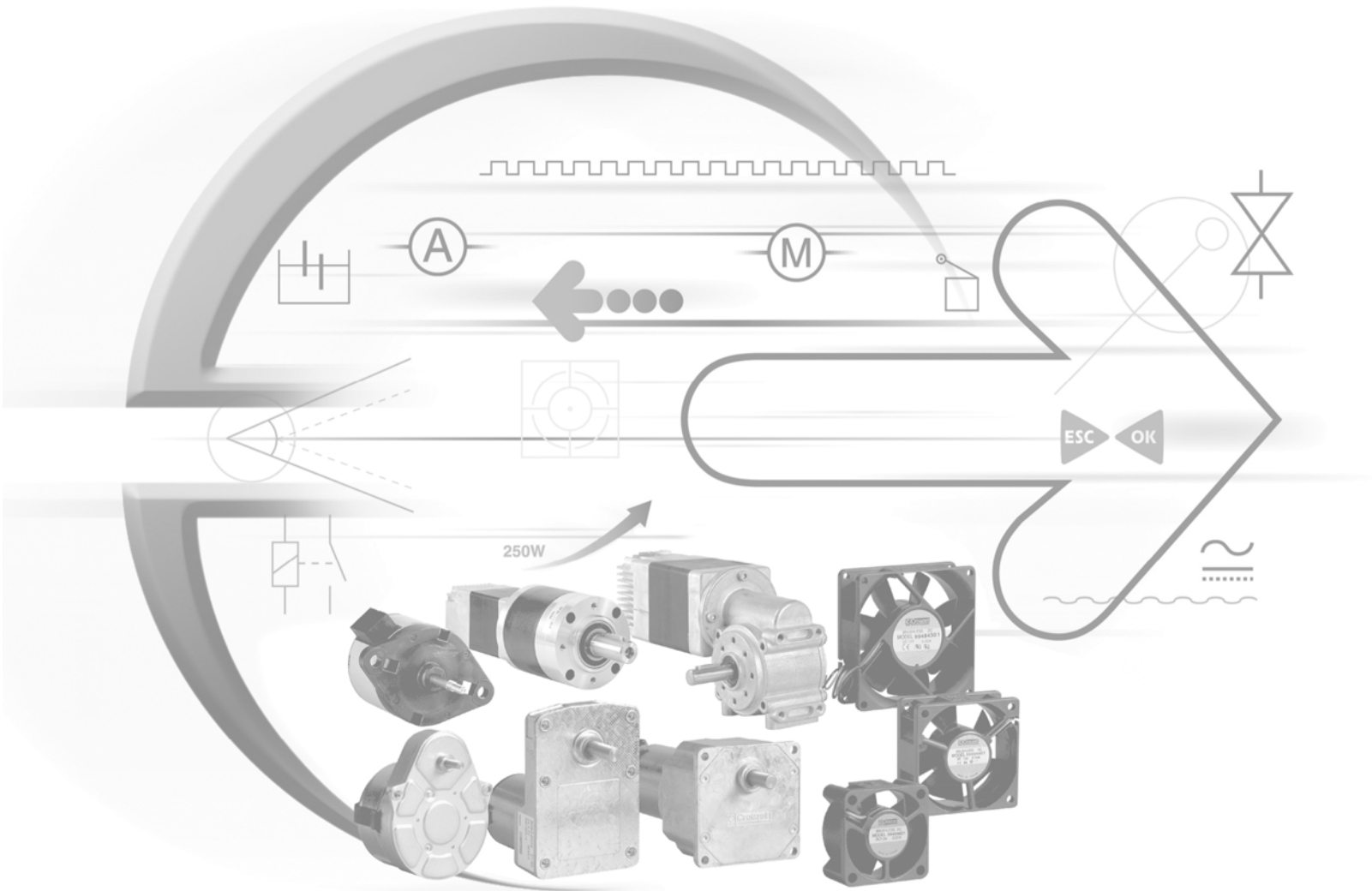




Synchronous Motors



Products and specifications subject to change without notice.

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Synchronous motors selection guide

Gearboxes		Torque max (Nm)		0.5	
		Gearbox type		81 021	
Direct motors					
Power usable (w)	Torque nominal (mN.m)	Speed nominal (rpm)	Voltage supply (V)	Motor type dimensions (mm)	
Single direction					
0.16	2.5	720	115	► p.74 82 340	► p.84 82 344
				Ø 47 	 0.001 ... 60 rpm
0.42	8	720	115	► p.75 82 330	► p.86 82 334
				Ø 47 	 0.001 ... 60 rpm
Reversible: both direction					
0.31	12	300	115	► p.76 82 510	► p.94 82 514
0.52	10	600		Ø 36/50 	 1... 60 rpm
0.98	37.5	300	115	► p.78 82 520	► p.96 82 524
1.12	30	450		Ø 51/75 	 0.8... 60 rpm
1.37	55	300	115	► p.80 82 530	
				Ø 58/79 	
2.65	106	300	115	► p.82 82 540	
				65x65 	

Selection of a geared motor

This choice is based upon the desired usable power at the gearbox output shaft.

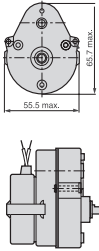
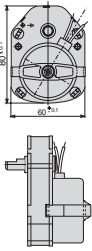
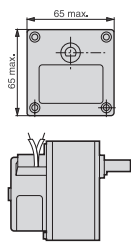
$$\text{Power} = \frac{2\pi}{60} C n$$

(W) (Nm) (Rpm)

A geared motor must have usable power equal to or greater than the power required to rotate the load desired. It is selected by checking that the point corresponding to the required operating conditions (torque and speed output) is higher than the nominal torque versus speed curve of the geared motor. The required torque output of a geared motor must be within its maximum recommended torque for continuous duty.

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2	3	5
81 033	81 023	81 037
		
► p.88 82 304		
		
0.003... 32 rpm		
► p.88 82 305	► p.90 80 333	► p.92 80 337
		
0.003... 32 rpm	0.167... 29 rpm	0.24... 24 rpm
► p.100 82 519	► p.102 80 513	► p.106 80 517
		
0.001... 60 rpm	0.167... 29 rpm	0.24... 24 rpm
► p.98 82 529	► p.104 80 523	► p.106 80 527
		
0.003... 32 rpm	0.167... 29 rpm	0.24... 24 rpm
	► p.104 80 533	
		
	0.167... 29 rpm	
		► p.108 80 547
		
		0.24... 24 rpm

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Direct drive single direction synchronous motors

→ Starting/running torque 2.5 mNm

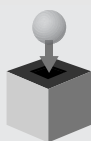
- Constant speed dependent on supply frequency
- Direction of rotation controlled by long-life mechanical anti-return
- Permanent magnet rotor with 5 pole pairs
- Hardened shaft turning on two moulded polyamide bearings
- UL, CSA (class B) - VDE approved.



Specifications

Type		0.16 watts
Direction of rotation		82 340 0
Clockwise	115 V 60 Hz	82 340 050
Counter-clockwise	115 V 60 Hz	82 340 185
General characteristics		
Base speed of motor (rpm)		720
Absorbed power (W)		3
Usable Power (W)		0.16
Starting/running torque (mN.m)		2.5
Stall torque (mN.m)		3.3
Temperature rise (°C)		55
Ambient temperature (°C)		-5 → +60
Maximum inertial load that can be moved (g.cm ²)		4.6
Number of offload starts 10°		10
Max. reverse rotation angle (°)		360
Insulation resistance (MΩ)		75 x 10 ³
Breakdown voltage (V-50 Hz)		1800 - 1 s
Weight (g)		110
Wires length mm (approximately)		250
Protection rating		IP30

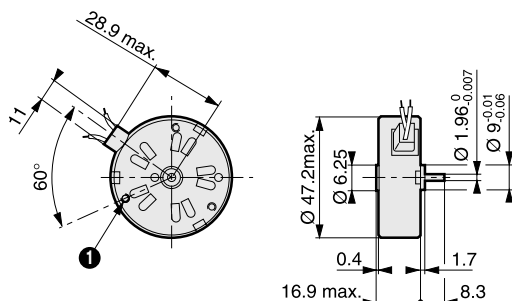
Products adaptations, available on request



- Special output shafts
- Pinion on output shaft
- Special supply voltages
- Special lead lengths
- Special output bearings
- Special mounting plate
- Special connectors

Dimensions

82 340 0



B 3 fixing holes ØM2 at 120 ° on r=19.5 max. depth 2.4 mm

Other information

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.

Products and specifications subject to change without notice.

Order/Technical Support - Tel: (800) 677-5311 / FAX: (800) 677-3865 / www.crouzet-usa.com

Direct drive single direction synchronous motors

→ Starting/running torque 8 mNm

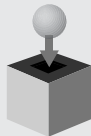
- Constant speed dependent on supply frequency
- Direction of rotation controlled by long-life mechanical anti-return
- Permanent magnet rotor with 5 pole pairs
- Hardened shaft turning on two moulded polyamide bearings
- UL, CSA (class B) - VDE approved



Specifications

	0.42 Watts
Type	82 330 5
Voltage / Frequency	115 V - 60 Hz
Direction of rotation	
Clockwise	82 330 514
Counter-clockwise	82 330 520
General characteristics	
Base speed of motor (50 Hz) (rpm)	720
Absorbed power (W)	3.5
Usable Power (W)	0.42
Starting/running torque (mN.m)	8
Stall torque (mN.m)	12
Temperature rise (°C)	55
Ambient temperature (°C)	-5 → +60
Maximum inertial load that can be moved (g.cm ²)	11
Number of offload starts 10 ⁶	10
Max. reverse rotation angle (°)	72
Insulation resistance (MΩ)	75 x 10 ³
Breakdown voltage (V-50 Hz)	1800 - 1 s
Weight (g)	160
Wires length mm (approximately)	250
Protection rating	IP30

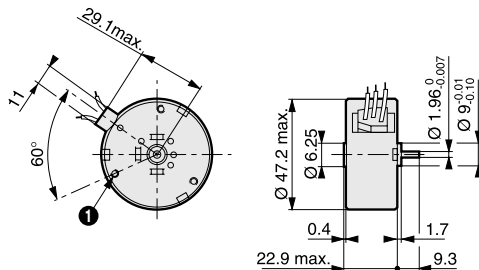
Products adaptations, available on request



- Special output shafts
- Pinion on output shaft
- Special supply voltages
- Special lead lengths
- Special output bearings
- Special mounting plate
- Special connectors

Dimensions

82 330 5



B 3 fixing holes Ø M2 at 120 ° on r=19.5 max. depth 3.5 mm

Other information

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.

Products and specifications subject to change without notice.

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Direct drive reversible synchronous motors

→ Starting/running torque 12 mNm

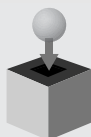
- Constant speed, dependant upon supply frequency
- Direction of rotation controlled by dephasing capacitor
- Sintered bearing lubricated for life
- Silent operation
- UL, CSA (class B) - VDE approved.



Specifications

	2.7 Watts	2.7 Watts
Type	82 510 0	82 510 5
Voltages/Frequencies	115 V - 60 Hz	115 V - 60 Hz
Part numbers	82 510 0A40300M	82 510 5A40600M
General characteristics		
Base speed of motor (rpm)	300	600
Absorbed power (W)	2.7	2.7
Usable Power (W)	0.31	0.52
Starting/running torque (mN.m)	12	10
Stall torque (mN.m)	15	12
Temperature rise (°C)	55	65
Ambient temperature (°C)	-10 +75	-5 +65
Maximum inertial load that can be moved (g.cm²)	22	22
Number of offload starts	∞	∞
Insulation resistance (MΩ)	75x10³	75x10³
Breakdown voltage (V-50 Hz)	1800-1 sec	1800-1 sec
Weight (g)	90	90
Wires length mm (approximately)	250	250
Protection rating	IP40	IP40

Products adaptations, available on request



- Special output shafts
- Pinion on output shaft
- Special supply voltages
- Special lead lengths
- Special output bearings
- Special mounting plate
- Special connectors

Accessories

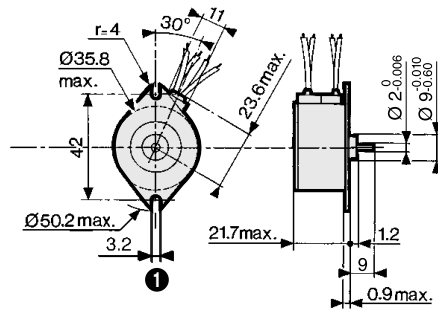
Voltages/Frequencies	µF	V	Code
Capacitors motors 82 510 0			
230-240 V - 50 Hz	0.33 ± 10 %	400	26 231 801
115 V - 50/60 Hz	0.27 ± 10 %	250	26 231 851
24 V - 50 Hz	8.2 ± 10 %	70	26 231 711
24 V - 60 Hz	6.8 ± 10 %	63	26 231 708
Capacitors motor 82 510 5			
230-240 V 50/60 Hz	0.39 ± 10 %	630	26 231 924
115 V - 50/60 Hz	0.39 ± 10 %	630	26 231 924
24 V - 50/60 Hz	8.2 ± 10 %	70	26 231 711

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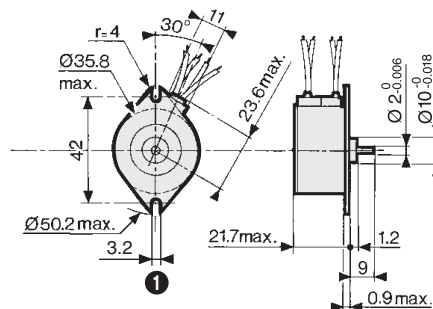
Dimensions

82 510 0



B 2 fixing holes $\varnothing 3.2$

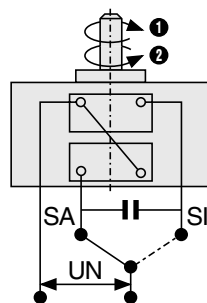
82 510 5



B 2 fixing holes $\varnothing 3.2$

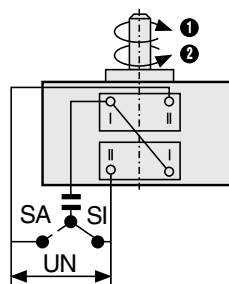
Connections

In parallel
Motors 82 510 0



B SA : Clockwise
C SI : Counter-clockwise

In series
Motors 82 510 0/5 only
230 V - 240 V 50 Hz version



B SA : Clockwise
C SI : Counter-clockwise

Other information

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.

