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Find the *Rockwell / Allen-Bradley 500L-EOD93* at our website: ***Click HERE***



100 A, 3-Pole
Open Type without Enclosure

Bulletin 500L

- Top wiring electrically held
- For non-motor loads, lighting, and heating
- NEMA sizes to 2250 A
- Enclosure ratings: NEMA Type 1, 3R/12, 4/4X (stainless steel)
- Special purpose enclosures:
  Type 4X glass reinforced polyester
  Bolted — 7 & 9, and 3R, 7 & 9
- 2-, 3-, and 4-pole configurations

Bulletin 500L lighting contactors are electrically held contactors designed to switch the current to incandescent filament, fluorescent, mercury arc lamps, capacitors, and other non-motor loads. These contactors are not suitable for use on sign flashers.

Hold-in Contact — If a hold-in contact for 3-wire push button control is required, it must be specified on the order as a modification. A normally open auxiliary contact to be used as a hold-in contact can also be added in the field. See [S-1362200] for information.

Feeder disconnect type lighting contactors are used for turning large blocks of lights on and off.

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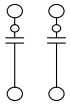
Standards Compliance

NEMA/EEMAC ICS 2
UL 508
CSA C22.2, No.14
ABS 4/5.115 — American Bureau of Shipping
UCSG 46 CFR 111.70
IEEE 45
EN/IEC 60947-4-1

Certifications

CSA Certified (LR1234, LR11924)
UL Listed (File No. E14843, Guide No. NRNT)
Hazardous Location: UL Listed (File No. E91593, Guide No. WTEV)
CE Marked

Top Wiring for Non-Motor and Lighting Loads

Maximum Continuous Ampere Ratings [A]		Open Type Without Enclosure
Tungsten Lamp Loads (Max. 480V Line, 277V Load)	General Use	
	Resistive Heating	
	Ballast Lighting (Fluorescent)	
	Discharge Lighting (Mercury Vapor High Pressure Sodium and Metal Halide)	Cat. No.
2 Power Poles • 600V AC Maximum • 60 Hz		
5	10	500L-TO⊗92
15	20	**500L-AO⊗92**
30	30	**500L-BO⊗92**
60	60	**500L-CO⊗92**
100	100	500L-DO⊗92
200	200	**500L-EO⊗92**
300	300	**500L-FO⊗92**
540	540	—
810❄	810	500L-HO⊗92
1215❄	1215	500L-JO⊗92
2250❄	2250	500L-KO⊗92

⊗ Coil Voltage Code

The cat. no. as listed is incomplete. Select a coil voltage code from the table below to complete the cat. no.
Example: **Cat. No. 500L-AO⊗92** becomes **Cat. No. 500L-AOD92**. For other voltages, consult your local Rockwell Automation sales office or Allen-Bradley distributor.

[V]	24♣	110-115	115-120	200-208	220-230	230-240	240	277	380	380-400	415	440-460	460-480	500	550	575-600
AC, 50 Hz	K	S§	—	—	P⌘	—	T	—	N	KN	I	Q	—	M	R	—
AC, 60 Hz	J	—	**D➢**	**H**	—	**A✦**	—	F	—	—	U	—	**B**	—	—	**C**

❄ Does not include line and load lugs, see page 1-113 for kits.
♣ Only available on sizes 00…5. When using 24V coils on size 4 or 5, an interposing relay may be required. See coil VA values on page 1-130.
§ This coil is optimized for 110…115V, 50 Hz applications, but can be used at 120V, 60 Hz nominal.
➢ This coil is optimized for 115…120V, 60 Hz applications, but can be used at 110V, 50 Hz nominal.
⌘ This coil is optimized for 220…230V, 50 Hz applications, but can be used at 240V, 60 Hz nominal.
✦ This coil is optimized for 230…240V, 60 Hz applications, but can be used at 220V, 50 Hz nominal.

