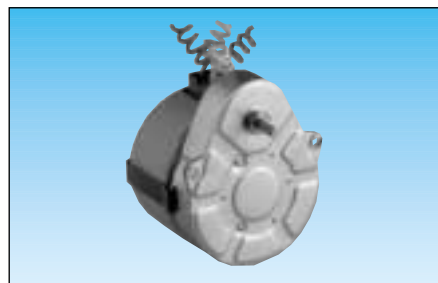


Reversible synchronous geared motors with capacitor

- Constant speed, dependent on supply frequency
- Wide range of speeds
- Direction of rotation controlled by dephasing capacitor
- Permanent magnet rotor
- UL, CSA, VDE approved, comply with IEC standards.



Applications

- Valve actuation
- Blind, louvre and vane actuation
- Office equipment
- Boiler systems
- Amusement machines
- Vending machines
- Medical equipment
- Laboratory equipment
- Peristaltic pumps

Made to order products, non stocked

Motors :

- other voltages/frequencies
- lead length
- boosted coils for performance +30% higher than standard (consult us)
- motor fixed by screws not clips
- different lead exit angle relative to gearbox

Gearboxes :

- other output speeds
- special shaft
- special lubrication
- ball bearing (81 021 only)

Other information

For basic principles, see page 2/6
Dimensions see page 2/28
NB : 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

	82 524 0	82 524 4
Base speed of motor (rpm)	250	375

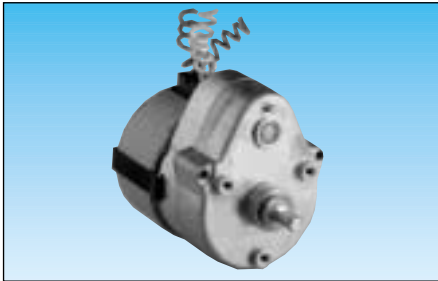
Output speeds (rpm)			Ratios (i)	Part numbers		
Motors	250 rpm	375 rpm				
	53.33	80	75/16		●	●
	25	37.5	10	82 524 001	●	●
	20.83	31.25	12		●	●
	20	30	25/2	82 524 002	●	●
	13.33	20	75/4		●	●
	12.50	18.75	20	82 524 003	●	●
	10.42	15.62	24		●	●
	10	15	25	82 524 004	●	●
	8.33	12.5	30	82 524 005	●	●
	6.94	10.41	36		●	●
	6.25	9.37	40	82 524 006	●	●
	5.21	7.81	48		●	●
	5.00	7.50	50	82 524 008	●	●
	4.17	6.25	60		●	●
	4	6	125/2	82 524 010	●	●
	3.47	5.20	72		●	●
	3.13	4.68	80	82 524 011	●	●
	2.50	3.75	100		●	●
	2.08	3.12	120	82 524 013	●	●
	2.00	3	125		●	●
	1.67	2.5	150	82 524 014	●	●
	1.56	2.34	160	—	—	—
	1.25	1.87	200		●	●
	1.04	1.56	240		●	●
	1.00	1.50	250	82 524 016	●	●
	0.83	1.25	300		●	●
	0.69	1.04	360		●	●
	0.67	1	375		●	●
	0.50	0.75	500	82 524 019	●	●
	0.46	0.69	540		●	●
	0.42	0.62	600		●	●
	0.35	0.52	720		●	●
	0.33	0.50	750		●	●
	0.31	0.46	800	—	—	—
	0.23	0.34	1080		●	●
	0.21	0.31	1200	82 524 021	●	●
	0.17	0.26	1440		●	—
	0.14	0.20	1800		●	—
	0.12	0.17	2160		●	—
	0.10	0.15	2400		●	●

Output speeds (rev/hr)		
8.21	7.8	2880
5	7.5	3000
4.17	6.25	3600
3.47	5.21	4320
2.5	3.75	6000
2.08	3.128	7200
1.67	2.5	9000
1.39	2.08	10800
1.25	1.87	12000
1.04	1.56	14400
0.69	1.04	21600
0.42	0.625	36000
0.35	0.52	43200
0.25	0.42	54000
0.21	0.31	72000
0.14	0.21	108000
0.10	0.15	144000
0.08	0.125	180000
1/14.4	1/9.6	216000
1/28.8	1/19.2	432000
1/57.6	1/38.4	864000