Products and specifications subject to change without notice.

Order/Technical Support - Tel: (800) 677-5311 / FAX: (800) 677-3865 / www.crouzet-usa.com

Direct drive reversible synchronous motors

→ Starting/running torque from 30 and 37.5 mN.m

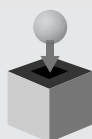
- Constant speed, dependent on supply frequency
- Direction of rotation controlled by dephasing capacitor
- Sintered bearing lubricated for life
- Silent operation
- UL, CSA (classe B) - VDE approved



Specifications

	3.5 Watts	3.5 Watts
Type	82 520 0	82 520 4
Voltages/Frequencies	115 V 60 Hz	115 V 60 Hz
Part numbers	82 520 0A40300M	82 520 0A40450M
General characteristics		
Base speed of motor (rpm)	300	450
Absorbed power (W)	3.5	3.5
Usable Power (W)	0.98	1.12
Starting/running torque (mN.m)	37.5	30
Stall torque (mN.m)	42	31
Temperature rise (°C)	55	55
Ambient temperature (°C)	-10+75	-10+75
Maximum inertial load that can be moved (g.cm²)	33	33
Number of offload starts	∞	∞
Insulation resistance (MΩ)	75x10³	75x10³
Breakdown voltage (V-50 Hz)	1800 -1 sec.	1800 -1 sec.
Weight (g)	210	210
Wires length mm (approximately)	250	250
Protection rating	IP40	IP40

Products adaptations, available on request



- Special output shafts
- Pinion on output shaft
- Special supply voltages
- Special lead lengths
- Special output bearings
- Special mounting plate
- Special connectors

Accessories

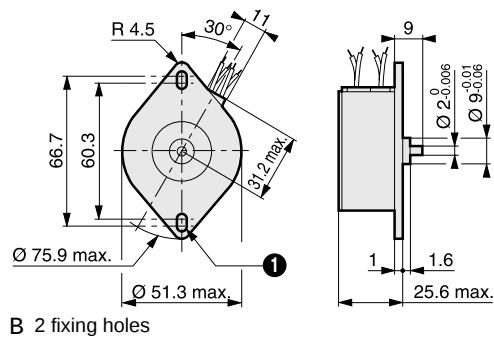
Voltages/Frequencies	μF	V	Code
Capacitors motor 82 520 0			
230-240 V - 50 Hz	0.10 ± 10 %	700	26 231 941
115 V 60 Hz	0.33 ± 10 %	400	26 231 801
24 V - 50 Hz	8.2 ± 10 %	70	26 231 711
Capacitors motor 82 520 4			
230/240 V - 50 Hz	0.12 ± 10 %	600	26 231 903
115 V - 60 Hz	0.39 ± 5 %	630	26 231 924
24 V - 50 Hz	15 ± 5 %	70	26 231 728
24 V - 60 Hz	12 ± 5 %	63	26 231 145

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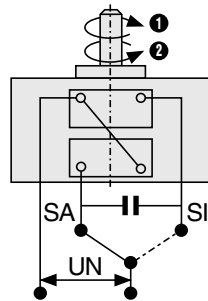
Options

82 520 0 - 82 520 4



Connections

In parallel
Motors 82 520 0 - 82 520 4



B SA : Clockwise
C SI : Counter-clockwise

Other information

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.

Products and specifications subject to change without notice.

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Direct drive reversible synchronous motors

→ Starting/running torque 55 mN.m

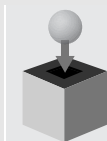
- Constant speed, dependent on supply frequency
- Direction of rotation controlled by dephasing capacitor
- Sintered bearing lubricated for life
- Silent operation
- UL, CSA (class B) - VDE approved.



Specifications

	3.6 Watts
Type	82 530 0
Voltage / Frequency	115 V 60 Hz
Part numbers	82 530 0A40300M
General characteristics	
Base speed of motor (rpm)	300
Absorbed power (W)	3.6
Usable Power (W)	1.37
Starting/running torque (mN.m)	55
Stall torque (mN.m)	58
Temperature rise (°C)	45
Ambient temperature (°C)	-10 → +85
Maximum inertial load that can be moved (g.cm²)	130
Number of offload starts	∞
Insulation resistance (MΩ)	75x10³
Breakdown voltage (V-50 Hz)	1800 -1 sec.
Weight (g)	340
Wires length mm (approximately)	250
Protection rating	IP40

Products adaptations, available on request



- Special output shafts
- Pinion or bush on output shaft
- Special supply voltages
- Special lead lengths
- Special output bearings
- Special mounting plate
- Special connectors

Accessories

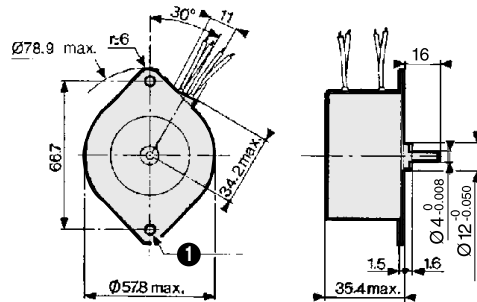
Voltages/Frequencies	µF	V	Code
Capacitors motor 82 530 0			
230-240 V - 50 Hz	0.10 ± 10 %	700	26 231 941
115 V 50/60 Hz	0.39 ± 10 %	630	26 231 924
24 V - 50 Hz	10 ± 5 %	100	26 231 720
24 V - 60 Hz	6.8 ± 10 %	63	26 231 708

Products and specifications subject to change without notice.

Order/Technical Support - Tel: (800) 677-5311 / FAX: (800) 677-3865 / www.crouzet-usa.com

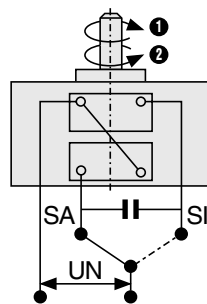
Options

82 530 0



Connections

In parallel
Motors 82 530 0



B SA : Clockwise
C SI : Counter-clockwise

Other information

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.

Products and specifications subject to change without notice.

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Direct drive reversible synchronous motors

→ Starting/running torque 106 mN.m

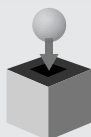
- Constant speed, dependent on supply frequency
- Direction of rotation controlled by dephasing capacitor
- Sintered bearing lubricated for life
- Silent operation
- UL, CSA (class B) - VDE approved.



Specifications

	7.2 Watts
Type	82 540 0
Voltages/Frequencies	115 V 60 Hz
Part numbers	82 540 0A40300M
General characteristics	
Base speed of motor (rpm)	300
Absorbed power (W)	7.2
Usable Power (W)	2.65
Starting/running torque (mN.m)	106
Stall torque (mN.m)	118
Temperature rise (°C)	60
Ambient temperature (°C)	-10 +70
Maximum inertial load that can be moved (g.cm²)	180
Number of offload starts	∞
Insulation resistance (MΩ)	75x10³
Breakdown voltage (V-50 Hz)	1800 -1 sec.
Weight (g)	540
Wires length (mm)	250
Protection rating	IP40

Products adaptations, available on request



- Special output shafts
- Pinion or bush on output shaft
- Special supply voltages
- Special lead lengths
- Special output bearings
- Special mounting plate
- Special connectors

Accessories

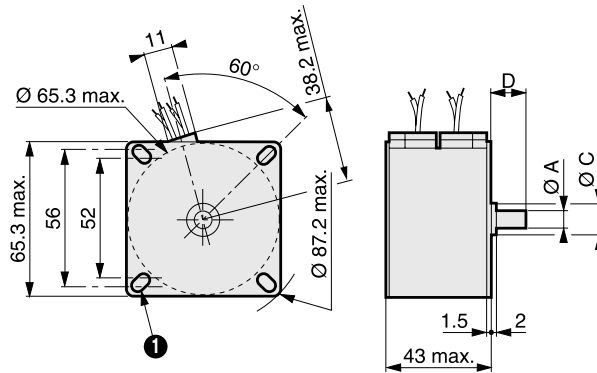
Voltages/Frequencies	µF	V	Code
Capacitors motor 82 540 0			
230-240 V 50 Hz	0.22 ± 5 %	630	26 231 909
115 V - 60 Hz	0.56 ± 5 %	400	26 231 822
24 V - 50 Hz	22 ± 10 %	63	26 231 703
24 V - 60 Hz	15 ± 5 %	70	26 231 728

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Options

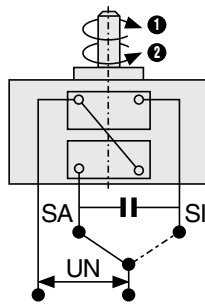
82 540 0



B 4 oblong fixing holes 4.2 mm wide

Connections

In parallel
Motors 82 540 0



B SA : Clockwise

C SI : Counter-clockwise

Other information

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.

Products and specifications subject to change without notice.

Order/Technical Support - Tel: (800) 677-5311 / FAX: (800) 677-3865 / www.crouzet-usa.com

Single direction synchronous geared motors

→ 0.5 Nm 3 Watts

- Mechanical strength : 0.5 Nm
- Constant speed, dependent on supply frequency
- Wide range of speeds available
- Direction of rotation controlled by long-life mechanical anti-return device
- Permanent magnet rotor



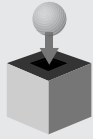
Specifications

		3 Watts	3 Watts	3 Watts	3 Watts
Type		82 344 0	82 344 0	82 344 0	82 344 0
Voltage / Frequency		115 V 60 Hz	115 V 60 Hz	220 V 60 Hz	220 V 60 Hz
Direction of rotation		Counter-clockwise	Clockwise	Counter-clockwise	Clockwise
Output speed	Ratios (i)				
72 rpm	10	82 344 0A20072MB ●	82 344 0A10072MB ●	82 344 0J20072MB ●	82 344 0J10072MB ●
60 rpm	12	82 344 0A20060MB ●	82 344 0A10060MB ●	82 344 0J20060MB ●	82 344 0J10060MB ●
48 rpm	20	82 344 0A20048MB ●	82 344 0A10048MB ●	82 344 0J20048MB ●	82 344 0J10048MB ●
24 rpm	30	82 344 0A20024MB ●	82 344 0A10024MB ●	82 344 0J20024MB ●	82 344 0J10024MB ●
18 rpm	40	82 344 0A20018MB ●	82 344 0A10018MB ●	82 344 0J20018MB ●	82 344 0J10018MB ●
15 rpm	48	82 344 0A20015MB ●	82 344 0A10015MB ●	82 344 0J20015MB ●	82 344 0J10015MB ●
14.4 rpm	50	82 344 0A214.4MB ●	82 344 0A114.4MB ●	82 344 0J214.4MB ●	82 344 0J114.4MB ●
12 rpm	60	82 344 0A20012MB ●	82 344 0A10012MB ●	82 344 0J20012MB ●	82 344 0J10012MB ●
9 rpm	80	82 344 0A20009MB ●	82 344 0A10009MB ●	82 344 0J20009MB ●	82 344 0J10009MB ●
7.2 rpm	100	82 344 0A207.2MB ●	82 344 0A107.2MB ●	82 344 0J207.2MB ●	82 344 0J107.2MB ●
6 rpm	120	82 344 0A20006MB ●	82 344 0A10006MB ●	82 344 0J20006MB ●	82 344 0J10006MB ●
4.8 rpm	150	82 344 0A204.8MB ●	82 344 0A104.8MB ●	82 344 0J204.8MB ●	82 344 0J104.8MB ●
3.6 rpm	200	82 344 0A203.6MB ●	82 344 0A103.6MB ●	82 344 0J203.6MB ●	82 344 0J103.6MB ●
3 rpm	240	82 344 0A20003MB ●	82 344 0A10003MB ●	82 344 0J20003MB ●	82 344 0J10003MB ●
2.4 rpm	300	82 344 0A202.4MB ●	82 344 0A102.4MB ●	82 344 0J202.4MB ●	82 344 0J102.4MB ●
1.2 rpm	600	82 344 0A201.2MB ●	82 344 0A101.2MB ●	82 344 0J201.2MB ●	82 344 0J101.2MB ●
0.80 rpm	750	82 344 0A200.8MB ●	82 344 0A100.8MB ●	82 344 0J200.8MB ●	82 344 0J100.8MB ●
0.60 rpm	1200	82 344 0A200.6MB ●	82 344 0A100.6MB ●	82 344 0J200.6MB ●	82 344 0J100.6MB ●
0.40 rpm	1800	82 344 0A200.4MB ●	82 344 0A100.4MB ●	82 344 0J200.4MB ●	82 344 0J100.4MB ●
0.30 rpm	2400	82 344 0A200.3MB ●	82 344 0A100.3MB ●	82 344 0J200.3MB ●	82 344 0J100.3MB ●
0.24 rpm	3000	82 344 0A20.24MB ●	82 344 0A10.24MB ●	82 344 0J20.24MB ●	82 344 0J10.24MB ●
0.12 rpm	6000	82 344 0A20.12HB ●	82 344 0A10.12HB ●	82 344 0J20.12HB ●	82 344 0J10.12HB ●
6.00 rph	7200	82 344 0A20006HB ●	82 344 0A10006HB ●	82 344 0J20006HB ●	82 344 0J10006HB ●
4.80 rph	9000	82 344 0A204.8HB ●	82 344 0A104.8HB ●	82 344 0J204.8HB ●	82 344 0J104.8HB ●
3.60 rph	12000	82 344 0A203.6HB ●	82 344 0A103.6HB ●	82 344 0J203.6HB ●	82 344 0J103.6HB ●
3.00 rph	14400	82 344 0A20003HB ●	82 344 0A10003HB ●	82 344 0J20003HB ●	82 344 0J10003HB ●
1.20 rph	36000	82 344 0A201.2HB ●	82 344 0A101.2HB ●	82 344 0J201.2HB ●	82 344 0J101.2HB ●
0.60 rph	72000	82 344 0A200.6HB ●	82 344 0A100.6HB ●	82 344 0J200.6HB ●	82 344 0J100.6HB ●
1/10 rph	432000	82 344 0A200.1HB ●	82 344 0A100.1HB ●	82 344 0J200.1HB ●	82 344 0J100.1HB ●
1/240 rph	864000	82 344 0A20.05HB ●	82 344 0A10.05HB ●	82 344 0J20.05HB ●	82 344 0J10.05HB ●
General characteristics					
Motor		82 340 0	82 340 0	82 340 0	82 340 0
Gearbox		81 021 0	81 021 0	81 021 0	81 021 0
Maximum permitted torque from gearmotor under continuous conditions for 1 millions turns of the gearmotor Nm		0.5	0.5	0.5	0.5
Axial load (static) daN		1	1	1	1
Radial load (static) daN		8	8	8	8
Absorbed power (W)		3	3	3	3
Motor output (W)		0.16	0.16	0.16	0.16
Maximum temperature rise (°C)		55	55	55	55
Ambient temperature (°C)		-5 → +60	-5 → +60	-5 → +60	-5 → +60
Weight (g)		160	160	160	160
Wires length mm (approximately)		250	250	250	250
Protection rating		IP40	IP40	IP40	IP40

Products and specifications subject to change without notice.

