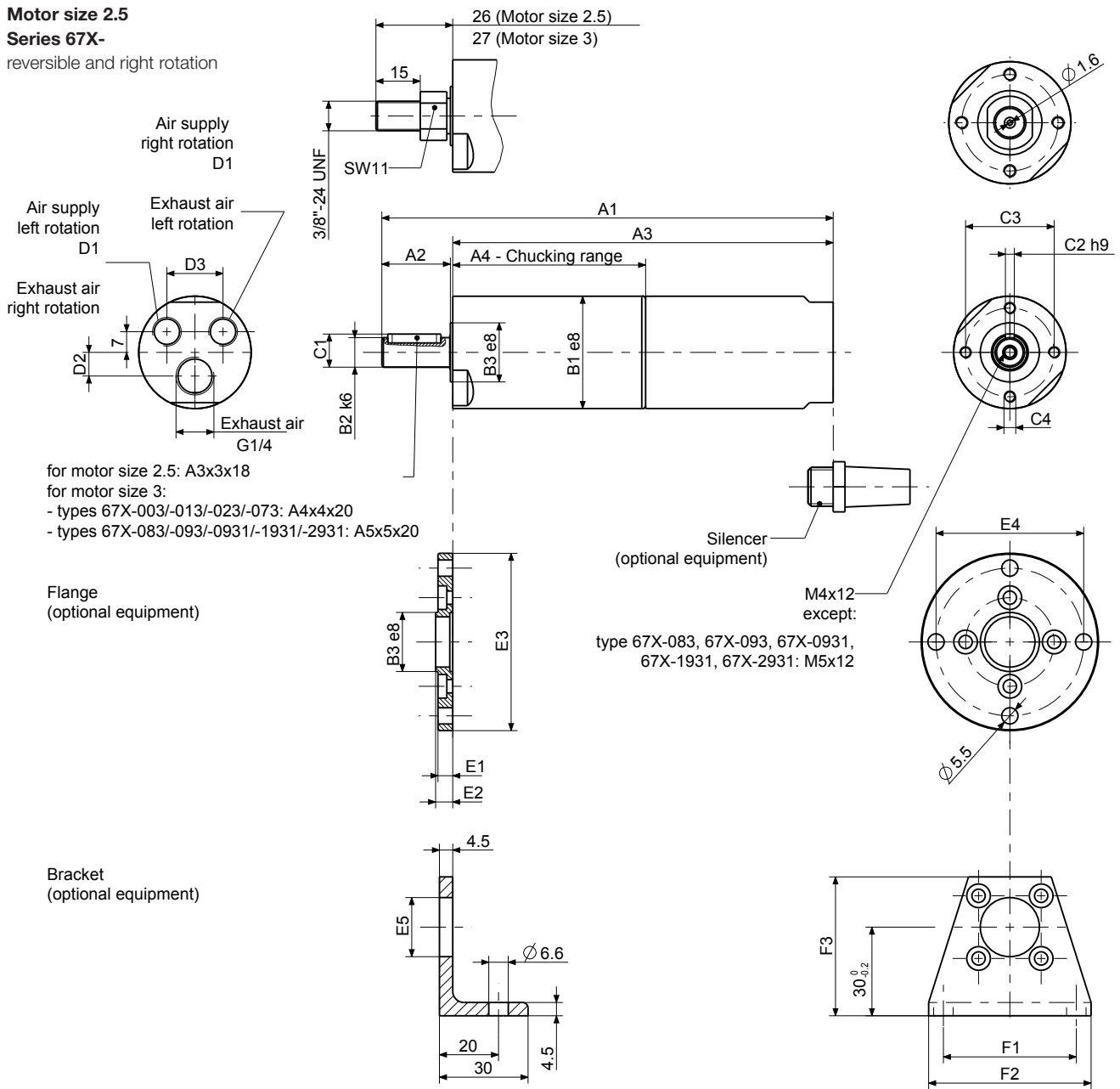
Allowable shaft loading see page 36.

Further notes for soundproofing see page 36/37.

**Motor size 2.5**

**Series 67X-**

reversible and right rotation



for motor size 2.5: A3x3x18  
 for motor size 3:  
 - types 67X-003/-013/-023/-073: A4x4x20  
 - types 67X-083/-093/-0931/-1931/-2931: A5x5x20

Flange  
 (optional equipment)

Bracket  
 (optional equipment)

Silencer  
 (optional equipment)





M4x12  
 except:  
 type 67X-083, 67X-093, 67X-0931,  
 67X-1931, 67X-2931: M5x12

Dimensions in mm

p4402777

Motor size	Series 67X- Type				Dimensions of motor (mm)													
					A1	A2	A3	A4	B1	B2	B3	C1	C2	C3	C4	D1	D2	D3
2.5	67X-0025(G,R)	67X-0125(G,R)	67X-0225(G,R)		152.5		128.5	65										
	67X-0725(G,R)	67X-0325(G,R)	67X-0425(G,R)	67X-04251(G)	168.8	23	144.8	81.3	38	10	20	11.2	3	30	M4	G <sup>1</sup> / <sub>8</sub>	8	19
	67X-24251(G)				184.5		160.5	97										
Motor size	Series 67X- Type				Dimensions of flange (mm)					Dimensions of bracket (mm)								
					B3	E1	E2	E3	E4	E5	F1	F2	F3					
2.5	67X-0025(G,R)	67X-0125(G,R)	67X-0225(G,R)	67X-0325(G,R)														
	67X-0725(G,R)	67X-0425(G,R)	67X-04251(G)	67X-24251(G)	20	5	5.8	60	50	17	45	55	47					

## 130/300/400 W ADVANCED LINE AIR MOTOR

Motor size 3		reversible									
<b>Series 67X-ATEX conform</b>		<b>Type</b> Part no.	<b>67X-003</b> 306730A	<b>67X-013</b> 306730B	<b>67X-023</b> 306730C	<b>67X-073</b> 306730D	<b>67X-083</b> 306730E	<b>67X-093</b> 306730F	<b>67X-0931</b> 306730G	<b>67X-1931</b> 306730K	<b>67X-2931</b> 306730H
<b>ATEX specification</b>			<b>A</b>	<b>D</b>	<b>C</b>	<b>C</b>	<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>
<b>Series 67X-with threaded shaft</b>		<b>Type</b> Part no.	<b>67X-003G</b> 3067307A	<b>67X-013G</b> 3067307B	<b>67X-023G</b> 3067307C	<b>67X-073G</b> 3067307D	<b>67X-083G</b> 3067307E	<b>67X-093G</b> 3067307F	<b>67X-0931G</b> 3067307G	<b>67X-1931G</b> 3067307K	<b>67X-2931G</b> 3067307H
<b>ATEX specification</b>			<b>A</b>	<b>D</b>	<b>C</b>	<b>C</b>	<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>
Nominal power	W / HP		300 / 0.4	300 / 0.4	300 / 0.4	300 / 0.4	300 / 0.4	300 / 0.4	130 / 0.17	300 / 0.4	300 / 0.4
Nominal speed	rpm		7250	2300	1200	615	350	180	90	2)	2)
Speed (idling)	rpm		14500	4600	2400	1230	700	360	180	100	50
Nominal torque	Nm / in.lbs		0.4/3.54	1.2/10.62	2.4/21.24	4.65/41.15	8.15/72.13	15.9/140.7	13.8/122.13	36/318.6 <sup>1)</sup>	36/318.6 <sup>1)</sup>
Start torque min.	Nm / in.lbs		0.6/5.31	1.9/16.8	3.6/31.9	6.95/61.5	12.25/108.4	23.8/210.6	21/185.85	36/318.6 <sup>1)</sup>	36/318.6 <sup>1)</sup>
Stall torque	Nm / in.lbs		0.76/6.7	2.2/19.5	4.5/39.8	8.8/77.88	15.5/137.2	30.2/267.3	26.2/231.9	36/318.6 <sup>1)</sup>	36/318.6 <sup>1)</sup>
Max. admissible torque	Nm / in.lbs		-	-	-	-	-	-	-	36/318.6	36/318.6
Air consumption	m <sup>3</sup> /min / cfm		0.47/16.6	0.47/16.6	0.47/16.6	0.47/16.6	0.47/16.6	0.47/16.6	0.28/9.88	0.47/16.6	0.47/16.6
Weight	kg / lbs		1.0/2.2	1.05/2.31	1.05/2.31	1.10/2.42	1.15/2.53	1.15/2.53	1.15/2.53	1.25/2.75	1.25/2.75
Hose I.D., supply air/exhaust air	mm / in.		10 / 3/8	10 / 3/8	10 / 3/8	10 / 3/8	10 / 3/8	10 / 3/8	10 / 3/8	10 / 3/8	10 / 3/8
Motor size 3		right rotation									
<b>Series 67X-ATEX conform</b>		<b>Type</b> Part no.	<b>67X-003R</b> 3067300A	<b>67X-013R</b> 3067300B	<b>67X-023R</b> 3067300C	<b>67X-073R</b> 3067300D	<b>67X-083R</b> 3067300E	<b>67X-093R</b> 3067300F			
<b>ATEX specification</b>			<b>A</b>	<b>D</b>	<b>C</b>	<b>C</b>	<b>A</b>	<b>A</b>			
<b>Series 67X-with threaded shaft</b>		<b>Type</b> Part no.	<b>67X-003GR</b> 30673014A	<b>67X-013GR</b> 30673014B	<b>67X-023GR</b> 30673014C	<b>67X-073GR</b> 30673014D	<b>67X-083GR</b> 30673014E	<b>67X-093GR</b> 30673014F			
<b>ATEX specification</b>			<b>A</b>	<b>D</b>	<b>C</b>	<b>C</b>	<b>A</b>	<b>A</b>			
Nominal power	W / HP		400/0.54	400/0.54	400/0.54	400/0.54	400/0.54	400/0.54			
Nominal speed	rpm		8800	2550	1300	745	425	220			
Speed (idling)	rpm		17600	5100	2600	1490	850	440			
Nominal torque	Nm / in.lbs		0.43/3.8	1.5/13.3	2.9/18.6	5.1/45.1	9/79.65	17.4/154			
Start torque min.	Nm / in.lbs		0.65/5.75	2.2/19.5	4.4/38.9	7.65/67.7	13.4/118.6	26/230.1			
Stall torque	Nm / in.lbs		0.82/7.3	2.8/24.8	5.5/48.7	9.7/85.8	17/150.45	33/292.05			
Max. admissible torque	Nm / in.lbs		-	-	-	-	-	-			
Air consumption	m <sup>3</sup> /min / cfm		0.5/17.65	0.5/17.65	0.5/17.65	0.5/17.65	0.5/17.65	0.5/17.65			
Weight	kg / lbs		1.0/2.2	1.05/2.31	1.05/2.31	1.10/2.42	1.15/2.53	1.15/2.53			
Hose I.D., supply air/exhaust air	mm / in.		10 / 3/8	10 / 3/8	10 / 3/8	10 / 3/8	10 / 3/8	10 / 3/8			

Performance data relate to an air pressure of 6 bar (85 PSI) and lubricated air. With oil-free operation the output will be reduced by 10 - 20%.

- Please take note of the maximum permissible torque for the gear. Please note that these motor gears are not stall-proof. If a higher application-based torque cannot be limited by the customer (e.g. by use of a slip clutch), please contact our application specialists to discuss an alternative solution.
- At the maximum permissible torque of the gear, operating speed is adjusted to the region of the idle speed. This operating speed can be reduced to up to 25 % of the indicated idle speed by reducing pressure and additional exhaust air throttling. For operation at very low speeds in relation to the idle speed, we recommend the use of spring-assisted vanes (Z vanes).

### Optional Equipment

for motor size 3

<b>Flange</b> incl. mounting screws	Part no.	4446105
<b>Bracket</b> incl. mounting screws	Part no.	4446112
<b>Silencer: motor operates in one direction (right or left rotation)</b>		
1 Hose nozzle	Part no.	410541 (1/4")
1 Silencer	Part no.	129602A (2xG1/4)
<b>Silencer: motor is reversible (right or left rotation)</b>		
2 Hose nozzles	Part no.	410541 (1/4")
1 Silencer	Part no.	129601B (G1/4)
<b>Maintenance unit with lubricator*</b>	Part no.	820455A
Connection thread		G 1/2
<b>Maintenance unit without lubricator*</b>	Part no.	822409A
Connection thread		G 1/2
<b>Replacement part set</b>		
consisting of: vanes, sealant rings, o-rings and silencers	Part no.	444786A / for part no. 306730(0)B-K 444786L / for part no. 306730(0)A

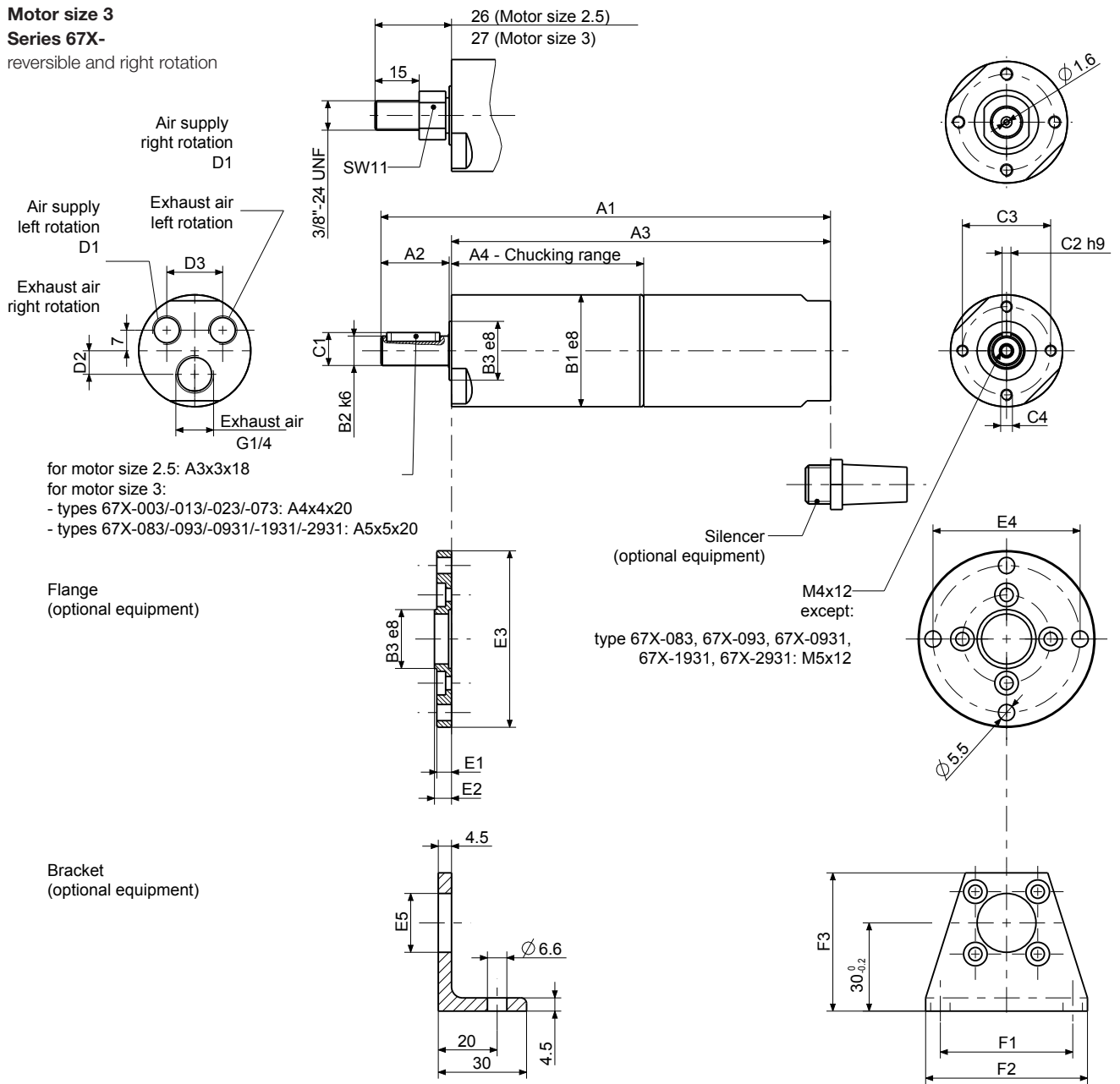
\*) Maintenance unit consists of pressure regulator valve, filter and optionally with or without lubricator

Of course you can also purchase individual replacement parts from us. Please contact us if this is a requirement. Our standard maintenance units are not ATEX conform. Please contact us if this is a requirement

Allowable shaft loading see page 36.

Further notes for soundproofing see page 36/37.

