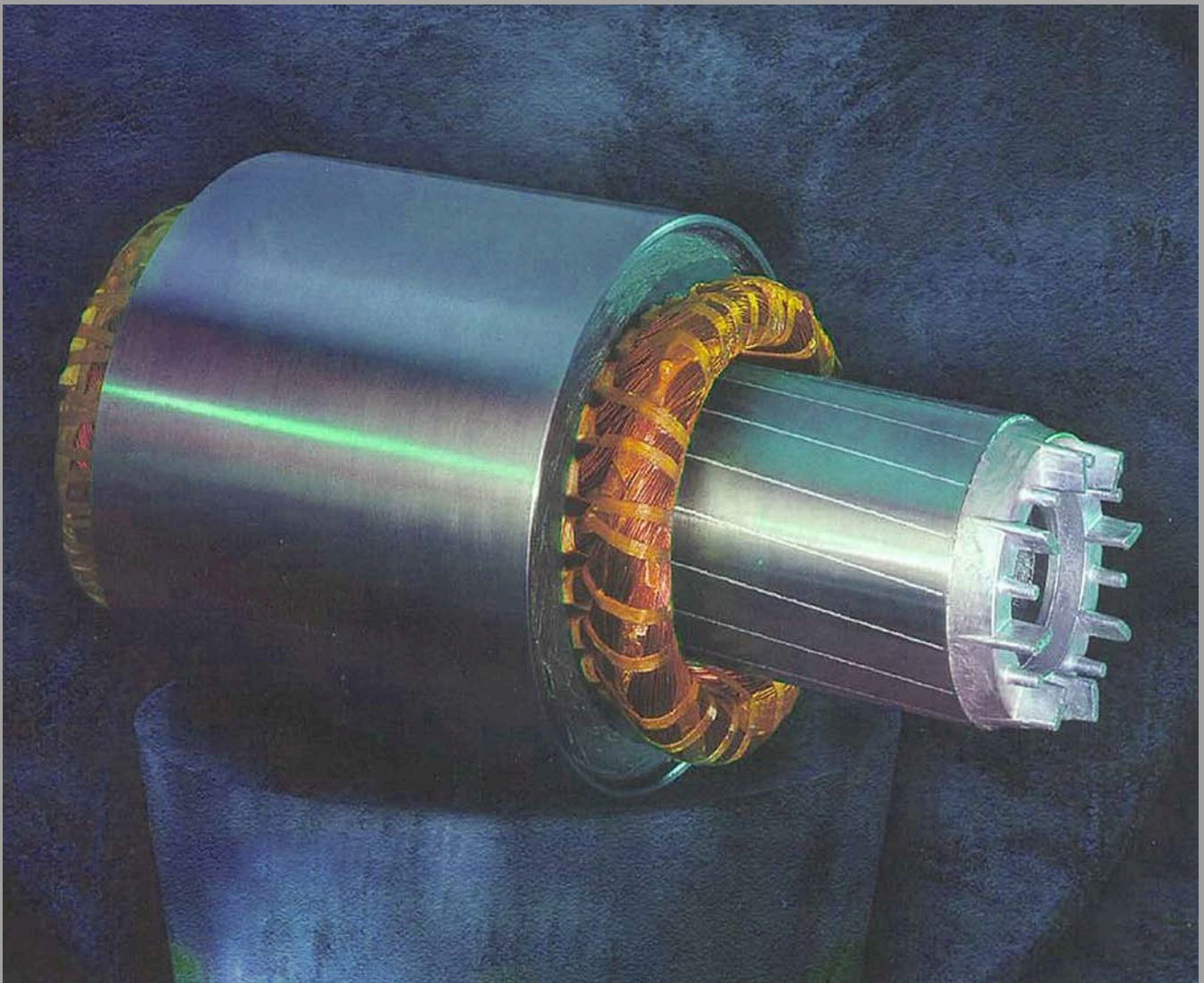


REULAND

PARTIAL MOTORS

Stator and Rotor Sets





REULAND PARTIAL MOTORS

Release: Jan 2012

Stator & Rotor Sets

MECHANICAL FEATURES

- All Reuland Partial Motors are available as stator and rotor sets or as individual components.
- Vast selection of diameters and core lengths are available as standard. Special lengths are available upon request.
- High pressure die cast aluminum rotors include cooling fins and balancing lugs. Cooling fins and balancing lugs are removed on high speed applications. Fabricated rotors and encapsulated end rings are available for special performance characteristics.
- Large straight bore rotors are available with oversized diameters or tapered bore upon request and keyways where required.
- Maximum bore shown is for die cast rotors without keyway. Fabricated rotors generally allow for larger bores.
- Shell type motors may be furnished with standard length or extended length shells made from cold roll or stainless steel. Shells are also available with heavy wall thickness and grooved for customer liquid cooling.
- High temperature, oil resistant, three foot leads are standard.
- Solid magnetic shaft material is generally required for large rotor bores and maximum horsepower designs.

ELECTRICAL FEATURES

- 0.02 to 1100 horsepower, maximum performance designs, depending on speed and cooling.
- Vast selection of frame sizes available for three enclosure types: Liquid Cooled (TELC), Fan Cooled (TEFC), Non Vented (TENV).
- 2 through 6 poles available as standard, higher upon request. Multi-speed also available.
- Consult factory regarding extremely low speed applications.
- Squirrel cage induction, NEMA design B and inverter duty is standard.
- Stator windings for up to 600 volts are standard.
- High silicon electrical steel, fully insulated, to reduce core losses, allow standard designs to operate up to 120 hertz. Special low loss laminations with minimum core loss are available for high frequency applications to 3000 hertz.
- Premium class H insulation system with high temperature polyester varnish is standard.
- Customer is responsible for cooling partial motors.



REULAND PARTIAL MOTORS

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Stator & Rotor Sets

IMPORTANT CONSIDERATIONS

- Selection of 2, 4 or 6 pole stator and rotor sets generally depends on the application requirement. The 2 pole version offers higher speed capabilities compared to 4 pole and 6 pole versions. The 4 pole version offers highest power density in smallest package with large rotor bore. The 6 pole version offers higher torque at low speed and allows for even larger rotor bore.
- For uniform air gap and optimum balance, rotor diameters can be furnished rough for customer to finish turn and balance after the rotor is installed on the shaft.
- Maximum speeds shown are limited by the centrifugal forces acting on the rotor and are based upon the standard rotor bore. An oversize bore or deep keyway may reduce these values. High speed rotor/shaft combinations should have balancing rings in order to allow for the delicate trim balance required.
- Stator and rotor sets are identified with their model or serial number, along with a stamped loose nameplate.
- A certified dimension drawing is available for each motor. Always review these dimensions or call the factory before releasing order to production on new designs.
- The power tables list the power capabilities of stator and rotor sets at various speeds for three enclosure types (TELC, TEFC and TENV). The sets are listed by frame size which is representative of the stator outside diameter and core length.