Order/Technical Support - Tel: (800) 677-5311 / FAX: (800) 677-3865 / www.crouzet-usa.com

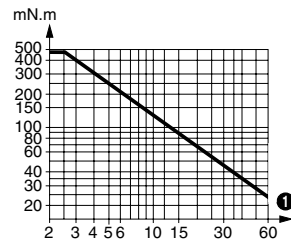
Products adaptations, available on request



- Special supply voltages
- Special lead lengths
- Special connectors
- Special output shafts
- Special gearbox ratios
- Special gear material
- Special output bearings
- Special mounting plate

Curves

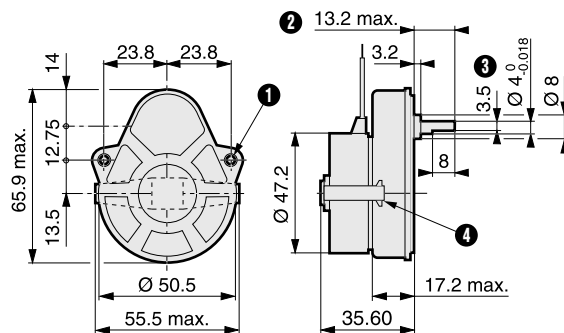
Graph of torque versus speed 82 344 0



B RPM

Dimensions

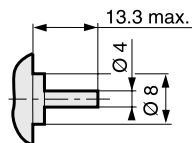
82 344 0



- B 2 fixing holes Ø 3.2
- C (pushed-in shaft)
- D 3.5 across flat
- E Fixing clip

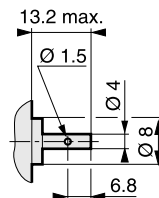
Options

Shaft 79 200 967



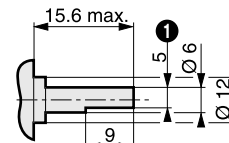
B (pushed-in shaft ←)

Shaft 79 200 779



B (pushed-in shaft ←)

Shaft 70 999 421 SP1295-10



B Across flat

Other information

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.

Products and specifications subject to change without notice.

Order/Technical Support - Tel: (800) 677-5311 / FAX: (800) 677-3865 / www.crouzet-usa.com

Single direction synchronous geared motors

→ 0.5 Nm 3.5 Watts

- Mechanical strength : 0.5 Nm
- Constant speed, dependent on supply frequency
- Wide range of speeds available
- Direction of rotation controlled by long-life mechanical anti-return device
- Permanent magnet rotor



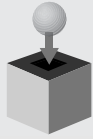
Specifications

		3.5 Watts	3.5 Watts	3.5 Watts	3.5 Watts
Type		82 334 5	82 334 5	82 334 5	82 334 5
Voltage / Frequency		115 V 60 Hz	115 V 60 Hz	220 V 60 Hz	220 V 60 Hz
Direction of rotation		Counter-clockwise	Clockwise	Counter-clockwise	Clockwise
Output speed	Ratios (i)				
72 rpm	10	82 334 5A20072MB ●	82 334 5A10072MB ●	82 334 5J20072MB ●	82 334 5J10072MB ●
60 rpm	12	82 334 5A20060MB ●	82 334 5A10060MB ●	82 334 5J20060MB ●	82 334 5J10060MB ●
36 rpm	20	82 334 5A20036MB ●	82 334 5A10036MB ●	82 334 5J20036MB ●	82 334 5J10036MB ●
24 rpm	30	82 334 5A20024MB ●	82 334 5A10024MB ●	82 334 5J20024MB ●	82 334 5J10024MB ●
18 rpm	40	82 334 5A20018MB ●	82 334 5A10018MB ●	82 334 5J20018MB ●	82 334 5J10018MB ●
15 rpm	48	82 334 5A20015MB ●	82 334 5A10015MB ●	82 334 5J20015MB ●	82 334 5J10015MB ●
14.4 rpm	50	82 334 5A214.4MB ●	82 334 5A114.4MB ●	82 334 5J214.4MB ●	82 334 5J114.4MB ●
12 rpm	60	82 334 5A20012MB ●	82 334 5A10012MB ●	82 334 5J20012MB ●	82 334 5J10012MB ●
9 rpm	80	82 334 5A20009MB ●	82 334 5A10009MB ●	82 334 5J20009MB ●	82 334 5J10009MB ●
7.2 rpm	100	82 334 5A207.2MB ●	82 334 5A107.2MB ●	82 334 5J207.2MB ●	82 334 5J107.2MB ●
6 rpm	120	82 334 5A20006MB ●	82 334 5A10006MB ●	82 334 5J20006MB ●	82 334 5J10006MB ●
4.8 rpm	150	82 334 5A204.8MB ●	82 334 5A104.8MB ●	82 334 5J204.8MB ●	82 334 5J104.8MB ●
3.6 rpm	200	82 334 5A203.6MB ●	82 334 5A103.6MB ●	82 334 5J203.6MB ●	82 334 5J103.6MB ●
3 rpm	240	82 334 5A20003MB ●	82 334 5A10003MB ●	82 334 5J20003MB ●	82 334 5J10003MB ●
2.4 rpm	300	82 334 5A202.4MB ●	82 334 5A102.4MB ●	82 334 5J202.4MB ●	82 334 5J102.4MB ●
1.2 rpm	600	82 334 5A201.2MB ●	82 334 5A101.2MB ●	82 334 5J201.2MB ●	82 334 5J101.2MB ●
1 rpm	750	82 334 5A20001MB ●	82 334 5A10001MB ●	82 334 5J20001MB ●	82 334 5J10001MB ●
0.6 rpm	1,200	82 334 5A200.6MB ●	82 334 5A100.6MB ●	82 334 5J200.6MB ●	82 334 5J100.6MB ●
0.4 rpm	1,800	82 334 5A200.4MB ●	82 334 5A100.4MB ●	82 334 5J200.4MB ●	82 334 5J100.4MB ●
0.3 rpm	2,400	82 334 5A200.3MB ●	82 334 5A100.3MB ●	82 334 5J200.3MB ●	82 334 5J100.3MB ●
0.24 rpm	3,000	82 334 5A20.24MB ●	82 334 5A10.24MB ●	82 334 5J20.24MB ●	82 334 5J10.24MB ●
0.12 rpm	6,000	82 334 5A20.12MB ●	82 334 5A10.12MB ●	82 334 5J20.12MB ●	82 334 5J10.12MB ●
6.00 rph	7,200	82 334 5A20006HB ●	82 334 5A10006HB ●	82 334 5J20006HB ●	82 334 5J10006HB ●
4.80 rph	9,000	82 334 5A204.8HB ●	82 334 5A104.8HB ●	82 334 5J204.8HB ●	82 334 5J104.8HB ●
3.60 rph	12,000	82 334 5A203.6HB ●	82 334 5A103.6HB ●	82 334 5J203.6HB ●	82 334 5J103.6HB ●
3.00 rph	14,400	82 334 5A20003HB ●	82 334 5A10003HB ●	82 334 5J20003HB ●	82 334 5J10003HB ●
1.20 rph	36,000	82 334 5A2001.2HB ●	82 334 5A1001.2HB ●	82 334 5J2001.2HB ●	82 334 5J1001.2HB ●
0.60 rph	72,000	82 334 5A200.6HB ●	82 334 5A100.6HB ●	82 334 5J200.6HB ●	82 334 5J100.6HB ●
1/10 rph	432,000	82 334 5A200.1HB ●	82 334 5A100.1HB ●	82 334 5J200.1HB ●	82 334 5J100.1HB ●
1/20 rph	864,000	82 334 5A20.05HB ●	82 334 5A10.05HB ●	82 334 5J20.05HB ●	82 334 5J10.05HB ●
General characteristics					
Motor		82 330 5	82 330 5	82 330 5	82 330 5
Gearbox		81 021 0	81 021 0	81 021 0	81 021 0
Maximum permitted torque from gearmotor under continuous conditions for 1 millions turns of the gearmotor Nm		0.5	0.5	0.5	0.5
Axial load (static) daN	1		1		1
Radial load (static) daN	8		8		8
Absorbed power (W)	3.5		3.5		3.5
Motor output (W)	0.42		0.42		0.42
Maximum temperature rise (°C)	55		55		55
Ambient temperature (°C)	-5 → +60		-5 → +60		-5 → +60
Weight (g)	210		210		210
Wires length mm (approximately)	250		250		250
Protection rating	IP40		IP40		IP40

Products and specifications subject to change without notice.

Order/Technical Support - Tel: (800) 677-5311 / FAX: (800) 677-3865 / www.crouzet-usa.com

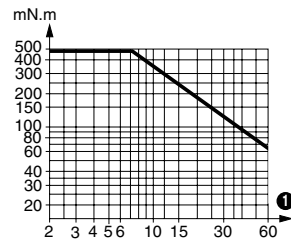
Products adaptations, available on request



- Special supply voltages
- Special cable lengths
- Special connectors
- Special output shafts
- Special gearbox ratios
- Special gear material
- Special output bearings
- Special mounting plate

Curves

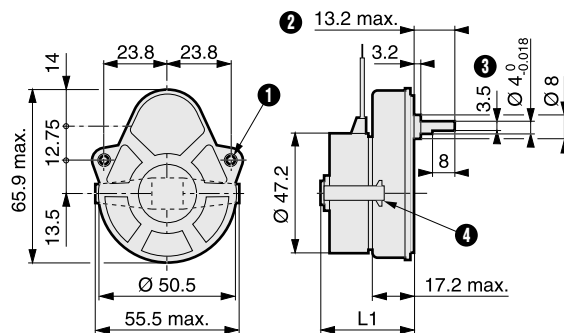
Graph of torque versus speed 82 334 5



B RPM

Dimensions

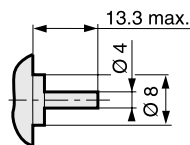
82 334 5



- B 2 fixing holes Ø 3.2
C (pushed-in shaft)
D 3.5 across flat
E Fixing clip

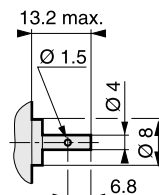
Options

Shaft 79 200 967



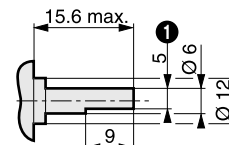
B (pushed-in shaft ←)

Shaft 79 200 779



B (pushed-in shaft ←)

Shaft 70 999 421 SP1295-10



B Across flat

Other information

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.

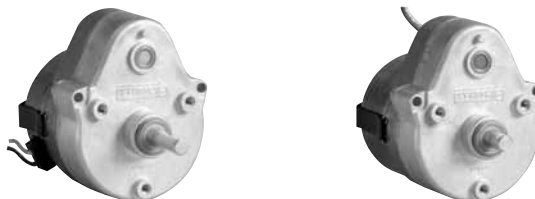
Products and specifications subject to change without notice.

