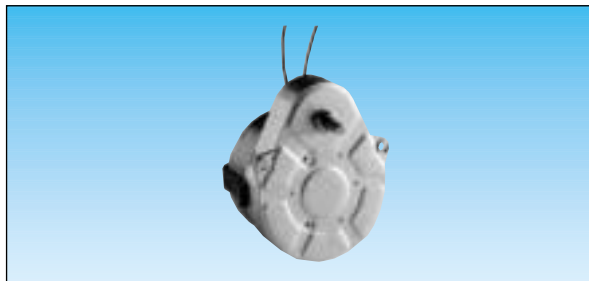


Single direction synchronous geared motors

- Constant speed, dependent on supply frequency
- Wide range of speeds
- Direction of rotation controlled by long-life mechanical anti-return (>10⁷ starts)
- Permanent magnet rotor



Applications

- Programming devices (time base)
- Office equipment
- Medical equipment
- Motorised displays
- Scanners
- Moving light displays
- Pumps

Made to order products, non stocked

Motors :

- other voltages/frequencies
- lead length
- output lead at 120° from standard angle (clockwise or anti-clockwise)
- fixed by screws not clips

Gearboxes :

- other output speeds
- ball bearings
- special shaft
- special lubrication
- fixing by M3 holes

Other information

For basic principles, see page 2/6
The speed of a motor powered by a 60 Hz supply is 20% higher than that of a motor powered by a 50 Hz supply.

Types

	82 344 0	82 344 0	82 344 0	82 344 0
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Voltage and frequency

	230 V 50 Hz	230 V 50 Hz	240 V 50 Hz	240 V 50 Hz
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Direction of rotation

	Anti-clockwise	Clockwise	Anti-clockwise	Clockwise
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Output speeds (rpm) Ratios (i) Part numbers

Output speeds (rpm)	Ratios (i)	Part numbers	Part numbers	Part numbers	Part numbers
60	10	82 344 744	82 344 736	82 344 698	82 344 690
50	12	•	•	•	•
48	12.5	•	•	82 344 699	82 344 691
30	20	82 344 738	82 344 746	82 344 692	82 344 700
24	25	82 344 739	82 344 747	82 344 693	82 344 701
20	30	82 344 740	82 344 748	82 344 694	82 344 702
16.67	36	•	•	•	•
15	40	82 344 741	82 344 749	82 344 695	82 344 703
12.5	48	•	•	•	•
12	50	82 344 743	82 344 751	82 344 697	82 344 705
10	60	82 344 752	82 344 760	82 344 706	82 344 714
9.6	62.5	•	•	•	•
8.33	72	•	•	•	•
7.5	80	82 344 754	82 344 762	82 344 708	82 344 716
6	100	82 344 755	82 344 763	82 344 709	82 344 717
5	120	82 344 756	82 344 764	82 344 710	82 344 718
4.8	125	•	•	•	•
4	150	82 344 765	82 344 757	82 344 719	82 344 711
3	200	82 344 766	82 344 758	82 344 720	82 344 712
2.50	240	•	•	•	•
2.40	250	•	•	•	•
2	300	82 344 775	82 344 768	82 344 729	82 344 722
1.67	360	•	•	•	•
1.60	375	•	•	•	•
1.20	500	•	•	•	•
1	600	82 344 771	82 344 778	82 344 725	82 344 732
0.83	720	•	•	•	•
0.80	750	•	•	•	•
0.56	1080	•	•	•	•
0.5	1200	82 344 772	82 344 779	82 344 726	82 344 733
0.42	1440	•	•	•	•
0.33	1800	82 344 773	82 344 780	82 344 727	82 344 734
0.28	2160	•	•	•	•
0.25	2400	•	•	•	•
0.21	2880	•	•	•	•
0.20	3000	•	•	•	•
0.17	3600	•	•	•	•
0.10	6000	•	•	•	•