**Motor size 3**  
**Series 67X-**  
 reversible and right rotation



for motor size 2.5: A3x3x18  
 for motor size 3:  
 - types 67X-003/-013/-023/-073: A4x4x20  
 - types 67X-083/-093/-0931/-1931/-2931: A5x5x20

Flange  
 (optional equipment)



Bracket  
 (optional equipment)

Dimensions in mm

p4402777

Motor size	Series 67X- Type			Dimensions of motor (mm)														
				A1	A2	A3	A4	B1	B2	B3	C1	C2	C3	C4	D1	D2	D3	
3	67X-003(G,R)	67X-013(G,R)	67X-023(G,R)	171		143	66			12		13.5	4					
	67X-073(G,R)			187	27													
	67X-083(G,R)	67X-093(G,R)	67X-0931(G,R)	191		159	83	42		24				34	M5	G <sup>1</sup> / <sub>4</sub>	11	20
	67X-1931(G)	67X-2931(G)		196	30	164				14		16	5					
Motor size	Series 67X- Type			Dimensions of flange (mm)					Dimensions of bracket (mm)									
				B3	E1	E2	E3	E4	E5	F1	F2	F3						
3	67X-003(G,R)	67X-013(G,R)	67X-023(G,R)															
	67X-073(G,R)	67X-083(G,R)	67X-093(G,R)	24	6	6.8	65	55	21	50	60	48						
	67X-0931(G)	67X-1931(G)	67X-2931(G)															

## 300/400 W ADVANCED LINE AIR MOTOR with high torque

Motor size 3 with high torque		reversible				
<b>Series 67-</b> ATEX conform	 <b>Type</b> Part no.	<b>67X-613</b> 306730I	<b>67X-623</b> 306730L	<b>67X-673</b> 306730M	<b>67X-413</b> 306730N	<b>67X-423</b> 306730O
<b>ATEX specification</b>		<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>
Nominal power	W / HP	300 / 0.4	300 / 0.4	300 / 0.4	300 / 0.4	300 / 0.4
Nominal speed	rpm	85	45	25	13	7
Speed (idling)	rpm	170	90	50	26	14
Nominal torque	Nm / in.lbs	33.7 / 298.2	63.6 / 562.9	114.5 / 1013.3	220 / 1947	410 / 3628.5
Start torque min.	Nm / in.lbs	50.5 / 446.9	95.4 / 844.3	171.5 / 1517.8	330 / 2920.5	600/5310 <sup>1)</sup>
Stall torque	Nm / in.lbs	64 / 566.4	120.9 / 1070	217 / 1920.45	418 / 3699.3	600/5310 <sup>1)</sup>
Max. admissible torque	Nm / in.lbs	-	-	-	-	600 / 5310
Air consumption	m <sup>3</sup> /min / cfm	0.47 / 16.6	0.47 / 16.6	0.47 / 16.6	0.47 / 16.6	0.47 / 16.6
Weight	kg / lbs	2.7 / 5.94	2.6 / 5.72	2.9 / 6.38	3.5 / 7.7	3.5 / 7.7
Hose I.D., supply air/exhaust air	mm / in.	10 / <sup>3</sup> / <sub>8</sub>	10 / <sup>3</sup> / <sub>8</sub>	10 / <sup>3</sup> / <sub>8</sub>	10 / <sup>3</sup> / <sub>8</sub>	10 / <sup>3</sup> / <sub>8</sub>
Motor size 3 with high torque		right rotation				
<b>Series 67-</b> ATEX conform	 <b>Type</b> Part no.	<b>67X-613R</b> 3067300I	<b>67X-623R</b> 3067300L	<b>67X-673R</b> 3067300M	<b>67X-413R</b> 3067300N	<b>67X-423R</b> 3067300O
<b>ATEX specification</b>		<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>
Nominal power	W / HP	400/0.54	400/0.54	400/0.54	400/0.54	400/0.54
Nominal speed	rpm	105	55	31	15	8
Speed (idling)	rpm	210	110	62	30	16
Nominal torque	Nm / in.lbs	36.3/321.25	69.4/614.2	123.2/1090	254/2248	477/4221.45
Start torque min.	Nm / in.lbs	54.5/482.3	104/920.4	184.4/1631.94	382/3380.7	600/5310 <sup>1)</sup>
Stall torque	Nm / in.lbs	69/610.65	132/1168.2	234/2070.9	483.8/4281.63	600/5310 <sup>1)</sup>
Max. admissible torque	Nm / in.lbs	-	-	-	-	600/5310
Air consumption	m <sup>3</sup> /min / cfm	0.5/17.65	0.5/17.65	0.5/17.65	0.5/17.65	0.5/17.65
Weight	kg / lbs	2.7 / 5.94	2.6 / 5.72	2.9 / 6.38	3.5 / 7.7	3.5 / 7.7
Hose I.D., supply air/exhaust air	mm / in.	10 / <sup>3</sup> / <sub>8</sub>	10 / <sup>3</sup> / <sub>8</sub>	10 / <sup>3</sup> / <sub>8</sub>	10 / <sup>3</sup> / <sub>8</sub>	10 / <sup>3</sup> / <sub>8</sub>

Performance data relate to an air pressure of 6 bar (85 PSI) and lubricated air. With oil-free operation the output will be reduced by 10 - 20%.

<sup>1)</sup> Please take note of the maximum permissible torque for the gear. Please note that these motor gears are not stall-proof. If a higher application-based torque cannot be limited by the customer (e.g. by use of a slip clutch), please contact our application specialists to discuss an alternative solution.

Optional Equipment		for motor size 3	
<b>Flange</b> incl. mounting screws	Part no.	4134632	
<b>Bracket</b> incl. mounting screws	Part no.	44461738	
<b>Silencer: motor operates in one direction</b> <b>(right or left rotation)</b>			
1 Hose nozzle	Part no.	410541 (1/4")	
1 Silencer	Part no.	129602A (2xG1/4)	
<b>Silencer: motor is reversible</b> <b>(right or left rotation)</b>			
2 Hose nozzles	Part no.	410541 (1/4")	
1 Silencer	Part no.	129601B (G1/4)	
<b>Maintenance unit with lubricator*</b>	Part no.	820455A	
Connection thread		G 1/2	
<b>Maintenance unit without lubricator*</b>	Part no.	822409A	
Connection thread		G 1/2	
<b>Replacement part set</b> consisting of: vanes, sealant rings, o-rings and silencers	Part no.	444786O for part no. 306730(O)I,L,M 444786C for part no. 306730(O)N,O	

\*) Maintenance unit consists of pressure regulator valve, filter and optionally with or without lubricator

Of course you can also purchase individual replacement parts from us. Our standard maintenance units are not ATEX conform. Please contact us if this is a requirement.

Allowable shaft loading see page 36.

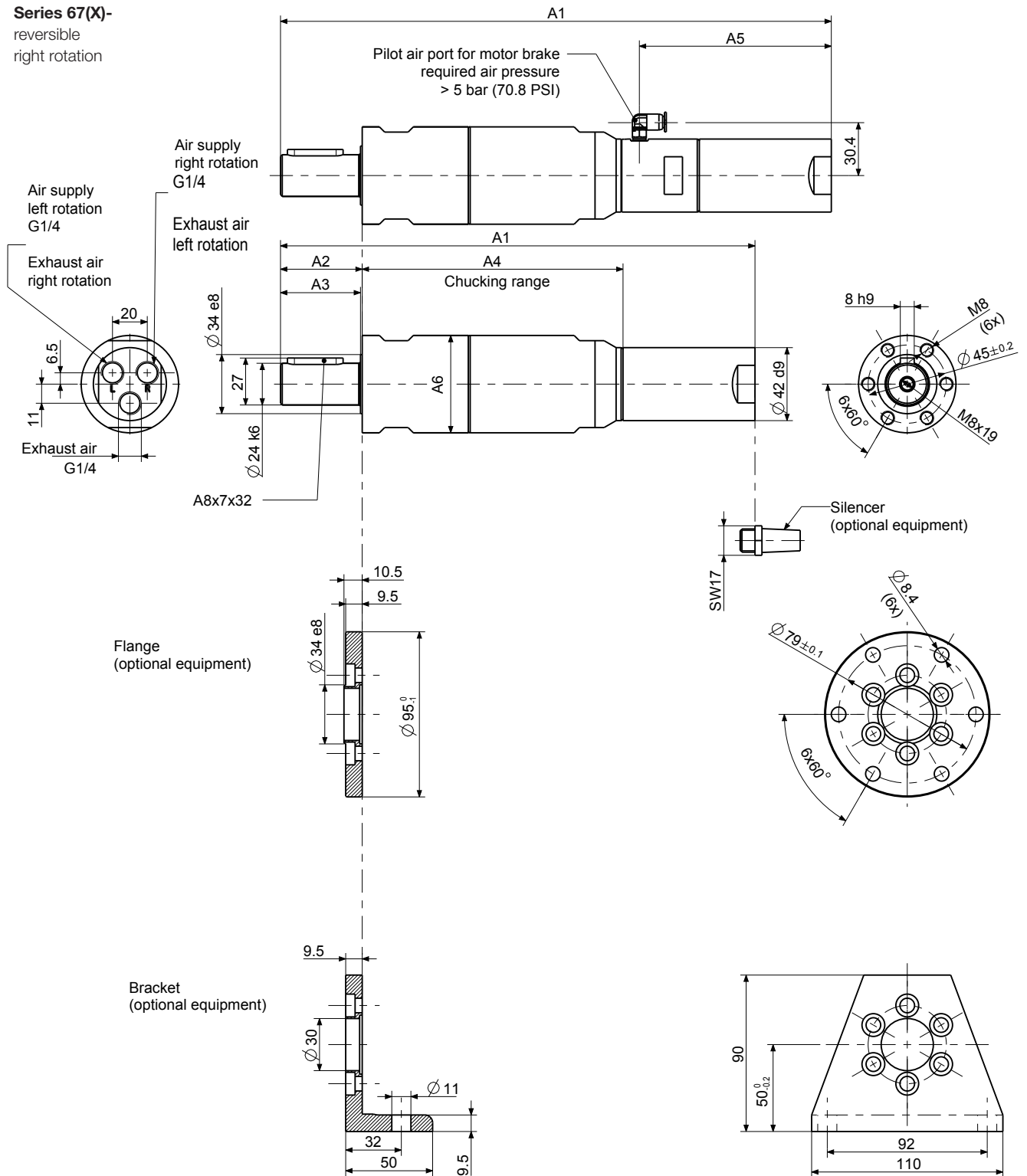
Further notes for soundproofing see page 36/37.

Notes to the pressure regulator valve for our ATEX conform brake motors, please find on page 38.

**Motor size 3 High torque stainless steel motors**

**Series 67(X)-**

reversible  
right rotation




Dimensions in mm

p444204

Motor size	Series 67(X)-		Dimensions of motor (mm)					
	Type	Type	A1	A2	A3	A4	A5	A6
3	67X-613(R)	67X-623(R)	257.1	44	43	134.1	-	56e8
	67X-673(R)		272.9	47	46	149.9	-	63h8
	67X-413(R)	67X-423(R)	279.2	47	46	156.2	-	63h8

## 300 W ADVANCED LINE HIGH TORQUE MOTORS with integrated holding brake

Motor size 3 with holding brake		reversible				
<b>Series 67-</b> ATEX conform	 <b>Type</b> Part no.	<b>67X-613B</b> 1030291P	<b>67X-623B</b> 1030291R	<b>67X-673B</b> 1030291S	<b>67X-413B</b> 1030291N	<b>67X-423B</b> 1030291O
<b>ATEX specification</b>		<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>
<b>Series 67-</b> without ATEX authorization	<b>Type</b> Part no.	<b>67-613B-1</b> 103029P	<b>67-623B-1</b> 103029R	<b>67-673B-1</b> 103029S	<b>67-413B-1</b> 103029N	<b>67-423B-1</b> 103029O
Nominal power	W / HP	300 / 0.4	300 / 0.4	300 / 0.4	300 / 0.4	300 / 0.4
Nominal speed	rpm	85	45	25	13	7
Speed (idling)	rpm	170	90	50	26	14
Nominal torque	Nm / in.lbs	33.7 / 298.2	63.6 / 562.9	114.5 / 1013.3	220 / 1947	410 / 3628.5
Start torque min.	Nm / in.lbs	50.5 / 446.9	95.4 / 844.29	171.5 / 1517.8	330 / 2920.5	600/5310 <sup>1)</sup>
Stall torque	Nm / in.lbs	64 / 566.4	120.9 / 1070	217 / 1920.45	418 / 3699.3	600/5310 <sup>1)</sup>
Max. admissible torque	Nm / in.lbs	-	-	-	-	600 / 5310
Brake torque	Nm / in.lbs	82 / 725.7	160 / 1416	282 / 2495.7	554 / 4902.9	-
Air consumption	m <sup>3</sup> /min / cfm	0.47 / 16.6	0.47 / 16.6	0.47 / 16.6	0.47 / 16.6	0.47 / 16.6
Weight	kg / lbs	3.1 / 6.82	3 / 6.6	3.3 / 7.26	3.9 / 8.58	3.9 / 8.58
Hose I.D., supply air/exhaust air	mm / in.	10 / <sup>3</sup> / <sub>8</sub>	10 / <sup>3</sup> / <sub>8</sub>	10 / <sup>3</sup> / <sub>8</sub>	10 / <sup>3</sup> / <sub>8</sub>	10 / <sup>3</sup> / <sub>8</sub>

Performance data relate to an air pressure of 6 bar (85 PSI) and lubricated air. With oil-free operation the output will be reduced by 10 - 20%.

<sup>1)</sup> Please take note of the maximum permissible torque for the gear. Please note that these motor gears are not stall-proof. If a higher application-based torque cannot be limited by the customer (e.g. by use of a slip clutch), please contact our application specialists to discuss an alternative solution.

Optional Equipment	for motor size 3	
<b>Flange</b> incl. mounting screws	Part no.	4134632
<b>Bracket</b> incl. mounting screws	Part no.	44461738
<b>Silencer: motor operates in one direction (right or left rotation)</b>		
1 Hose nozzle	Part no.	410541 (1/4")
1 Silencer	Part no.	129602A (2xG1/4)
<b>Silencer: motor is reversible (right or left rotation)</b>		
2 Hose nozzles	Part no.	410541 (1/4")
1 Silencer	Part no.	129601B (G1/4)
<b>Maintenance unit with lubricator*</b>	Part no.	820455A
Connection thread		G 1/2
<b>Maintenance unit without lubricator*</b>	Part no.	822409A
Connection thread		G 1/2
<b>Replacement part set</b> consisting of: vanes, sealant rings, o-rings and silencers	Part no.	444786O for part no. 103029(1)P,R,S 444786C for part no. 103029(1)N,O
<b>Replacement part set for brake</b> consisting of: discs, pressure spring and o-rings	Part no.	446096C

\* Maintenance unit consists of pressure regulator valve, filter and optionally with or without lubricator

Of course you can also purchase individual replacement parts from us. Our standard maintenance units are not ATEX conform. Please contact us if this is a requirement.

Allowable shaft loading see page 36.

Further notes for soundproofing see page 36/37.

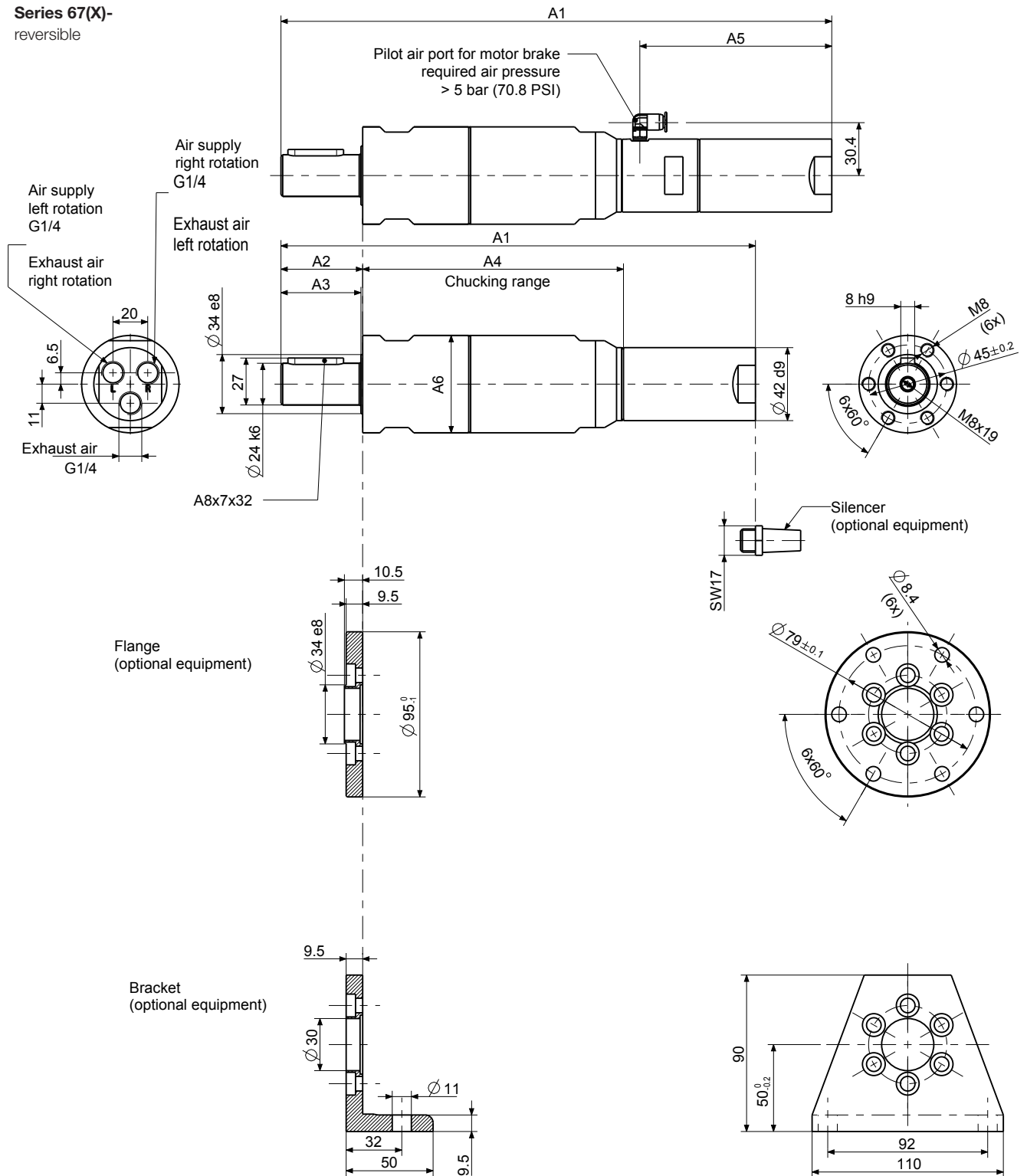
Notes to the pressure regulator valve for our ATEX conform brake motors, please find on page 38.