Standard gearbox shaft: see dimensions (page 2/28)

Options : for made to order products non stocked

Voltages / Frequencies	230-240 V 50 HZ	•	•
	115 V 60 Hz	•	•
	24 V 50 Hz	•	•
	24 V 60 Hz	•	•
Torque limiter F symbol (see page 2/34)	—	•	•
Other gearbox output shafts (see p.2/28)	•	•	•



82 529 0 250 82 529 4 375

1

2

General characteristics

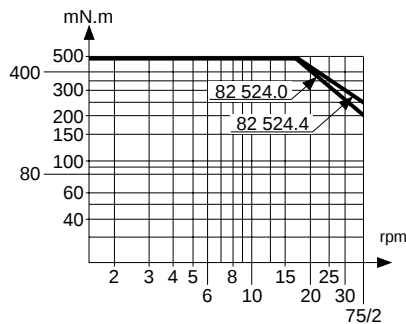
Type	82 524 0	82 524 4	82 529 0	82 529 4
Motor	82 520 0	82 520 4	82 520 0	82 520 4
Gearbox	81 021 0	81 021 0	81 033 0	81 033 0
Voltage/Frequency	230-240V 50 Hz	230-240V 50 Hz	230-240V 50 Hz	230-240V 50 Hz

Maximum permitted continuous rated gearbox output torque for 1 million revolutions of gearbox output shaft

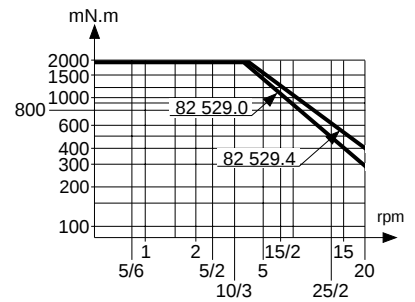
	Nm	0.5	0.5	2.0	2.0
Axial load	daN	1	1	1	1
Radial load	daN	8	8	10	10
Absorbed power	W	3.5	3.5	3.5	3.5
Usable motor power	W	0.98	1.12	0.98	1.12
Maximum temperature rise	°C	50	50	50	50
Ambient temperature	°C	-5+70	-5+70	-5+70	-5+70
Weight	g	140	140	260	350
Lead length (approx.)	mm	250	250	250	250
Protection		IP40	IP40	IP40	IP40

Torque /Speed curves

82 524 0 - 82 524 4

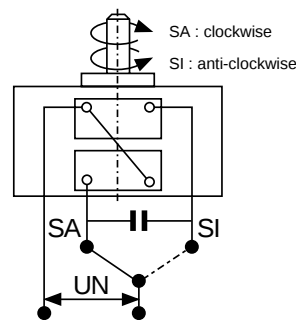


82 529 0 - 82 529 4



Connections

In parallel
Motors 82 520 0 - 82 520 4



Capacitors (supplied only on request)

Voltages / Frequencies	μF	V	Part number
Motor 82 520 0			
230-240 V 50 Hz	0.10 ± 10%	700	26 231 941
115 V 60 Hz	0.33 ± 10%	400	26 231 801
24 V 50 Hz	8.2 ± 10%	63	26 231 711

Motor 82 520 4			
230-240 V 50 Hz	0.12 ± 10%	630	26 231 903
115 V 60 Hz	0.39 ± 10%	630	26 231 924
24 V 50 Hz	15 ± 10%	63	26 231 729
24 V 60 Hz	12 ± 10%	63	26 231 727

3

To order, specify :