REULAND PARTIAL MOTORS

Stator & Rotor Sets

2 POLE	POWER TABLE - LIQUID COOLED (TELC)										
Frequency (Hz)	60	100	200	300	400	500	600	700	800	900	Max. speed
Syn. speed (r/min)	3600	6000	12000	18000	24000	30000	36000	42000	48000	54000	(r/min)
(F) - (BM)	POWER (HP)										
315 - 0.98	0.1	0.28	0.75	1.2	1.6	2	2.4	2.8	3.2	3.6	Std. rotor: 54000
315 - 2.17	0.35	0.8	1.8	2.7	3.6	4.5	5.4	6.3	7.2	8.1	
315 - 3.15	0.65	1.25	2.7	4.1	5.4	6.8	8.1	9.5	11	12	
315 - 3.94	0.85	1.6	3.5	5.3	7	8.7	10.5	12	14	15.5	
354 - 1.77	0.4	1	2.2	3.3	4.4	5.5	6.6	7.7	8.8	Std. rotor: 48000	
354 - 2.36	0.7	1.4	3	4.5	6	7.5	9	10.5	12		
354 - 3.15	1	1.9	4	6	8	10	12	14	16		
354 - 3.94	1.3	2.4	5.1	7.7	10.2	13	15.5	18	20.5		
419 - 1.77	0.6	1.4	3.8	5.7	7.6	9.2	10	Std. rotor: 36000			
419 - 2.56	1	2.3	5.7	8.4	11	13.5	15				
419 - 3.15	1.4	3.2	7.2	10.6	14	17	19				
419 - 3.94	1.9	4.3	9.2	13	17.5	21	23.5				
419 - 4.72	2.3	5.2	11	16	21	25.5	28.5				
472 - 1.50	0.8	1.8	4.7	7.4	9.4	11	12.5	Std. rotor: 36000			
472 - 2.25	1.5	3.3	7.5	11	14	16.5	18.5				
472 - 3.00	2.3	4.7	10	14.5	18.5	21.5	24				
472 - 3.75	3.2	6.2	12.5	18	23	27	30				
472 - 4.75	4.3	7.8	16	23	29	34	38				
472 - 5.75	5.4	9.5	19	28	35	41	46				
472 - 6.75	6.5	11	22	33	42	49	55				
472 - 7.75	7.5	12.5	25	38	48	56	62				
532 - 1.50	0.93	2	5	7.5	9.5	11	Std. rotor: 30000				
532 - 2.00	1.5	3.1	7.3	11	14	16.5					
532 - 2.75	2.4	4.8	11	16.5	21	24.5					
532 - 4.25	4.2	8.3	17.5	26	33	38					
532 - 5.75	6.3	12	24	36	45	52					
532 - 7.25	8	15	30	45	57	66					
622 - 2.00	2.7	4.8	10.1	15.5	20	Std. rotor: 25000 Spl. rotor: 40000					
622 - 2.75	3.8	6.8	14.5	23	29.5						
622 - 3.87	5.5	10.5	21.5	32	41						
622 - 4.25	6.4	12	23.5	35	45						
622 - 5.75	9.4	16	32	48	62						
622 - 7.25	12	20	40	61	78						
622 - 10.75	18	30	60	90	115						
782 - 1.69	4.2	7	14	21	Std. rotor: 19000 Spl. rotor: 30000						
782 - 2.44	6.3	10.5	21.5	32							
782 - 2.94	7.8	13	26	39							
782 - 3.94	10.5	17.5	35	53							
782 - 5.44	15	24.5	49	74							
782 - 6.94	19	31	63	95							
782 - 7.94	21.5	36	72	108							
782 - 8.94	24	40	81	122							
782 - 9.94	27	45	90	135							
782 - 10.94	30	50	100	150							
945 - 2.94	11.5	22	40	50	Std. rotor: 16000 Spl. rotor: 25000						
945 - 3.44	15.5	26	47	58							
945 - 4.69	21	35	64	79							
945 - 5.94	27	45	81	100							
945 - 7.94	36	60	108	133							
945 - 9.94	45	75	135	166							
945 - 11.94	54	90	162	199							
945 - 13.94	63	105	189	232							
1063 - 2.75	15	25	45	Std. rotor: 14000 Spl. rotor: 21000							
1063 - 4.00	22	37	66								
1063 - 6.00	33	55	98								
1063 - 7.00	38	63	114								
1063 - 9.00	49	82	147								
1063 - 10.50	57	95	171								
1063 - 12.50	68	113	204								
1063 - 14.50	79	131	237								
1063 - 16.50	90	150	270								



REULAND PARTIAL MOTORS

Stator & Rotor Sets

2 POLE	POWER TABLE - LIQUID COOLED (TELC)										
Frequency (Hz)	60	100	200	300	400	500	600	700	800	900	Max. speed
Syn. speed (r/min)	3600	6000	12000	18000	24000	30000	36000	42000	48000	54000	(r/min)
(F) - (BM)	POWER (HP)										
1181 - 5.56	42	63	102								Std. rotor: 13000 Spl. rotor: 19000
1181 - 7.06	53	80	130								
1181 - 9.06	68	102	166								
1181 - 10.06	76	113	184								
1181 - 11.06	84	124	202								
1181 - 13.06	99	146	239								
1181 - 15.06	114	169	276								
1181 - 17.06	129	192	313								
1181 - 19.06	144	215	350								
1338 - 5.00	49	74	121								Std. rotor: 11000 Spl. rotor: 17000
1338 - 7.50	73	110	180								
1338 - 9.50	92	139	227								
1338 - 12.00	116	175	286								
1338 - 14.50	140	211	345								
1338 - 17.00	164	247	404								
1338 - 19.00	183	276	451								
1338 - 21.00	200	302	-								
1476 - 4.63	53	80	131								Std. rotor: 10000 Spl. rotor: 15000
1476 - 5.63	64	97	159								
1476 - 7.13	81	122	200								
1476 - 9.13	104	157	257								
1476 - 11.13	127	192	314								
1476 - 13.13	150	227	372								
1476 - 16.13	185	280	459								
1476 - 19.13	220	331	542								
1476 - 22.13	255	385	-								
1694 - 5.63	120	181									Std. rotor: 8750 Spl. rotor: 13000
1694 - 7.13	152	229									
1694 - 9.13	195	294									
1694 - 12.13	260	392									
1694 - 15.13	325	490									
1694 - 18.13	390	588									
1694 - 21.13	454	685									
1694 - 24.13	518	-									
1889 - 7.19	205	309									Std. rotor: 7500 Spl. rotor: 10000
1889 - 9.19	262	395									
1889 - 10.19	290	436									
1889 - 11.19	318	479									
1889 - 13.19	375	565									
1889 - 15.19	432	651									
1889 - 17.19	489	737									
1889 - 20.19	574	865									
1889 - 23.19	659	-									
1889 - 26.19	744	-									

NOTES:

1. FRAME SIZE: (F) dimension represents the stator diameter (BH), in inches having a decimal two places to the left (Ex: F of 1181 = BH of 11.81). The (BM) dimension represents the stator core-length in inches.

2. POWER: The horsepower values represent the maximum continuous duty power allowable at a given speed using standard rotor of a given frame with adequate liquid cooling. For application sizing, the frame is selected based on the power tables above and the windings are designed to meet the individual power requirements of the application. TELC maximum power ratings are based on winding temperature rise of 130°C. Consult factory for performance using special rotor.

3. MAXIMUM SPEED: For standard rotor, this is the maximum allowable speed using die-cast rotor construction and standard rotor bores. For special rotor, this is the maximum allowable speed using die-cast rotor construction with encapsulation and standard rotor bores.



REULAND PARTIAL MOTORS

Stator & Rotor Sets

2 POLE	POWER TABLE - FAN COOLED (TEFC)										
Frequency (Hz)	60	100	200	300	400	500	600	700	800	900	Max. speed
Syn. speed (r/min)	3600	6000	12000	18000	24000	30000	36000	42000	48000	54000	(r/min)
(F) - (BM)	POWER (HP)										
315 - 0.98	0.06	0.075	0.1	0.12	0.12	0.12	0.11	0.1	0.1	0.1	Std. rotor: 54000
315 - 2.17	0.21	0.26	0.35	0.4	0.42	0.42	0.4	0.39	0.37	0.35	
315 - 3.15	0.4	0.49	0.66	0.77	0.78	0.78	0.75	0.71	0.68	0.66	
315 - 3.94	0.5	0.63	0.87	1	1.05	1.05	1	0.95	0.9	0.87	
354 - 1.77	0.26	0.31	0.43	0.5	0.52	0.52	0.49	0.46	0.43	Std. rotor: 48000	
354 - 2.36	0.43	0.52	0.78	0.87	0.87	0.87	0.83	0.78	0.75		
354 - 3.15	0.7	0.87	1.2	1.3	1.3	1.3	1.2	1.2	1.1		
354 - 3.94	1	1.2	1.5	1.7	1.7	1.7	1.6	1.5	1.4		
419 - 1.77	0.35	0.47	0.7	0.7	0.7	0.7	0.52	Std. rotor: 36000			
419 - 2.56	0.61	0.87	1.2	1.2	1.2	1.2	1.1				
419 - 3.15	1	1.3	1.9	1.9	1.9	1.7	1.5				
419 - 3.94	1.4	1.8	2.6	2.8	2.8	2.6	2.2				
419 - 4.72	1.7	2.2	3.3	3.5	3.5	3.1	2.8				
472 - 1.50	0.43	0.61	0.87	0.87	0.87	0.87	0.7	Std. rotor: 36000			
472 - 2.25	0.78	1	1.5	1.5	1.5	1.5	1.3				
472 - 3.00	1.2	1.5	2.3	2.4	2.4	2.3	2.1				
472 - 3.75	1.7	2.3	3.3	3.5	3.5	3.3	3.1				
472 - 4.75	2.3	3	4.3	4.5	4.5	4.3	4.1				
472 - 5.75	2.8	3.8	5.6	5.7	5.7	5.4	5.2				
472 - 6.75	3.5	4.5	6.6	7	7	6.6	6.3				
472 - 7.75	4	5.3	7.7	8	8	7.7	7.4				
532 - 1.50	0.7	0.87	1.1	1.1	1.1	1.1	Std. rotor: 30000				
532 - 2.00	1.1	1.4	1.7	1.7	1.7	1.6					
532 - 2.75	1.6	2.3	2.6	2.8	2.7	2.5					
532 - 4.25	2.8	3.8	4.7	4.9	4.7	4.5					
532 - 5.75	4.2	5.7	7	7.3	7	6.6					
532 - 7.25	5.4	7.3	8.9	9.3	9	8.5					
622 - 2.00	1.9	2.6	3	2.8	2.8	Std. rotor: 25000 Spl. rotor: 40000					
622 - 2.75	2.8	3.7	4.3	4.2	4						
622 - 3.87	4	5.3	6.1	6	5.8						
622 - 4.25	4.7	6.1	7.2	7	6.8						
622 - 5.75	7	8.9	10.6	10.3	10						
622 - 7.25	8.8	11	13.5	13	12.5						
622 - 10.75	13	16.5	20	19.5	19						
782 - 1.69	2.8	3.5	4.2	4.2	Std. rotor: 19000 Spl. rotor: 30000						
782 - 2.44	4.3	5.6	6.6	6.6							
782 - 2.94	5.2	7	8.2	8.2							
782 - 3.94	7.2	9.2	11	11							
782 - 5.44	10	12.5	15	15							
782 - 6.94	13	16	19	19							
782 - 7.94	15	18.5	22	22							
782 - 8.94	16.5	21	25	25							
782 - 9.94	19	23.5	28	28							
782 - 10.94	21	26	31	31							
945 - 2.94	8.5	9.7	10.5	9.9	Std. rotor: 16000 Spl. rotor: 25000						
945 - 3.44	11.5	13	14.5	13							
945 - 4.69	16	17.5	19	18							
945 - 5.94	20	22.5	24.5	22.5							
945 - 7.94	26.5	30	33	30							
945 - 9.94	33	38	42	39							
945 - 11.94	40	45	50	46							
945 - 13.94	47	52	58	53							
1063 - 2.75	10	11	12.5	Std. rotor: 14000 Spl. rotor: 21000							
1063 - 4.00	15	16.5	18.5								
1063 - 6.00	22.5	25	27.5								
1063 - 7.00	26	29	32								
1063 - 9.00	33	37	41								
1063 - 10.50	38	43	48								
1063 - 12.50	46	51	56								
1063 - 14.50	53	60	66								
1063 - 16.50	60	68	76								