**Motor size 3 High torque stainless steel motors**

**Series 67(X)-**

reversible



Dimensions in mm

p444204

Motor size	Series 67(X)-		Dimensions of motor (mm)					
	Type	Type	A1	A2	A3	A4	A5	A6
3	67(X)-613B(-1)	67(X)-623B(-1)	300.1	44	43	134.1		56e8
	67(X)-673B(-1)		316.8			149.9	110.4	
	67(X)-413B(-1)	67(X)-423B(-1)	316.8	47	46	156.2		63h8

# 100/130/200/300 W ADVANCED LINE AIR MOTOR with integrated holding brake

Motor size 2.5 with holding brake		reversible							
Series 67- ATEX conform	Type Part no.	67X-0025B 1073991B	67X-0125B 1073991C	67X-0225B 1073991D	67X-0725B 1073991F	67X-0325B 1073991E	67X-0425B 1073991A	67X-04251B 1073991G	67X-24251B 1073991H
ATEX specification		A	C	C	C	A	A	A	A
Nominal power	W/HP	200/0.27	200/0.27	200/0.27	200/0.27	200/0.27	200/0.27	100/0.134	200/0.27
Nominal speed	rpm	8000	2300	1200	700	350	180	90	2)
Speed (idling)	rpm	16000	4600	2400	1400	700	360	180	50
Nominal torque	Nm/in.lbs	0.24/2.12	0.8/7.08	1.6/14.16	2.7/23.9	5.4/47.8	10.6/93.8	10.5/92.9	20/177 1)
Start torque min.	Nm/in.lbs	0.35/3.1	1.2/10.6	2.4/21.2	4.1/36.3	8.2/72.6	15.9/140.7	15/132.75	20/1177 1)
Stall torque	Nm/in.lbs	0.45/3.98	1.5/13.275	3/26.55	5.1/45.135	10.3/91.155	-	-	20/177 1)
Max. admissible torque	Nm/in.lbs	-	-	-	-	20/177	20/177	20/177	20/177
Brake torque	Nm/in.lbs	1/8.85	3.4/30.1	6.7/59.3	11.8/104.43	-	-	-	-
Air consumption	m <sup>3</sup> /min/cfm	0.37/13.06	0.37/13.06	0.37/13.06	0.37/13.06	0.37/13.06	0.37/13.06	0.27/9.53	0.37/13.06
Weight	kg/lbs	1/2.2	1.05/2.31	1.05/2.31	1.15/2.53	1.15/2.53	1.15/2.53	1.36/3	1.36/3
Hose I.D., supply air/exhaust air	mm/in.	10 / 3/8	10 / 3/8	10 / 3/8	10 / 3/8	10 / 3/8	10 / 3/8	10 / 3/8	10 / 3/8

Motor size 3 with holding brake		reversible								
Series 67- ATEX conform	Type Part no.	67X-003B 1030291A	67X-013B 1030291B	67X-023B 1030291C	67X-073B 1030291D	67X-083B 1030291E	67X-093B 1030291F	67X-0931B 1030291G	67X-1931B 1030291K	67X-2931B 1030291H
ATEX specification		A	D	C	C	A	A	A	A	A
Nominal power	W/HP	300/0.4	300/0.4	300/0.4	300/0.4	300/0.4	300/0.4	130/0.174	300/0.4	300/0.4
Nominal speed	rpm	7250	2300	1200	615	350	180	90	2)	2)
Speed (idling)	rpm	14500	4600	2400	1230	700	360	180	100	50
Nominal torque	Nm/in.lbs	0.4/3.54	1.2/10.6	2.4/21.2	4.65/41.15	8.15/72.13	15.9/140.7	13.8/122.13	36/318.6 1)	36/318.6 1)
Start torque min.	Nm/in.lbs	0.6/5.3	1.9/16.8	3.6/31.86	6.95/61.5	12.25/108.4	23.9/211.5	21/185.85	36/318.6 1)	36/318.6 1)
Stall torque	Nm/in.lbs	0.76/6.73	2.2/19.5	4.5/39.8	8.8/77.88	15.2/134.52	30.2/267.27	26.2/231.87	36/318.6 1)	36/318.6 1)
Max. admissible torque	Nm/in.lbs	-	-	-	-	-	36/318.6	36/318.6	36/318.6	36/318.6
Brake torque	Nm/in.lbs	1/8.85	3.4/30.1	6.7/59.3	11.8/104.43	20.6/182.31	-	-	-	-
Air consumption	m <sup>3</sup> /min/cfm	0.47/16.6	0.47/16.6	0.47/16.6	0.47/16.6	0.47/16.6	0.47/16.6	0.28/9.88	0.47/16.6	0.47/16.6
Weight	kg/lbs	1.35/2.97	1.4/3.08	1.4/3.08	1.45/3.19	1.5/3.3	1.5/3.3	1.7/3.74	1.8/1.76	1.8/1.76
Hose I.D., supply air/exhaust air	mm/in.	10 / 3/8	10 / 3/8	10 / 3/8	10 / 3/8	10 / 3/8	10 / 3/8	10 / 3/8	10 / 3/8	10 / 3/8

Performance data relate to an air pressure of 6 bar (85 PSI) and lubricated air. With oil-free operation the output will be reduced by 10 - 20%.

1) Please take note of the maximum permissible torque for the gear. Please note that these motor gears are not stall-proof. If a higher application-based torque cannot be limited by the customer (e.g. by use of a slip clutch), please contact our application specialists to discuss an alternative solution.

2) At the maximum permissible torque of the gear, operating speed is adjusted to the region of the idle speed. This operating speed can be reduced to up to 25 % of the indicated idle speed by reducing pressure and additional exhaust air throttling. For operation at very low speeds in relation to the idle speed, we recommend the use of spring-assisted vanes (Z vanes).

Optional Equipment:		for motor size 2.5	for motor size 3
Flange incl. mounting screws	Part no.	4445305	4446105
Bracket incl. mounting screws	Part no.	4445393	4446112
<b>Silencer: motor operates in one direction (right or left rotation)</b>			
1 Hose nozzle	Part no.	823238 (1/8")	410541 (1/4")
1 Silencer	Part no.	129601A (G1/8/G1/4)	129602A (2xG1/4)
<b>Silencer: Motor is reversible (right or left rotation)</b>			
2 Hose nozzles	Part no.	823238 (1/8")	410541 (1/4")
1 Silencer	Part no.	129601B (G1/4)	129601B (G1/4)
<b>Maintenance unit with lubricator*</b>			
Connection thread	Part no.	820454A G 1/4	820455A G 1/2
<b>Maintenance unit without lubricator*</b>			
Connection thread	Part no.	822408A G 1/4	822409A G 1/2
<b>Replacement part set</b> consisting of: vanes, sealant rings, o-rings and silencers			
Part no.		444785A for part no. 107399(1)A,C-H 444785E for part no. 107399(1)B	444786A for part no. 103029(1)B-H,K 444786L for part no. 103029(1)A
<b>Replacement part set for brake</b> consisting of: discs, pressure spring and o-rings			
Part no.		446096C	446096C

\* Maintenance unit consists of pressure regulator valve, filter and optionally with or without lubricator

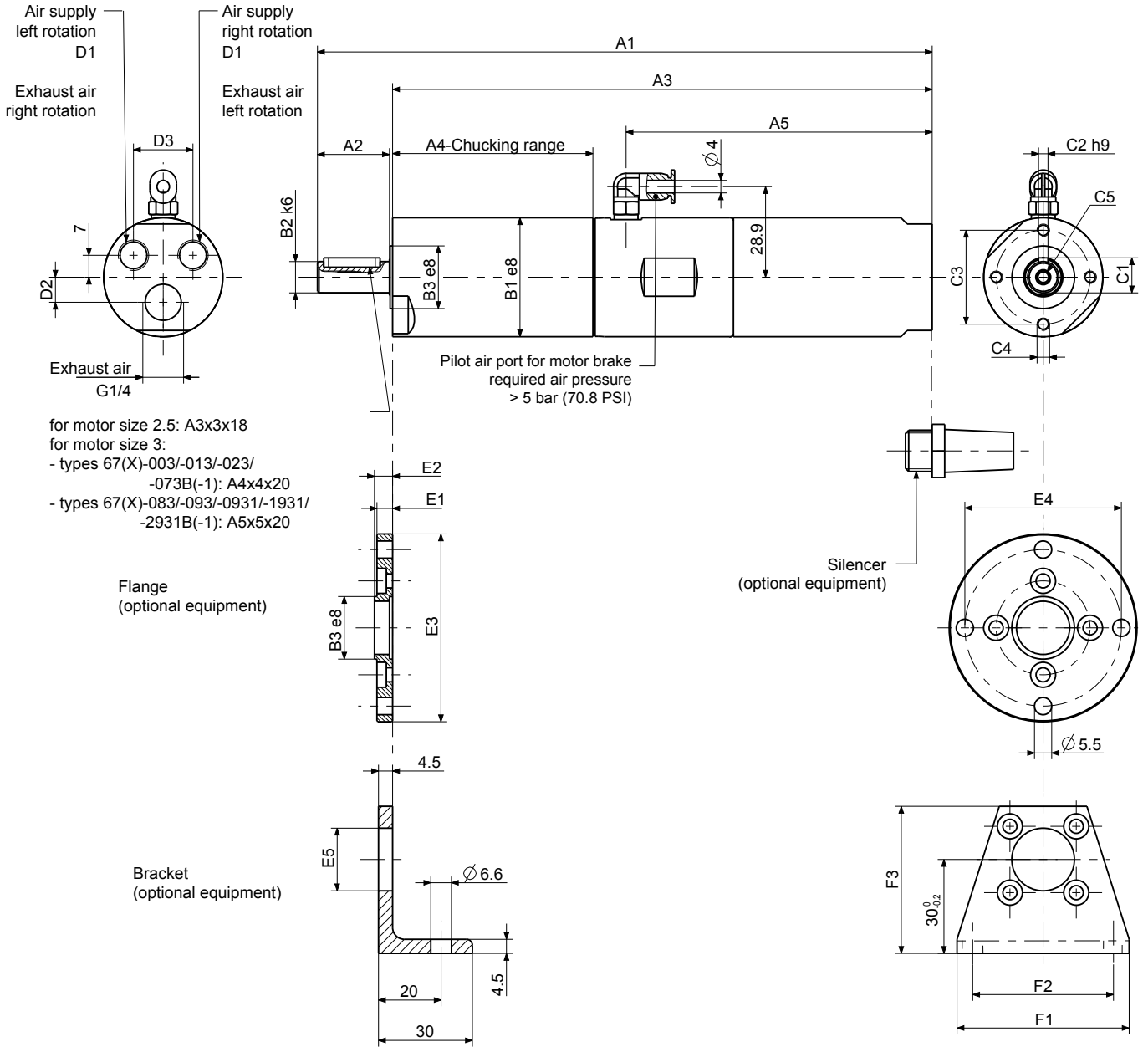
Of course you can also purchase individual replacement parts from us. Our standard maintenance units are not ATEX conform. Please contact us if this is a requirement.

Allowable shaft loading see page 36.

Further notes for soundproofing see page 36/37.

Notes to the pressure regulator valve for our ATEX conform brake motors, please find on page 38.

**Motor size 2.5 and Motor size 3 with holding brake, Series 67(X)-, reversible**






p4134552

Dimensions in mm

Motor size	Series 67(X)- Type			Dimensions of motor (mm)															
				A1	A2	A3	A4	A5	B1	B2	B3	C1	C2	C3	C4	C5	D1	D2	D3
2.5	67(X)-0025B(-1)	67(X)-0125B(-1)	67(X)-0225B(-1)	196		172	64												
	67(X)-0725B(-1)	67(X)-0325B(-1)	67(X)-0425B(-1)	212	23	188	80	98	38	10	20	11.2	3	30	M4	M4x12	G1/8	8	19
	67(X)-24251B(-1)			228		204	96												
3	67(X)-003B(-1)	67(X)-013B(-1)	67(X)-023B(-1)	215		187	67												
	67(X)-073B(-1)			231	27										M4x12				
	67(X)-083B(-1)	67(X)-093B(-1)	67(X)-0931B(-1)	235	30	203	83	110	42						M5		G1/4	11	20
	67(X)-1931B(-1)	67(X)-2931B(-1)		250	30	218	82								M5x12				
Motor size	Series 67(X)- Type			Dimensions of flange (mm)					Dimensions of bracket (mm)										
				B3	E1	E2	E3	E4	E5	F1	F2	F3							
2.5	67(X)-0025B(-1)	67(X)-0125B(-1)	67(X)-0225B(-1)																
	67(X)-0725B(-1)	67(X)-0325B(-1)	67(X)-0425B(-1)	20	5	5.8	60	50	17	55	45	47							
	67(X)-24251B(-1)																		
3	67(X)-003B(-1)	67(X)-013B(-1)	67(X)-023B(-1)																
	67(X)-073B(-1)																		
	67(X)-083B(-1)	67(X)-093B(-1)	67(X)-0931B(-1)	24	6	6.8	65	55	21	60	50	48							
	67(X)-1931B(-1)	67(X)-2931B(-1)																	

## 300/600/850 W ADVANCED LINE AIR MOTOR ATEX conform/without ATEX authorization for drill-chuck

Motor size 6		reversible									
<b>Series 67X-</b> ATEX conform		<b>Type</b>	<b>67X-006</b>	<b>67X-086</b>	<b>67X-016</b>	<b>67X-026</b>	<b>67X-036</b>	<b>67X-046</b>	<b>67X-056</b>	<b>67X-066</b>	<b>67X-0661</b>
		Part no.	306760A	306760N	306760H	306760B	306760C	306760D	306760E	306760F	306760G
<b>ATEX specification</b>			<b>A</b>	<b>A</b>	<b>D</b>	<b>C</b>	<b>C</b>	<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>
<b>Series 67X-</b> with threaded shaft ATEX conform		<b>Type</b>	-	-	<b>67X-016G</b>	<b>67X-026G</b>	<b>67X-036G</b>	<b>67X-046G</b>	-	-	-
		Part no.	-	-	1141327H	1141327B	1141327C	1141327D	-	-	-
<b>ATEX specification</b>			-	-	<b>D</b>	<b>C</b>	<b>C</b>	<b>A</b>	-	-	-
<b>Series 67-</b> without ATEX authorization for drill-chuck		<b>Type</b>	-	-	<b>67-016B16</b>	<b>67-026B16</b>	<b>67-036B16</b>	<b>67-046B16</b>	<b>67-056B16</b>	<b>67-066B16</b>	<b>67-0661B16</b>
		Part no.	-	-	114132H	114132B	114132C	114132D	114132E	114132F	114132G
Nominal power	W / HP		600/0.8	600/0.8	600/0.8	600/0.8	600/0.8	600/0.8	600/0.8	600/0.8	300/0.4
Nominal speed	rpm		6750	2750	2000	1500	1000	350	250	170	90
Speed (idling)	rpm		13500	5500	4000	3000	2000	700	500	340	180
Nominal torque	Nm / in.lbs		0.85/7.5	2/17.7	2.8/24.78	3.8/33.63	5.7/50.44	16.3/144.3	22.9/202.7	33.7/298.25	31.8/281.43
Start torque min.	Nm / in.lbs		1.25/11.06	3.1/27.435	4.3/38.055	5.7/50.445	8.5/75.225	24.5/216.825	34.3/303.55	50.6/447.81	47.7/422.15
Stall torque	Nm / in.lbs		1.6/14.16	3.9/34.5	5.4/47.8	7.2/63.72	10.8/95.58	31.1/275.24	43.5/385	64/566.4	60.4/534.54
Air consumption	m <sup>3</sup> /min / cfm		0.85/30	0.85/30	0.85/30	0.85/30	0.85/30	0.85/30	0.85/30	0.85/30	0.55/19.4
Weight	kg / lbs		2.2/4.84	2.7/5.94	2.3/5.06	2.3/5.06	2.3/5.06	2.6/5.72	2.7/5.94	2.7/5.94	2.7/5.94
Hose I.D., supply air/exhaust air	mm / in.		12 / 1/2	12 / 1/2	12 / 1/2	12 / 1/2	12 / 1/2	12 / 1/2	12 / 1/2	12 / 1/2	12 / 1/2
Motor size 6		right rotation									
<b>Series 67X-</b> ATEX conform		<b>Type</b>	<b>67X-006R</b>	<b>67X-086R</b>	<b>67X-016R</b>	<b>67X-026R</b>	<b>67X-036R</b>	<b>67X-046R</b>	<b>67X-056R</b>	<b>67X-066R</b>	
		Part no.	3067600A	3067600N	3067600H	3067600B	3067600C	3067600D	3067600E	3067600F	
<b>ATEX specification</b>			<b>A</b>	<b>A</b>	<b>D</b>	<b>D</b>	<b>C</b>	<b>C</b>	<b>A</b>	<b>A</b>	
Nominal power	W / HP		850	850/1.14	850/1.14	850/1.14	850/1.14	850/1.14	850/1.14	850/1.14	
Nominal speed	rpm		7250	2985	2100	1650	1075	375	275	180	
Speed (idling)	rpm		14500	5970	4200	3300	2150	750	550	360	
Nominal torque	Nm / in.lbs		1.12/9.9	2.7/23.9	3.9/34.5	4.9/43.4	7.6/67.3	21.6/191.2	29.5/261.1	45.1/399.1	
Start torque min.	Nm / in.lbs		1.68/14.9	4.1/36.3	5.8/51.3	7.4/65.5	11.3/100	32.5/287.6	44.3/392.1	67.6/598.3	
Stall torque	Nm / in.lbs		2.13/18.85	5.2/46.02	7.3/64.6	9.3/82.3	14.3/126.5	41.1/363.7	56.1/496.5	85.7/758.4	
Air consumption	m <sup>3</sup> /min / cfm		0.85/30	0.85/30	0.85/30	0.85/30	0.85/30	0.85/30	0.85/30	0.85/30	
Weight	kg / lbs		2.2/4.84	2.7/5.94	2.3/5.1	2.3/5.1	2.3/5.1	2.6/5.72	2.7/5.94	2.7/5.94	
Hose I.D., supply air/exhaust air	mm / in.		12 / 1/2	12 / 1/2	12 / 1/2	12 / 1/2	12 / 1/2	12 / 1/2	12 / 1/2	12 / 1/2	

Performance data relate to an air pressure of 6 bar (85 PSI) and lubricated air. With oil-free operation the output will be reduced by 10 - 20%.