Order/Technical Support - Tel: (800) 677-5311 / FAX: (800) 677-3865 / www.crouzet-usa.com

Single direction synchronous geared motors

→ 2 Nm 3 and 3.5 Watts

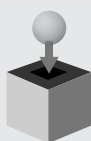
- Mechanical strength : 2 Nm
- Constant speed, dependent on supply frequency
- Wide range of speeds available
- Direction of rotation controlled by long-life mechanical anti-return
- Permanent magnet rotor
- Silent operation
- UL, CSA, VDE approved, comply with IEC standards



Specifications

		3 Watts		3.5 Watts	
Type		82 304 0		82 305 5	
Voltage / Frequency		115 V - 60 Hz		115 V - 60 Hz	
Output speed	Ratios	Counter-Clockwise	Clockwise	Counter-Clockwise	Clockwise
38.4 rpm	18.75	82 304 0A238.4MX ●	82 304 0A138.4MX ●	82 305 5A238.4MX ●	82 305 5A138.4MX ●
28.8 rpm	25	82 304 0A228.8MX ●	82 304 0A128.8MX ●	82 305 5A228.8MX ●	82 305 5A128.8MX ●
18 rpm	40	82 304 0A20018MX ●	82 304 0A10018MX ●	82 305 5A20018MX ●	82 305 5A10018MX ●
14.4 rpm	50	82 304 0A214.4MX ●	82 304 0A114.4MX ●	82 305 5A214.4MX ●	82 305 5A114.4MX ●
12 rpm	60	82 304 0A20012MX ●	82 304 0A10012MX ●	82 305 5A20012MX ●	82 305 5A10012MX ●
9 rpm	80	82 304 0A20009MX ●	82 304 0A10009MX ●	82 305 5A20009MX ●	82 305 5A10009MX ●
7.2 rpm	100	82 304 0A207.2MX ●	82 304 0A107.2MX ●	82 305 5A207.2MX ●	82 305 5A107.2MX ●
6 rpm	120	82 304 0A20006MX ●	82 304 0A10006MX ●	82 305 5A20006MX ●	82 305 5A10006MX ●
4.5 rpm	160	82 304 0A204.5MX ●	82 304 0A104.5MX ●	82 305 5A204.5MX ●	82 305 5A104.5MX ●
2.88 rpm	250	82 304 0A22.88MX ●	82 304 0A12.88MX ●	82 305 5A22.88MX ●	82 305 5A12.88MX ●
2.4 rpm	300	82 304 0A202.4MX ●	82 304 0A102.4MX ●	82 305 5A202.4MX ●	82 305 5A102.4MX ●
1.33 rpm	540	82 304 0A21.33MX ●	82 304 0A11.33MX ●	82 305 5A21.33MX ●	82 305 5A11.33MX ●
1.2 rpm	600	82 304 0A201.2MX ●	82 304 0A101.2MX ●	82 305 5A201.2MX ●	82 305 5A101.2MX ●
0.86 rpm	800	82 304 0A20.86MX ●	82 304 0A10.86MX ●	82 305 5A20.86MX ●	82 305 5A10.86MX ●
0.67 rpm	1,080	82 304 0A20.67MX ●	82 304 0A10.67MX ●	82 305 5A20.67MX ●	82 305 5A10.67MX ●
0.48 rpm	1,500	82 304 0A20.48MX ●	82 304 0A10.48MX ●	82 305 5A20.48MX ●	82 305 5A10.48MX ●
0.24 rpm	3,000	82 304 0A20.24MX ●	82 304 0A10.24MX ●	82 305 5A20.24MX ●	82 305 5A10.24MX ●
0.15 rpm	4,800	82 304 0A20.15MX ●	82 304 0A10.15MX ●	82 305 5A20.15MX ●	82 305 5A10.15MX ●
0.12 rpm	6,000	82 304 0A20.12MX ●	82 304 0A10.12MX ●	82 305 5A20.12MX ●	82 305 5A10.12MX ●
8/5 rph	27,000	82 304 0A201.6HX ●	82 304 0A101.6HX ●	82 305 5A201.6HX ●	82 305 5A101.6HX ●
4/5 rph	54,000	82 304 0A200.8HX ●	82 304 0A100.8HX ●	82 305 5A200.8HX ●	82 305 5A100.8HX ●
6/25 rph	180,000	82 304 0A20.24HX ●	82 304 0A10.24HX ●	82 305 5A20.24HX ●	82 305 5A10.24HX ●
General characteristics					
Motor		82 340 0		82 330 5	
Gearbox		81 033 0		81 033 0	
Maximum permitted torque from gearmotor under continuous conditions for 1 millions turns of the gearmotor (N.m)		2		2	
Radial load (static) daN		1		1	
Axial load (static) daN		10		10	
Absorbed power (W)		3		3.5	
Motor output (W)		0.16		0.42	
Maximum temperature rise (°C)		55		55	
Ambient temperature (°C)		-50 → +60		-50 → +60	
Weight (g)		250		300	
Wires length mm (approximately)		250		250	
Protection rating		IP40		IP40	

Products adaptations, available on request



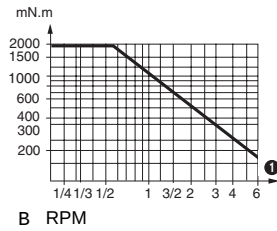
- Special supply voltages
- Special lead lengths
- Special connectors
- Special output shafts
- Special gearbox ratios
- Special gear material
- Special output bearings
- Special mounting plate

Products and specifications subject to change without notice.

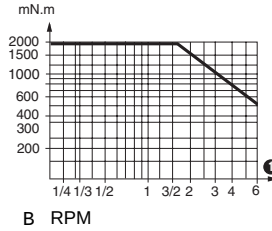
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Curves

Graph of torque versus speed 82 304 0

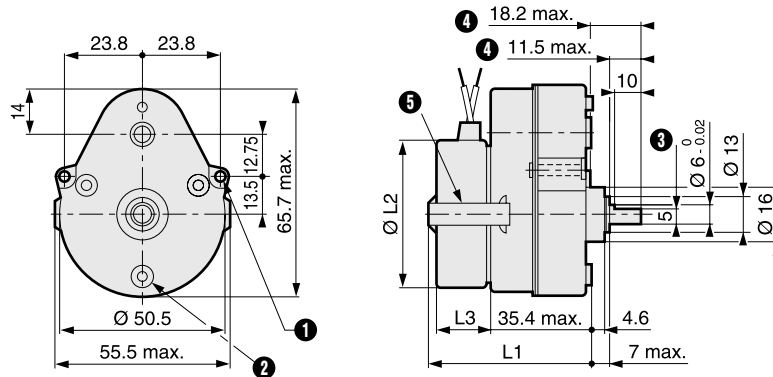


Graph of torque versus speed 82 305 0



Dimensions

82 304 0 - 82 305 5

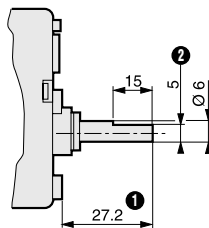


- B 2 fixing holes Ø 3.2
 C 3 mounting bosses Ø 7.2 at 120° on radius = 19.5 with 3 holes M3 depth 4
 D across flat
 E (pushed-in shaft ←)
 F fixing clip

82 304 0 L1 = 54.8 mm max. / Ø L2 = 47.2 mm max. / L3 = 16.9 mm max.
 82 305 5 L1 = 59.85 mm max. / Ø L2 = 47.2 mm max. / L3 = 22.9 mm max.

Options

Shaft 79 202 573



- B 5 across flat
 C (pushed-in shaft ←)

Other information

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.

Products and specifications subject to change without notice.

Order/Technical Support - Tel: (800) 677-5311 / FAX: (800) 677-3865 / www.crouzet-usa.com

Single direction synchronous geared motors

→ 3 Nm 3.5 Watts

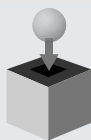
- Mechanical strength : 3 Nm
- Constant speed, dependent on supply frequency
- Wide range of speeds available
- Direction of rotation controlled by long-life mechanical
- Permanent magnet rotor
- UL, CSA, VDE approved, comply with IEC standards



Specifications

		3.5 Watts	3.5 Watts
Type		80 333 5	80 333 5
Base speed of motor (rpm)		720	720
Voltage / Frequency		115 V - 60 Hz	115 V - 60 Hz
Direction of Rotation		Clockwise	Counter-clockwise
Output speed (rpm)	Ratios (i)		
34.6	20.83	80 333 5A134.6MZ ●	80 333 5A234.6MZ ●
17.3	41.66	80 333 5A117.3MZ ●	80 333 5A217.3MZ ●
8.64	83.33	80 333 5A18.64MZ ●	80 333 5A28.64MZ ●
4.8	150	80 333 5A104.8MZ ●	80 333 5A204.8MZ ●
3.84	187.5	80 333 5A13.84MZ ●	80 333 5A23.84MZ ●
2.4	300	80 333 5A102.4MZ ●	80 333 5A202.4MZ ●
1.92	375	80 333 5A101.6MZ ●	80 333 5A201.6MZ ●
1.2	600	80 333 5A11.92MZ ●	80 333 5A21.92MZ ●
0.96	750	80 333 5A10.96MZ ●	80 333 5A20.96MZ ●
0.6	1,200	80 333 5A100.6MZ ●	80 333 5A200.6MZ ●
0.32	2,250	80 333 5A10.32MZ ●	80 333 5A20.32MZ ●
0.3	2,400	80 333 5A100.3MZ ●	80 333 5A200.3MZ ●
0.2	3,600	80 333 5A100.2MZ ●	80 333 5A200.2MZ ●
General characteristics			
Motor		82 330 5	82 330 5
Gearbox		81 023	81 023
Maximum permitted continuous rated gearbox output torque for 1 million revolutions of gearbox output shaft Nm		3	3
Axial load (static) daN		2	2
Radial load (static) daN		3	3
Absorbed power (W)		3.5	3.5
Motor output (W)		0.42	0.42
Maximum temperature rise (°C)		55	55
Ambient temperature (°C)		-5 → +60	-5 → +60
Weight (g)		440	440
Wires length mm (approximately)		250	250
Protection rating		IP00	IP00

Products adaptations, available on request



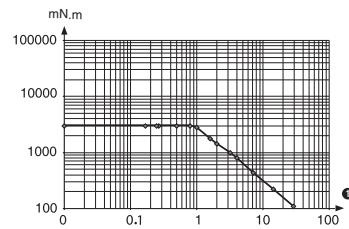
- Special supply voltages
- Special cable lengths
- Special connectors
- Special output shafts
- Special gearbox ratios
- Special gear material
- Special output bearings
- Special mounting plate

Products and specifications subject to change without notice.

Order/Technical Support - Tel: (800) 677-5311 / FAX: (800) 677-3865 / www.crouzet-usa.com

Curves

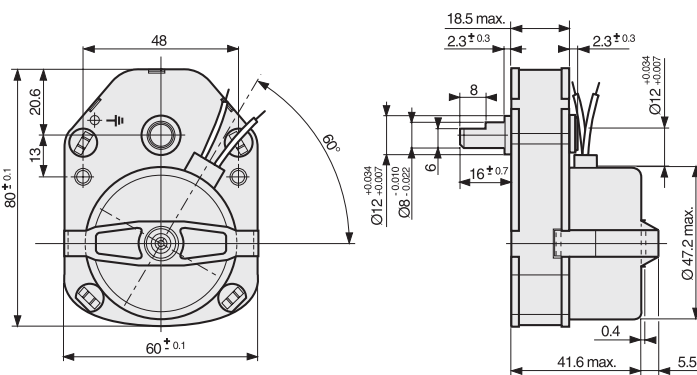
Graph of torque versus speed 80 333 5



B RPM

Dimensions

80 333 5



B 2 fixing holes Ø 4.1 max.

Other information

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.

Products and specifications subject to change without notice.

Order/Technical Support - Tel: (800) 677-5311 / FAX: (800) 677-3865 / www.crouzet-usa.com

Single direction synchronous geared motors

→ 5 Nm 3.5 Watts

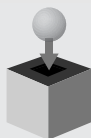
- Mechanical strength : 5 Nm
- Constant speed, dependent on supply frequency
- Speeds from 0.24 rpm to 24 rpm
- Direction of rotation controlled by long-life mechanical anti-return
- Permanent magnet rotor
- UL, CSA, VDE approved, comply with IEC standards



Specifications

			3.5 Watts		3.5 Watts	
Type			80 337 5		80 337 5	
Voltage / Frequency			115 V - 60 Hz		220 V - 60 Hz	
Direction of rotation	Output Speed (RPM)	Ratios				
Counter-clockwise	28.8	25	80 337 5A228.8MZ	●	80 337 5J228.8MZ	●
Counter-clockwise	17.3	41.66	80 337 5A217.7MZ	●	80 337 5J217.7MZ	●
Counter-clockwise	11.5	62.5	80 337 5A211.5MZ	●	80 337 5J211.5MZ	●
Counter-clockwise	8.64	83.33	80 337 5A28.64MZ	●	80 337 5J28.64MZ	●
Counter-clockwise	5.76	125	80 337 5A25.76MZ	●	80 337 5J25.76MZ	●
Counter-clockwise	2.88	250	80 337 5A22.88MZ	●	80 337 5J22.88MZ	●
Counter-clockwise	1.44	500	80 337 5A21.44MZ	●	80 337 5J21.44MZ	●
Counter-clockwise	0.96	750	80 337 5A20.96MZ	●	80 337 5J20.96MZ	●
Counter-clockwise	0.03	2500	80 337 5A20.03MZ	●	80 337 5J20.03MZ	●
Clockwise	28.8	25	80 337 5A128.8MZ	●	80 337 5J128.8MZ	●
Clockwise	17.3	41.66	80 337 5A117.7MZ	●	80 337 5J117.7MZ	●
Clockwise	11.5	62.5	80 337 5A111.5MZ	●	80 337 5J111.5MZ	●
Clockwise	8.64	83.33	80 337 5A18.64MZ	●	80 337 5J18.64MZ	●
Clockwise	5.76	125	80 337 5A15.76MZ	●	80 337 5J15.76MZ	●
Clockwise	2.88	250	80 337 5A12.88MZ	●	80 337 5J12.88MZ	●
Clockwise	1.44	500	80 337 5A11.44MZ	●	80 337 5J11.44MZ	●
Clockwise	0.96	750	80 337 5A10.96MZ	●	80 337 5J10.96MZ	●
Clockwise	0.03	2500	80 337 5A10.03MZ	●	80 337 5J10.03MZ	●
General characteristics						
Motor			82 330 5		82 330 5	
Gearbox			81 037 0		81 037 0	
Maximum permitted continuous-rated gearbox output torque over 1 million revolutions (N.m)			5		5	
Radial load static (daN)			2		2	
Axial load static (daN)			3		3	
Absorbed power (W)			3.5		3.5	
Motor output (W)			0.42		0.42	
Maximum temperature rise (°C)			55		55	
Ambient temperature (°C)			-5 → +60		-5 → +60	
Weight (g)			480		480	
Wires length mm (approximately)			250		250	
Protection rating			IP40		IP40	

Products adaptations, available on request



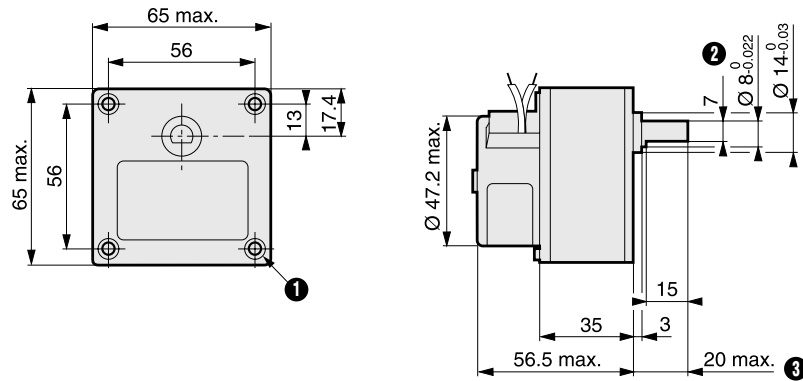
- Special supply voltages
- Special lead lengths
- Special connectors
- Special output shafts
- Special gearbox ratios
- Special gear material
- Special output bearings
- Special mounting plate

Products and specifications subject to change without notice.