REULAND PARTIAL MOTORS

Stator & Rotor Sets

2 POLE	POWER TABLE - FAN COOLED (TEFC)										Max. speed (r/min)
	60	100	200	300	400	500	600	700	800	900	
Frequency (Hz)	60	100	200	300	400	500	600	700	800	900	
Syn. speed (r/min)	3600	6000	12000	18000	24000	30000	36000	42000	48000	54000	
(F) - (BM)	POWER (HP)										
1181 - 5.56	29	32	34								Std. rotor: 13000 Spl. rotor: 19000
1181 - 7.06	36	40	44								
1181 - 9.06	46	52	56								
1181 - 10.06	52	58	62								
1181 - 11.06	58	64	68								
1181 - 13.06	68	76	82								
1181 - 15.06	78	86	94								
1181 - 17.06	88	98	106								
1181 - 19.06	98	110	118								
1338 - 5.00	33	37	40								Std. rotor: 11000 Spl. rotor: 17000
1338 - 7.50	49	55	59								
1338 - 9.50	62	70	74								
1338 - 12.00	78	88	94								
1338 - 14.50	94	106	114								
1338 - 17.00	110	124	134								
1338 - 19.00	124	138	148								
1338 - 21.00	136	152	162								
1476 - 4.63	36	38	40								Std. rotor: 10000 Spl. rotor: 15000
1476 - 5.63	43	46	48								
1476 - 7.13	54	57	61								
1476 - 9.13	69	73	78								
1476 - 11.13	85	90	95								
1476 - 13.13	101	107	113								
1476 - 16.13	124	132	139								
1476 - 19.13	149	158	166								
1476 - 22.13	172	182	193								
1694 - 5.63	56	60									Std. rotor: 8750 Spl. rotor: 13000
1694 - 7.13	71	76									
1694 - 9.13	90	97									
1694 - 12.13	120	129									
1694 - 15.13	152	161									
1694 - 18.13	182	193									
1694 - 21.13	211	225									
1694 - 24.13	241	257									
1889 - 7.19	114	123									Std. rotor: 7500 Spl. rotor: 10000
1889 - 9.19	147	156									
1889 - 10.19	162	174									
1889 - 11.19	180	192									
1889 - 13.19	210	225									
1889 - 15.19	243	261									
1889 - 17.19	276	294									
1889 - 20.19	324	345									
1889 - 23.19	372	396									
1889 - 26.19	420	447									

NOTES:

- 1. FRAME SIZE:** (F) dimension represents the stator diameter (BH), in inches having a decimal two places to the left (Ex: F of 1181 = BH of 11.81). The (BM) dimension represents the stator core-length in inches.
- 2. POWER:** The horsepower values represent the maximum continuous duty power allowable at a given speed using standard rotor of a given frame with adequate air cooling. For application sizing, the frame is selected based on the power tables above and the windings are designed to meet the individual power requirements of the application. TEFC maximum power ratings are based on winding temperature rise of 80°C. Consult factory for performance using special rotor.
- 3. MAXIMUM SPEED:** For standard rotor, this is the maximum allowable speed using die-cast rotor construction and standard rotor bores. For special rotor, this is the maximum allowable speed using die-cast rotor construction with encapsulation and standard rotor bores.



REULAND PARTIAL MOTORS

Stator & Rotor Sets

2 POLE	POWER TABLE - NON VENTED (TENV)										
Frequency (Hz)	60	100	200	300	400	500	600	700	800	900	Max. speed
Syn. speed (r/min)	3600	6000	12000	18000	24000	30000	36000	42000	48000	54000	(r/min)
(F) - (BM)	POWER (HP)										
315 - 0.98	0.035	0.043	0.06	0.067	0.07	0.07	0.065	0.062	0.06	0.058	Std. rotor: 54000
315 - 2.17	0.12	0.15	0.2	0.23	0.24	0.24	0.23	0.22	0.21	0.2	
315 - 3.15	0.23	0.28	0.38	0.44	0.45	0.45	0.43	0.41	0.39	0.38	
315 - 3.94	0.3	0.36	0.5	0.57	0.6	0.6	0.58	0.55	0.52	0.5	
354 - 1.77	0.15	0.18	0.25	0.29	0.3	0.3	0.29	0.27	0.25	Std. rotor: 48000	
354 - 2.36	0.25	0.3	0.45	0.5	0.5	0.5	0.48	0.45	0.41		
354 - 3.15	0.4	0.5	0.68	0.77	0.77	0.77	0.73	0.67	0.6		
354 - 3.94	0.55	0.65	0.9	1	1	1	0.95	0.87	0.8		
419 - 1.77	0.2	0.27	0.4	0.4	0.4	0.4	0.3	Std. rotor: 36000			
419 - 2.56	0.35	0.5	0.7	0.7	0.7	0.7	0.6				
419 - 3.15	0.55	0.75	1.1	1.1	1.1	1	0.9				
419 - 3.94	0.8	1.1	1.5	1.6	1.6	1.5	1.3				
419 - 4.72	1	1.3	1.9	2	2	1.8	1.6				
472 - 1.50	0.25	0.35	0.5	0.5	0.5	0.5	0.4	Std. rotor: 36000			
472 - 2.25	0.45	0.6	0.9	0.9	0.9	0.9	0.8				
472 - 3.00	0.7	0.9	1.3	1.4	1.4	1.3	1.2				
472 - 3.75	1	1.3	1.9	2	2	1.9	1.8				
472 - 4.75	1.3	1.7	2.5	2.6	2.6	2.5	2.4				
472 - 5.75	1.6	2.2	3.2	3.3	3.3	3.1	3				
472 - 6.75	2	2.6	3.8	4	4	3.8	3.6				
472 - 7.75	2.3	3	4.4	4.6	4.6	4.4	4.2				
532 - 1.50	0.4	0.5	0.6	0.6	0.58	0.55	Std. rotor: 30000				
532 - 2.00	0.6	0.8	1	1	0.95	0.9					
532 - 2.75	0.9	1.3	1.5	1.6	1.5	1.4					
532 - 4.25	1.6	2.2	2.7	2.8	2.7	2.6					
532 - 5.75	2.4	3.3	4	4.2	4	3.8					
532 - 7.25	3.1	4.2	5.1	5.3	5.1	4.9					
622 - 2.00	1.1	1.5	1.7	1.6	1.5	Std. rotor: 25000 Spl. rotor: 40000					
622 - 2.75	1.6	2.1	2.5	2.4	2.3						
622 - 3.87	2.3	3	3.5	3.4	3.3						
622 - 4.25	2.7	3.5	4.1	4	3.9						
622 - 5.75	4	5.1	6.1	5.9	5.7						
622 - 7.25	5	6.5	7.7	7.5	7.3						
622 - 10.75	7.5	9.6	11.6	11.3	11						
782 - 1.69	1.6	2	2.4	2.4	Std. rotor: 19000 Spl. rotor: 30000						
782 - 2.44	2.5	3.2	3.8	3.8							
782 - 2.94	3.1	4	4.7	4.7							
782 - 3.94	4.1	5.3	6.3	6.3							
782 - 5.44	5.7	7.4	8.8	8.8							
782 - 6.94	7.3	9.3	11	11							
782 - 7.94	8.5	10.5	13	13							
782 - 8.94	9.5	12	14.5	14.5							
782 - 9.94	10.7	13.5	16	16							
782 - 10.94	12	15	18	18							
945 - 2.94	4.5	5.1	5.6	5.2	Std. rotor: 16000 Spl. rotor: 25000						
945 - 3.44	6.1	6.8	7.6	7							
945 - 4.69	8.3	9.3	10.2	9.5							
945 - 5.94	10.6	12	13	12							
945 - 7.94	14	16	17.5	16							
945 - 9.94	17.5	20	22	20							
945 - 11.94	21	24	26.5	24.5							
945 - 13.94	24.5	28	31	29							
1063 - 2.75	5	5.6	6.2	Std. rotor: 14000 Spl. rotor: 21000							
1063 - 4.00	7.4	8.3	9.2								
1063 - 6.00	11	12.5	14								
1063 - 7.00	13	14.5	16								
1063 - 9.00	16.5	18.5	20.5								
1063 - 10.50	19	21.5	24								
1063 - 12.50	23	25.5	28								
1063 - 14.50	26.5	30	33								
1063 - 16.50	30	34	38								