Optional Equipment:	for motor size 6	
<b>Flange</b> incl. mounting screws	Part no.	4446166
<b>Bracket</b> incl. mounting screws	Part no.	4446176
<b>Silencer: motor operates in one direction (right or left rotation)</b>		
1 Hose nozzle	Part no.	410540 (3/8")
1 Silencer	Part no.	129563A (G <sup>3/8</sup> /G <sup>1/2</sup> **)
<b>Silencer: Motor is reversible (right or left rotation)</b>		
2 Hose nozzles	Part no.	410540 (3/8")
1 Silencer	Part no.	129563B (G <sup>1/2</sup> )
<b>Drill-Chuck</b>		
Range 1 - 13 mm / B 16	Part no.	804652
<b>Quick change chuck</b>		
Range 1 - 13 mm / B 16	Part no.	804663
<b>Maintenance unit with lubricator*</b>	Part no.	820455A
Connection thread		G 1/2
<b>Maintenance unit without lubricator*</b>	Part no.	822409A
Connection thread		G 1/2
<b>Replacement part set</b> consisting of: vanes, sealant rings, o-rings and silencers	Part no.	444787A for part no. 306760B-D,H/for part no. 3067600B-D,H/for part no. 114132B-D, H
	Part no.	444787B for part no. 306760E-G/for part no. 3067600E-F/ for part no. 114132E-G
		444787H for part no. 306760A,N/for part no. 3067600A,N

\* ) Maintenance unit consists of pressure regulator valve, filter and optionally with or without lubricator

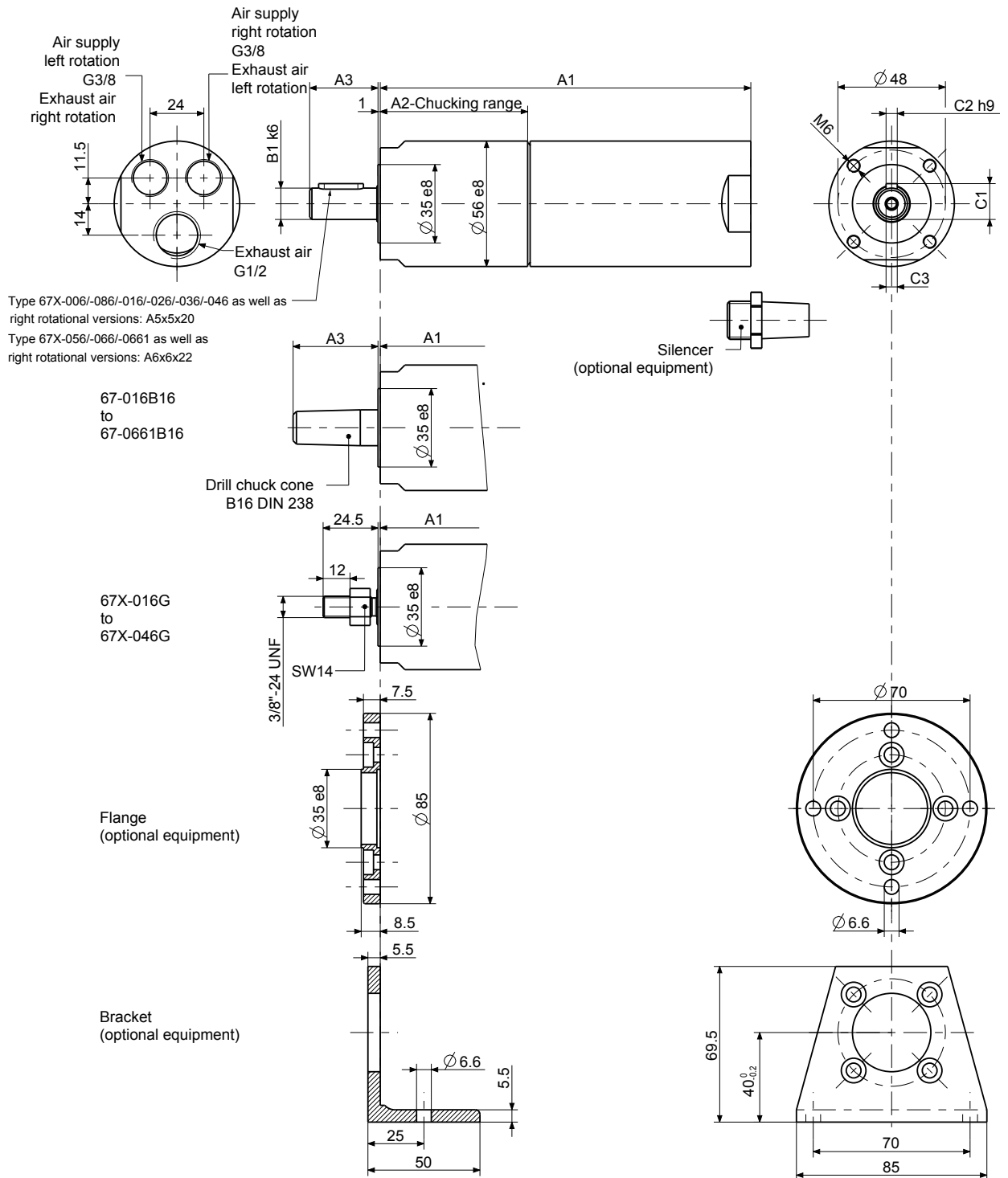
\*\* ) the output will be reduced by approx. 10%

Of course you can also purchase individual replacement parts from us. Please contact us if this is a requirement. Our standard maintenance units are not ATEX conform. Please contact us if this is a requirement

Allowable shaft loading see page 36.

Further notes for soundproofing see page 36/37.

**Motor size 6, Series 67(X)-, reversible and right rotation**




Dimensions in mm


p4402988

Motor size	Series 67(X)- Type				Dimensions of motor (mm)						
	A1	A2	A3	B1	C1	C2	C3				
6	67X-006	67X-016(G)	67X-026(G)	67X-036(G)	165.5	66	30.5	14	16	5	M5x12
	67X-046(G)	67X-086			183.5	84					
	67X-056	67X-066	67X-0661		180	80.5	35	19	21.5	6	M6x12
	67X-006R	67X-016R	67X-026R	67X-036R	165.5	66					
	67X-046R	67X-086R			183.5	84					
	67X-056R	67X-066R			180	80.5	35	19	21.5	6	M6x12
	67-016B16	67-026B16	67-036B16		166	66					
	67-046B16				184	84	37.5	-	-	-	-
67-056B16	67-066B16	67-0661B16		180	80.5	38					

## 900/1100 W ADVANCED LINE AIR MOTOR ATEX conform

Motor size 7		reversible								
Series 67X- ATEX conform	 Type Part no.	67X-007 306770A	67X-087 306770N	67X-017 306770H	67X-027 306770B	67X-037 306770C	67X-047 306770D	67X-057 306770E	67X-067 306770F	
ATEX specification		A	A	D	C	C	A	A	A	
Nominal power	W / HP	900/1.2	900/1.2	900/1.2	900/1.2	900/1.2	900/1.2	900/1.2	900/1.2	
Nominal speed	rpm	6300	2600	1835	1425	950	325	235	155	
Speed (idling)	rpm	12600	5200	3670	2850	1900	650	470	310	
Nominal torque	Nm / in.lbs	1.35/11.95	3.3/29.2	4.6/40.7	6/53.1	9/79.65	26.4/233.6	36.5/323	55.4/490.3	
Start torque min.	Nm / in.lbs	2/17.7	4.9/43.36	7/61.95	9/79.65	13.5/119.5	39.6/350.46	54.8/485	83.1/735.4	
Stall torque	Nm / in.lbs	2.6/23	6.2/54.87	8.9/78.8	11.4/100.89	17.1/151.3	50.2/444.27	69.4/614.19	105.3/931.9	
Air consumption	m <sup>3</sup> /min / cfm	1.4/49.42	1.4/49.42	1.4/49.42	1.4/49.42	1.4/49.42	1.4/49.42	1.4/49.42	1.4/49.42	
Weight	kg / lbs	2.5/5.5	2.9/6.38	2.6/5.72	2.6/5.72	2.6/5.72	2.9/6.38	3/6.6	3/6.6	
Hose I.D., supply air/exhaust air	mm / in.	12 / 1/2	12 / 1/2	12 / 1/2	12 / 1/2	12 / 1/2	12 / 1/2	12 / 1/2	12 / 1/2	

Motor size 7		right rotation								
Series 67X- ATEX conform	 Type Part no.	67X-007R 3067700A	67X-087R 3067700N	67X-017R 3067700H	67X-027R 3067700B	67X-037R 3067700C	67X-047R 3067700D	67X-057R 3067700E	67X-067R 3067700F	
ATEX specification		A	A	D	D	C	C	A	A	
Nominal power	W / HP	1100	1100	1100	1100	1100	1100	1100	1100	
Nominal speed	rpm	6550	2625	1900	1460	970	330	240	155	
Speed (idling)	rpm	13100	5250	3800	2920	1940	660	480	310	
Nominal torque	Nm / in.lbs	1.6/14.2	4/35.4	5.5/48.7	7.2/63.7	10.8/95.6	31.8/281.4	43.8/387.6	67.7/599.1	
Start torque min.	Nm / in.lbs	2.4/21.2	6/53.1	8.3/73.5	10.8/95.6	16.2/143.4	47.7/422.1	65.7/581.4	101.6/899.2	
Stall torque	Nm / in.lbs	3.0/26.55	7.6/67.3	10.5/92.9	13.7/121.2	20.5/181.4	60.5/535.4	83.2/736.3	128.8/1129.9	
Air consumption	m <sup>3</sup> /min / cfm	1.4/49.42	1.4/49.42	1.4/49.42	1.4/49.42	1.4/49.42	1.4/49.42	1.4/49.42	1.4/49.42	
Weight	kg / lbs	2.5/5.5	2.9/6.38	2.6/5.72	2.6/5.72	2.6/5.72	2.9/6.38	3/6.6	3/6.6	
Hose I.D., supply air/exhaust air	mm / in.	12 / 1/2	12 / 1/2	12 / 1/2	12 / 1/2	12 / 1/2	12 / 1/2	12 / 1/2	12 / 1/2	

Performance data relate to an air pressure of 6 bar (85 PSI) and lubricated air. With oil-free operation the output will be reduced by 10 - 20%.

Optional Equipment:	for motor size 7	
<b>Flange</b> incl. mounting screws	Part no.	4446166
<b>Bracket</b> incl. mounting screws	Part no.	4446176
<b>Silencer: motor operates in one direction (right or left rotation)</b>		
1 Hose nozzle	Part no.	410540 (3/8")
1 Silencer	Part no.	129563A (G <sup>3/8</sup> /G <sup>1/2</sup> ) **
<b>Silencer: Motor is reversible (right or left rotation)</b>		
2 Hose nozzles	Part no.	410540 (3/8")
1 Silencer	Part no.	129563B (G <sup>1/2</sup> )
<b>Drill-Chuck</b>		
Range 1 - 13 mm / B 16	Part no.	-
<b>Quick change chuck</b>		
Range 1 - 13 mm / B 16	Part no.	-
<b>Maintenance unit with lubricator*</b>	Part no.	821608A
Connection thread		G 3/4
<b>Maintenance unit without lubricator*</b>	Part no.	826982A
Connection thread		G 3/4
<b>Replacement part set</b> consisting of: vanes, sealant rings, o-rings and silencers	Part no.	444919A / for part no. 306770B-D, H and 3067700B-D, H 444919B / for part no. 306770E-F and 3067700E-F 444919F / for part no. 306770A, N and 3067700A, N

\* Maintenance unit consists of pressure regulator valve, filter and optionally with or without lubricator

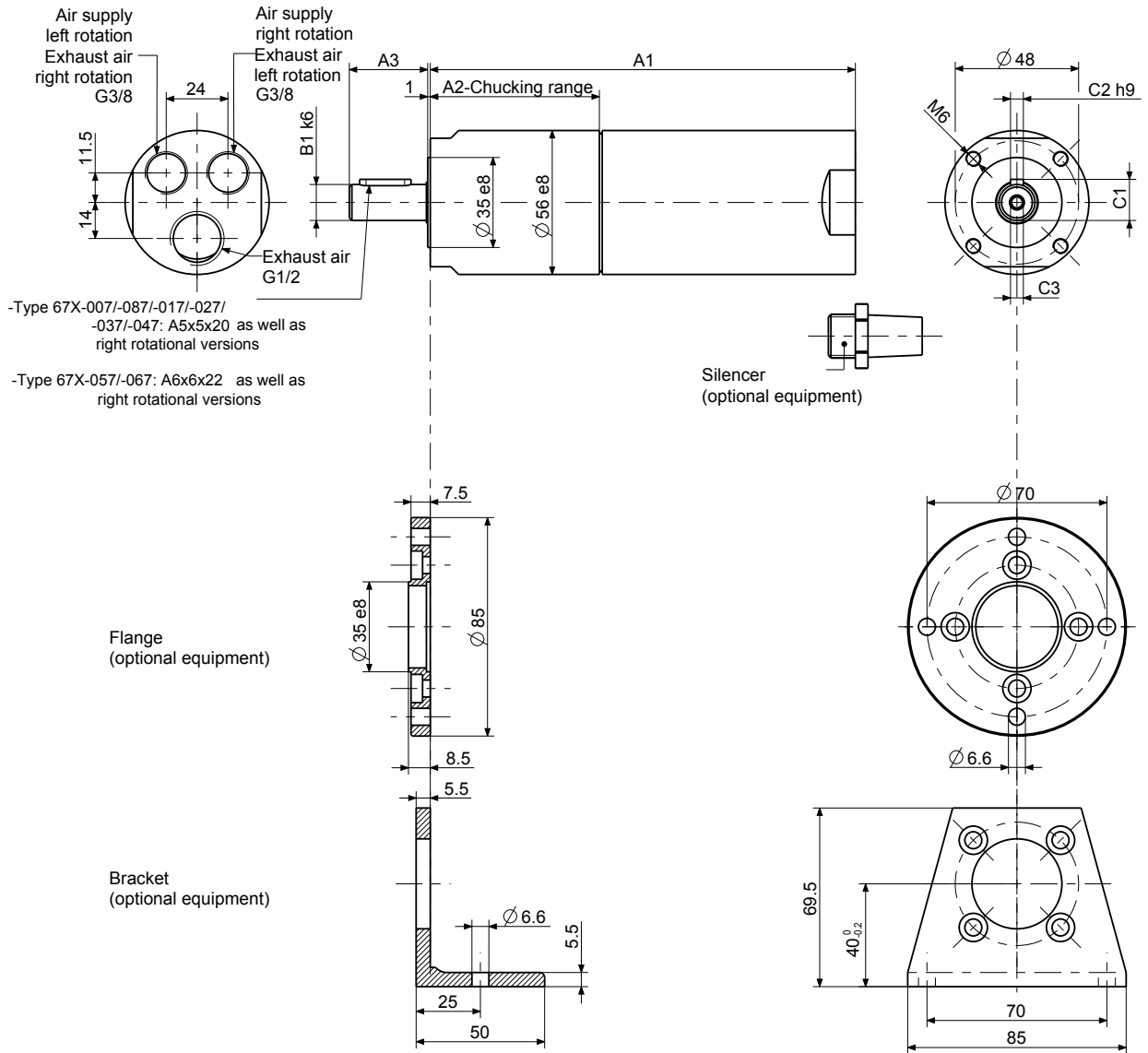
\*\* the output will be reduced by approx. 10%

Of course you can also purchase individual replacement parts from us. Please contact us if this is a requirement. Our standard maintenance units are not ATEX conform. Please contact us if this is a requirement

Allowable shaft loading see page 36.

Further notes for soundproofing see page 36/37.

**Motor size 7, Series 67(X)-**, reversible and right rotation



Dimensions in mm

p4402988

Motor size	Series 67(X)- Type				Dimensions of motor (mm)						
	A1	A2	A3	B1	C1	C2	C3				
7	67X-007(R)	67X-017(R)	67X-027(R)	67X-037(R)	190.5	66	30.5	14	16	5	M5x12
	67X-047(R)	67X-087(R)			208.5	84					
	67X-057(R)	67X-067(R)			205	81	35	19	21.5	6	M6x12

## 600/850 W ADVANCED LINE AIR MOTOR with high torque

Motor size 6 with high torque		reversible			
Series 67X- ATEX conform	Type Part no.	67X-746 306760I	67X-756 306760K	67X-766 306760L	67X-516 306760M
<b>ATEX specification</b>		<b>A</b>			
Nominal power	W / HP	600/0.8	600/0.8	600/0.8	600/0.8
Nominal speed	rpm	85	65	42	24
Speed (idling)	rpm	170	130	84	48
Nominal torque	Nm / in.lbs	67.4/596.5	88.1/779.7	136.4/1207.14	238.7/2112.5
Start torque min.	Nm / in.lbs	101.1/894.7	132.2/1170	204.6/1810.7	358.1/3169.2
Stall torque	Nm / in.lbs	128/1132.8	167.4/1481.49	259.2/2293.9	453.5/4013.5
Air consumption	m <sup>3</sup> /min / cfm	0.85/30	0.85/30	0.85/30	0.85/30
Weight	kg / lbs	3.6/7.92	3.6/7.92	3.6/7.92	4.4/9.68
Hose I.D., supply air/exhaust air	mm / in.	12 / 1/2	12 / 1/2	12 / 1/2	12 / 1/2
Motor size 6 with high torque		right rotation			
Series 67X- ATEX conform	Type Part no.	67X-746R 3067600I	67X-756R 3067600K	67X-766R 3067600L	67X-516R 3067600M
<b>ATEX specification</b>		<b>A</b>			
Nominal power	W / HP	850/1.14	850/1.14	850/1.14	850/1.14
Nominal speed	rpm	95	67	45	25
Speed (idling)	rpm	190	134	90	50
Nominal torque	Nm / in.lbs	85/752.25	120/1062	180/1593	325/2876.25
Start torque min.	Nm / in.lbs	128/1133	180/1593	270/2389.5	487/4310
Stall torque	Nm / in.lbs	162/1433.7	228.5/2022.2	300/2655 <sup>1)</sup>	600/5310 <sup>1)</sup>
Max. admissible torque	Nm / in.lbs	-	-	300/2655	600/5310
Air consumption	m <sup>3</sup> /min / cfm	0.85/30	0.85/30	0.85/30	0.85/30
Weight	kg / lbs	3.6/7.92	3.6/7.92	3.6/7.92	4.4/9.68
Hose I.D., supply air/exhaust air	mm / in.	12 / 1/2	12 / 1/2	12 / 1/2	12 / 1/2

Performance data relate to an air pressure of 6 bar (85 PSI) and lubricated air. With oil-free operation the output will be reduced by 10 - 20%.

<sup>1)</sup> Please take note of the maximum permissible torque for the gear. Please note that these motor gears are not stall-proof. If a higher application-based torque cannot be limited by the customer (e.g. by use of a slip clutch), please contact our application specialists to discuss an alternative solution.