Order/Technical Support - Tel: (800) 677-5311 / FAX: (800) 677-3865 / www.crouzet-usa.com

Dimensions

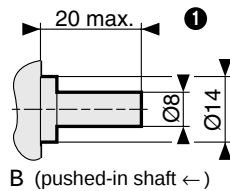
80 337 5



- B 4 holes M4 depth 12 mm
- C 7 across flat
- D pushed-in shaft

Options

Shaft 79 206 478



Other information

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.

Products and specifications subject to change without notice.

Order/Technical Support - Tel: (800) 677-5311 / FAX: (800) 677-3865 / www.crouzet-usa.com

Reversible synchronous geared motors

→ 0.5 Nm 2.7 and 4.2 Watts

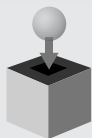
- Mechanical strength : 0.5 Nm
- Constant speed, dependent on supply frequency
- Wide range of speeds available
- Direction of rotation controlled by dephasing capacitor
- Permanent magnet rotor
- UL, CSA, VDE approved, comply with IEC standards.



Specifications

			2.7 Watts	4.2 Watts
Type			82 514 3	82 514 8
Standard motor speed (rpm)			300	600
Voltage / Frequency			115 V - 60 Hz	115 V - 60 Hz
Output speed (250 RPM)	Output speed (600 RPM)	Ratios		
25.00 tr/min	50.00 tr/min	12	82 514 3A40025MB ●	82 514 3A40050MB ●
20.00 tr/min	40.00 tr/min	15	82 514 3A40020MB ●	82 514 3A40040MB ●
12.50 tr/min	25.00 tr/min	24	82 514 3A412.5MB ●	82 514 3A40025MB ●
10.00 tr/min	20.00 tr/min	30	82 514 3A40010MB ●	82 514 3A40020MB ●
5.00 tr/min	10.00 tr/min	60	82 514 3A40005MB ●	82 514 3A40010MB ●
4.00 tr/min	8.00 tr/min	75	82 514 3A40004MB ●	82 514 3A40008MB ●
2.50 tr/min	5.00 tr/min	120	82 514 3A402.5MB ●	82 514 3A40005MB ●
2.00 tr/min	4.00 tr/min	150	82 514 3A40002MB ●	82 514 3A40004MB ●
1.25 tr/min	2.50 tr/min	240	82 514 3A41.25MB ●	82 514 3A402.5MB ●
1.00 tr/min	2.00 tr/min	300	82 514 3A40001MB ●	82 514 3A40002MB ●
0.50 tr/min	1.00 tr/min	600	82 514 3A400.5MB ●	82 514 3A40001MB ●
General characteristics				
Motor			82 510 0	82 510 5
Gearbox			81 021 0	81 021 0
Base speed of motor (rpm)			300	600
Maximum permitted continuous rated gearbox output torque for 1 million revolutions of gearbox output shaft Nm			0.5	0.5
Axial load (static) daN			1	1
Radial load (static) daN			8	8
Absorbed power (W)			2.7	4.2
Motor output (W)			0.31	0.52
Maximum temperature rise (°C)			50	60
Ambient temperature (°C)			-5 → +70	-5 → +60
Weight (g)			140	140
Wires length mm (approximately)			250	250
Protection rating			IP40	IP40

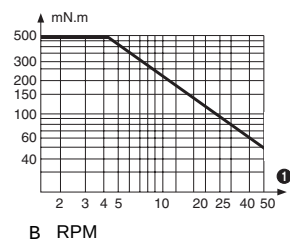
Products adaptations, available on request



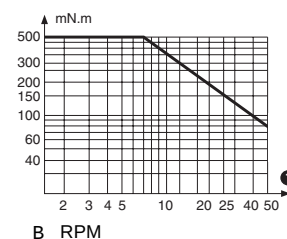
- Special supply voltages
- Special lead lengths
- Special connectors
- Special output shafts
- Special gearbox ratios
- Special gear material
- Special output bearings
- Special mounting plate

Curves

Graph of torque versus speed 82 514 0



Graph of torque versus speed 82 514 5



Products and specifications subject to change without notice.

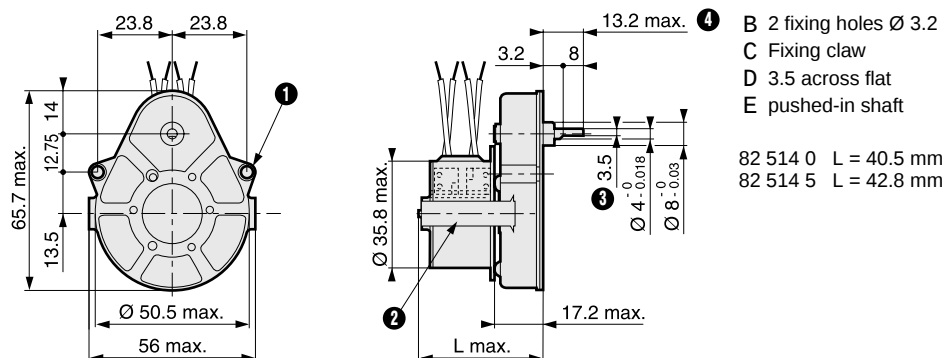
Order/Technical Support - Tel: (800) 677-5311 / FAX: (800) 677-3865 / www.crouzet-usa.com

Accessories

Voltages/Frequencies	μF	V	Code
Capacitors motor 82 514 0			
230-240 V - 50 Hz	$0.33 \pm 10 \%$	400	26 231 801
115 V - 50/60 Hz	$0.27 \pm 10 \%$	250	26 231 851
24 V - 50 Hz	$8.2 \pm 10 \%$	70	26 231 711
24 V - 60 Hz	$6.8 \pm 10 \%$	63	26 231 708
Capacitors motor 82 514 5			
230-240 V 50/60 Hz	$0.39 \pm 10 \%$	630	21 231 924
115 V 50/60 Hz	$0.39 \pm 10 \%$	630	26 231 924
24 V 50/60 Hz	$8.2 \pm 10 \%$	70	26 231 711

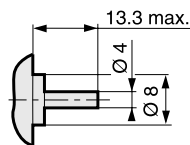
Dimensions

82 514 0 - 82 514 5



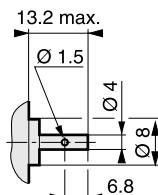
Options

Shaft 79 200 967



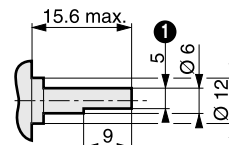
B (pushed-in shaft ←)

Shaft 79 200 779



B (pushed-in shaft ←)

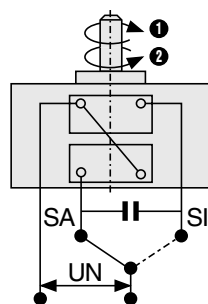
Shaft 70 999 421 SP1295-10



B 5 across flat

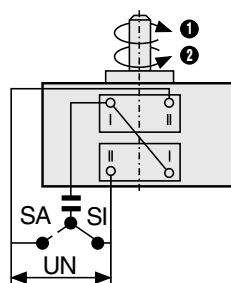
Connections

In parallel
Motors 82 510 0 - 82 510 5



B SA : Clockwise
C SI : Counter-clockwise

In series
Motors 82 510 0 and 82 510 5
only 230 V - 240 V 50 Hz version



B SA : Clockwise
C SI : Counter-clockwise

Other information

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.

Products and specifications subject to change without notice.

Order/Technical Support - Tel: (800) 677-5311 / FAX: (800) 677-3865 / www.crouzet-usa.com

Reversible synchronous geared motors

→ 0.5 Nm 3.5 Watts

- Mechanical strength : 0.5 Nm
- Constant speed, dependent on supply frequency
- Wide range of speeds available
- Direction of rotation controlled by dephasing capacitor
- Permanent magnet rotor
- UL, CSA, VDE approved, comply with IEC standards



Specifications

			3.5 Watts		3.5 Watts	
Type			82 524 0		82 524 4	
Base speed of motor (rpm)			300		450	
Voltage / Frequency			115 V - 60 Hz		115 V - 60 Hz	
Output speed (250 RPM)	Output speed (375 RPM)	Ratios (i)				
25.00 tr/min	37.50 tr/min	12	82 524 0A40025MB	●	82 524 4A437.5MB	●
20.00 tr/min	30.00 tr/min	15	82 524 0A40020MB	●	82 524 4A40030MB	●
13.33 tr/min	20.00 tr/min	20	82 524 0A413.33MB	●	82 524 4A422.5MB	●
12.50 tr/min	18.75 tr/min	25	82 524 0A412.5MB	●	82 524 4A40018MB	●
10.00 tr/min	15.00 tr/min	30	82 524 0A40010MB	●	82 524 4A40015MB	●
5.00 tr/min	7.50 tr/min	60	82 524 0A40005MB	●	82 524 4A407.5MB	●
4.00 tr/min	6.00 tr/min	75	82 524 0A40004MB	●	82 524 4A40006MB	●
2.50 tr/min	3.75 tr/min	120	82 524 0A402.5MB	●	82 524 4A43.75MB	●
2.00 tr/min	3.00 tr/min	150	82 524 0A40002MB	●	82 524 4A40003MB	●
1.00 tr/min	1.50 tr/min	300	82 524 0A40001MB	●	82 524 4A401.5MB	●
0.33 tr/min	0.50 tr/min	900	82 524 0A40.33MB	●	82 524 4A400.5MB	●
General characteristics						
Motor			82 520 0		82 520 4	
Gearbox			81 021 0		81 021 0	
Maximum permitted continuous rated gearbox output torque for 1 million revolutions of gearbox output shaft Nm			0.5		0.5	
Axial load (static) daN			1		1	
Radial load (static) daN			8		8	
Absorbed power (W)			3.5		3.5	
Motor output (W)			0.98		1.12	
Maximum temperature rise (°C)			50		50	
Ambient temperature (°C)			-5 → +70		-5 → +70	
Weight (g)			140		140	
Wires length mm (approximately)			250		250	
Protection rating			IP40		IP40	

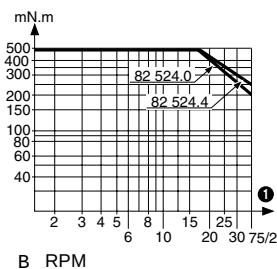
Products adaptations, available on request



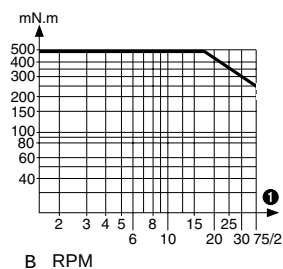
- Special supply voltages
- Special cable lengths
- Special connectors
- Special output shafts
- Special gearbox ratios
- Special gear material
- Special output bearings
- Special mounting plate

Curves

Torque/speed curves 82 524 0



Torque/speed curves 82 524 4



Products and specifications subject to change without notice.

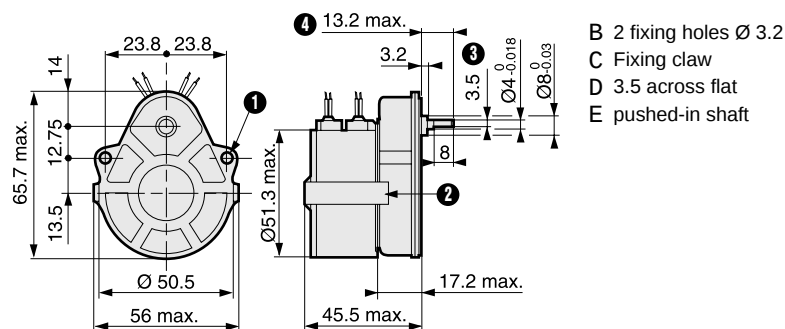
Order/Technical Support - Tel: (800) 677-5311 / FAX: (800) 677-3865 / www.crouzet-usa.com

Accessories

Voltages/Frequencies	μF	V	Code
Capacitors for motor 82 524 0			
230-240 V - 50 Hz	$0.10 \pm 10 \%$	700	26 231 941
115 V 60 Hz	$0.33 \pm 10 \%$	400	26 231 801
24 V - 50 Hz	$8.2 \pm 10 \%$	70	26 231 711
Capacitors motor 82 524 4			
230/240 V - 50 Hz	$0.12 \pm 10 \%$	600	26 231 903
115 V 60 Hz	$0.39 \pm 5 \%$	630	26 231 924
24 V - 50 Hz	$15 \pm 5 \%$	70	26 231 728
24 V - 60 Hz	$12 \pm 5 \%$	63	26 231 145

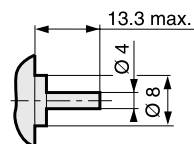
Dimensions

82 524 0 - 82 524 4



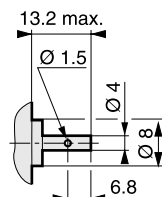
Options

Shaft 79 200 967



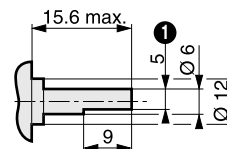
B (pushed-in shaft ←)

Shaft 79 200 779



B (pushed-in shaft ←)

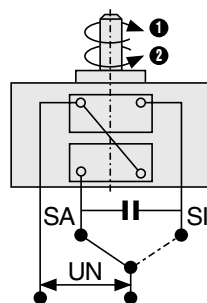
Shaft 70 999 421 SP1295-10



B 5 across flat

Connections

In parallel
Motors 82 520 0 - 82 520 4



B SA : Clockwise

C SI : Counter-clockwise

Other information

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.

