

# Explosion Protection Synchronousmotor Typ AS 80-6

**Ex II 2 G Ex e II T 4**  
 or **II 2 D Ex tD A21 IP65 T 90°C**

Compact design

application field: gases, fumes or fog „G“  
 dusts „D“

1~24 V for 50 Hz or 60 Hz

Speed range 0,75 – 1200 Upm

High torque band

Manufacture and inspection of ATEX 94/9/EG

Made in Germany

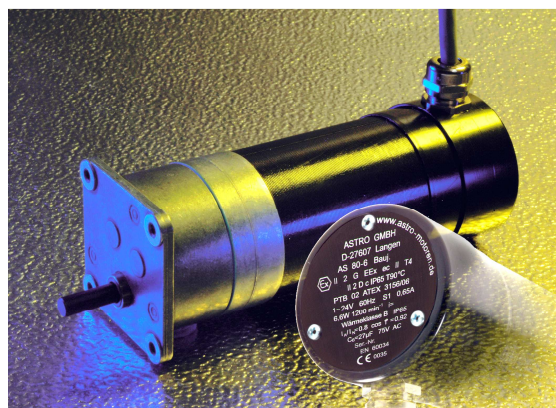


fig.: AS 80-6 with spur gear unit G 600

## Group of equipment II

	Category 1		Category 2		Category 3	
	Very high size of safety		High size of safety		Normal size of safety	
Application in	Zone 0	Zone 20	Zone 1	Zone 21	Zone 2	Zone 22
Atmosphere G = Gas D = Dust	No admissions	No admissions	<b>G</b>	<b>D</b>	<b>G</b>	<b>D</b>

## Technical Data

		AS 80-6	
		50	60
Frequency	Hz	50	60
Speed	1/min	1000	1200
Synchronous torque	cN·m	6,2	5,3
Input power	VA	13	14
Detend torque	cN·m	2,7	2,7
Output power	W	6,3	6,6
Voltage	V	1~24	1~24
Rated current	A	0,59	0,65
Thermal class		B	B
Operating mode		S1	S1
Performance faktor		0,91	0,92
$I_A/I_N$		1,2	0,8
Weight	g	1800	1800

## AS 80-6 with spur gear G 600

**Ex II 2 G Ex ec II T 4**  
**or II 2 D Ex tD c A21 IP65 T 90°C**

### Spur gear G 600

General data	
Permanent altering load	1000 cN-m
Max. short-time loading	1200 cN-m
Max. radial shaft load	60 N
Max. axial shaft load	80 N
Gear backlash	30 + 15'

Transmission	i	Output speed (rpm)		Synchronous torque (cN-m)	
		50 Hz	60 Hz	50 Hz	60 Hz
2-stage	5	200	240	44	35
	8,33	120	144	62	50
	10	100	120	77	62
	12,5	80	96	84	67
	16,66	60	72	108	86
	20	50	60	132	105
3-stage	25	40	48	156	125
	33,33	30	36	216	172
	50	20	24	288	230
	60	16,6	20	340	270
	62,5	16	19,2	360	288
	83,33	12	14,4	480	384
4-stage	100	10	12	580	470
	125	8	9,6	612	490
	166,66	6	7,2	1020	816
	200	5	6	1080	864
	250	4	4,8	>1200	1080
	333,33	3	3,6	>1200	>1200
5-stage	500	2	2,4	>1200	>1200
	750	1,3	1,6	>1200	>1200
	1000	1	1,2	>1200	>1200
	1333	0,75	0,9	>1200	>1200