Optional Equipment	for motor size 6	
<b>Flange</b> incl. mounting screws	Part no.	4134632
<b>Bracket</b> incl. mounting screws	Part no.	44461738
<b>Silencer: motor operates in one direction (right or left rotation)</b>		
1 Hose nozzle	Part no.	410540 (3/8")
1 Silencer	Part no.	129563A (G <sup>3/8</sup> /G <sup>1/2</sup> ) **
<b>Silencer: Motor is reversible (right or left rotation)</b>		
2 Hose nozzles	Part no.	410540 (3/8")
1 Silencer	Part no.	129563B (G <sup>1/2</sup> )
<b>Maintenance unit with lubricator*</b>	Part no.	820455A
Connection thread		G 1/2
<b>Maintenance unit without lubricator*</b>	Part no.	822409A
Connection thread		G 1/2
<b>Replacement part set</b> consisting of: vanes, sealant rings, o-rings and silencers	Part no.	444787L for types 67X-746(R) to 67X-766(R) 444787E for type 67X-516(R)

\* ) Maintenance unit consists of pressure regulator valve, filter and optionally with or without lubricator

\*\* ) the output will be reduced by approx. 10%

Of course you can also purchase individual replacement parts from us. Please contact us if this is a requirement. Our standard maintenance units are not ATEX conform. Please contact us if this is a requirement

Allowable shaft loading see page 36.

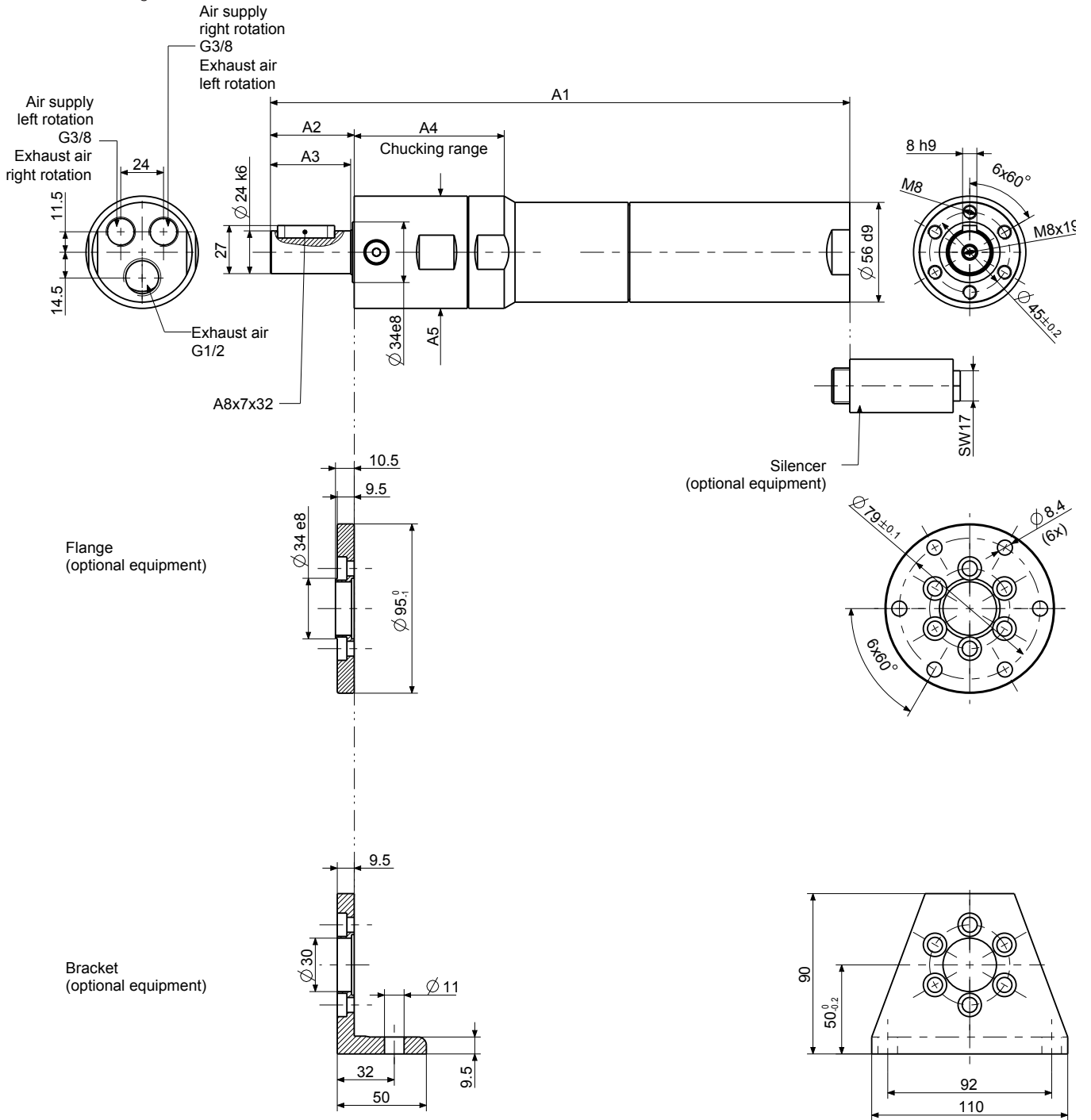
Further notes for soundproofing see page 36/37.



**Motor size 6 High torque stainless steel motors**

**Series 67X-**

reversible and right rotation



Dimensions in mm

p444338

Motor size	Series 67X-			Dimensions of motor (mm)				
	Type			A1	A2	A3	A4	A5
6	67X-746(R)	67X-756(R)	67X-766(R)	286.4	47	45	61	56e8
	67X-516(R)			300	47	45	84.2	63h8

## 900/1100 W ADVANCED LINE AIR MOTOR with high torque

Motor size 7 with high torque		reversible			
Series 67X-ATEX conform	Type Part no.	67X-747 306770I	67X-757 306770K	67X-767 306770L	67X-517 306770M
<b>ATEX specification</b>		<b>A</b>			
Nominal power	W / HP	900/1.2	900/1.2	900/1.2	900/1.2
Nominal speed	rpm	80	60	40	22
Speed (idling)	rpm	160	120	80	44
Nominal torque	Nm / in.lbs	107.4/950.5	143.2/1267.32	214.8/1901	390.6/3456.81
Start torque min.	Nm / in.lbs	161.1/1425.7	214.8/1901	300/2655 <sup>1)</sup>	585.9/5185.2
Stall torque	Nm / in.lbs	204.1/1806.3	272.1/2408.1	300/2655 <sup>1)</sup>	600/5310 <sup>1)</sup>
Max. admissible torque	Nm / in.lbs	-	-	300/2655	600/5310
Air consumption	m <sup>3</sup> /min / cfm	1.4/49.42	1.4/49.42	1.4/49.42	1.4/49.42
Weight	kg / lbs	3.8/8.36	3.9/8.58	3.9/8.58	4.7/10.34
Hose I.D., supply air/exhaust air	mm / in.	12 / 1/2	12 / 1/2	12 / 1/2	12 / 1/2

Motor size 7 with high torque		right rotation			
Series 67X-ATEX conform	Type Part no.	67X-747R 3067700I	67X-757R 3067700K	67X-767R 3067700L	67X-517R 3067700M
<b>ATEX specification</b>		<b>A</b>			
Nominal power	W / HP	1100/1.5	1100/1.5	1100/1.5	1100/1.5
Nominal speed	rpm	80	60	40	22
Speed (idling)	rpm	160	120	80	44
Nominal torque	Nm / in.lbs	131/1159.35	175/1548.75	262.6/2324	477/4221.45
Start torque min.	Nm / in.lbs	197/1743.45	262.6/2324	300/2655 <sup>1)</sup>	600/5310 <sup>1)</sup>
Stall torque	Nm / in.lbs	249.5/2208	300/2655 <sup>1)</sup>	300/2655 <sup>1)</sup>	600/5310 <sup>1)</sup>
Max. admissible torque	Nm / in.lbs	-	300/2655	300/2655	600/5310
Air consumption	m <sup>3</sup> /min / cfm	1.4/49.42	1.4/49.42	1.4/49.42	1.4/49.42
Weight	kg / lbs	3.8/8.36	3.9/8.58	3.9/8.58	4.7/10.34
Hose I.D., supply air/exhaust air	mm / in.	12 / 1/2	12 / 1/2	12 / 1/2	12 / 1/2

Performance data relate to an air pressure of 6 bar (85 PSI) and lubricated air. With oil-free operation the output will be reduced by 10 - 20%.

<sup>1)</sup> Please take note of the maximum permissible torque for the gear. Please note that these motor gears are not stall-proof. If a higher application-based torque cannot be limited by the customer (e.g. by use of a slip clutch), please contact our application specialists to discuss an alternative solution.

Optional Equipment	for motor size 7	
<b>Flange</b> incl. mounting screws	Part no.	4134632
<b>Bracket</b> incl. mounting screws	Part no.	44461738
<b>Silencer: motor operates in one direction (right or left rotation)</b>		
1 Hose nozzle	Part no.	410540 (3/8")
1 Silencer	Part no.	129563A (G <sup>3/8</sup> /G <sup>1/2</sup> ) **
<b>Silencer: Motor is reversible (right or left rotation)</b>		
2 Hose nozzles	Part no.	410540 (3/8")
1 Silencer	Part no.	129563B (G <sup>1/2</sup> )
<b>Maintenance unit with lubricator*</b>	Part no.	821608A
Connection thread		G 3/4
<b>Maintenance unit without lubricator*</b>	Part no.	826982A
Connection thread		G 3/4
<b>Replacement part set</b> consisting of: vanes, sealant rings, o-rings and silencers	Part no.	444787M for types 67X-747(R) to 67X-767(R) 444919D for type 67X-517(R)

\* Maintenance unit consists of pressure regulator valve, filter and optionally with or without lubricator

\*\* the output will be reduced by approx. 10%

Of course you can also purchase individual replacement parts from us. Please contact us if this is a requirement. Our standard maintenance units are not ATEX conform. Please contact us if this is a requirement

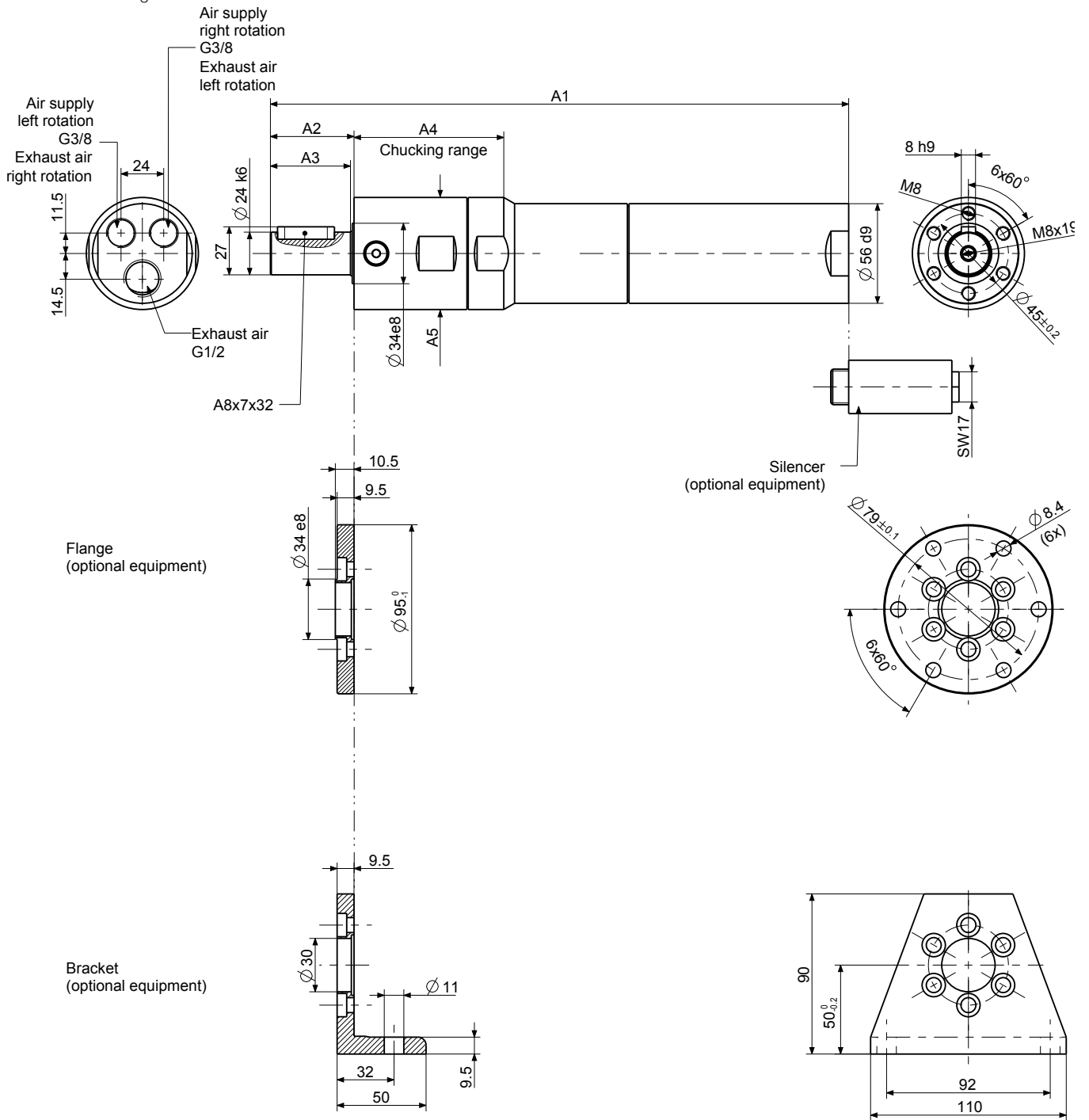
Allowable shaft loading see page 36.

Further notes for soundproofing see page 36/37.

### Motor size 7 High torque stainless steel motors

#### Series 67X-

reversible and right rotation





Dimensions in mm

p444338

Motor size	Series 67X- Type			Dimensions of motor (mm)				
				A1	A2	A3	A4	A5
7	67X-747	67X-757	67X-767	311.5	47	45	61	56e8
	67X-517			325	47	45	84.2	63h8

## 300/600/900 W ADVANCED LINE HIGH TORQUE AIR MOTOR with integrated holding brake

Motor size 6 with holding brake		reversible									
<b>Series 67X-</b> ATEX conform		<b>Type</b> Part no.	<b>67X-006B</b> 1027501A	<b>67X-086B</b> 1027501N	<b>67X-016B</b> 1027501H	<b>67X-026B</b> 1027501B	<b>67X-036B</b> 1027501C	<b>67X-046B</b> 1027501D	<b>67X-056B</b> 1027501E	<b>67X-066B</b> 1027501F	<b>67X-0661B</b> 1027501G
<b>ATEX specification</b>			<b>A</b>	<b>A</b>	<b>D</b>	<b>C</b>	<b>C</b>	<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>
<b>Series 67-</b> without ATEX authorization		<b>Type</b> Part no.	<b>67-006B-1</b> 102750A	<b>67-086B-1</b> 102750N	<b>67-016B-1</b> 102750H	<b>67-026B-1</b> 102750B	<b>67-036B-1</b> 102750C	<b>67-046B-1</b> 102750D	<b>67-056B-1</b> 102750E	<b>67-066B-1</b> 102750F	<b>67-0661B-1</b> 102750G
Nominal power	W / HP		600/0.8	600/0.8	600/0.8	600/0.8	600/0.8	600/0.8	600/0.8	600/0.8	300/0.4
Nominal speed	rpm		6750	2750	2000	1500	1000	350	250	170	90
Speed (idling)	rpm		13500	5500	4000	3000	2000	700	500	340	180
Nominal torque	Nm / in.lbs		0.85/7.5	2.0/17.7	2.8/24.78	3.8/33.63	5.7/50.4	16.3/144.3	22.9/202.7	33.7/298.3	31.8/281.4
Start torque min.	Nm / in.lbs		1.25/11.06	3.1/27.4	4.3/38.06	5.7/50.4	8.5/75.2	24.5/216.8	34.3/303.6	50.6/447.8	47.7/422.15
Stall torque	Nm / in.lbs		1.6/14.16	3.9/34.5	5.4/47.8	7.2/63.7	10.8/95.6	31.1/275.2	43.5/385	64/566.4	60.4/534.54
Brake torque	Nm / in.lbs		3/26.55	7.3/64.6	10.3/91.15	13.2/116.8	20/177	58/513.3	79.2/700.9	120/1062	108/955.8
Air consumption	m <sup>3</sup> /min/cfm		0.85/30	0.85/30	0.85/30	0.85/30	0.85/30	0.85/30	0.85/30	0.85/30	0.55/30
Weight	kg / lbs		3.35/7.37	3.35/7.37	3.45/7.59	3.45/7.59	3.45/7.59	3.75/8.25	3.75/8.25	3.75/8.25	3.75/8.25
Hose I.D., supply air/exhaust air	mm / in.		12 / 1/2	12 / 1/2	12 / 1/2	12 / 1/2	12 / 1/2	12 / 1/2	12 / 1/2	12 / 1/2	12 / 1/2
Motor size 7 with holding brake		reversible									
<b>Series 67X-</b> ATEX conform		<b>Type</b> Part no.	<b>67X-007B</b> 1030051A	<b>67X-087B</b> 1030051N	<b>67X-017B</b> 1030051H	<b>67X-027B</b> 1030051B	<b>67X-037B</b> 1030051C	<b>67X-047B</b> 1030051D	<b>67X-057B</b> 1030051E	<b>67X-067B</b> 1030051F	
<b>ATEX specification</b>			<b>A</b>	<b>A</b>	<b>D</b>	<b>C</b>	<b>C</b>	<b>A</b>	<b>A</b>	<b>A</b>	
<b>Series 67-</b> without ATEX authorization		<b>Type</b> Part no.	<b>67-007B-1</b> 103005A	<b>67-087B-1</b> 103005N	<b>67-017B-1</b> 103005H	<b>67-027B-1</b> 103005B	<b>67-037B-1</b> 103005C	<b>67-047B-1</b> 103005D	<b>67-057B-1</b> 103005E	<b>67-067B-1</b> 103005F	
Nominal power	W / HP		900/1.2	900/1.2	900/1.2	900/1.2	900/1.2	900/1.2	900/1.2	900/1.2	
Nominal speed	rpm		6300	2600	1835	1425	950	325	235	155	
Speed (idling)	rpm		12600	5200	3670	2850	1900	650	470	310	
Nominal torque	Nm / in.lbs		1.35/11.95	3.3/29.2	4.6/40.7	6.0/53.1	9.0/79.65	26.4/233.6	36.5/322.14	55.4/490.3	
Start torque min.	Nm / in.lbs		2.0/17.7	4.9/43.4	7.0/62	9.0/79.65	13.5/119.5	39.6/350.5	54.8/485	83.1/735.44	
Stall torque	Nm / in.lbs		2.6/23	6.2/54.9	8.9/78.8	11.4/101	17.1/151.3	50.2/444.3	69.4/614.2	105.3/931.9	
Brake torque	Nm / in.lbs		3/26.55	7.3/64.6	10.3/91.2	13.2/116.8	20/177	58/513.3	79.2/700.9	120/1062	
Air consumption	m <sup>3</sup> /min/cfm		1.4/49.4	1.4/49.4	1.4/49.4	1.4/49.4	1.4/49.4	1.4/49.4	1.4/49.4	1.4/49.4	
Weight	kg / lbs		3.55/7.8	3.55/7.8	3.65/8	3.65/8	3.65/8	3.95/8.7	3.95/8.7	3.95/8.7	
Hose I.D., supply air/exhaust air	mm / in.		12 / 1/2	12 / 1/2	12 / 1/2	12 / 1/2	12 / 1/2	12 / 1/2	12 / 1/2	12 / 1/2	

Performance data relate to an air pressure of 6 bar (85 PSI) and lubricated air. With oil-free operation the output will be reduced by 10 - 20%.