REULAND PARTIAL MOTORS

Stator & Rotor Sets

2 POLE	POWER TABLE - NON VENTED (TENV)										
Frequency (Hz)	60	100	200	300	400	500	600	700	800	900	Max. speed
Syn. speed (r/min)	3600	6000	12000	18000	24000	30000	36000	42000	48000	54000	(r/min)
(F) - (BM)	POWER (HP)										
1181 - 5.56	14	16	17								Std. rotor: 13000 Spl. rotor: 19000
1181 - 7.06	18	20	22								
1181 - 9.06	23	26	28								
1181 - 10.06	26	29	31								
1181 - 11.06	29	32	34								
1181 - 13.06	34	38	41								
1181 - 15.06	39	43	47								
1181 - 17.06	44	49	53								
1181 - 19.06	49	55	59								
1338 - 5.00	16.5	18.5	20								Std. rotor: 11000 Spl. rotor: 17000
1338 - 7.50	24.5	27.5	29.5								
1338 - 9.50	31	35	37								
1338 - 12.00	39	44	47								
1338 - 14.50	47	53	57								
1338 - 17.00	55	62	67								
1338 - 19.00	62	69	74								
1338 - 21.00	68	76	81								
1476 - 4.63	17	18	19								Std. rotor: 10000 Spl. rotor: 15000
1476 - 5.63	20.5	22	23								
1476 - 7.13	26	27	29								
1476 - 9.13	33	35	37								
1476 - 11.13	40	43	45								
1476 - 13.13	48	51	54								
1476 - 16.13	59	63	66								
1476 - 19.13	71	75	79								
1476 - 22.13	82	87	92								
1694 - 5.63	24.5	26									Std. rotor: 8750 Spl. rotor: 13000
1694 - 7.13	31	33									
1694 - 9.13	39	42									
1694 - 12.13	52	56									
1694 - 15.13	66	70									
1694 - 18.13	79	84									
1694 - 21.13	92	98									
1694 - 24.13	105	112									
1889 - 7.19	38	41									Std. rotor: 7500 Spl. rotor: 10000
1889 - 9.19	49	52									
1889 - 10.19	54	58									
1889 - 11.19	60	64									
1889 - 13.19	70	75									
1889 - 15.19	81	87									
1889 - 17.19	92	98									
1889 - 20.19	108	115									
1889 - 23.19	124	132									
1889 - 26.19	140	149									

NOTES:

- 1. FRAME SIZE:** (F) dimension represents the stator diameter (BH), in inches having a decimal two places to the left (Ex: F of 1181 = BH of 11.81). The (BM) dimension represents the stator core-length in inches.
- 2. POWER:** The horsepower values represent the maximum continuous duty power allowable at a given speed using standard rotor of a given frame. For application sizing, the frame is selected based on the power tables above and the windings are designed to meet the individual power requirements of the application. TENV maximum power ratings are based on winding temperature rise of 80°C. Consult factory for performance using special rotor.
- 3. MAXIMUM SPEED:** For standard rotor, this is the maximum allowable speed using die-cast rotor construction and standard rotor bores. For special rotor, this is the maximum allowable speed using die-cast rotor construction with encapsulation and standard rotor bores.



REULAND PARTIAL MOTORS

Stator & Rotor Sets

2 POLE PRODUCT CODE

SHELL	ENCLOSURE	FRAME SIZE (F)	CORE LENGTH (BM)	# OF POLES	ROTOR ID BORE (CA)	ROTOR OD (DB)	ROTOR FIN CODE	SENSOR CODE
				2				
S - FOR THE STANDARD SHELL (SEE STATOR TABLE) C - FOR A CUSTOM SHELL X - NO SHELL/ BLANKED STATOR OD M - NO SHELL/ MACHINED STATOR	L - LIQUID COOLED (TELC) F - FAN COOLED (TEFC) N - NON VENTED (TENV)	FRAME SIZE (F) SEE POWER TABLES	CORE LENGTH (BM) SEE POWER TABLES		(A) FOR BLANKED Ø (A) (B) FOR BLANKED Ø (B) (C) FOR CUSTOM MACHINED Ø SEE ROTOR TABLE	(P) FOR PUNCHED DIAMETER (SEE STAMPED STATOR ID ON STATOR TABLE) (M) FOR STANDARD MACHINED DIAMETER (SEE ROTOR TABLE) (C) FOR CUSTOM MACHINED DIAMETER	ROTOR FINS REQUIRED Y - YES N - NO	ENTER VALUE FROM ROW 1 OF SENSOR TABLE

LEGEND

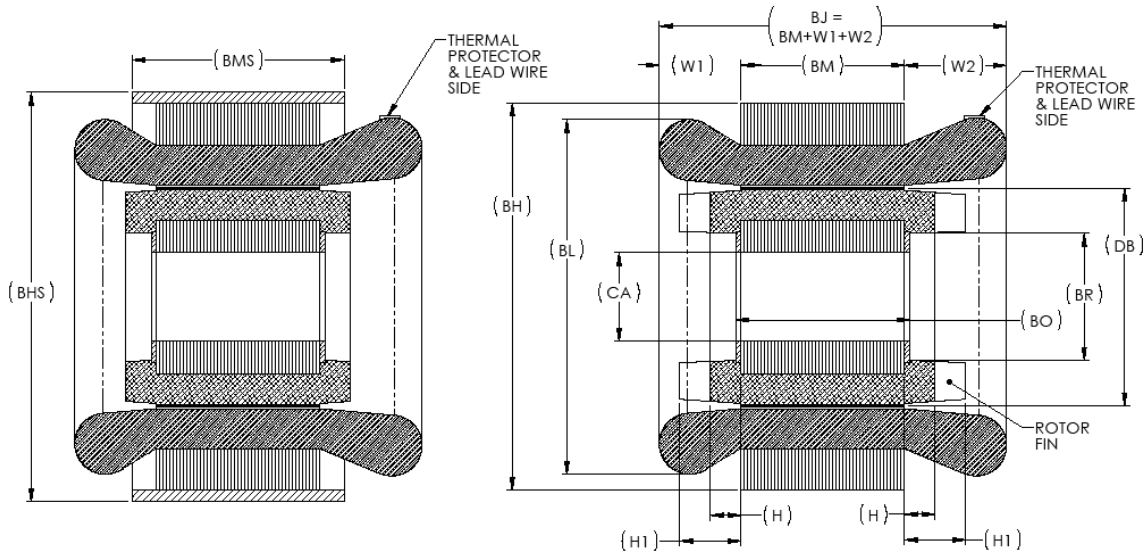
1. **SHELL:** Determine if a shell is required for the application. If a custom shell is required consult factory for availability.
2. **ENCLOSURE:** Type of cooling (TELC, TEFC & TENV).
3. **FRAME SIZE (F):** See power tables & dimension tables for required frame.
4. **CORE LENGTH (BM):** See power tables for required core length. Custom lengths available, consult factory.
5. **ROTOR ID BORE (CA):** See dimension tables for available blanked diameters. Consult factory for custom rotor ID's.
6. **ROTOR OD (DB):** See dimension tables for blanked diameters, standard machined diameters or consult factory for custom machined diameters.
7. **ROTOR FIN CODE:** Are rotor fins required?
8. **SENSOR CODE:** See sensor code table for configurations. Consult factory for other options.