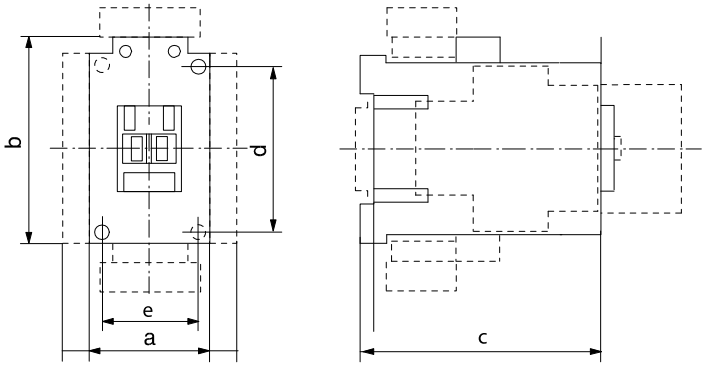
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Approximate Dimensions

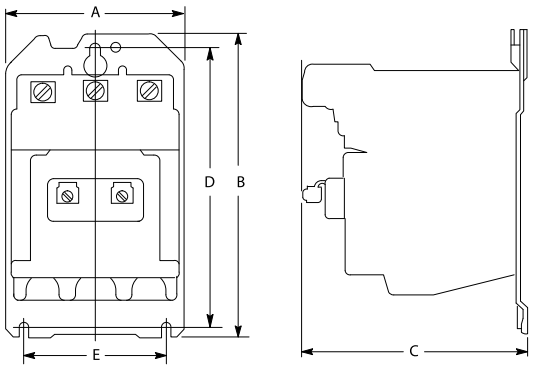
NEMA AC Contactors

Approximate dimensions are shown in inches (millimeters). Dimensions are not intended to be used for manufacturing purposes.

Open Type without Enclosure for Bulletin 500FL, 500L, and 500LP and for NEMA sizes 00, 5…9 for Bulletin 500 and 500F Contactors



Sizes 00



Sizes 0...5

Note: Top mounting hole on Size 00 is 1/4 in. (6.35 mm) to the left of centerline on Open Type. Mounting screws: 3…#10 for sizes 0…2, 1/4…#20, or 5/16…#18 for sizes 3…5.

NEMA Size	Number of Switching Poles		Dimensions in Inches (Millimeters)					Approximate Shipping Weight [lb (kg)]
	Bulletin 500 500F-500FL	Bulletin 500L-500LP	A Width	B Height	C Depth	D	E	
00 5/10A	1-2-3	2…3	1-25/32 (45)	3-3/16 (81)	3-11/64 (80.5)	2-23/64 (60)	1-25/64 (35)	1 (0.45)
0…1 15/20A 30A	2…3	2…3	3-9/16 (90.5)	6 (152)∗	4-15/32 (113)	5-1/2 (140)	2-3/4 (70)	3 (1.4)
	4	—	4-3/8 (111)					3-1/2 (1.6)
	5	4	4-15/16 (125)					4-3/4 (2.2)
2 60A	2…3	2…3	3-15/16 (100)	6-27/32 (173)∗	4-23/32 (120)	6-5/16 (160)	3-5/32 (80)	4 (1.8)
	4	—	4-31/32 (126)					4-3/4 (2.2)
	5	4	5-1/2 (140)					6-1/4 (2.8)
3 100A	2…3	2…3	6-1/8 (155.5)	10-3/64 (255)	6-19/32 (167.4)	8-21/32 (220)	5-33/64 (140)	14.5 (6.5)
	4	—	7-15/16 (201.6)					16 (7.25)
	5	4	8-13/16 (223.8)					18 (8)
4 200A	2…3	2…3	7 (178)	12-11/64 (309)❄	7-13/16 (198.4)	9-27/32 (250)	6-5/16 (160)	22 (10)
	4	—	9-1/16 (230.2)					25.5 (11.5)
	5	4	10-7/16 (265.1)					28.5 (13)
5 300A	2…3	2…3	7 (178)	13-25/64 (340)‡	8-17/32 (217)	9-27/32 (250)	6-5/16 (160)	24 (10.9)

∗ For Feed-Through Wiring this dimension is 6-15/16 in. (176 mm).
❄ For Feed-Through Wiring this dimension is 11-11/16 in. (297 mm).
‡ For Feed-Through Wiring this dimension is 12-37/64 in. (320 mm).