Products and specifications subject to change without notice.

Order/Technical Support - Tel: (800) 677-5311 / FAX: (800) 677-3865 / www.crouzet-usa.com

Reversible synchronous geared motors

→ 2 Nm 3.5 Watts

- Mechanical strength : 2 Nm
- Constant speed, dependent on supply frequency
- Wide range of speeds available
- Direction of rotation controlled by dephasing capacitor
- Permanent magnet rotor
- UL, CSA, VDE approved, comply with IEC standards



Specifications

			3.5 Watts	3.5 watts
Type			82 529 0	82 529 4
Voltage / Frequency			115 V - 60 Hz	115 V - 60 Hz
Base speed of motor (rpm)			300	450
Output speed (300 RPM)	Output speed (450 RPM)	Ratios (i)		
12.00 tr/min	18.00 tr/min	25	82 529 0A40012MB ●	82 529 0A40018MB ●
6.00 tr/min	9.00 tr/min	50	82 529 0A40006MB ●	82 529 0A40009MB ●
4.80 tr/min	7.20 tr/min	125/2	82 529 0A404.8MB ●	82 529 0A407.2MB ●
3.00 tr/min	4.50 tr/min	100	82 529 0A40003MB ●	82 529 0A404.5MB ●
1.00 tr/min	1.50 tr/min	250	82 529 0A40001MB ●	82 529 0A401.5MB ●
0.50 tr/min	0.75 tr/min	500	82 529 0A400.5MB ●	82 529 0A40.75MB ●
0.33 tr/min	0.50 tr/min	750	82 529 0A40.33MB ●	82 529 0A400.5MB ●
0.10 tr/min	0.15 tr/min	3000	82 529 0A400.1MB ●	82 529 0A40.15MB ●
General characteristics				
Motor			82 520 0	82 520 4
Gearbox			81 033 0	81 033 0
Maximum permitted continuous rated gearbox output torque for 1 million revolutions of gearbox output shaft Nm			2.0	2.0
Axial load (static) daN			1	1
Radial load (static) daN			10	10
Absorbed power (W)			3.5	3.5
Motor output (W)			0.98	1.12
Maximum temperature rise (°C)			50	50
Ambient temperature (°C)			-5 → +70	-5 → +70
Weight (g)			260	350
Wires length mm (approximately)			250	250
Protection rating			IP40	IP40

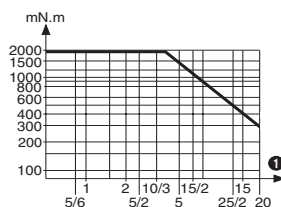
Products adaptations, available on request



- Special supply voltages
- Special lead lengths
- Special connectors
- Special output shafts
- Special gearbox ratios
- Special gear material
- Special output bearings
- Special mounting plate

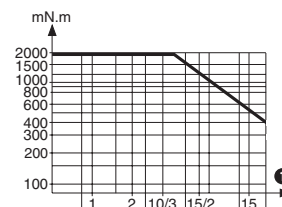
Curves

Torque/speed curves 82 529 0



B RPM

Torque/speed curves 82 529 4



B RPM

Products and specifications subject to change without notice.

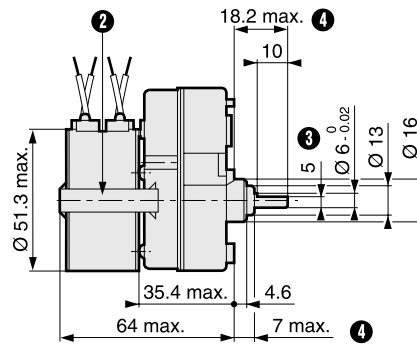
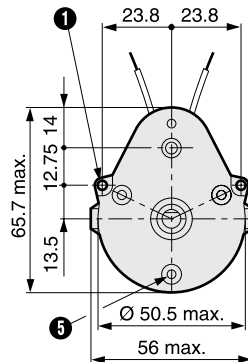
Order/Technical Support - Tel: (800) 677-5311 / FAX: (800) 677-3865 / www.crouzet-usa.com

Accessories

Voltages/Frequencies	μF	V	Code
Capacitors for motor 82 520 0			
230-240 V - 50 Hz	$0.10 \pm 10 \%$	700	26 231 941
115 V - 60 Hz	$0.33 \pm 10 \%$	400	26 231 801
24 V - 50 Hz	$8.2 \pm 10 \%$	70	26 231 711
Capacitors for motor 82 520 4			
230/240 V - 50 Hz	$0.12 \pm 10 \%$	600	26 231 903
115 V - 60 Hz	$0.39 \pm 5 \%$	630	26 231 924
24 V - 50 Hz	$15 \pm 5 \%$	70	26 231 728
24 V - 60 Hz	$12 \pm 5 \%$	63	26 231 145

Dimensions

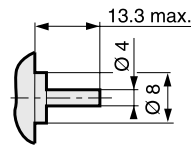
82 529 0 - 82 529 4



- B 2 fixing holes $\varnothing 3.2$
- C Fixing claw
- D 5 across flat
- E (pushed-in shaft $\leftarrow$)
- F 3 mounting bosses $\varnothing 7.2$ at 120° on radius= 19.5 - 3 holes M3 depth 4

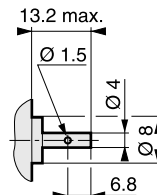
Options

Shaft 79 200 967



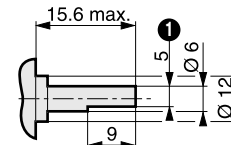
B (pushed-in shaft $\leftarrow$)

Shaft 79 200 779



B (pushed-in shaft $\leftarrow$)

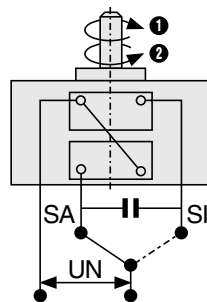
Shaft 70 999 421- SP1295-10



B 5 across flat

Connections

In parallel
Motors 82 520 0 - 82 520 4



- B SA : Clockwise
- C SI : Counter-clockwise

Other information

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.

Products and specifications subject to change without notice.

Order/Technical Support - Tel: (800) 677-5311 / FAX: (800) 677-3865 / www.crouzet-usa.com

Reversible synchronous geared motors

→ 2 Nm 2.7 and 4.2 Watts

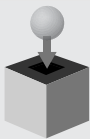
- Mechanical strength : 2 Nm
- Constant speed, dependent on supply frequency
- Wide range of speeds available
- Direction of rotation controlled by dephasing capacitor
- Permanent magnet rotor
- UL, CSA, VDE approved, comply with IEC standards.



Specifications

			2.7 Watts	4.2 Watts
Type			82 519 3	82 519 8
Voltage / Frequency			115 V - 60 Hz	115 V - 60 Hz
Base speed of motor (rpm)			300	600
Output speed (300 RPM)	Output speed (600 RPM)	Ratios (i)		
12.00 tr/min	24.00 tr/min	25	82 519 3A40012MB ●	82 519 8A40024MB ●
6.00 tr/min	12.00 tr/min	50	82 519 3A40006MB ●	82 519 8A40012MB ●
4.80 tr/min	9.60 tr/min	125/2	82 519 3A404.8MB ●	82 519 8A409.6MB ●
3.00 tr/min	6.00 tr/min	100	82 519 3A40003MB ●	82 519 8A40006MB ●
1.00 tr/min	2.00 tr/min	125	82 519 3A40001MB ●	82 519 8A40002MB ●
0.50 tr/min	1.00 tr/min	250	82 519 3A400.5MB ●	82 519 8A40001MB ●
0.33 tr/min	0.66 tr/min	500	82 519 3A40.33MB ●	82 519 8A40.66MB ●
0.20 tr/min	0.40 tr/min	750	82 519 3A400.2MB ●	82 519 8A400.4MB ●
0.10 tr/min	0.20 tr/min	1500	82 519 3A400.1MB ●	82 519 8A400.2MB ●
General characteristics				
Motor			82 510 0	82 510 5
Gearbox			81 033 0	81 033 0
Maximum permitted continuous rated gearbox output torque for 1 million revolutions of gearbox output shaft Nm			2.0	2.0
Axial load (static) daN			1	1
Radial load (static) daN			10	10
Absorbed power (W)			2.7	4.2
Motor output (W)			0.31	0.52
Maximum temperature rise (°C)			50	60
Ambient temperature (°C)			-5 → +70	-5 → +60
Weight (g)			230	230
Wires length mm (approximately)			250	250
Protection rating			IP40	IP40

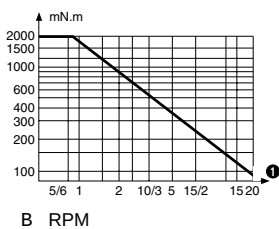
Products adaptations, available on request



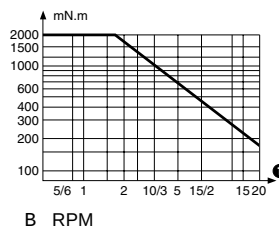
- Special supply voltages
- Special lead lengths
- Special connectors
- Special output shafts
- Special gearbox ratios
- Special gear material
- Special output bearings
- Special mounting plate

Curves

Graph of torque versus speed 82 519 3



Graph of torque versus speed 82 519 8



Products and specifications subject to change without notice.

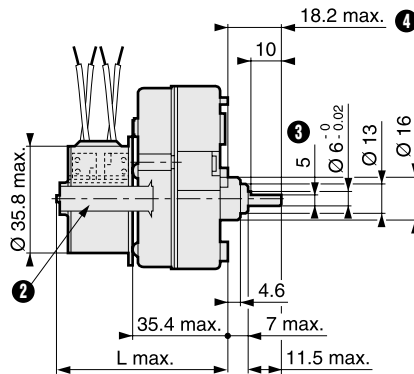
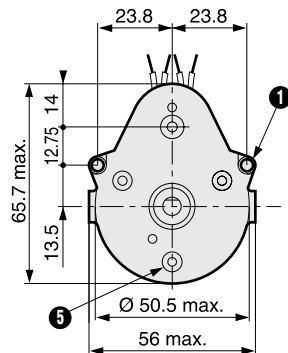
Order/Technical Support - Tel: (800) 677-5311 / FAX: (800) 677-3865 / www.crouzet-usa.com

Accessories

Voltages/Frequencies	μF	V	Code
Capacitors for motor 82 510 0			
230-240 V - 50 Hz	$0.33 \pm 10 \%$	400	26 231 801
115 V - 50/60 Hz	$0.27 \pm 10 \%$	250	26 231 851
24 V - 50 Hz	$8.2 \pm 10 \%$	70	26 231 711
24 V - 60 Hz	$6.8 \pm 10 \%$	63	26 231 708
Capacitors for motor 82 510 5			
230-240 V - 50/60 Hz	$0.39 \pm 10 \%$	630	26 231 924
115 V - 50/60 Hz	$0.39 \pm 50 \%$	630	26 231 924
24 V - 50/60 Hz	$8.2 \pm 10 \%$	70	26 231 711

Dimensions

82 519 0 - 82 519 5



B 2 fixing holes Ø 3.2

C Fixing claw

D 5 across flat

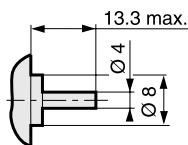
E pushed-in shaft

82 519 0 L = 58.7 mm

82 519 5 L = 61 mm

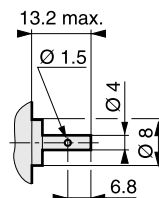
Options

Shaft 79 200 967



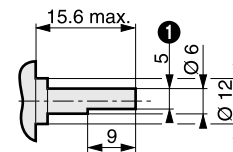
B (pushed-in shaft ←)

Shaft 79 200 779



B (pushed-in shaft ←)

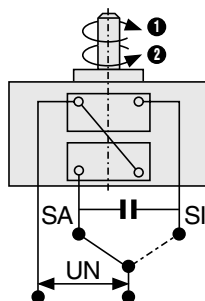
Shaft 79 999 421- SP1295-10



B 5 across flat

Connections

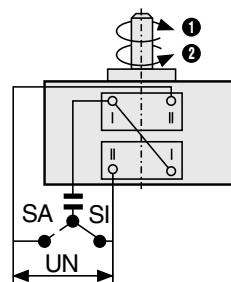
In parallel
Motors 82 510 0 - 82 510 5



B SA : Clockwise

C SI : Counter-clockwise

In series
Motors 82 510 0 and 82 510 5
only 230 V - 240 V 50 Hz version



B SA : Clockwise

C SI : Counter-clockwise

Other information

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.

Products and specifications subject to change without notice.