Standard products

2

Part number

Example : Synchronous geared motor 82 524 001

Standard products, non stocked

1

Type

2

Voltage / frequency

3

Option

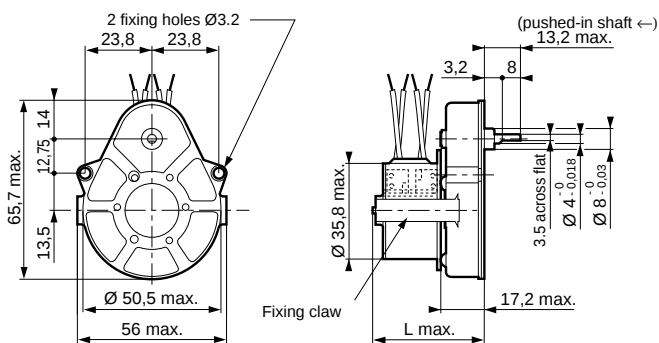
Example : Synchronous geared motor 82 524 4-5 rpm-230V 50Hz

Products available to order, please consult us

Reversible synchronous geared motors

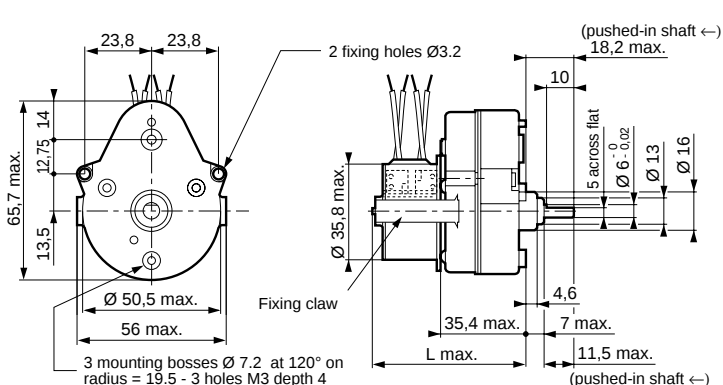
Dimensions

82 514 0 - 82 554 0



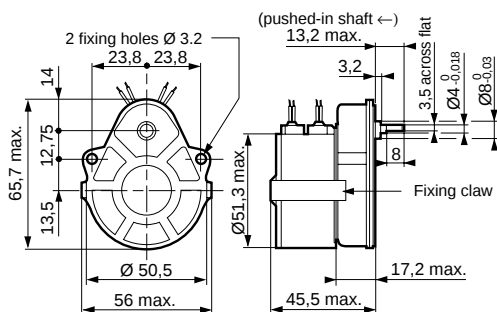
	L max.
82 514 0	40.5
82 554 0	42.8

82 519 0 - 82 559 0

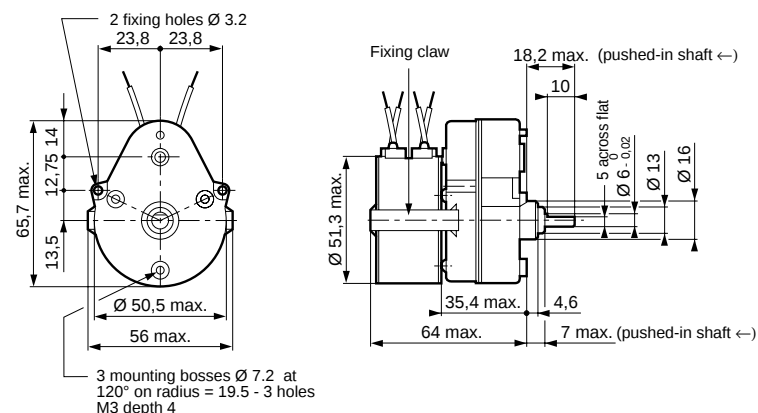


	L max.
82 519 0	58.7
82 559 0	61

82 524 0 - 82 524 4

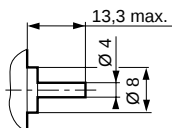


82 529 0 - 82 529 4

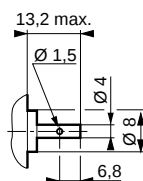


Products made to order : gearbox output shaft

Shaft 79 200 967 (pushed-in shaft ←)



Shaft 79 200 779 (pushed-in shaft ←)



Shaft 70 999 421 SP1295-10