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Mechanical Ratings

NEMA Size	Mechanical Life (Millions of Operations)	Maximum Number of Auxiliary Contacts	Operating Time [ms]	
			Pick-up (Average)	Drop-out (Average)
00	10	5	20	16
0	10	8	21	16
1	10	8	22	14
2	10	8	27	13
3	5	8	37	20
4	5	8	27	20
5	5	8	25	18
6	5	4	25…79	10…22
7	—	8	88	40
8	—	8	88	45
9	—	8	118	84

Construction

NEMA Size	Wire Size for Power Terminals	Required Torque on Power Terminal Wire Clamps and Pressure Connectors or Lugs	Type of Power Terminal	Contact Material		Requirements for Sizing of Wire
				Power Contacts	Auxiliary Contacts	
00	#16…10 AWG	9 lb•in	Pressure terminals	Silver alloy	Silver	All wire rated 167 °F (75 °C) or higher must be sized per the local Electrical Code for 167°F (75 °C) wire.
0	#14…10 AWG	20 lb•in	Saddle or wire clamps			
1	#14…8 AWG	20 lb•in				
2	#14…4 AWG	45 lb•in	Pressure terminals			
3	#8…1/0 AWG	150 lb•in				
4	#6…4/0 AWG	275 lb•in				
5	#4 AWG…500 MCM	375 lb•in				
6	Lugs sold separately. See page 1-113.					
7						
8						
9	Direct bus connections only.					

Environmental

NEMA Size	Operating Position	Operating Temperature Range	Altitude	Corrosion-Resistance
00	Horizontal	Starters with eutectic alloy Overload relay –13…+149 °F (–25…+65 °C) Starters with SMP Overload relay –13…+131 °F (–25…+55 °C) (provided condensation is prevented)	10 000 feet before derating	All metal parts are treated for corrosion-resistance
0	Vertical			
1				
2				
3				
4				
5				
6	Horizontal			
7	Vertical			
8				
9				

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NEMA Specifications

NEMA Non-Combination and Combination Contactors/Starters

Short Circuit Rating

Combination contactors and starters with disconnect switch: Bulletin 502, 506, 512, 522E, 522F, 522G, and 1232X

Combination Contactors and Starters with Disconnect Switch: Bulletin 502, 506, 512, 522E, 522F, 522G, and 1232X			
NEMA Size	Fuse Type	Available Short Circuit Amperes RMS Symmetrical [A]	Maximum Voltage [V]
0…3	H, K	5000	600
4…5	H, K	10 000	
0…5	J, R	100 000	
6	L	18 000	
7	L	18 000	
Combination Lighting Contactors with Disconnect Switch: Bulletin 502L			
Lighting Contactor Rating [A]	Fuse Type	Available Short Circuit Amperes RMS Symmetrical [A]	Maximum Voltage [V]
20…100	H, K	5000	600
200…300	H, K	10 000	
20…300	J, R	100 000	
Combination Contactors and Starters with Circuit Breaker: Bulletin 503, 507, 513, 523E, 523F, 523G, and 1233X∗			
Enclosure Type	NEMA Size	Available Short Circuit Amperes RMS Symmetrical [A]	Maximum Voltage [V]
1, 3R, 3R/4/12, 4/4X (stainless)	0…5	65 000	480
Unilock 3R, 7, & 9	0…5	65 000	
Bolted 3R, 7, & 9	0…2	65 000	
1, 3R, 3R/4/12, 4/4X (stainless)	0…5	25 000	600
Unilock 3R, 7, & 9	0…3	5000	
Unilock 3R, 7, & 9	4…5	10 000	
Bolted 3R, 7, & 9	0…2	5000	
3R, 3R/4/12	6…7	10 000	
Combination Lighting Contactors with Circuit Breaker: Bulletin 503L∗			
Enclosure Type	Lighting Contactor Rating [A]	Available Short Circuit Amperes RMS Symmetrical [A]	Maximum Voltage [V]
1, 3R, 3R/4/12, 4/4X (stainless)	20…300	65 000	480
Unilock 3R, 7, & 9	20…300	65 000	
Bolted 3R, 7, & 9	20…300	65 000	
1, 3R, 3R/4/12, 4/4X (stainless)	20…300	25 000	600
Unilock 3R, 7, & 9	20…100	5000	
Unilock 3R, 7, & 9	20…300	10 000	
Bolted 3R, 7, & 9	20…300	5000	