Order/Technical Support - Tel: (800) 677-5311 / FAX: (800) 677-3865 / www.crouzet-usa.com

Reversible synchronous geared motors

→ 3 Nm 2.7 Watts

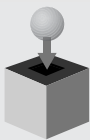
- Mechanical strength : 3 Nm
- Constant speed, dependent on supply frequency
- Direction of rotation controlled by dephasing capacitor
- Permanent magnet rotor
- UL, CSA, VDE approved, comply with IEC standards



Specifications

			2.7 Watts		2.7 Watts	
Type			80 513 3		80 513 8	
Voltages / Frequencies			115 V 60 Hz		115 V 60 Hz	
Base speed of motor (rpm)			300		600	
Output speed (300 RPM)	Output speed (600 RPM)	Ratios (i)				
14.4	28.8	20.83	80 513 3A414.4MZ	●	80 513 8A428.8MZ	●
7.2	14.4	41.66	80 513 3A407.2MZ	●	80 513 8A414.4MZ	●
3.6	7.2	83.33	80 513 3A403.6MZ	●	80 513 8A407.4MZ	●
2	4	150	80 513 3A40002MZ	●	80 513 8A40004MZ	●
1.6	3.2	187.5	80 513 3A401.6MZ	●	80 513 8A403.2MZ	●
1	2	300	80 513 3A40001MZ	●	80 513 8A40002MZ	●
0.8	1.6	375	80 513 3A400.8MZ	●	80 513 8A401.6MZ	●
0.5	1	600	80 513 3A400.5MZ	●	80 513 8A40001MZ	●
0.4	0.8	750	80 513 3A400.4MZ	●	80 513 8A400.8MZ	●
0.25	0.5	1200	80 513 3A40.25MZ	●	80 513 8A400.5MZ	●
8 rph	16 rph	2250	80 513 3A40008HZ	●	80 513 8A40016HZ	●
7.5 rph	15 rph	2400	80 513 3A407.5HZ	●	80 513 8A40015HZ	●
5 rph	10 rph	3600	80 513 3A40005HZ	●	80 513 8A40010HZ	●
General characteristics						
Motor			82 510 0		82 510 5	
Gearbox			81 023 0		81 023 0	
Maximum permitted continuous rated gearbox output torque for 1 million revolutions of gearbox output shaft (Nm)			3		3	
Axial load (static) daN			2		2	
Radial load (static) daN			3		3	
Absorbed power (W)			2.7		3.5	
Motor output (W)			0.31		0.52	
Maximum temperature rise (°C)			55		65	
Ambient temperature (°C)			-10 → +75		-5 → +65	
Weight (g)			370		370	
Wires length mm (approximately)			250		250	
Protection rating			IP00		IP00	

Products adaptations, available on request



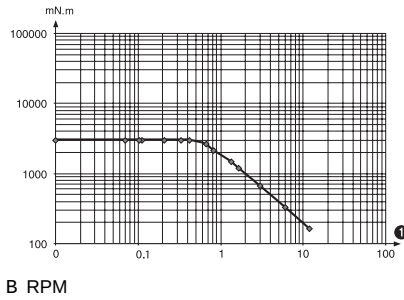
- Special supply voltages
- Special lead lengths
- Special connectors
- Special output shafts
- Special gearbox ratios
- Special gear material
- Special output bearings
- Special mounting plate

Products and specifications subject to change without notice.

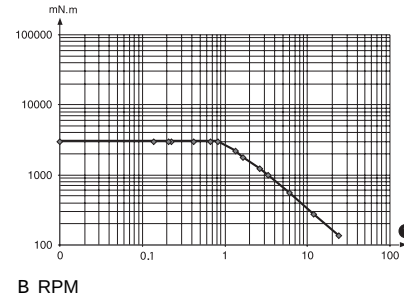
Order/Technical Support - Tel: (800) 677-5311 / FAX: (800) 677-3865 / www.crouzet-usa.com

Curves

Torque / speed curves 80 513 0



Torque / speed curves 80 513 5

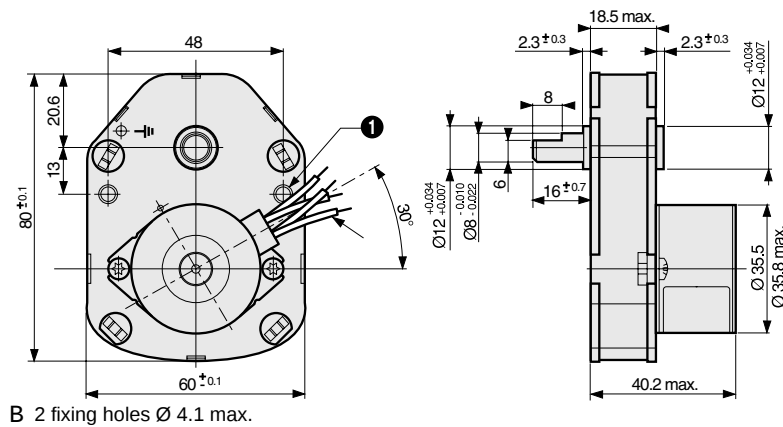


Accessories

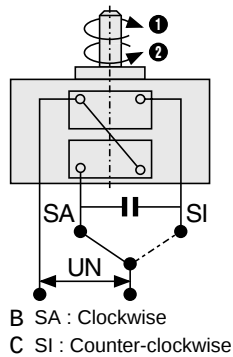
Voltages/Frequencies	μF	V	Code
Capacitors for motor 82 510 0			
230-240 V - 50 Hz	$0.33 \pm 10 \%$	400	26 231 801
115 V - 50/60 Hz	$0.27 \pm 10 \%$	250	26 231 851
24 V - 50 Hz	$8.2 \pm 10 \%$	70	26 231 711
24 V - 60 Hz	$6.8 \pm 10 \%$	63	26 231 708
Capacitors for motor 82 510 5			
230-240 V - 50/60 Hz	$0.39 \pm 10 \%$	630	26 231 924
115 V - 50/60 Hz	$0.39 \pm 10 \%$	630	26 231 924
24 V - 50/60 Hz	$8.2 \pm 10 \%$	70	26 231 711

Dimensions

80 513 0/5



Connections



Other information

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.

Products and specifications subject to change without notice.

Order/Technical Support - Tel: (800) 677-5311 / FAX: (800) 677-3865 / www.crouzet-usa.com

Reversible synchronous geared motors

→ 3 Nm 3.5 Watts

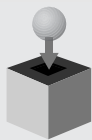
- Mechanical strength : 3 Nm
- Constant speed, dependent on supply frequency
- Direction of rotation controlled by dephasing capacitor
- Permanent magnet rotor
- UL, CSA, VDE approved, comply with IEC standards



Specifications

			3.5 Watts	3.5 Watts
Type			80 523 0	80 533 0
Voltages / Frequencies			115 V 60 Hz	115 V 60 Hz
Base speed of motor (rpm)			300	600
Output speed (300 RPM)	Output speed (600 RPM)	Ratios (i)		
14.4	28.8	20.83	80 523 0A414.4MZ ●	80 533 0A428.8MZ ●
7.2	14.4	41.66	80 523 0A407.2MZ ●	80 533 0A414.4MZ ●
3.6	7.2	83.33	80 523 0A403.6MZ ●	80 533 0A407.4MZ ●
2	4	150	80 523 0A40002MZ ●	80 533 0A40004MZ ●
1.6	3.2	187.5	80 523 0A401.6MZ ●	80 533 0A403.2MZ ●
1	2	300	80 523 0A40001MZ ●	80 533 0A40002MZ ●
0.8	1.6	375	80 523 0A400.8MZ ●	80 533 0A401.6MZ ●
0.5	1	600	80 523 0A400.5MZ ●	80 533 0A40001MZ ●
0.4	0.8	750	80 523 0A400.4MZ ●	80 533 0A400.8MZ ●
0.25	0.5	1200	80 523 0A40.25MZ ●	80 533 0A400.5MZ ●
8 rph	16 rph	2250	80 523 0A40008HZ ●	80 533 0A40016HZ ●
7.5 rph	15 rph	2400	80 523 0A407.5HZ ●	80 533 0A40015HZ ●
5 rph	10 rph	3600	80 523 0A40005HZ ●	80 533 0A40010HZ ●
General characteristics				
Motor			82 520 0	82 530 0
Gearbox			81 023 0	81 023 0
Maximum permitted continuous rated gearbox output torque for 1 million revolutions of gearbox output shaft (Nm)			3	3
Axial load (static) daN			2	2
Radial load (static) daN			3	3
Absorbed power (W)			3.5	3.6
Motor output (W)			0.98	1.37
Maximum temperature rise (°C)			55	45
Ambient temperature (°C)			-10 → +75	-10 → +85
Weight (g)			490	620
Wires length mm (approximately)			250	250
Protection rating			IP00	IP00

Products adaptations, available on request



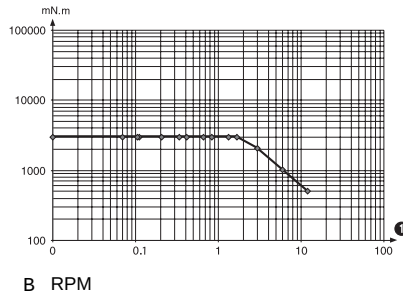
- Special supply voltages
- Special lead lengths
- Special connectors
- Special output shafts
- Special gearbox ratios
- Special gear material
- Special output bearings
- Special mounting plate

Products and specifications subject to change without notice.

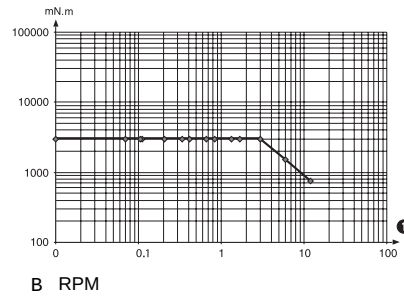
Order/Technical Support - Tel: (800) 677-5311 / FAX: (800) 677-3865 / www.crouzet-usa.com

Curves

Torque / speed curves 80 523 0



Torque / speed curves 80 533 0

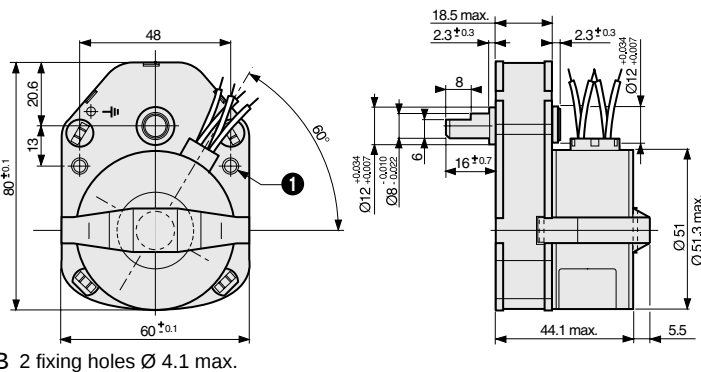


Accessories

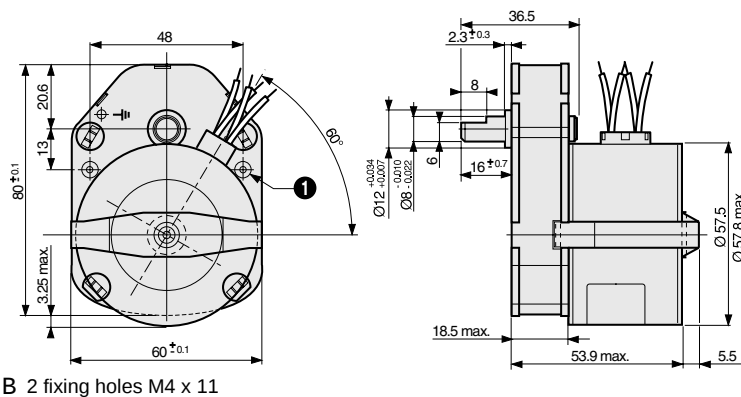
Voltages/Frequencies	μF	V	Code
Capacitors for motor 82 520 0			
230-240 V - 50 Hz	0.10 ± 10 %	700	26 231 941
115 V - 60 HZ	0.33 ± 10 %	400	26 231 801
24 V - 50 Hz	8.2 ± 10 %	70	26 231 711
Capacitors for motor 82 530 0			
230-240 V - 50 Hz	0.10 ± 10 %	700	26 231 941
115 V - 50/60 Hz	0.39 ± 10 %	630	26 231 924
24 V - 50 Hz	10 ± 5 %	100	26 231 720
24 V - 60 Hz	6.8 ± 10 %	63	26 231 708

Dimensions

80 523 0

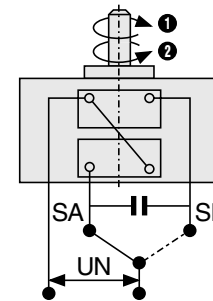


80 533 0



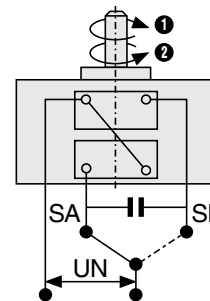
Connections

In parallel
Motors 82 523 0 - 82 533 0



B SA : Clockwise
C SI : Counter-clockwise

In parallel
Motors 82 520 0 - 82 520 4



B SA : Clockwise
C SI : Counter-clockwise

Other information

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.

Products and specifications subject to change without notice.