\*\* the output will be reduced by approx. 10%

Optional Equipment		for motor size 6	for motor size 7
<b>Flange</b> incl. mounting screws	Part no.	4446166	4446166
<b>Bracket</b> incl. mounting screws	Part no.	4446176	4446176
<b>Silencer: motor operates in one direction (right or left rotation)</b>			
1 Hose nozzle	Part no.		410540 (G <sup>3/8</sup> )
1 Silencer	Part no.		129563A (G <sup>3/8</sup> /G <sup>1/2</sup> ) **
<b>Silencer: Motor is reversible (right or left rotation)</b>			
2 Hose nozzles	Part no.		410540 (G <sup>3/8</sup> )
1 Silencer	Part no.		129563B (G <sup>1/2</sup> )
<b>Maintenance unit with lubricator*</b>			
Connection thread	Part no.	820455A G 1/2	821608A G 3/4
<b>Maintenance unit without lubricator*</b>			
Connection thread	Part no.	822409A G 1/2	826982A G 3/4
<b>Replacement part set</b> consisting of: vanes, sealant rings, o-rings and silencers	Part no.	444787A for part no. 102750(1)B-D 444787B for part no. 102750(1)E-F 444787H for part no. 102750(1)A, N	444919A for part no. 103005(1)B-D 444919B for part no. 103005(1)E-G 444919F for part no. 103005(1)A, N
<b>Replacement part set for brake</b> consisting of: discs, pressure spring, o-rings and silencer	Part no.	444787G	444787G

\* Maintenance unit consists of pressure regulator valve, filter and optionally with or without lubricator

\*\* the output will be reduced by approx. 10%

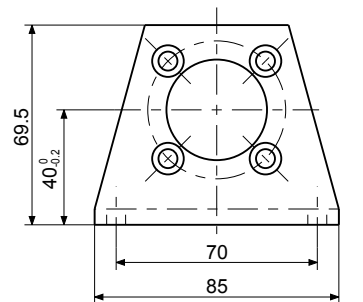
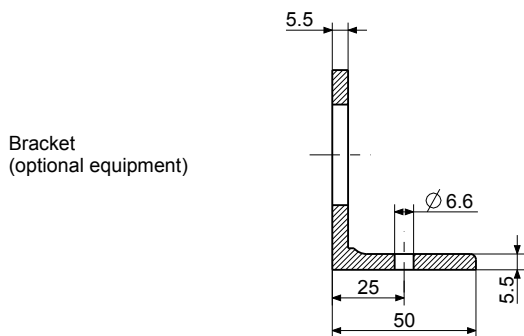
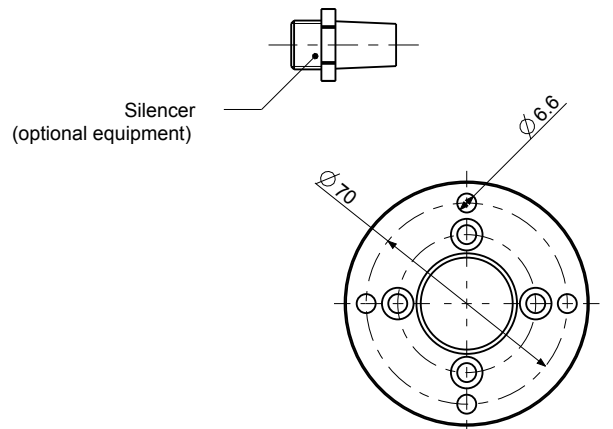
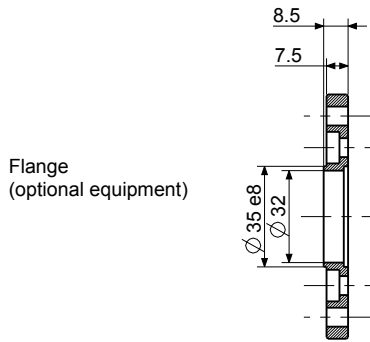
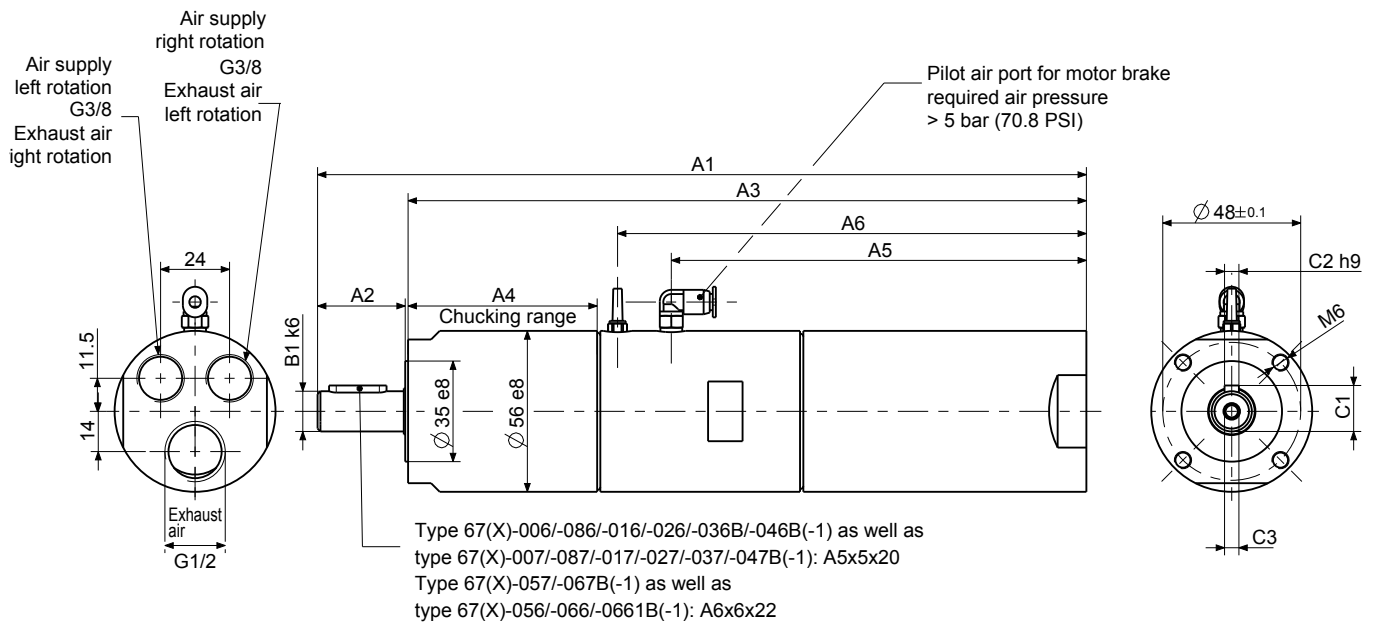
Of course you can also purchase individual replacement parts from us. Our standard maintenance units are not ATEX conform. Please contact us if this is a requirement.

Allowable shaft loading see page 36.

Further notes for soundproofing see page 36/37.

Notes to the pressure regulator valve for our ATEX conform brake motors, please find on page 38.

**Motor size 6 and Motor size 7 with holding brake, Series 67(X)-, reversible**



Dimensions in mm

p110531

Motor size	Series 67(X)-				Dimensions (mm)									
	Type				A1	A2	A3	A4	A5	A6	B1	C1	C2	C3
6	67(X)-006B(-1)	67(X)-016B(-1)	67(X)-026B(-1)	67(X)-036B(-1)	267.5	30	236.1	65.8	144.5	163.2	14	16	5	M5x12
	67(X)-046B(-1)	67(X)-086B(-1)			285.6	30	254.1	83.8	144.5	163.2	14	16	5	M5x12
	67(X)-056B(-1)	67(X)-066B(-1)	67(X)-0661B(-1)		287.6	35	250.5	80.4			19	21.5	6	M6x12
7	67(X)-007B(-1)	67(X)-017B(-1)	67(X)-027B(-1)	67(X)-037B(-1)	292.6	30	261.1	65.8	169.5	188.1	14	16	5	M5x12
	67(X)-047B(-1)	67(X)-087B(-1)			310.6	30	279.1	83.8	169.5	188.1	14	16	5	M5x12
	67(X)-057B(-1)	67(X)-067B(-1)			312.6	35	275.5	80.4			19	21.5	6	M6x12

## 600/900 W ADVANCED LINE HIGH TORQUE AIR MOTOR with integrated holding brake

		Motor size 6 with holding brake reversible				Motor size 7 with holding brake reversible			
Series 67X-ATEX conform	Type Part no.	67X-746B 1027501P	67X-756B 1027501R	67X-766B 1027501S	67X-516B 1027501M	67X-747B 1030051P	67X-757B 1030051R	67X-767B 1030051S	67X-517B 1030051M
<b>ATEX specification</b>		<b>A</b>				<b>A</b>			
Series 67- without ATEX authorization	Type Part no.	67-746B-1 102750P	67-756B-1 102750R	67-766B-1 102750S	67-516B-1 102750M	67-747B-1 103005P	67-757B-1 103005R	67-767B-1 103005S	67-517B-1 103005M
Nominal power	W / HP	600/0.8	600/0.8	600/0.8	600/0.8	900/1.2	900/1.2	900/1.2	900/1.2
Nominal speed	rpm	85	65	42	24	80	60	40	22
Speed (idling)	rpm	170	130	84	48	160	120	80	44
Nominal torque	Nm / in.lbs	67.4/596.5	88.1/779.7	136.4/1207.1	238.7/2112.5	107.4/950.5	143.2/1267.3	214.8/1901	390.6/3456.8
Start torque min.	Nm / in.lbs	101.1/894.7	132.2/1170	204.6/1810.7	358.1/3169.2	161.1/1425.7	214.8/1901	300/2655 <sup>1)</sup>	585.9/5185.2
Stall torque	Nm / in.lbs	128/1132.8	167.4/1481.5	259.2/2293.9	453.5/4013.5	204.1/1806.3	272.1/2408.1	300/2655 <sup>1)</sup>	600/5310 <sup>1)</sup>
Max. admissible torque	Nm / in.lbs	-	300/2655	300/2655	600/5310	-	300/2655	300/2655	600/5310
Brake torque	Nm / in.lbs	232/2053.2	-	-	-	232/2053.2	-	-	-
Air consumption	m <sup>3</sup> /min/cfm	0.85/30	0.85/30	0.85/30	0.85/30	1.4/49.42	1.4/49.42	1.4/49.42	1.4/49.42
Weight	kg / lbs	4.6/10.12	4.6/10.12	4.6/10.12	5.4/11.88	4.8/10.56	4.8/10.56	4.8/10.56	5.6/12.32
Hose I.D. supply air/exhaust air	mm / in.	12 / 1/2	12 / 1/2	12 / 1/2	12 / 1/2	12 / 1/2	12 / 1/2	12 / 1/2	12 / 1/2

Performance data relate to an air pressure of 6 bar (85 PSI) and lubricated air. With oil-free operation the output will be reduced by 10 - 20%.

<sup>1)</sup> Please take note of the maximum permissible torque for the gear. Please note that these motor gears are not stall-proof. If a higher application-based torque cannot be limited by the customer (e.g. by use of a slip clutch), please contact our application specialists to discuss an alternative solution.

Optional Equipment		for motor size 6 and 7	
Flange incl. mounting screws	Part no.	4134632	
Bracket incl. mounting screws	Part no.	44461738	
<b>Silencer: motor operates in one direction (right or left rotation)</b>			
1 Hose nozzle	Part no.	410540 (G <sup>3/8</sup> )	
1 Silencer	Part no.	129563A (G <sup>3/8</sup> /G <sup>1/2</sup> ) **)	
<b>Silencer: Motor is reversible (right or left rotation)</b>			
2 Hose nozzles	Part no.	410540 (G <sup>3/8</sup> )	
1 Silencer	Part no.	129563B (G <sup>1/2</sup> )	
Optional Equipment		for motor size 6	for motor size 7
<b>Maintenance unit with lubricator*</b>	Part no.	820455A	821608A
Connection thread		G 1/2	G 3/4
<b>Maintenance unit without lubricator*</b>	Part no.	822409A	826982A
Connection thread		G 1/2	G 3/4
<b>Replacement part set</b> consisting of: vanes, sealant rings, o-rings and silencers	Part no.	444787D for types 67(X)-746B(-1) to .-766B(-1)	444919C for types 67(X)-747B(-1) to .-767B(-1)
<b>Replacement part set for brake</b> consisting of: discs, pressure spring and o-rings	Part no.	444787E for type 67(X)-516B(-1)	444787E for type 67(X)-517B(-1)
	Part no.	444787G	444787G

\*) Maintenance unit consists of pressure regulator valve, filter and optionally with or without lubricator

\*\*)) the output will be reduced by approx. 10%

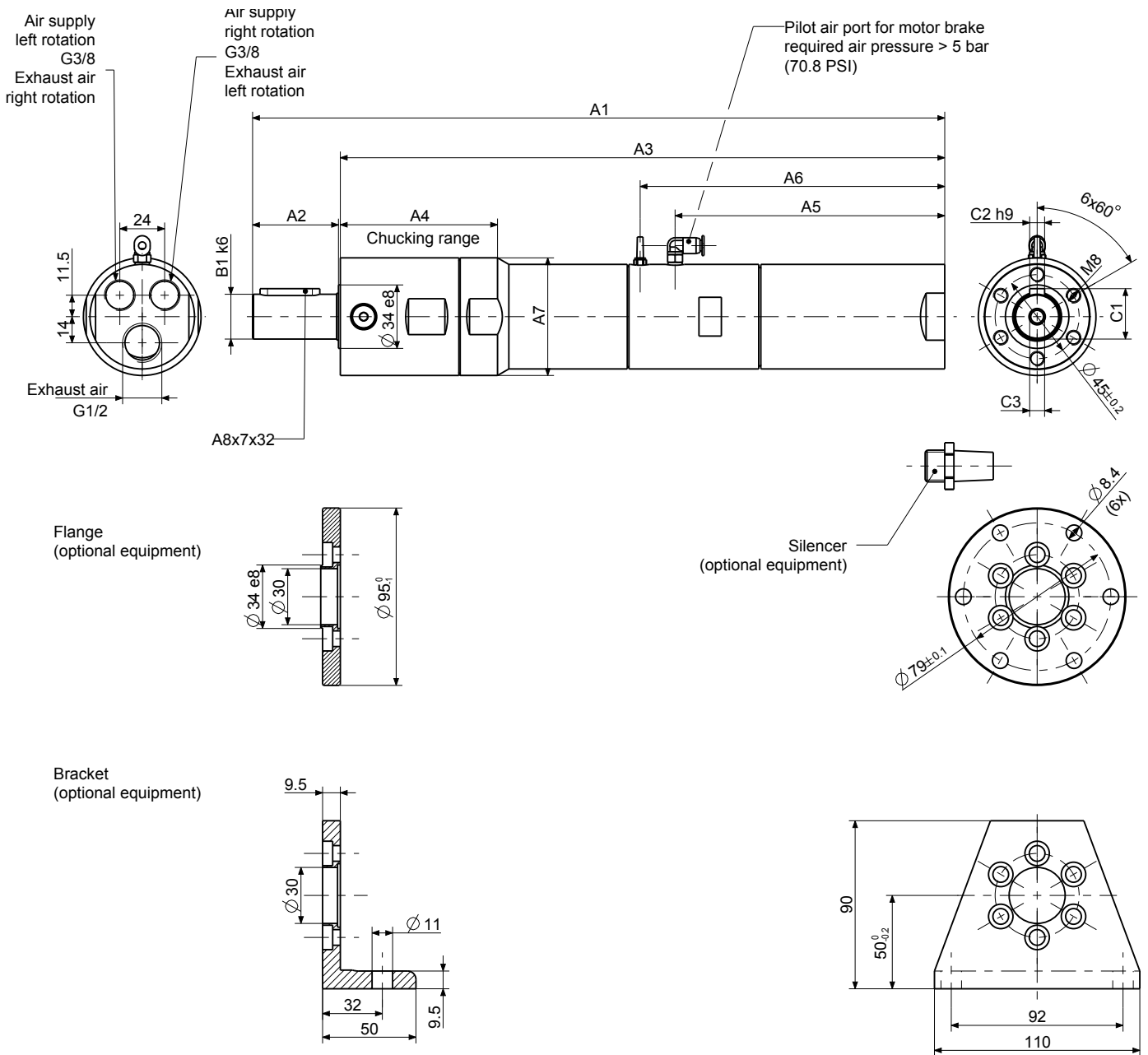
Of course you can also purchase individual replacement parts from us. Our standard maintenance units are not ATEX conform. Please contact us if this is a requirement.

Allowable shaft loading see page 36.

Further notes for soundproofing see page 36/37.

Notes to the pressure regulator valve for our ATEX conform brake motors, please find on page 38.