∗ For the most up-to-date SCCRs, please see the on-line Industrial Controls catalog at www.ab.com/catalogs.

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AC Coil Data

NEMA Size	Operating Volt Amperes Burden [VA] 60 Hz Coils		Heat Dissipation [W]	Coil Operating Limits
	Inrush	Sealed		
00	70	8	2.7	85…110%
0	192	29	5.9	
1 & 1P	192	29	5.9	
2 (2…3 poles)	240	29	5.9	
2 (4…5 poles)	315	38	5.9	
3 (2…3 poles)	660	45	10	
3 (4…5 poles)	840	58	10	
4 (2…3 poles)	1225	69	14.8	
4 (4…5 poles)	1490	96	14.8	
5 (Series L)	1490	96	19.8	
6∗	4860	254	65.7	
6 (Interposing relay)	52.44	3.96	—	
7❄	Economized DC Coil		—	
7 (Interposing relay)	74.40	9.84	—	
8‡	Economized DC Coil		—	
8 (Interposing relay)	74.40	9.84	—	
9§	Economized DC Coil		—	
9 (Interposing relay)	144	19.20	—	

∗ This rating is for the size 6 contactor coil only. All starters are shipped with an interposing relay as standard.

❄ Size 7 starters are shipped with a 250 VA control circuit transformer and an interposing relay with a 120V coil. Voltage is then rectified to DC for the contactor coil.

‡ Size 8 starters are shipped with a 350 VA control circuit transformer and an interposing relay with a 120V coil. Voltage is then rectified to DC for the contactor coil.

§ Size 9 starters are shipped with a 750 VA control circuit transformer and an interposing relay with a 120V coil. Voltage is then rectified to DC for the contactor coil.

Auxiliary Contacts (NEMA A600 and P300) — Bulletin 595, 596

Maximum AC Contact Rating Per Pole						
AC Rating Designation	Maximum Voltage 60 or 50 Hz	[A]		Continuous Carrying Current [A]	[VA]	
		Make	Break		Make	Break
A600	120	60	6	10	7200	720
	240	30	3	10	7200	720
	480	15	1.5	10	7200	720
	600	12	1.2	10	7200	720

Maximum DC Contact Rating Per Pole for 595, 596 Auxiliary Contacts (Maximum Continuous Carrying Current is 5 A)			
DC Rating Designation	125V DC	250V DC	600V DC
P300	0.55 A	0.55 A (Requires 2 Contacts in Series)	—
	1.1 A (Requires 2 Contacts in Series)		

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1

Load-Life Curves

Bulletin 500 Line contactors and starters are designed to provide superior performance in a variety of applications. These load-life curves are based on Rockwell Automation tests according to the requirements defined in IEC 947-4. Actual contact life may vary based on the application, duty cycle, and environmental conditions from that indicated by the curves.
To find the contactor's estimated electrical life, follow these guidelines:

- Choose the appropriate graph that most closely approximates the utilization category of the application.
- Locate the intersection of the life-load curve of the appropriate contactor with the application's operational current (I^e) found on the horizontal axis.
- Read the estimated contact life in millions of operations along the vertical axis.