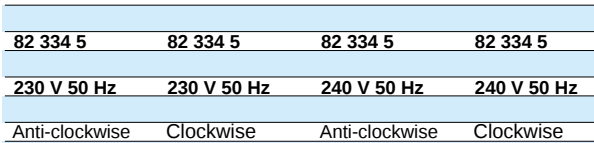
Output speeds (rev/hr)

Output speeds (rev/hr)				
5.00	7200	•	•	•
4.00	9000	•	•	•
3.00	12000	•	•	•
2.50	14400	•	•	•
1.00	36000	•	•	•
0.83	43200	•	•	•
0.67	54000	•	•	•
0.50	72000	•	•	•
1/3	108000	•	•	•
1/4	144000	•	•	•
1/5	180000	•	•	•
1/6	216000	•	•	•
1/12	432000	•	•	•
1/24	864000	•	•	•

Standard gearbox shaft: see dimensions

Options : for made to order products non stocked

Voltages / Frequencies	24 V 50 Hz	24 V 115 V 60 Hz	48 V 50 Hz	
For version with no anti-return (SAR version see page 2/6)	•	•	•	•
Free-wheel device : Y system (see page 2/34)	•	•	•	•
Torque limiter F symbol (see page 2/34)	•	•	•	•
Gearbox shaft round	79 200 967	•	•	•
pierced	79 200 779	•	•	•
Ø 6 with flat	79 999 421	•	•	•



Four vertical dot plots are shown, each representing a distribution of scores. The scores are: 82 334 748, 82 334 742, 82 334 796, 82 334 789, 82 334 744, 82 334 751, 82 334 792, 82 334 799, 82 334 794, and 82 334 801.

Type		82 344 0	82 334 5
Motor		82 340 0	82 330 5
Gearbox		81 021 0	81 021 0
Maximum permitted continuous rated gearbox output torque for 1 million gearbox revolutions	Nm	0.5	0.5
Axial load (static)	daN	1	1
Radial load (static)	daN	8	8
Absorbed power	W	3	3.5
Usable motor power	W	0.16	0.42
Maximum temperature rise	°C	55	55
Ambient temperature	°C	-5 +60	-5 +60
Weight	g	160	210
Lead length (approx..)	mm	250	250
Protection		IP40	IP40

Technical drawing of the 1000 series ball bearing housing, showing front and side views with dimensions in mm.

Front View Dimensions:

- Overall width: 55,5 max.
- Overall height: 65,9 max.
- Inner diameter: $\varnothing 50,5$
- Distance from center to mounting holes: 23,8
- Distance between mounting holes: 23,8
- Distance from center to top edge: 12,75
- Distance from center to bottom edge: 13,5
- Distance from center to side edge: 14

Side View Dimensions:

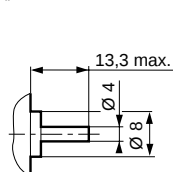
- Overall length: 13,2 max.
- Distance from front face to mounting holes: 3,2
- Distance from front face to fixing claw: 8
- Distance from front face to end face: 17,2 max.
- Distance from end face to mounting holes: 3,5 across $\varnothing 4,0^{+0,018}_{-0}$
- Distance from end face to fixing claw: $\varnothing 8$
- Distance from end face to mounting holes: 13,2 max.

Other Features:

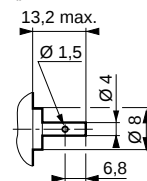
- 2 fixing holes $\varnothing 3,2$
- Fixing claw
- Pushed-in shaft (indicated by an arrow)
- Overall length: L1

Products available to order : gearbox output shaft

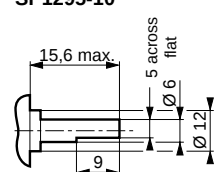
(pushed-in shaft ←)



(pushed-in shaft ←)



SP1295-10



Standard products

4 Part number
Example : Synchronous geared motor -
82 344 744

**Standard products,
non stocked**

1	Type	2	Voltage and frequency
3	Direction of rotation	4	Output speed
5	Option		

Example : Synchronous geared motor 82 344 0 - 230 V 50 Hz - CW - 0.80 rpm - Round shaft

**Products available to order,
please consult us**