REULAND PARTIAL MOTORS

Release: Jan 2012

Stator & Rotor Sets



2 POLE DATA

FRAME SIZE	STATOR						
	STAMPED STATOR ID	BH	(SHELL) BHS	(SHELL) BMS	W ¹ (max)	LEAD SIDE W ² (max)	BL (max)
315	1.574	3.149	3.500	BM + 0.5	.78	.95	2.9
354	1.772	3.543	4.000	BM + 0.5	.85	1.00	3.3
419	2.560	4.192	4.500	BM + 0.5	1.00	1.25	3.8
472	2.441	4.723	4.703	BM + 0.47	1.15	1.40	4.5
532	2.756	5.314	5.703	BM + 0.47	1.25	1.50	5.2
622	3.347	6.222	6.468	BM + 0.47	1.35	1.70	6
782	4.331	7.814	8.000	BM + 1.19	1.50	2.00	7.5
945	5.315	9.447	10.000	BM + 1.19	2.00	2.25	9.2
1063	5.905	10.629	11.000	BM + 1.06	2.25	2.50	10.1
1181	6.500	11.810	12.375	BM + 1.06	2.50	2.75	11.5
1338	7.480	13.386	14.000	BM + 3	3.00	3.25	12.5
1476	8.465	14.763	15.000	BM + 3.37	3.25	3.50	13.8
1694	9.448	16.949	17.500	BM + 3.37	3.50	4.00	16.5
1889	11.417	18.897	19.500	BM + 3.31	4.50	5.00	18.5

FRAME SIZE	ROTOR									
	DB (mach.)	BO (mach.)	(without fins)		(with fins)			CA (blanked Ø)		CA (mach.) (max)
			BR	H	BR	H	H ¹	A	B	
315	1.554	BM	-	-	-	-	-	-	-	0.687
354	1.752	BM	-	-	-	-	-	-	-	0.75
419	2.536	BM + 0.25	1.660	.315	-	-	-	.710	.748	1.5
472	2.411	BM + 0.25	1.378	.400	1.378	.400	.750	.984	-	*1.4
532	2.726	BM + 0.25	1.650	.600	1.789	.750	1.050	.990	-	1.57
622	3.317	BM + 0.25	2.000	.531	2.000	.531	1.000	.990	1.490	*2.3
782	4.291	BM + 0.25	2.500	.550	2.500	.625	1.250	1.490	1.990	*2.7
945	5.275	BM + 0.25	3.090	.750	3.090	.750	1.500	1.740	2.165	*3.2
1063	5.855	BM + 0.25	3.750	.875	3.750	.875	1.875	1.990	2.559	3.6
1181	6.44	BM + 0.25	3.500	.950	-	-	-	2.490	2.952	*3.9
1338	7.41	BM + 0.25	4.200	.781	3.380	.781	2.500	2.740	3.149	4.1
1476	8.385	BM + 0.25	4.800	1.000	4.800	1.000	1.700	2.740	3.346	4.5
1654	9.358	BM + 0.25	5.850	1.350	-	-	-	3.937	4.331	5.5
1889	11.307	BM + 0.25	6.572	1.590	-	-	-	4.331	4.724	6.3

* requires use of a non standard end ring with large "BR" or machining of "BR" dimension to achieve max. "CA" dimension.



REULAND PARTIAL MOTORS

Stator & Rotor Sets

SENSORS	
VALUE	OPTION
1	(1) 150 °C N.C. THERMAL SWITCH
2	(3) 150 °C N.C. THERMAL SWITCH, 1 PER PHASE
3	(1) 100 ohm PLATINUM RTD
4	(1) type "J" THERMOCOUPLE
5	(1) type "K" THERMOCOUPLE
6	(1) type "T" THERMOCOUPLE
7	(1) PTC THERMISTOR
8	(1) NTC THERMISTOR
Z	OTHER

TOLERANCE		
w/shell		w/out shell
±.250	BJ	±.250
-	BH	+0.003/-0.002
0.000/-0.002	BHS	-
-	BM	±.060
0.000/-0.030	BMS	-
±.030	BO	±.030
±.200	BL	±.200
0.000/-0.001	CA	0.000/-0.001
±.025	BR	±.025
±.200	BP	±.200
±.001	DB*	±.001

* "DB" Customer to finish turn rotor to specified diameter and balance. Reuland may finish-turn upon request.

NOTES

1. Straight bore without keyway is standard.
2. Maximum bore shown is for standard die cast rotors without keyway; with keyway, reduce by keyway depth. Larger bores may be available using die cast rotors with non standard laminations and/or fabricated rotor construction. (Consult factory.)
3. Blanked bore is as die punched.
4. Speeds higher than the base 60 Hz rating may limit the maximum bore.
5. Standard lead length is 3 feet.



REULAND PARTIAL MOTORS

Stator & Rotor Sets

4 POLE	POWER TABLE - LIQUID COOLED (TELC)										
Frequency (Hz)	60	100	200	300	400	500	600	700	800	900	Max. speed
Syn. speed (r/min)	1800	3000	6000	9000	12000	15000	18000	21000	24000	27000	(r/min)
(F) - (BM)	POWER (HP)										
315 - 0.98	0.09	0.23	0.65	1	1.4	1.8	2.2	2.6	3	3.4	Std. rotor: 48000
315 - 2.17	0.32	0.7	1.7	2.6	3.4	4.2	5	5.8	6.6	7.4	
315 - 3.15	0.55	1.1	2.6	3.9	5.2	6.5	7.8	9	10.2	11.5	
315 - 3.94	0.75	1.5	3.4	5.1	6.8	8.5	10	11.5	13	14.5	
354 - 1.77	0.3	0.8	1.7	2.6	3.5	4.4	5.3	6.2	7.1	8	Std. rotor: 42000
354 - 2.36	0.5	1.2	2.5	3.8	5.2	6.5	7.8	9.1	10.4	11.5	
354 - 3.15	0.75	1.6	3.5	5.3	7.1	8.9	10.7	12.5	14.5	16	
354 - 3.94	1	2.1	4.5	6.8	9.1	11.5	14	16	18	20	
419 - 1.77	0.6	1.5	3.2	4.8	6.4	7.6	8.7	9.5	10	10.5	Std. rotor: 36000
419 - 2.56	1	2.3	4.7	7	9.3	11	12.5	13.5	14.5	15.5	
419 - 3.15	1.3	2.9	5.9	8.8	11.5	14	16	17.5	19	20	
419 - 3.94	1.7	3.7	7.4	11	14.5	17.5	20.5	22.5	24	25	
419 - 4.72	2.1	4.5	9	13.5	18	22	25.5	28	30	31	
472 - 1.50	0.65	1.5	3.6	5.5	7.3	8.8	10	11	12	12.5	Std. rotor: 30000
472 - 2.25	1.2	2.6	5.6	8.4	11	13	15	17	18	19	
472 - 3.00	1.7	3.5	7.5	11.5	15	18	20.5	22.5	24.5	26	
472 - 3.75	2.3	4.4	9.4	14	18.5	22.5	25.5	28	30	32	
472 - 4.75	3.1	6	12	18	24	29	33	36	38	40	
472 - 5.75	3.8	7.3	14.5	22	29.5	35	40	43	46	48	
472 - 6.75	4.5	8.6	17	25.5	34	41	47	51	54	57	
472 - 7.75	5.2	9.9	20	30	40	47	54	59	63	66	
532 - 1.50	1.1	2.4	5.3	8	10.6	12.5	14.5	16	17	18	Std. rotor: 28000
532 - 2.00	1.7	3.7	7.3	10.8	14.5	17.5	20	22	24	25	
532 - 2.75	2.5	5.1	10	15	20	24	27.5	31	33	35	
532 - 4.25	4.1	7.9	15.5	23	31	37	42	47	50	53	
532 - 5.75	5.9	10.7	21.5	32	43	52	59	65	69	73	
532 - 7.25	7.5	13.5	27.5	41	55	66	75	83	88	93	
622 - 2.00	2.6	5.4	12	18	24.5	29	29	29			Std. rotor: 23000 Spl. rotor: 33000
622 - 2.75	3.9	8	17	25.5	34	41	41	41			
622 - 3.87	5.8	11.5	24	36	49	58	58	58			
622 - 4.25	6.7	13	26.5	40	54	64	64	64			
622 - 5.75	9.4	18	36	54	73	87	87	87			
622 - 7.25	12	23	46	69	92	110	110	110			
622 - 10.75	18	34	68	102	136	164	164	164			
782 - 1.69	3.4	7	17	27	30	30					Std. rotor: 17000 Spl. rotor: 25000
782 - 2.44	5.4	11	25	39	43	43					
782 - 2.94	7	14	31	47	52	52					
782 - 3.94	10	19	42	63	70	70					
782 - 5.44	15	28	59	87	97	97					
782 - 6.94	20	36	76	112	125	125					
782 - 7.94	23	42	87	129	143	143					
782 - 8.94	26	48	98	146	162	162					
782 - 9.94	29	54	109	163	181	181					
782 - 10.94	32	60	120	180	200	200					
945 - 2.94	13	25	48	51	51						Std. rotor: 14000 Spl. rotor: 21000
945 - 3.44	16	29	57	61	61						
945 - 4.69	23	40	78	83	83						
945 - 5.94	30	51	99	106	106						
945 - 7.94	41	69	133	142	142						
945 - 9.94	52	87	168	180	180						
945 - 11.94	62	104	202	215	215						
945 - 13.94	72	121	235	250	250						
1063 - 2.75	14	28	47	47	47						Std. rotor: 12500 Spl. rotor: 19000
1063 - 4.00	23	42	70	70	70						
1063 - 6.00	36	63	105	105	105						
1063 - 7.00	44	74	123	123	123						
1063 - 9.00	57	96	160	160	160						
1063 - 10.50	67	112	186	186	186						
1063 - 12.50	80	134	223	223	223						
1063 - 14.50	94	157	261	261	261						
1063 - 16.50	108	180	300	300	300						