Contact Life for Mixed Utilization Categories AC3 and AC4

In many applications, the utilization category cannot be defined as either purely AC3 or AC4. In those applications, the electrical life of the contactor can be estimated from the following equation:

$$L_{mixed} = \frac{L_{AC3}}{1 + P_{AC4}\left(\frac{L_{AC3}}{L_{AC4}} - 1\right)}$$

Where:

L_{mixed} = Approximate contact life for a mixed AC3/AC4 utilization category application

L_{AC3} = Approximate contact life in operations for AC3 utilization category (from AC3 life-load curves below)

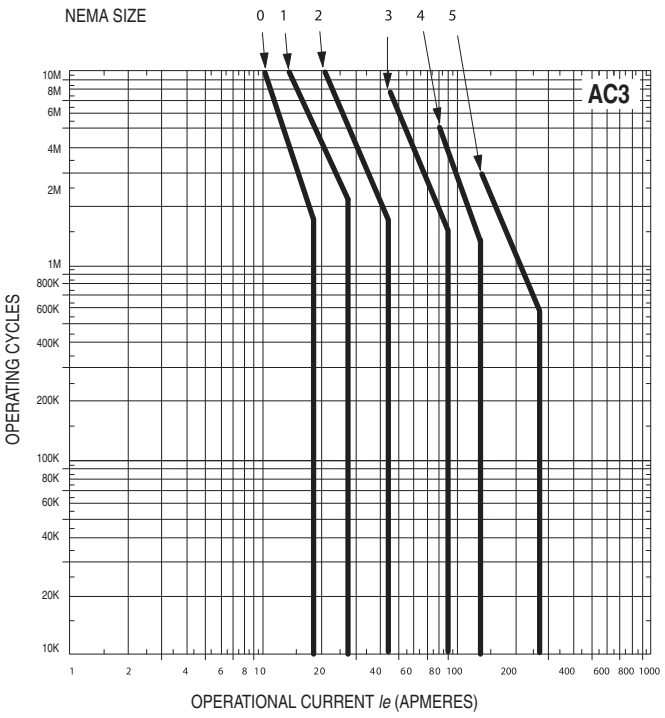
L_{AC4} = Approximate contact life in operations for AC4 utilization category (from AC4 life-load curves below)

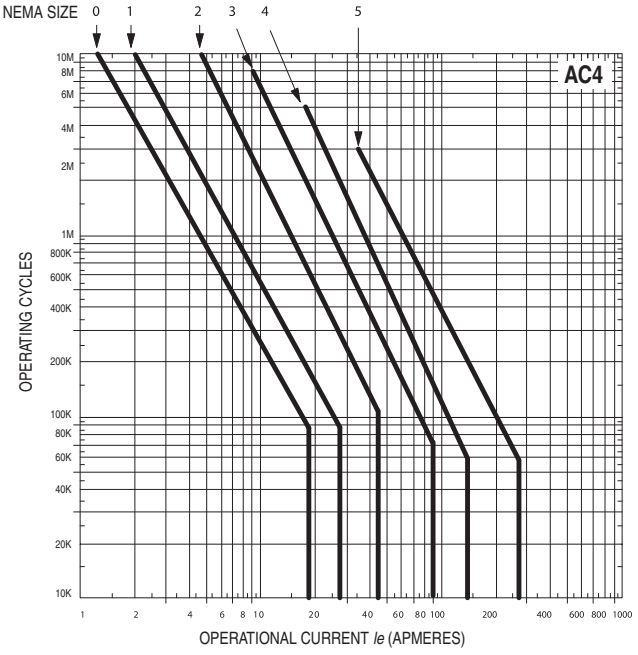
P_{AC4} = Percentage of AC4 operations

Utilization Categories

Category	Typical Duty
AC3	Starting of squirrel cage motors and switching off only after the motor is up to speed.
AC4	Starting of squirrel cage motors with inching and plugging duty.