**Motor size 6 and Motor size 7 with holding brake, Series 67(X)-, reversible**




Dimensions in mm


p110532

Motor size	Series 67(X)- Type			Dimensions (mm)										
				A1	A2	A3	A4	A5	A6	A7	B1	C1	C2	C3
6	67(X)-746B(-1)	67(X)-756B(-1)	67(X)-766B(-1)	357	45	310	139.6	144.5	163.2	56e8	24	27	8	M8x12
	67(X)-516B(-1)			370.8	45	323.8	84.2			63h8				

Motor size	Series 67(X)- Type			Dimensions (mm)										
				A1	A2	A3	A4	A5	A6	A7	B1	C1	C2	C3
7	67(X)-747B(-1)	67(X)-757B(-1)	67(X)-767B(-1)	382.1	45	335.1	140	169.5	188.2	56e8	24	27	8	M8x12
	67(X)-517B(-1)			395.8	45	348.8	84.2			63h8				

## 700/1600/2200 W ADVANCED LINE AIR MOTOR

Motor size 8		reversible						
Series 67X-ATEX conform	Type Part no.	67X-008	67X-028	67X-038	67X-048	67X-058	67X-0581	67X-068
		306780A	306780B	306780C	306780D	306780E	306780F	306780G
ATEX specification		A	D	C	C	C	A	A
Nominal power	W / HP	1600/2.14	1600/2.14	1600/2.14	1600/2.14	1600/2.14	700/0.9	1600/2.14
Nominal speed	rpm	4800	1250	600	350	1600	100	80
Speed (idling)	rpm	9600	2500	1200	700	320	200	160
Nominal torque	Nm / in.lbs	3.1/27.4	12.2/108	25.4/224.8	43.6/385.86	95.4/844.3	66.9/592.1	191/1690
Start torque min.	Nm / in.lbs	4.7/41.6	18.3/161.95	38.2/338.07	65.4/578.79	143.2/1267.32	100/885	220/1947 <sup>1)</sup>
Stall torque	Nm / in.lbs	6.05/53.54	23.2/205.32	48.3/427.45	82.9/733.66	181.4/1605.39	125/1106.25	220/1947 <sup>1)</sup>
Max. admissible torque	Nm / in.lbs	-	-	-	-	-	-	220/1947
Air consumption	m <sup>3</sup> /min / cfm	1.6/56.48	1.6/56.48	1.6/56.48	1.6/56.48	1.6/56.48	1.1/38.83	1.6/56.48
Weight	kg / lbs	5.9/12.98	6.1/13.42	6.1/13.42	6.7/14.74	6.7/14.74	6.7/14.74	8/17.6
Hose I.D., supply air/exhaust air	mm / in.	19 / 3/4	19 / 3/4	19 / 3/4	19 / 3/4	19 / 3/4	19 / 3/4	19 / 3/4

Motor size 8		right rotation				
Series 67X-ATEX conform	Type Part no.	67X-008R	67X-028R	67X-038R	67X-048R	67X-058R
		3067800A	3067800B	3067800C	3067800D	3067800E
ATEX specification		A	D	C	C	C
Nominal power	W / HP	2200/2.95	2200/2.95	2200/2.95	2200/2.95	2200/2.95
Nominal speed	rpm	5000	1350	610	350	150
Speed (idling)	rpm	10000	2700	1220	700	300
Nominal torque	Nm / in.lbs	4.2/37.17	15.5/137.18	33.6/297.36	62/548.7	138.6/1226.61
Start torque min.	Nm / in.lbs	6.3/55.76	23.3/206.21	50.4/446.04	93.2/824.82	207.9/1839.92
Stall torque	Nm / in.lbs	8/70.8	29.5/261.08	63.8/464.63	118/1044.3	220/1947 <sup>1)</sup>
Max. admissible torque	Nm / in.lbs	-	-	-	-	220/1947
Air consumption	m <sup>3</sup> /min / cfm	2.1/74.13	2.1/74.13	2.1/74.13	2.1/74.13	2.1/74.13
Weight	kg / lbs	5.9/12.98	6.1/13.42	6.1/13.42	6.7/14.74	6.7/14.74
Hose I.D., supply air/exhaust air	mm / in.	19 / 3/4	19 / 3/4	19 / 3/4	19 / 3/4	19 / 3/4

Performance data relate to an air pressure of 6 bar (85 PSI) and lubricated air. With oil-free operation the output will be reduced by 10 - 20%.

<sup>1)</sup> Please take note of the maximum permissible torque for the gear. Please note that these motor gears are not stall-proof. If a higher application-based torque cannot be limited by the customer (e.g. by use of a slip clutch), please contact our application specialists to discuss an alternative solution.

Optional Equipment	for motor size 8	
<b>Flange</b> incl. mounting screws	Part no.	4446272
<b>Bracket</b> incl. mounting screws	Part no.	4446285
<b>Silencer: motor operates in one direction (right or left rotation)</b>		
1 Hose nozzle	Part no.	410545 (G <sup>1/2</sup> )
1 Silencer	Part no.	129610A (G <sup>1/2</sup> /G <sup>3/4</sup> )
<b>Silencer: motor is reversible (right or left rotation)</b>		
2 Hose nozzles	Part no.	410545 (G <sup>1/2</sup> )
1 Silencer	Part no.	129610B (G <sup>3/4</sup> )
<b>Maintenance unit with lubricator*</b>		
Connection thread	Part no.	821608 A G 3/4
<b>Maintenance unit without lubricator*</b>		
Connection thread	Part no.	826982 A G 3/4
<b>Replacement part set</b> consisting of:		
vanes, sealant rings, o-rings and silencers	Part no.	444788A for part no. 306780(O)B-C 444788B for part no. 306780(O)D-G 444788E for part no. 306780(O)A

\*) Maintenance unit consists of pressure regulator valve, filter and optionally with or without lubricator

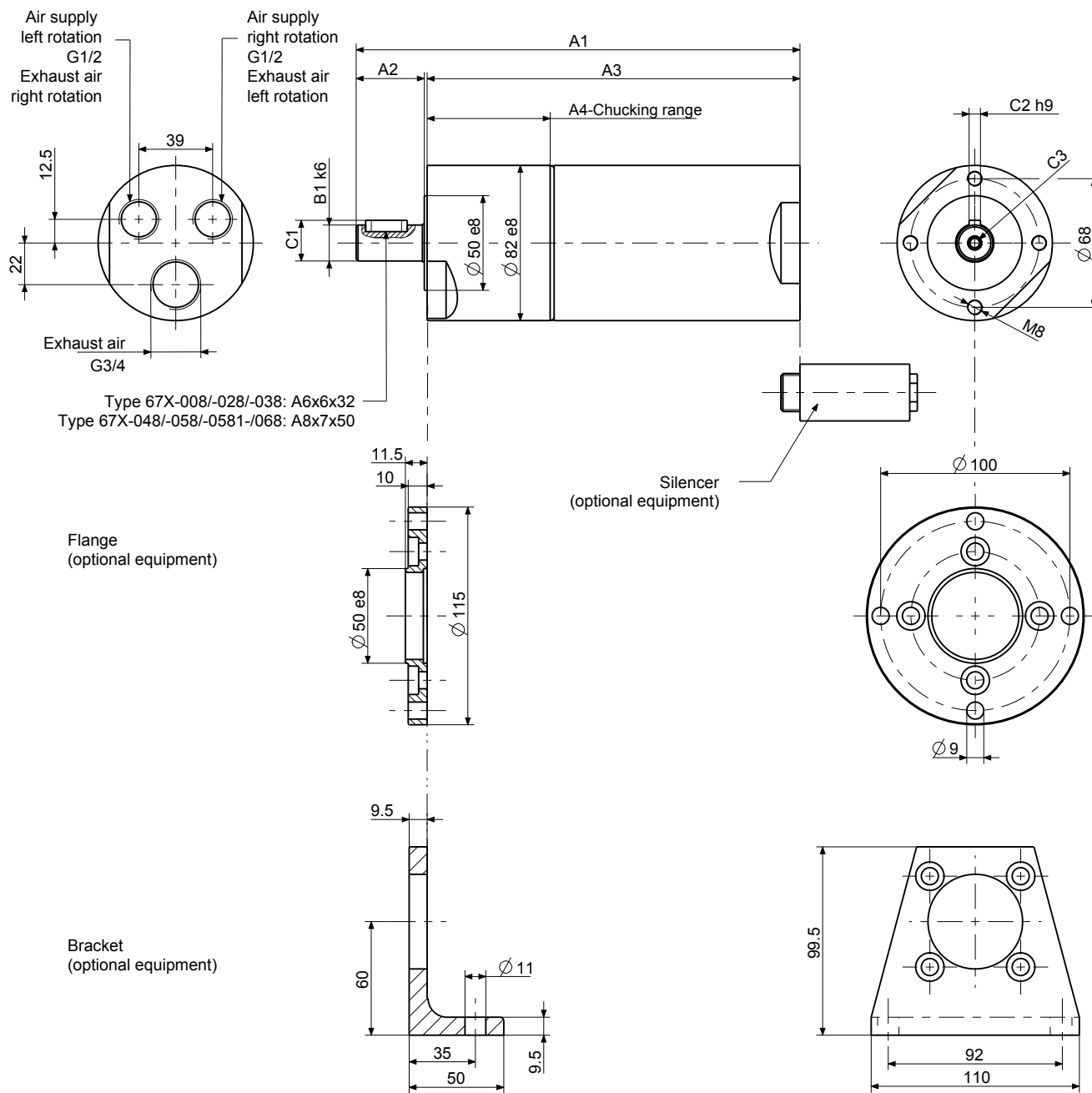
Of course you can also purchase individual replacement parts from us. Please contact us if this is a requirement. Our standard maintenance units are not ATEX conform. Please contact us if this is a requirement

Allowable shaft loading see page 36.

Further notes for soundproofing see page 36/37.



**Motor size 8**  
**Series 67X-**  
 reversible, right rotation




Type 67X-008/-028/-038: A6x6x32  
 Type 67X-048/-058/-0581/-068: A8x7x50

Dimensions in mm

p440236

Motor size	Series 67X-			Dimensions of motor (mm)							
	Type			A1	A2	A3	A4	B1	C1	C2	C3
8	67X-008(R)	67X-028(R)	67X-038(R)	235	35	197	65	19	21.5	6	M6x15
	67X-048(R)	67X-058(R)	67X-0581	268	60	205	73	28	31	8	M10x20
	67X-068			311.5	61.5	248.5	116.5				

## 700/1600 W ADVANCED LINE AIR MOTOR with integrated holding brake

Motor size 8 with holding brake		reversible						
<b>Series 67X-</b> ATEX conform	 <b>Type</b> Part no.	<b>67X-008B</b> 1031811A	<b>67X-028B</b> 1031811B	<b>67X-038B</b> 1031811C	<b>67X-048B</b> 1031811D	<b>67X-058B</b> 1031811E	<b>67X-0581B</b> 1031811F	<b>67X-068B</b> 1031811G
<b>ATEX specification</b>		<b>A</b>	<b>D</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>A</b>	<b>A</b>
<b>Series 67-</b> without ATEX-authorization	<b>Type</b> Part no.	<b>67-008B-1</b> 103181A	<b>67-028B-1</b> 103181B	<b>67-038B-1</b> 103181C	<b>67-048B-1</b> 103181D	<b>67-058B-1</b> 103181E	<b>67-0581B-1</b> 103181F	<b>67-068B-1</b> 103181G
Nominal power	W / HP	1600/2.14	1600/2.14	1600/2.14	1600/2.14	1600/2.14	700/0.9	1600/2.14
Nominal speed	rpm	4800	1250	600	350	160	100	80
Speed (idling)	rpm	9600	2500	1200	700	320	200	160
Nominal torque	Nm / in.lbs	3.1/27.4	12.2/108	25.4/224.8	43.6/385.86	95.4/844.3	66.9/592.1	191/1690
Start torque min.	Nm / in.lbs	4.7/41.6	18.3/161.95	38.2/338.07	65.4/578.79	143.2/1267.32	100/885	220/1947 <sup>1)</sup>
Stall torque	Nm / in.lbs	6.05/53.54	23.2/205.32	48.3/427.45	82.9/733.66	181.4/1605.39	125/1106.25	220/1947 <sup>1)</sup>
Brake torque	Nm / in.lbs	8.2	30.6	66.1	121.8	220/1947 <sup>1)</sup>	152	220/1947 <sup>1)</sup>
Max. admissible torque	Nm / in.lbs	-	-	-	-	220/1947	-	220/1947
Air consumption	m <sup>3</sup> /min / cfm	1.6/56.48	1.6/56.48	1.6/56.48	1.6/56.48	1.6/56.48	1.1/38.83	1.6/56.48
Weight	kg / lbs	9/19.8	9.2/20.24	9.2/20.24	9.7/21.34	9.7/21.34	9.7/21.34	9.1/20.02
Hose I.D., supply air/exhaust air	mm / in.	19 / 3/4	19 / 3/4	19 / 3/4	19 / 3/4	19 / 3/4	19 / 3/4	19 / 3/4

Performance data relate to an air pressure of 6 bar (85 PSI) and lubricated air. With oil-free operation the output will be reduced by 10 - 20%.

<sup>1)</sup> Please take note of the maximum permissible torque for the gear. Please note that these motor gears are not stall-proof. If a higher application-based torque cannot be limited by the customer (e.g. by use of a slip clutch), please contact our application specialists to discuss an alternative solution.

Optional Equipment		for motor size 8	
<b>Flange</b> incl. mounting screws	Part no.		4446272
<b>Bracket</b> incl. mounting screws	Part no.		4446285
<b>Silencer: motor operates in one direction (right or left rotation)</b>			
1 Hose nozzle	Part no.		410545 (G <sup>1/2</sup> )
1 Silencer	Part no.		129610A (G <sup>1/2</sup> /G <sup>3/4</sup> )
<b>Silencer: motor is reversible (right or left rotation)</b>			
2 Hose nozzles	Part no.		410545 (G <sup>1/2</sup> )
1 Silencer	Part no.		129610B (G <sup>3/4</sup> )
<b>Maintenance unit with lubricator*</b>	Part no.		821608A
Connection thread			G 3/4
<b>Maintenance unit without lubricator*</b>	Part no.		826982A
Connection thread			G 3/4
<b>Replacement part set</b> consisting of:			
vanes, sealant rings, o-rings and silencers	Part no.		444788A / for part no. 103181(1)B-C 444788B / for part no. 103181(1)D-G 444788E / for part no. 103181(1)A
<b>Replacement part set for brake</b> consisting of:			
discs, o-rings, pressure spring and silencer	Part no.		446096D

\* Maintenance unit consists of pressure regulator valve, filter and optionally with or without lubricator

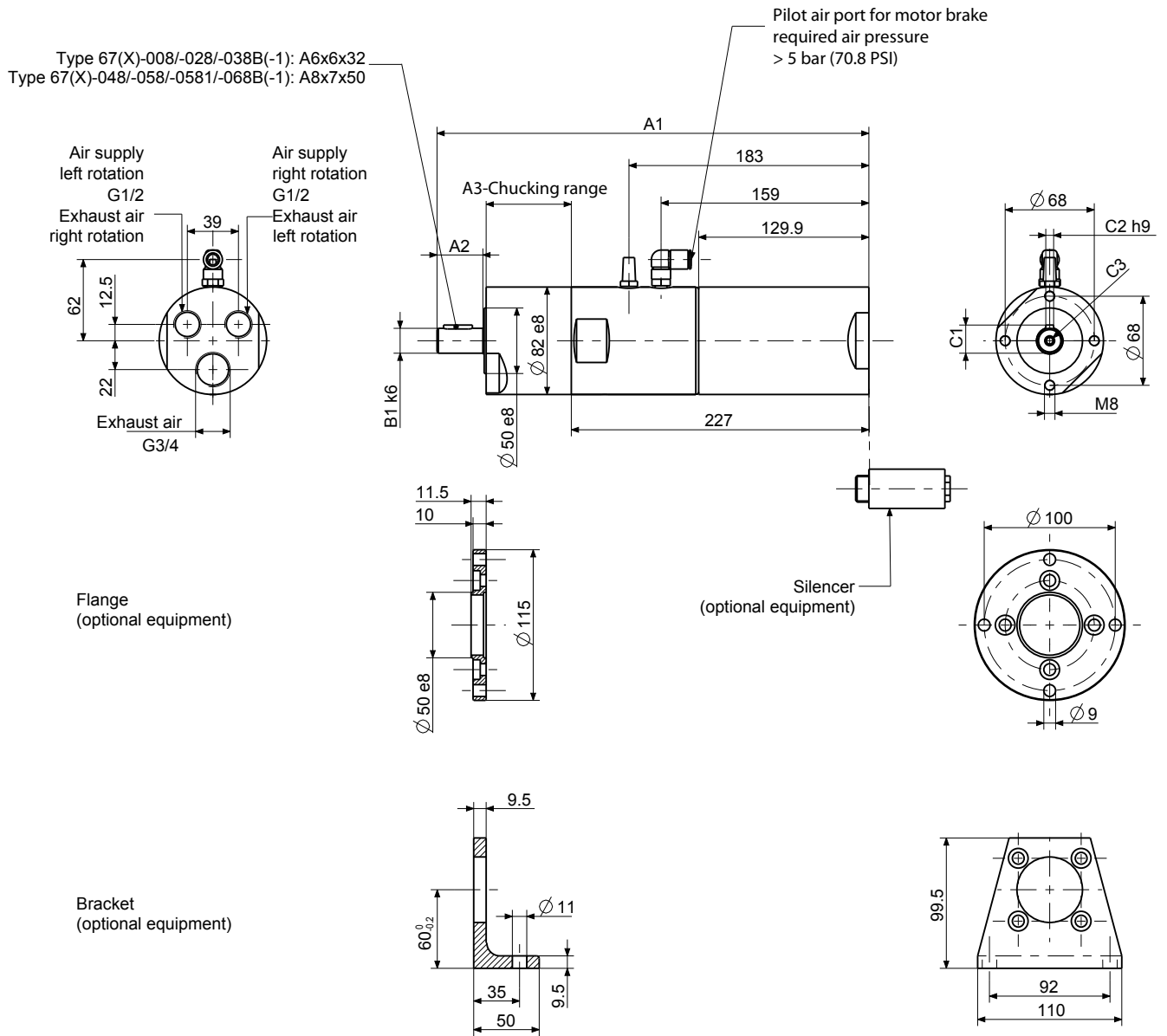
Of course you can also purchase individual replacement parts from us. Our standard maintenance units are not ATEX conform. Please contact us if this is a requirement.

Allowable shaft loading see page 36.

Further notes for soundproofing see page 36/37.