REULAND PARTIAL MOTORS

Stator & Rotor Sets

4 POLE	POWER TABLE - LIQUID COOLED (TELC)										
Frequency (Hz)	60	100	200	300	400	500	600	700	800	900	Max. speed
Syn. speed (r/min)	1800	3000	6000	9000	12000	15000	18000	21000	24000	27000	(r/min)
(F) - (BM)	POWER (HP)										
1181 - 5.56	49	82	99	99							Std. rotor: 11000 Spl. rotor: 17000
1181 - 7.06	63	105	126	126							
1181 - 9.06	81	135	163	163							
1181 - 10.06	90	150	181	181							
1181 - 11.06	99	166	200	200							
1181 - 13.06	117	197	238	238							
1181 - 15.06	136	228	275	275							
1181 - 17.06	155	259	313	313							
1181 - 19.06	174	290	350	350							
1338 - 5.00	57	96	106	106							Std. rotor: 10000 Spl. rotor: 15000
1338 - 7.50	86	145	160	160							
1338 - 9.50	110	184	202	202							
1338 - 12.00	139	233	256	256							
1338 - 14.50	168	282	310	310							
1338 - 17.00	198	331	364	364							
1338 - 19.00	222	370	406	406							
1338 - 21.00	246	410	450	450							
1476 - 4.63	64	107	112	112							Std. rotor: 9000 Spl. rotor: 13000
1476 - 5.63	78	131	137	137							
1476 - 7.13	99	167	175	175							
1476 - 9.13	128	214	225	225							
1476 - 11.13	157	262	275	275							
1476 - 13.13	186	310	325	325							
1476 - 16.13	229	381	400	400							
1476 - 19.13	272	453	475	475							
1476 - 22.13	315	525	550	550							
1694 - 5.63	105	176	176								Std. rotor: 8000 Spl. rotor: 11000
1694 - 7.13	133	223	223								
1694 - 9.13	171	286	286								
1694 - 12.13	228	381	381								
1694 - 15.13	285	475	475								
1694 - 18.13	342	570	570								
1694 - 21.13	399	665	665								
1694 - 24.13	456	760	760								
1889 - 7.19	195	297	297								Std. rotor: 6500 Spl. rotor: 9000
1889 - 9.19	250	382	382								
1889 - 10.19	278	424	424								
1889 - 11.19	306	466	466								
1889 - 13.19	361	550	550								
1889 - 15.19	416	635	635								
1889 - 17.19	471	719	719								
1889 - 20.19	554	846	846								
1889 - 23.19	637	972	972								
1889 - 26.19	720	1100	-								

NOTES:

1. FRAME SIZE: (F) dimension represents the stator diameter (BH), in inches having a decimal two places to the left (Ex: F of 1181 = BH of 11.81). The (BM) dimension represents the stator core-length in inches.

2. POWER: The horsepower values represent the maximum continuous duty power allowable at a given speed using standard rotor of a given frame with adequate liquid cooling. For application sizing, the frame is selected based on the power tables above and the windings are designed to meet the individual power requirements of the application. TELC maximum power ratings are based on winding temperature rise of 130°C. Consult factory for performance using special rotor.

3. MAXIMUM SPEED: For standard rotor, this is the maximum allowable speed using die-cast rotor construction and standard rotor bores. For special rotor, this is the maximum allowable speed using die-cast rotor construction with encapsulation and standard rotor bores.



REULAND PARTIAL MOTORS

Stator & Rotor Sets

4 POLE	POWER TABLE - FAN COOLED (TEFC)										
Frequency (Hz)	60	100	200	300	400	500	600	700	800	900	Max. speed (r/min)
Syn. speed (r/min)	1800	3000	6000	9000	12000	15000	18000	21000	24000	27000	
(F) - (BM)	POWER (HP)										
315 - 0.98	0.045	0.061	0.09	0.11	0.12	0.12	0.12	0.12	0.11	0.11	Std. rotor: 48000
315 - 2.17	0.16	0.22	0.33	0.39	0.42	0.42	0.42	0.4	0.39	0.38	
315 - 3.15	0.3	0.42	0.63	0.73	0.78	0.78	0.78	0.77	0.76	0.75	
315 - 3.94	0.4	0.57	0.84	1	1.05	1.05	1.05	1.03	1.02	1.01	
354 - 1.77	0.17	0.24	0.35	0.45	0.52	0.52	0.52	0.49	0.45	0.42	Std. rotor: 42000
354 - 2.36	0.28	0.45	0.7	0.8	0.87	0.87	0.87	0.83	0.78	0.75	
354 - 3.15	0.47	0.75	1.05	1.2	1.3	1.3	1.3	1.2	1.1	1.1	
354 - 3.94	0.65	1	1.4	1.6	1.7	1.7	1.7	1.6	1.5	1.5	
419 - 1.77	0.33	0.5	0.6	0.7	0.7	0.7	0.66	0.63	0.6	0.56	Std. rotor: 36000
419 - 2.56	0.57	0.85	1.05	1.2	1.2	1.2	1.1	1.05	0.98	0.95	
419 - 3.15	0.84	1.2	1.7	1.9	1.9	1.9	1.8	1.7	1.6	1.5	
419 - 3.94	1.1	1.6	2.4	2.8	2.8	2.8	2.6	2.4	2.3	2.2	
419 - 4.72	1.5	2.1	3.1	3.5	3.5	3.5	3.3	3.1	2.9	2.8	
472 - 1.50	0.35	0.5	0.7	0.87	0.87	0.77	0.66	0.6	0.54	0.5	Std. rotor: 30000
472 - 2.25	0.63	0.82	1.2	1.5	1.5	1.4	1.2	1.1	1	0.87	
472 - 3.00	0.87	1.1	1.7	2.1	2.1	1.8	1.6	1.4	1.3	1.2	
472 - 3.75	1.2	1.5	2.4	3.1	3.1	2.7	2.4	2.1	1.9	1.7	
472 - 4.75	1.5	2.2	3.3	4.2	4.2	3.7	3.2	2.9	2.6	2.2	
472 - 5.75	1.9	2.9	4.2	5.6	5.6	4.9	4.2	3.8	3.4	3	
472 - 6.75	2.4	3.5	5	6.5	6.5	5.7	5	4.5	4	3.6	
472 - 7.75	2.8	4	6	7.7	7.7	6.9	6.1	5.4	4.9	4.3	
532 - 1.50	0.82	1	1.05	1.05	1.05	0.98	0.92	0.85	0.8	0.75	Std. rotor: 28000
532 - 2.00	1.1	1.5	1.7	1.7	1.7	1.5	1.5	1.4	1.3	1.2	
532 - 2.75	1.5	2.2	2.6	2.8	2.8	2.6	2.4	2.2	2.1	1.9	
532 - 4.25	2.6	3.4	4.2	4.7	4.7	4.4	4.2	3.8	3.5	3.3	
532 - 5.75	4	5	6.3	7.3	7.3	6.8	6.4	6	5.6	5.2	
532 - 7.25	5	6.6	8.2	9.2	9.2	8.7	8.2	7.7	7.1	6.6	
622 - 2.00	1.7	2.2	2.6	2.9	2.9	2.8	2.6	2.2			Std. rotor: 23000 Spl. rotor: 33000
622 - 2.75	2.6	3.6	4.2	4.5	4.7	4.3	4	3.6			
622 - 3.87	3.8	5.4	6.3	6.8	7	6.4	5.9	5.4			
622 - 4.25	4.5	6.3	7.3	7.8	8.2	7.5	7	6.3			
622 - 5.75	6.4	8.9	10.5	11	11.5	10.8	9.8	8.9			
622 - 7.25	8.2	11	13	14	14.5	13.5	12.5	11			
622 - 10.75	12	16	20	22	22.5	21	19.5	17.5			
782 - 1.69	2.1	2.6	3.3	3.6	3.3	3.1					Std. rotor: 17000 Spl. rotor: 25000
782 - 2.44	3.1	4.3	5.4	6.1	5.6	5.2					
782 - 2.94	4.3	5.2	7	7.7	7.2	6.4					
782 - 3.94	6.3	7.8	10	11	10.5	9.6					
782 - 5.44	9.6	12	15	17	15.5	14.5					
782 - 6.94	13	16	20	23	21	19					
782 - 7.94	15	18.5	23.5	26	24	22					
782 - 8.94	17	21	26	29	27	25					
782 - 9.94	19	23.5	29	32.5	30.5	28					
782 - 10.94	21	26	32	36	34	31					
945 - 2.94	8.2	9.7	11	10.5	9.7						Std. rotor: 14000 Spl. rotor: 21000
945 - 3.44	10.5	12	14	13	12						
945 - 4.69	15	17	20	19	17						
945 - 5.94	19	22.5	26	24	22.5						
945 - 7.94	25.5	30	35	32	30						
945 - 9.94	32	39	45	42	39						
945 - 11.94	40	47	55	51	47						
945 - 13.94	47	55	64	60	55						
1063 - 2.75	8.2	10.2	11	10.6	10						Std. rotor: 12500 Spl. rotor: 19000
1063 - 4.00	13.5	17	18.5	17.5	16.5						
1063 - 6.00	21	26	28	27	26						
1063 - 7.00	25	32	34	32	31						
1063 - 9.00	34	42	46	43	42						
1063 - 10.50	39	49	53	51	48						
1063 - 12.50	48	60	64	62	58						
1063 - 14.50	56	70	75	72	68						
1063 - 16.50	64	80	86	82	78						