Bulletin 500 Load/ Life Curves — AC3 and AC4





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Group Motor Ratings for NEMA Contactors/Starters

Manual Starters	FLA Range (Amps)	Group Rating (480V)		Contactors				
		w/o Limiter	with Limiter	Size 00	Size 0	Size 1	Size 2	Size 3
140-MN-0016	0.10…0.16	42 kA	42 kA	500-TO∗	500-AO∗	500-BO∗	—	—
140-MN-0025	0.16…0.25	42 kA	42 kA	500-TO∗	500-AO∗	500-BO∗	—	—
140-MN-0040	0.25…0.40	42 kA	42 kA	500-TO∗	500-AO∗	500-BO∗	—	—
140-MN-0063	0.40…0.63	42 kA	42 kA	500-TO∗	500-AO∗	500-BO∗	—	—
140-MN-0100	0.63…1.0	42 kA	42 kA	500-TO∗	500-AO∗	500-BO∗	—	—
140-MN-0160	1.0…1.6	42 kA	42 kA	500-TO∗	500-AO∗	500-BO∗	—	—
140-MN-0250	1.6…2.5	42 kA	42 kA	500-TO∗	500-AO∗	500-BO∗	—	—
140-MN-0400	2.5…4.0	42 kA	42 kA	500-TO∗	500-AO∗	500-BO∗	—	—
140-MN-0630	4.0…6.3	42 kA	42 kA	500-TO∗	500-AO∗	500-BO∗	—	—
140-MN-1000	6.3…10.0	42 kA	42 kA	500-TO∗	500-AO∗	500-BO∗	—	—
140-MN-1600	10.0…16.0	10 kA	42 kA	—	500-AO∗	500-BO∗	500-CO∗	—
140-MN-2000	16.0…20.0	10 kA	14 kA	—	500-AO∗	500-BO∗	500-CO∗	—
140-MN-2500	20.0…25.0	10 kA	10 kA	—	—	500-BO∗	500-CO∗	—
190-MN+190-P320	24.0…32.0	—	42 kA	—	—	—	500-CO∗	500-DO∗
190-MN+190-P400	32.0…42.0	—	30 kA	—	—	—	500-CO∗	500-DO∗

Manual Starters	FLA Range (Amps)	Group Rating (480V)		Starters				
		w/o Limiter	with Limiter	Size 00	Size 0	Size 1	Size 2	Size 3
140-MN-0016	0.10…0.16	42 kA	42 kA	509-TO❄	509-AO❄	509-BO❄	—	—
140-MN-0025	0.16…0.25	42 kA	42 kA	509-TO❄	509-AO❄	509-BO❄	—	—
140-MN-0040	0.25…0.40	42 kA	42 kA	509-TO❄	509-AO❄	509-BO❄	—	—
140-MN-0063	0.40…0.63	42 kA	42 kA	509-TO❄	509-AO❄	509-BO❄	—	—
140-MN-0100	0.63…1.0	42 kA	42 kA	509-TO❄	509-AO❄	509-BO❄	—	—
140-MN-0160	1.0…1.6	42 kA	42 kA	509-TO❄	509-AO❄	509-BO❄	—	—
140-MN-0250	1.6…2.5	42 kA	42 kA	509-TO❄	509-AO❄	509-BO❄	—	—
140-MN-0400	2.5…4.0	42 kA	42 kA	509-TO❄	509-AO❄	509-BO❄	—	—
140-MN-0630	4.0…6.3	42 kA	42 kA	509-TO❄	509-AO❄	509-BO❄	—	—
140-MN-1000	6.3…10.0	42 kA	42 kA	509-TO❄	509-AO❄	509-BO❄	—	—
140-MN-1600	10.0…16.0	10 kA	42 kA	—	509-AO❄	509-BO❄	509-CO❄	—
140-MN-2000	16.0…20.0	10 kA	14 kA	—	509-AO❄	509-BO❄	509-CO❄	—
140-MN-2500	20.0…25.0	10 kA	10 kA	—	—	509-BO❄	509-CO❄	—
190-MN+190-P320	24.0…32.0	—	42 kA	—	—	—	509-CO❄	509-DO❄
190-MN+190-P400	32.0…42.0	—	30 kA	—	—	—	509-CO❄	509-DO❄

∗ Cat. No. is incomplete. Refer to page 1-31.
❄ Cat. No. is incomplete. Refer to page 1-46.