Notes to the pressure regulator valve for our ATEX conform brake motors, please find on page 38.

**Motor size 8 with holding brake**  
**Series 67(X)-**  
 reversible



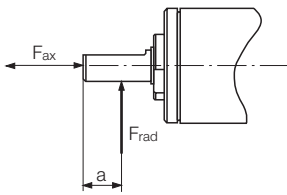
Dimensions in mm

p4401026

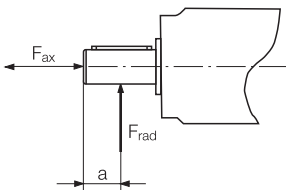
Motor size	Series 67(X)- with holding brake Type			Dimensions of motor (mm)						
				A1	A2	A3	B1	C1	C2	C3
8	67(X)-008B(-1)	67(X)-028B(-1)	67(X)-038B(-1)	330	35	65	19	21.5	6	M6x15
	67(X)-048B(-1)	67(X)-058B(-1)	67(X)-0581B(-1)	363	60	73	28	31	8	M10x20
	67(X)-068B(-1)			406.6	63	117				

## Maximum allowable shaft load of the drive shaft

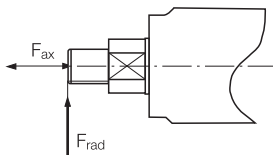
flattened shaft  
Motor size 0 and 1



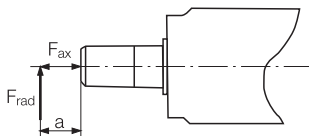
parallel key shaft  
Motor size 2 to 8



threaded shaft



drill chuck



### Motors with flattened shaft

Motor size	Part no.	Fax [N]	Frad [N]	a [mm]
0	306700B-E	120	180	6
	3067000B-E			
1	306710(0)A-I	200	240	7

### Motors with parallel key shaft

Motor size	Part no.	Part no. with holding brake	Fax [N]	Frad [N]	a [mm]
2	306720(0)A-F,H		340	165	9
2.5	306725(0)A-H	107399A-H / 1073991A-H	510	1170	11
	306730(0)A-D	103029A-D / 1030291A-D	510	1180	13
3	306730(0)E-H,K	103029E-H,K / 1030291E-H,K	680	1040	14
	306730(0)I,L,M	103029P,R,S / 1030291P,R,S	1160	3870	20
	306730(0)N,O	103029N,O / 1030291N,O	1160	3920	20
	306760(0)A-D,H,N	102750A-D,H,N / 1027501A-D,H,N	690	1190	14
6	306760(0)E-G	102750E,F,G / 1027501E,F,G	800	2030	16
	306760(0)I,K,L	102750P,R,S / 1027501P,R,S	1160	3790	20
	306760(0)M	102750M / 1027501M	1160	3900	20
	306770(0)A-D,H,N	103005A-D,H,N / 1030051A-D,H,N	690	1190	14
7	306770(0)E-F	103005E,F / 1030051E,F	800	2030	16
	306770(0)I,K,L	103035P,R,S / 1030351P,R,S	1160	3790	20
	306770(0)M	103035M / 1030351M	1160	3900	20
	306780A-C,G	1031811A-C,G / 103181A-C,G	1470	2790	16
8	306780D-F	1031811D-F / 103181D-F	1560	2730	30
	3067800A-C		1470	2790	16
	3067800D,E		1470	2580	30

### Motors with threaded spindle

Motor size	Part no.	Fax [N]	Frad [N]	a [mm]
2	3067207A-H	340	110	0
2.5	3067257A-L	510	880	0
	3067307A-D	510	860	0
	3067307E-H	680	820	0
3	30673014A-D	510	860	0
	30673014E,F	680	820	0
	1141327B-H	690	1000	0

### Motors with drill chuck

Motor size	Part no.	Fax [N]	Frad [N]	a [mm]
6	114132B-H	800	350	80

Allowable force for 10 million spindle rotations with 90 % survival probability of bearing.

## Noise level of the motors

### Noise level for motors of the series 67(X) - without or with silencer (see optional equipment)

for Motor size	Noise level dB (A) without silencer	Noise level dB (A) with silencer		Part no. silencer	
		for right rotational motors	for reversible motors	in one turn direction R/L	reversible
0	98	assembly is not possible		129588A	-
1	95	90	85	117968A	117968A
2	99	78.8	92	129596A	129596B
2.5	100	81.1	82	129601A	129601B
3	103	83.4	91	129602A	129601B
6	104	87.2	94	129563A	129563B
7	106	90.2	88	129563A	129563B
8	108	85.6	95	129610A	129610B

## Use in potentially explosive environments



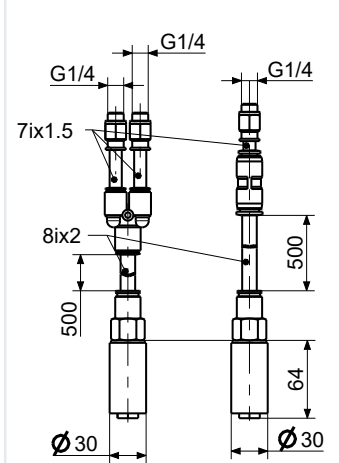
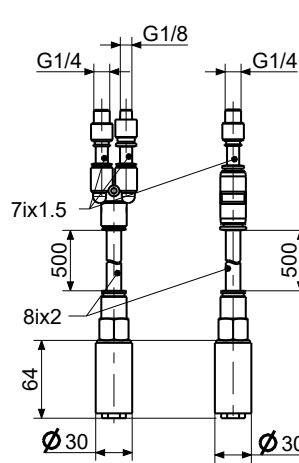
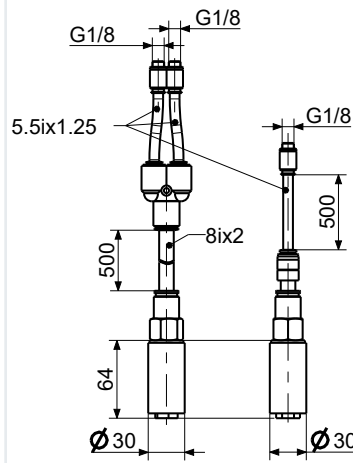
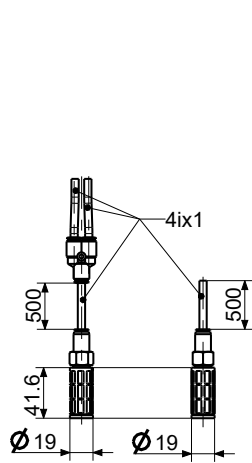
The correspondingly marked motors are suitable for use in potentially explosive environments.

## Optional Silencer sets for further reduction of the noise level

### Silencer sets for motors of the build series 67(X)-

for Motor size	Motor operates in one turn direction R/L (clockwise or anticlockwise rotation), Part no.	Motor operates reversible U (clockwise and anticlockwise rotation), Part no.	Noise level approx. dB (A)	
			in one turn direction R/L	reversible
1	446354B	446354A	71	71
2	440015B	440015A	69	70
2,5	440016B	440016A	72	71
3	440018B	440018A	74	70
6	4400191B	4400191A	82	76
7	4400191B	4400191A	86	79
8	440020B	440020A	85	87

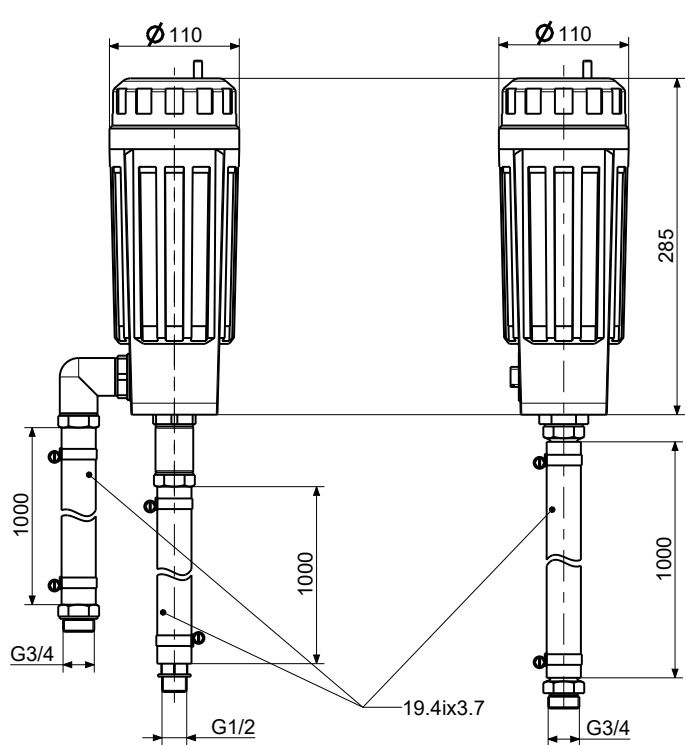
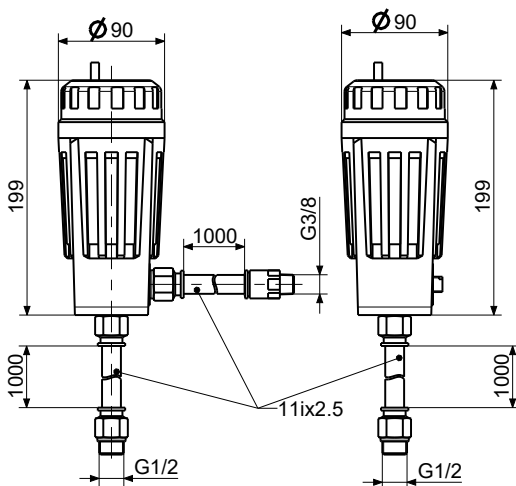
Motor size 1		Motor size 2		Motor size 2.5		Motor size 3	
R/L	U	R/L	U	R/L	U	R/L	U



### Motor size 8

R/L

U



Dimensions in mm  
p122985

## Speed standard values (rpm) for HSS spiral-drills

Cutting Speed	35 m/min (115 ft./min)	28 m/min (90 ft./min)	25 m/min (80 ft./min)	14 m/min (45 ft./min)	11 m/min (35 ft./min)	7 m/min (23 ft./min)	22 m/min (70 ft./min)	12 m/min (40 ft./min)	50 m/min (165 ft./min)	90 m/min (300 ft./min)	165 m/min (540 ft./min)	210 m/min (690 ft./min)
Drill dia. mm/in.	up to 500 N/mm <sup>2</sup> (30 long tons/ sq. in.)	Carbon steel		Alloy steel		Stainless steel	Cast-Iron		Copper Bronze Brass	Lightweight-Metal common alloy mild brass <sup>1)</sup> hard		Magnesium-Alloy <sup>2)</sup>
		500 - 700 N/mm <sup>2</sup> (30 - 45 long tons/ sq. in.)	above 700 N/mm <sup>2</sup> (45 long tons/ sq. in.)	700 - 900 N/mm <sup>2</sup> (45 - 55 long tons/ sq. in.)	900 - 1100 N/mm <sup>2</sup> (55 - 70 long tons/ sq. in.)		up to 180 N/mm <sup>2</sup> (10 long tons/ sq. in.)	above 180 N/mm <sup>2</sup> (10 long tons/ sq. in.)				
1/0.04	11000	8800	7800	4400	3400	2200	7000	3800	16000	28000	52000	66000
2 <sup>5</sup> /64	5500	4400	3900	2200	1700	1100	3500	1900	8000	14000	26000	33000
3 <sup>1</sup> /8	3700	3000	2600	1500	1100	730	2300	1300	5300	9000	17300	22000
4 <sup>5</sup> /32	2800	2200	2000	1100	850	550	1700	950	4000	7000	13000	16500
5 <sup>13</sup> /64	2200	1800	1600	880	680	440	1400	760	3200	5600	10400	13200
6 <sup>15</sup> /64	1900	1500	1300	735	570	365	1200	630	2700	4800	8700	11000
7 <sup>9</sup> /32	1600	1300	1100	630	485	315	1000	540	2300	4000	7400	9400
8 <sup>5</sup> /16	1400	1100	975	550	425	275	875	475	2000	3500	6500	8300
9 <sup>23</sup> /64	1200	975	865	490	380	245	780	420	1800	3100	5800	7400
10 <sup>25</sup> /64	1100	880	780	440	340	220	700	380	1600	2800	5200	6600

<sup>1)</sup> Speed therefore for triplet of duro-plates, hard-paper and hard tissues, however instead of the HSS-drills we recommend quickly steel-drills equipped with hard-metal K 10

<sup>2)</sup> for thermos-plates, we recommend double the values

## Pressure regulator valve for ATEX conform brake motors

A pressure regulator valve is included within our shipment of the ATEX conform brake motors.

This safety valve turns off the air supply in the brake leads automatically when the pressure falls under 5 bar.

This prevents an irregular temperatur increase.



## The layout of your air motor:

### Calculating the motor power

$$P = \frac{M \times n}{9550}$$

**P = Power Output in kW**

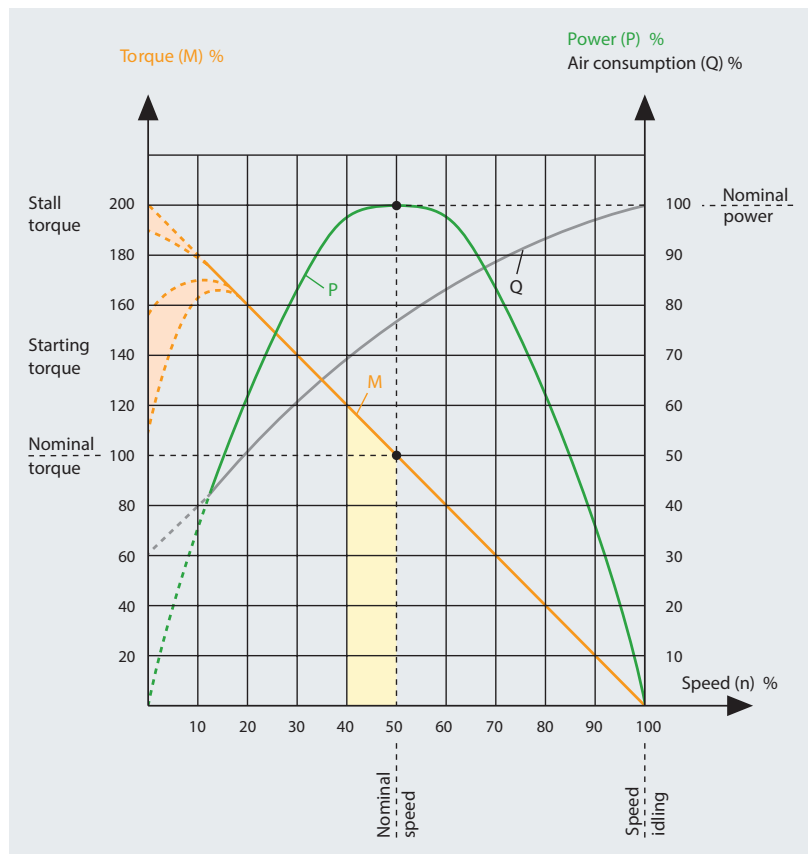
**M = Nominal-Torque in Nm**

**n = Nominal-Speed in rpm**

The optimal working range of an air motor is close to the nominal speed. If you need lower speeds than are mentioned in the catalogue you can reduce the speed by throttling the exhaust air with only a slight loss of power. By throttling the supply air or decreasing the operating pressure the speed, torque and power are reduced.

All performance data of the DEPRAG air motors is based on operating pressure of 6 bar and the opening cross-section mentioned in the motor data. If your application conditions are different from this then you will find a comprehensive guide to the layout of our motors in product catalog D6000E.

= optimal working range of the air motor



## Do you need support in selecting the right drive system?

Tell us your operational conditions and our application consultants will be happy to help. Please use the following request form and send it to: [airmotors@deprag.de](mailto:airmotors@deprag.de)

Application:	<input type="text"/>		
In what kind of environment will the motor be installed?	ATEX requirement / explosion safety?	<input type="checkbox"/> yes	<input type="checkbox"/> no
	if yes, which safety class:		
	food industry conformity?	<input type="checkbox"/> yes	<input type="checkbox"/> no
	sterilisable?	<input type="checkbox"/> yes	<input type="checkbox"/> no
	acid resistant?	<input type="checkbox"/> yes	<input type="checkbox"/> no
	steam resistant?	<input type="checkbox"/> yes	<input type="checkbox"/> no
Application conditions:	constant operation (24 hrs, non-stop)	<input type="checkbox"/> yes	<input type="checkbox"/> no
	duty cycle in hrs/day:	<input type="text"/>	
	days/year:	<input type="text"/>	
	cycle time (s):	<input type="text"/>	
	motor loaded to stall?	<input type="checkbox"/> yes	<input type="checkbox"/> no
	self-locking?	<input type="checkbox"/> yes	<input type="checkbox"/> no
Required turn direction:	<input type="checkbox"/> left	<input type="checkbox"/> right	<input type="checkbox"/> reversible
	(view from air inlet)		
Motor performance:	power:	<input type="text"/>	W
	nominal torque:	<input type="text"/>	Nm
	nominal speed:	<input type="text"/>	rpm
Performance influencing application conditions:	operating pressure (at motor inlet):	<input type="text"/>	bar
	operation with lubricated air possible?	<input type="checkbox"/> yes	<input type="checkbox"/> no
	smallest opening cross-section of connection pieces and hoses?	<input type="text"/>	mm
External motor design:	<input type="checkbox"/> standard steel	<input type="checkbox"/> non-corrosive	<input type="checkbox"/> aluminium
	<input type="checkbox"/> plastics	<input type="checkbox"/> ceramics	
	other:	<input type="text"/>	
Drive spindle design:	drive shaft requirements:	<input type="text"/>	
	(e. g. keyed shafts, square end, hexagonal, collet, drill chuck taper, etc.)		
	required dimensions:	<input type="text"/>	
		<input type="text"/>	
Motor fixture design:	mounting requirements: (bracket, flange, etc.)	<input type="text"/>	
	required dimensions:	<input type="text"/>	
		<input type="text"/>	
Additional components:	<input type="checkbox"/> holding brake	<input type="checkbox"/> operational brake	
	gear box:	<input type="text"/>	
Price range:	<input type="text"/>		
Annual requirement:	<input type="text"/>		

# DEPRAG

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CERTIFIED AS PER DIN EN ISO 9001

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