Order/Technical Support - Tel: (800) 677-5311 / FAX: (800) 677-3865 / www.crouzet-usa.com

Reversible synchronous geared motors

→ 5 Nm 2.7 and 3.5 Watts

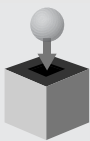
- Mechanical strength : 5 Nm
- Constant speed, dependent on supply frequency
- Direction of rotation controlled by dephasing capacitor
- Permanent magnet rotor
- UL, CSA, VDE approved ; comply with IEC standards



Specifications

		2.7 watts	3.5 Watts
Type		80 517 3	80 527 0
Voltage / Frequency		115 V - 60 Hz	115 V - 60 Hz
Base speed of motor (rpm)		300	300
Output speed (300 RPM)	Ratios		
24 tr/min	12.5	80 517 3A40024MZ ●	80 527 0A40024MZ ●
12 tr/min	25	80 517 3A40012MZ ●	80 527 0A40012MZ ●
9.6 tr/min	31.25	80 517 3A409.6MZ ●	80 527 0A409.6MZ ●
7.2 tr/min	41.66	80 517 3A407.2MZ ●	80 527 0A407.2MZ ●
4.8 tr/min	62.5	80 517 3A404.8MZ ●	80 527 0A404.8MZ ●
3.6 tr/min	83.33	80 517 3A403.6MZ ●	80 527 0A403.6MZ ●
2.4 tr/min	125	80 517 3A402.4MZ ●	80 527 0A402.4MZ ●
1.2 tr/min	250	80 517 3A401.2MZ ●	80 527 0A401.2MZ ●
0.6 tr/min	500	80 517 3A400.6MZ ●	80 527 0A400.6MZ ●
0.4 tr/min	750	80 517 3A400.4MZ ●	80 527 0A400.4MZ ●
0.12 tr/min	2500	80 517 3A40.12MZ ●	80 527 0A40.12MZ ●
General characteristics			
Motor		82 510 0	82 520 0
Gearbox		81 037 0	81 037 0
Maximum permitted continuous rated gearbox output torque for 1 million revolutions of gearbox output shaft (Nm)		5	5
Axial load (static) daN		2	2
Radial load (static) daN		3	3
Absorbed power (W)		2.7	3.5
Motors output (W)		0.31	0.98
Maximum temperature rise (°C)		50	50
Ambient temperature (°C)		-10 → +70	-10 → +70
Weight (g)		410	530
Wires length mm (approximately)		250	250
Protection rating		IP40	IP40

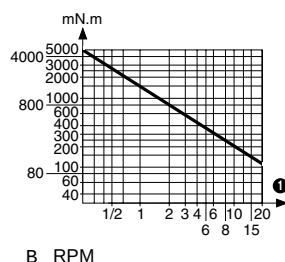
Products adaptations, available on request



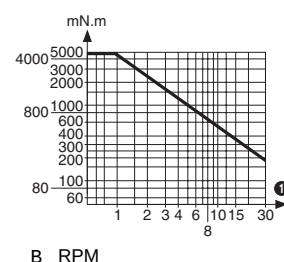
- Special supply voltages
- Special lead lengths
- Special connectors
- Special output shafts
- Special gearbox ratios
- Special gear material
- Special output bearings
- Special mounting plate

Curves

Torque/speed curves 80 517 0



Torque/speed curves 80 527 0



Products and specifications subject to change without notice.

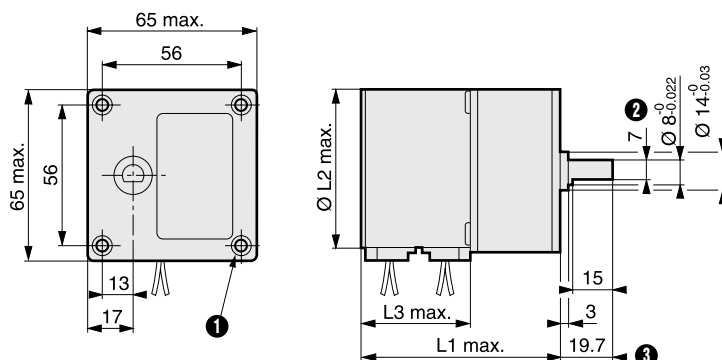
Order/Technical Support - Tel: (800) 677-5311 / FAX: (800) 677-3865 / www.crouzet-usa.com

Accessories

Voltages/Frequencies	μF	V	Code
Capacitors for motor 82 510 0			
230-240 V - 50 Hz	$0.33 \pm 10 \%$	400	26 231 801
115 V - 50/60 Hz	$0.27 \pm 10 \%$	250	26 231 851
24 V - 50 Hz	$8.2 \pm 10 \%$	70	26 231 711
24 V - 60 Hz	$6.8 \pm 10 \%$	63	26 231 708
Capacitors for motor 82 520 0			
230-240 V - 50 Hz	$0.10 \pm 10 \%$	700	26 231 941
115 V - 60 Hz	$0.33 \pm 10 \%$	400	26 231 801
24 V - 50 Hz	$8.2 \pm 10 \%$	63	26 231 711

Dimensions

80 517 0 - 80 527 0

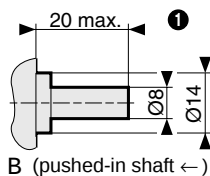


- B 4 holes M4 depth 12
- C 7 across flat
- D (pushed-in shaft ←)

80 517 0 L1 = 55.3 mm Ø L2 = 35.8 mm L3 = 21.7 mm
 80 527 0 L1 = 59.2 mm Ø L2 = 51.3 mm L3 = 25.6 mm

Options

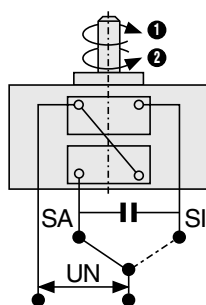
Shaft 79 206 478



- B (pushed-in shaft ←)

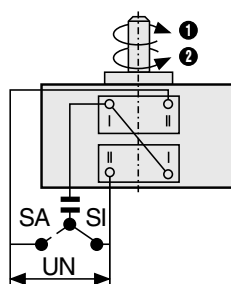
Connections

In parallel
 Motors 82 510 0 - 82 520 0



- B SA : Clockwise
- C SI : Counter-clockwise

In series
 Motor 82 510 0 only 230 V - 240 V 50 Hz version



- B SA : Clockwise
- C SI : Counter-clockwise

Other information

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.

Products and specifications subject to change without notice.

Order/Technical Support - Tel: (800) 677-5311 / FAX: (800) 677-3865 / www.crouzet-usa.com

Reversible synchronous geared motors

→ 5 Nm 3.5 and 7.2 Watts

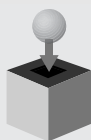
- Mechanical strength : 5 Nm
- Constant speed, dependent on supply frequency
- Direction of rotation controlled by dephasing capacitor
- Permanent magnet rotor
- UL, CSA, VDE approved ; comply with IEC standards



Specifications

			3.5 Watts	7.2 Watts
Type			80 527 4	80 547 0
Voltage / Frequency			115 V / 60 Hz	115 V / 60 Hz
Base speed of motor (rpm)			450	300
Output speed (450 RPM)	Output speed (300 RPM)	Ratios		
36 tr/min	24 tr/min	12.5	80 527 4A40036MZ ●	80 547 0A40024MZ ●
18 tr/min	12 tr/min	25	80 527 4A40018MZ ●	80 547 0A40012MZ ●
14.4 tr/min	9.6 tr/min	31.25	80 527 4A414.4MZ ●	80 547 0A409.6MZ ●
10.8 tr/min	7.2 tr/min	41.66	80 527 4A410.8MZ ●	80 547 0A407.2MZ ●
7.2 tr/min	4.8 tr/min	62.5	80 527 4A407.2MZ ●	80 547 0A404.8MZ ●
5.4 tr/min	3.6 tr/min	83.33	80 527 4A405.4MZ ●	80 547 0A403.6MZ ●
3.6 tr/min	2.4 tr/min	125	80 527 4A403.6MZ ●	80 547 0A402.4MZ ●
1.8 tr/min	1.5 tr/min	250	80 527 4A401.8MZ ●	80 547 0A401.2MZ ●
0.9 tr/min	1.2 tr/min	500	80 527 4A400.9MZ ●	80 547 0A400.6MZ ●
0.6 tr/min	0.6 tr/min	750	80 527 4A400.6MZ ●	80 547 0A400.4MZ ●
0.18 tr/min	0.12 tr/min	2500	80 527 4A40.18MZ ●	80 547 0A40.12MZ ●
General characteristics				
Motor			82 520 4	82 540 0
Gearbox			81 037 0	81 037 0
Maximum permitted continuous rated gearbox output torque for 1 million revolutions of gearbox output shaft (Nm)			5	5
Axial load (static) daN			2	2
Radial load (static) daN			3	3
Absorbed power (W)			3.5	7.2
Motors output (W)			1.12	2.65
Maximum temperature rise (°C)			50	55
Ambient temperature (°C)			-10 → +70	-10 → +70
Weight (g)			530	860
Wires length mm (approximately)			250	250
Protection rating			IP40	IP40

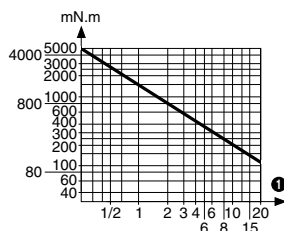
Products adaptations, available on request



- Special supply voltages
- Special cable lengths
- Special connectors
- Special output shafts
- Special gearbox ratios
- Special gear material
- Special output bearings
- Special mounting plate

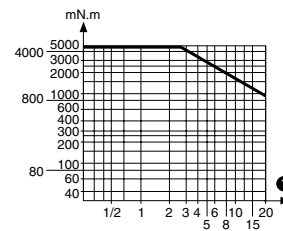
Curves

Torque/speed curves 80 527 4



B RPM

Torque/speed curves 80 547 0



B RPM

Products and specifications subject to change without notice.

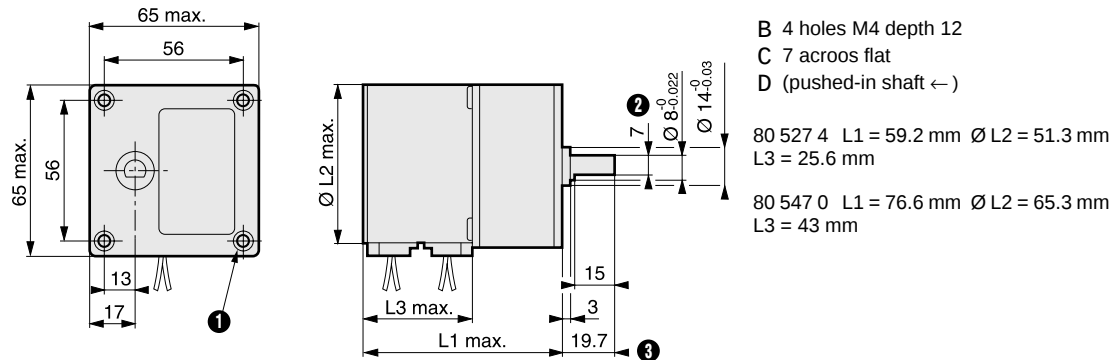
Order/Technical Support - Tel: (800) 677-5311 / FAX: (800) 677-3865 / www.crouzet-usa.com

Accessories

Voltages/Frequencies	μF	V	Code
Capacitors for motors 82 520 4			
230/240 V - 50 Hz	$0.12 \pm 10 \%$	600	26 231 903
115 V - 60 Hz	$0.39 \pm 5 \%$	630	26 231 924
24 V - 50 Hz	$15 \pm 5 \%$	70	26 231 728
24 V - 60 Hz	$12 \pm 5 \%$	63	26 231 145
Capacitors for motor 82 540 0			
230-240 V 50 Hz	$0.22 \pm 5 \%$	630	26 231 909
115 V - 60 Hz	$0.56 \pm 5 \%$	400	26 231 822
24 V - 50 Hz	$22 \pm 10 \%$	63	26 231 703
24 V - 60 Hz	$15 \pm 5 \%$	70	26 231 728

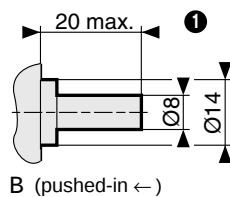
Dimensions

80 527 4 - 80 547 0



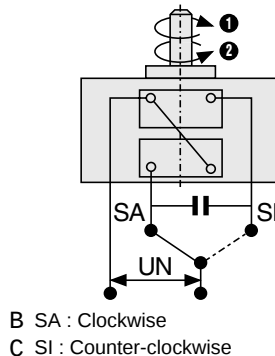
Options

Shaft 79 206 478



Connections

In parallel
Motors 82 520 4 - 82 540 0



Other information

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.

Products and specifications subject to change without notice.

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Accessories

Torque Limiter F symbol

This device is situated inside the gearbox and is particularly recommended when gearbox protection is required in the event of accidental overloading.

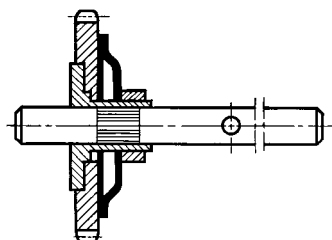
In this system, the final gear is connected to the gearbox output shaft by means of a friction assembly.

In some cases, this device can be used for time adjustment or zero reset on timers.

The standard torque setting is from:

- 1.8 to 2.5 cm.kg for gearbox 81 021 with an initial breakpoint of 7 cm.kg

- 7 to 10 cm.kg for gearbox 81 033 with an initial breakpoint of 28 cm.kg



Freewheel device - Y system

This device, situated inside the gearbox, enables the output shaft to be rotated by an external force (manual or mechanical) independently of the final wheel of the gearbox.

Description

A specifically shaped cam (1) is directly fitted on the gearbox output shaft. The final wheel (2) of the gearbox pivots freely on this shaft and has a housing into which the cam fits (1).

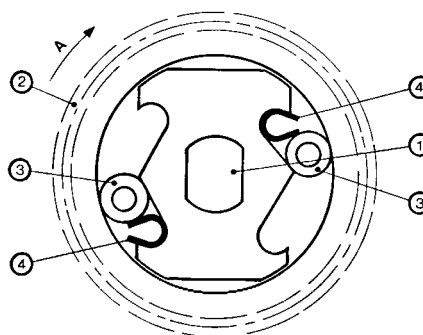
Between the cam and final wheel two rollers are symmetrically located held in place under the pressure of two springs (4).

When the geared motor is energized, it causes the final wheel (2) to rotate which, via the two rollers (3), in turn drives the output shaft.

If, under external force, the output shaft is turned in the same direction as the final wheel but at a higher speed, the two rollers (3) release the final wheel and the shaft speed becomes independent of the speed of the final wheel.

The rollers can be located according to whether the final wheel is rotating clockwise or counter-clockwise.

Can be used with gearboxes:
81 021 0 and 81 033 0



COUNTER CLOCKWISE
FREE WHEEL EXAMPLE SHOWN