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NEMA Specifications

NEMA Non-Combination and Combination Contactors/Starters

Full Load Currents of 3-Phase, 60 Hertz AC Induction Motors

The full load currents listed below are "average values" for horsepower rated motors of several manufacturers at the more common rated voltages and speeds. These "average values", along with the similar values listed in the U. S. National Electrical Code (NEC), should be used only as a guide for selecting suitable components for the Motor Branch Circuit. The rated full load current, shown on the motor nameplate, may vary considerably from the listed value depending on the specific motor design.

ATTENTION: The motor nameplate full load current should always be used in determining the rating of the devices used for Motor Running Overcurrent Protection.

HP	RPM∗	Full Load Current [A]					
		208V	240V	480V	600V	2200V	4000V
1/4	**3600**	1.20	1.04	0.52	0.42	—	—
	1800	1.39	1.20	0.60	0.48	—	—
	1200	1.62	1.40	0.70	0.56	—	—
	900	—	—	—	—	—	—
1/3	**3600**	1.48	1.28	0.64	0.51	—	—
	1800	1.69	1.46	0.73	0.58	—	—
	1200	1.89	1.64	0.82	0.66	—	—
	900	—	—	—	—	—	—
1/2	**3600**	2.08	1.80	0.90	0.72	—	—
	1800	2.54	2.20	1.10	0.88	—	—
	1200	2.89	2.50	1.25	1.00	—	—
	900	—	—	—	—	—	—
3/4	**3600**	2.89	2.50	1.25	1.00	—	—
	1800	3.47	3.00	1.50	1.20	—	—
	1200	3.81	3.30	1.65	1.32	—	—
	900	—	—	—	—	—	—
1	**3600**	3.51	3.04	1.52	1.22	—	—
	1800	4.25	3.68	1.84	1.47	—	—
	1200	4.60	3.98	1.99	1.59	—	—
	900	—	—	—	—	—	—
1-1/2	**3600**	5.04	4.36	2.18	1.74	—	—
	1800	5.80	5.02	2.51	2.01	—	—
	1200	6.49	5.62	2.81	2.25	—	—
	900	—	—	—	—	—	—
2	**3600**	6.51	5.64	2.82	2.26	—	—
	1800	7.18	6.22	3.11	2.49	—	—
	1200	8.20	7.10	3.55	2.84	—	—
	900	—	—	—	—	—	—
3	**3600**	9.24	8.00	4.00	3.20	—	—
	1800	10.4	9.04	4.52	3.62	—	—
	1200	11.6	10.1	5.04	4.03	—	—
	900	—	—	—	—	—	—
5	**3600**	15.7	13.6	6.80	5.44	—	—
	1800	15.9	13.8	6.88	5.50	—	—
	1200	18.6	16.1	8.07	6.46	—	—
	900	—	—	—	—	—	—
7-1/2	**3600**	22.1	19.1	9.57	7.66	—	—
	1800	25.0	21.7	10.8	8.66	—	—
	1200	26.6	23.1	11.5	9.22	—	—
	900	—	—	—	—	—	—
10	**3600**	29.7	25.7	12.9	10.3	—	—
	1800	31.5	27.3	13.7	10.9	—	—
	1200	32.9	28.4	14.2	11.4	—	—
	900	—	—	—	—	—	—
15	**3600**	43.0	37.2	18.6	14.9	—	—
	1800	46.7	40.4	20.2	16.2	—	—
	1200	49.1	42.5	21.3	17.0	—	—
	900	—	—	—	—	—	—
	600	—	—	—	—	—	—
20	**3600**	59.2	51.3	25.6	20.5	5.2	2.9
	1800	59.6	51.6	25.8	20.6	5.3	3.0
	1200	61.7	53.4	26.7	21.4	5.4	3.1
	900	—	—	—	—	5.8	3.2
	600	—	—	—	—	6.4	3.5