REULAND PARTIAL MOTORS

Stator & Rotor Sets

4 POLE	POWER TABLE - FAN COOLED (TEFC)										
Frequency (Hz)	60	100	200	300	400	500	600	700	800	900	Max. speed
Syn. speed (r/min)	1800	3000	6000	9000	12000	15000	18000	21000	24000	27000	(r/min)
(F) - (BM)	POWER (HP)										
1181 - 5.56	28	34	38	36							Std. rotor: 11000 Spl. rotor: 17000
1181 - 7.06	35	43	48	45							
1181 - 9.06	44	54	62	58							
1181 - 10.06	51	62	70	64							
1181 - 11.06	56	68	76	72							
1181 - 13.06	66	80	90	84							
1181 - 15.06	76	94	104	98							
1181 - 17.06	88	106	120	112							
1181 - 19.06	98	120	134	126							
1338 - 5.00	32	38	42	40							Std. rotor: 10000 Spl. rotor: 15000
1338 - 7.50	47	58	64	60							
1338 - 9.50	60	74	82	78							
1338 - 12.00	76	94	104	98							
1338 - 14.50	92	114	126	120							
1338 - 17.00	110	134	150	140							
1338 - 19.00	124	152	170	160							
1338 - 21.00	138	168	188	178							
1476 - 4.63	36	41	46	43							Std. rotor: 9000 Spl. rotor: 13000
1476 - 5.63	44	50	57	52							
1476 - 7.13	56	63	71	67							
1476 - 9.13	71	82	90	86							
1476 - 11.13	88	101	111	105							
1476 - 13.13	105	120	132	126							
1476 - 16.13	128	147	164	153							
1476 - 19.13	153	174	195	184							
1476 - 22.13	176	202	225	212							
1694 - 5.63	64	74	78								Std. rotor: 8000 Spl. rotor: 11000
1694 - 7.13	81	92	99								
1694 - 9.13	102	117	125								
1694 - 12.13	136	156	166								
1694 - 15.13	172	196	210								
1694 - 18.13	207	235	253								
1694 - 21.13	241	276	294								
1694 - 24.13	276	315	338								
1889 - 7.19	123	147	168								Std. rotor: 6500 Spl. rotor: 9000
1889 - 9.19	159	191	216								
1889 - 10.19	177	213	240								
1889 - 11.19	195	237	267								
1889 - 13.19	228	276	312								
1889 - 15.19	264	321	363								
1889 - 17.19	300	363	411								
1889 - 20.19	354	426	486								
1889 - 23.19	405	492	558								
1889 - 26.19	459	555	630								

NOTES:

- 1. FRAME SIZE:** (F) dimension represents the stator diameter (BH), in inches having a decimal two places to the left (Ex: F of 1181 = BH of 11.81). The (BM) dimension represents the stator core-length in inches.
- 2. POWER:** The horsepower values represent the maximum continuous duty power allowable at a given speed using standard rotor of a given frame with adequate air cooling. For application sizing, the frame is selected based on the power tables above and the windings are designed to meet the individual power requirements of the application. TEFC maximum power ratings are based on winding temperature rise of 80°C. Consult factory for performance using special rotor.
- 3. MAXIMUM SPEED:** For standard rotor, this is the maximum allowable speed using die-cast rotor construction and standard rotor bores. For special rotor, this is the maximum allowable speed using die-cast rotor construction with encapsulation and standard rotor bores.



REULAND PARTIAL MOTORS

Stator & Rotor Sets

4 POLE	POWER TABLE - NON VENTED (TENV)										Max. speed (r/min)
	Frequency (Hz)	60	100	200	300	400	500	600	700	800	
Syn. speed (r/min)	1800	3000	6000	9000	12000	15000	18000	21000	24000	27000	
(F) - (BM)	POWER (HP)										
315 - 0.98	0.027	0.035	0.052	0.061	0.07	0.07	0.07	0.068	0.063	0.063	Std. rotor: 48000
315 - 2.17	0.096	0.13	0.19	0.22	0.24	0.24	0.24	0.23	0.22	0.22	
315 - 3.15	0.17	0.24	0.36	0.42	0.45	0.45	0.45	0.44	0.43	0.43	
315 - 3.94	0.23	0.33	0.48	0.54	0.6	0.6	0.6	0.59	0.58	0.58	
354 - 1.77	0.1	0.14	0.21	0.26	0.3	0.3	0.3	0.28	0.26	0.24	Std. rotor: 42000
354 - 2.36	0.17	0.26	0.39	0.45	0.5	0.5	0.5	0.48	0.45	0.43	
354 - 3.15	0.27	0.4	0.6	0.7	0.77	0.77	0.77	0.74	0.7	0.68	
354 - 3.94	0.38	0.57	0.8	0.93	1	1	1	0.97	0.93	0.89	
419 - 1.77	0.19	0.3	0.35	0.4	0.4	0.4	0.38	0.36	0.34	0.32	Std. rotor: 36000
419 - 2.56	0.33	0.53	0.6	0.7	0.7	0.7	0.67	0.62	0.58	0.56	
419 - 3.15	0.48	0.7	1	1.1	1.1	1.1	1	0.95	0.89	0.85	
419 - 3.94	0.67	1	1.4	1.6	1.6	1.6	1.5	1.4	1.3	1.2	
419 - 4.72	0.86	1.2	1.8	2	2	2	1.9	1.8	1.7	1.6	
472 - 1.50	0.2	0.29	0.38	0.5	0.5	0.44	0.38	0.35	0.31	0.28	Std. rotor: 30000
472 - 2.25	0.36	0.47	0.67	0.9	0.9	0.8	0.69	0.61	0.53	0.47	
472 - 3.00	0.5	0.67	1	1.2	1.2	1.1	0.97	0.85	0.75	0.65	
472 - 3.75	0.7	0.9	1.4	1.8	1.8	1.6	1.4	1.2	1.1	1	
472 - 4.75	0.9	1.3	1.9	2.4	2.4	2.1	1.9	1.7	1.5	1.3	
472 - 5.75	1.1	1.7	2.4	3.2	3.2	2.8	2.5	2.2	2	1.8	
472 - 6.75	1.3	2	2.9	3.7	3.7	3.3	2.9	2.6	2.3	2.1	
472 - 7.75	1.5	2.3	3.5	4.4	4.4	3.9	3.5	3.1	2.8	2.5	
532 - 1.50	0.47	0.58	0.6	0.6	0.6	0.56	0.53	0.49	0.46	0.43	Std. rotor: 28000
532 - 2.00	0.68	0.9	1	1	1	0.9	0.88	0.83	0.77	0.71	
532 - 2.75	0.9	1.3	1.5	1.6	1.6	1.5	1.4	1.3	1.2	1.1	
532 - 4.25	1.5	2	2.4	2.7	2.7	2.5	2.4	2.2	2	1.9	
532 - 5.75	2.3	2.9	3.6	4.2	4.2	3.9	3.7	3.4	3.2	3	
532 - 7.25	2.9	3.8	4.7	5.3	5.3	5	4.7	4.4	4.1	3.8	
622 - 2.00	1	1.3	1.5	1.7	1.7	1.6	1.5	1.3			Std. rotor: 23000 Spl. rotor: 33000
622 - 2.75	1.5	2.1	2.4	2.6	2.7	2.5	2.3	2.1			
622 - 3.87	2.2	3.1	3.6	3.9	4	3.7	3.4	3.1			
622 - 4.25	2.6	3.6	4.2	4.5	4.7	4.3	4	3.6			
622 - 5.75	3.7	5.1	6	6.4	6.7	6.2	5.6	5.1			
622 - 7.25	4.7	6.4	7.5	8.1	8.4	7.8	7.1	6.4			
622 - 10.75	7	9.6	11.5	12.5	13	12	11	10			
782 - 1.69	1.2	1.5	1.9	2.1	1.9	1.7					Std. rotor: 17000 Spl. rotor: 25000
782 - 2.44	2	2.5	3.1	3.5	3.2	2.8					
782 - 2.94	2.5	3	4	4.4	4.1	3.7					
782 - 3.94	3.6	4.5	5.7	6.4	5.9	5.5					
782 - 5.44	5.5	6.9	8.7	9.6	8.9	8.3					
782 - 6.94	7.4	9.2	11.5	12.5	12	11					
782 - 7.94	8.5	10.6	13.5	14.5	13.5	12.5					
782 - 8.94	9.6	12	15	16.5	15.5	14.5					
782 - 9.94	10.8	13.5	17	18.5	17.5	16					
782 - 10.94	12	15	19	21	19.5	18					
945 - 2.94	4.3	5.1	5.9	5.5	5.1						Std. rotor: 14000 Spl. rotor: 21000
945 - 3.44	5.4	6.3	7.3	6.8	6.3						
945 - 4.69	7.8	9.1	10.5	9.9	9.1						
945 - 5.94	10.2	12	13.5	13	12						
945 - 7.94	13.5	16	18.5	17.5	16						
945 - 9.94	17	20.5	23.5	22	20.5						
945 - 11.94	20	25	28.5	26.5	25						
945 - 13.94	23.5	29	33	31	29						
1063 - 2.75	4.1	5.1	5.5	5.3	5						Std. rotor: 12500 Spl. rotor: 19000
1063 - 4.00	6.8	8.5	9.2	8.8	8.3						
1063 - 6.00	10.7	13.5	15	14.5	14						
1063 - 7.00	13	16	18	17	16.5						
1063 - 9.00	17	21	23	22	21						
1063 - 10.50	20	24.5	26.5	25.5	24						
1063 - 12.50	24	30	32	31	29						
1063 - 14.50	28	35	37.5	36	34						
1063 - 16.50	32	40	43	41	39						