25	**3600**	70.9	61.4	30.7	24.6	6.3	3.4
	1800	74.7	64.7	32.3	25.9	6.5	3.6
	1200	76.0	65.8	32.9	26.3	6.7	3.7
	900	—	—	—	—	6.9	3.8
	600	—	—	—	—	8.1	4.4
30	**3600**	85.7	74.2	37.1	29.7	—	—
	1800	88.2	76.4	38.2	30.5	7.8	4.3
	1200	91.6	79.3	39.7	31.7	8.0	4.4
	900	—	—	—	—	8.2	4.5
	600	—	—	—	—	9.3	5.0
40	**3600**	111	96.0	48.0	38.4	—	—
	1800	117	102	50.8	40.6	10.0	5.5
	1200	119	103	51.7	41.4	10.3	5.7
	900	—	—	—	—	10.6	5.8
	600	—	—	—	—	11.5	6.3
50	**3600**	141	122	61.2	49.0	—	—
	1800	144	125	62.3	49.8	12.3	6.8
	1200	147	127	63.4	50.7	12.4	6.8
	900	—	—	—	—	13.1	7.2
	600	—	—	—	—	14.2	7.8
60	**3600**	165	143	71.6	57.3	—	—
	1800	172	149	74.3	59.4	14.6	8.0
	1200	173	150	74.9	59.9	14.9	8.2
	900	—	—	—	—	15.4	8.5
	600	—	—	—	—	16.7	9.2
75	**3600**	204	177	88.5	70.8	—	—
	1800	211	183	91.4	73.1	18.0	9.9
	1200	215	186	93.1	74.5	18.2	10.0
	900	—	—	—	—	19.0	10.5
	600	—	—	—	—	21.0	11.6
100	**3600**	267	231	116	92.6	—	—
	1800	276	239	119	95.5	23.6	13.0
	1200	281	243	122	97.2	24.2	13.3
	900	—	—	—	—	24.8	13.6
	600	—	—	—	—	26.4	14.5
	450	—	—	—	—	29.8	16.4
125	**3600**	333	288	144	115	—	—
	1800	340	294	147	118	29.2	16.1
	1200	347	300	150	120	29.9	16.4
	900	—	—	—	—	30.9	17.0
	720	—	—	—	—	31.3	17.2
	600	—	—	—	—	32.8	18.0
	450	—	—	—	—	36.0	19.8
150	**3600**	397	344	172	138	—	—
	1800	404	350	175	140	34.8	19.1
	1200	414	358	179	143	35.5	19.5
	900	—	—	—	—	37.0	20.4
	720	—	—	—	—	37.0	20.4
	600	—	—	—	—	38.8	21.3
	450	—	—	—	—	42.0	23.1
200	**3600**	524	454	227	182	—	—
	1800	531	460	230	184	46.7	25.7
	1200	538	466	233	186	47.0	25.9
	900	—	—	—	—	49.4	27.2
	720	—	—	—	—	49.0	27.0
	600	—	—	—	—	50.9	28.0
	450	—	—	—	—	53.7	29.5
250	**3600**	642	556	278	222	—	—
	1800	658	570	285	228	57.5	31.6
	1200	682	590	295	236	58.5	32.2
	900	—	—	—	—	61.5	33.8
	720	—	—	—	—	61.5	33.8
	600	—	—	—	—	61.0	33.6
	450	—	—	—	—	65.3	35.9
	360	—	—	—	—	70.0	38.5
300	**3600**	774	670	335	268	—	—
	1800	790	684	342	274	69.0	38.0
	1200	804	696	348	278	70.0	38.5
	900	—	—	—	—	73.5	40.4
	600	—	—	—	—	72.3	39.8
	450	—	—	—	—	76.0	41.8
	360	—	—	—	—	82.8	45.5
350	**3600**	—	748	374	299	—	—
	1800	—	762	381	305	—	—
	1200	—	774	387	310	—	—
400	**3600**	—	874	437	350	—	—
	1800	—	892	446	357	—	—
	1200	—	902	451	361	—	—
450	**3600**	—	972	486	389	—	—
	1800	—	992	496	397	—	—
	1200	—	1004	502	402	—	—
500	**3600**	—	1074	537	430	—	—
	1800	—	1096	548	438	—	—
	1200	—	1108	554	443	—	—

∗ Synchronous speed nameplate is usually less due to slip.

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