REULAND PARTIAL MOTORS

Stator & Rotor Sets

4 POLE	POWER TABLE - NON VENTED (TENV)										
Frequency (Hz)	60	100	200	300	400	500	600	700	800	900	Max. speed
Syn. speed (r/min)	1800	3000	6000	9000	12000	15000	18000	21000	24000	27000	(r/min)
(F) - (BM)	POWER (HP)										
1181 - 5.56	14	17	19	18							Std. rotor: 11000 Spl. rotor: 17000
1181 - 7.06	17.5	21.5	24	23							
1181 - 9.06	22.5	28	31	29							
1181 - 10.06	25	31	35	32							
1181 - 11.06	28	34	38	35							
1181 - 13.06	33	40	45	42							
1181 - 15.06	38	47	52	49							
1181 - 17.06	44	53	60	56							
1181 - 19.06	50	60	67	63							
1338 - 5.00	15.5	19	21	20							Std. rotor: 10000 Spl. rotor: 15000
1338 - 7.50	23.5	29	32	30							
1338 - 9.50	30	37	41	39							
1338 - 12.00	38	47	52	49							
1338 - 14.50	46	57	63	60							
1338 - 17.00	55	67	75	70							
1338 - 19.00	62	76	85	80							
1338 - 21.00	69	84	94	89							
1476 - 4.63	17.5	20	22	20.5							Std. rotor: 9000 Spl. rotor: 13000
1476 - 5.63	21	24	27	25							
1476 - 7.13	26.5	30	34	32							
1476 - 9.13	34	39	43	41							
1476 - 11.13	42	48	53	50							
1476 - 13.13	50	57	63	60							
1476 - 16.13	61	70	78	73							
1476 - 19.13	73	83	93	88							
1476 - 22.13	84	96	107	101							
1694 - 5.63	28	32	34								Std. rotor: 8000 Spl. rotor: 11000
1694 - 7.13	35	40	43								
1694 - 9.13	44	51	54								
1694 - 12.13	59	68	72								
1694 - 15.13	75	86	91								
1694 - 18.13	90	103	110								
1694 - 21.13	105	120	128								
1694 - 24.13	120	137	147								
1889 - 7.19	41	49	56								Std. rotor: 6500 Spl. rotor: 9000
1889 - 9.19	53	64	72								
1889 - 10.19	59	71	80								
1889 - 11.19	65	79	89								
1889 - 13.19	76	92	104								
1889 - 15.19	88	107	121								
1889 - 17.19	100	121	137								
1889 - 20.19	118	142	162								
1889 - 23.19	135	164	186								
1889 - 26.19	153	185	210								

NOTES:

- 1. FRAME SIZE:** (F) dimension represents the stator diameter (BH), in inches having a decimal two places to the left (Ex: F of 1181 = BH of 11.81). The (BM) dimension represents the stator core-length in inches.
- 2. POWER:** The horsepower values represent the maximum continuous duty power allowable at a given speed using standard rotor of a given frame. For application sizing, the frame is selected based on the power tables above and the windings are designed to meet the individual power requirements of the application. TENV maximum power ratings are based on winding temperature rise of 80°C. Consult factory for performance using special rotor.
- 3. MAXIMUM SPEED:** For standard rotor, this is the maximum allowable speed using die-cast rotor construction and standard rotor bores. For special rotor, this is the maximum allowable speed using die-cast rotor construction with encapsulation and standard rotor bores.



REULAND PARTIAL MOTORS

Stator & Rotor Sets

Release: Jan 2012

4 POLE PRODUCT CODE

SHELL	ENCLOSURE	FRAME SIZE (F)	CORE LENGTH (BM)	# OF POLES	ROTOR ID BORE (CA)	ROTOR OD (DB)	ROTOR FIN CODE	SENSOR CODE
				4				
S - FOR THE STANDARD SHELL (SEE STATOR TABLE) C - FOR A CUSTOM SHELL X - NO SHELL/ BLANKED STATOR OD M - NO SHELL/ MACHINED STATOR	L - LIQUID COOLED (TELC) F - FAN COOLED (TEFC) N - NON VENTED (TENV)	FRAME SIZE (F) SEE POWER TABLES	CORE LENGTH (BM) SEE POWER TABLES		(A) FOR BLANKED Ø (A) (B) FOR BLANKED Ø (B) (C) FOR CUSTOM MACHINED Ø SEE ROTOR TABLE	(P) FOR PUNCHED DIAMETER (SEE STAMPED STATOR ID ON STATOR TABLE) (M) FOR STANDARD MACHINED DIAMETER (SEE ROTOR TABLE) (C) FOR CUSTOM MACHINED DIAMETER	ROTOR FINS REQUIRED Y - YES N - NO	ENTER VALUE FROM ROW 1 OF SENSOR TABLE

LEGEND

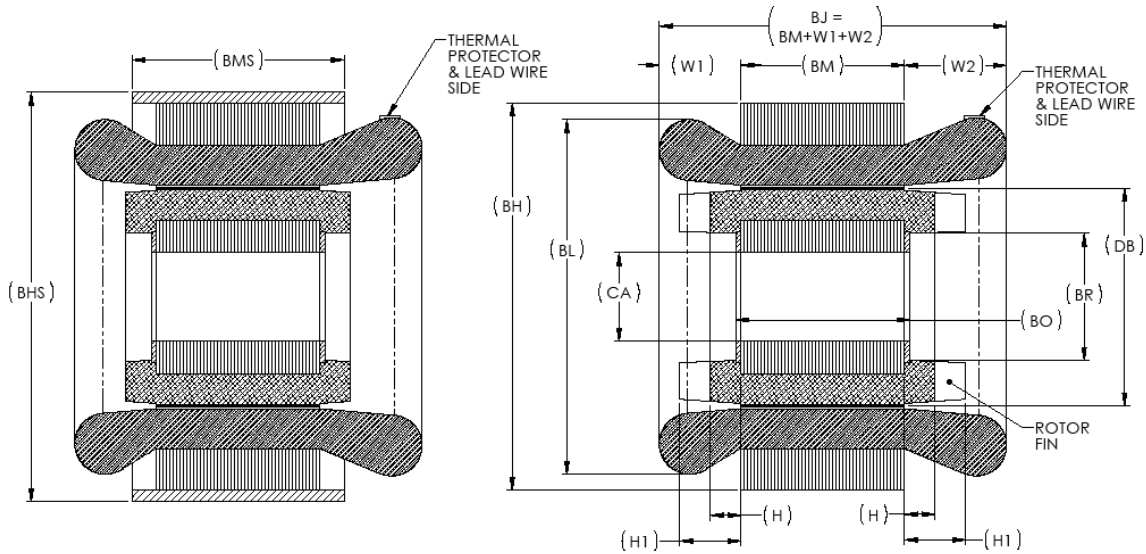
- SHELL:** Determine if a shell is required for the application. If a custom shell is required consult factory for availability.
- ENCLOSURE:** Type of cooling (TELC, TEFC & TENV).
- FRAME SIZE (F):** See power tables & dimension tables for required frame.
- CORE LENGTH (BM):** See power tables for required core length. Custom lengths available, consult factory.
- ROTOR ID BORE (CA):** See dimension tables for available blanked diameters. Consult factory for custom rotor ID's.
- ROTOR OD (DB):** See dimension tables for blanked diameters, standard machined diameters or consult factory for custom machined diameters.
- ROTOR FIN CODE:** Are rotor fins required?
- SENSOR CODE:** See sensor code table for configurations. Consult factory for other options.



REULAND PARTIAL MOTORS

Release: Jan 2012

Stator & Rotor Sets



4 POLE DATA

FRAME SIZE	STATOR						
	STAMPED STATOR ID	BH	(SHELL) BHS	(SHELL) BMS	W ¹ (max)	LEAD SIDE W ² (max)	BL (max)
315	1.772	3.149	3.500	BM + 0.5	.78	.95	2.9
354	2.005	3.543	4.000	BM + 0.5	.85	1.00	3.3
419	2.560	4.192	4.500	BM + 0.5	1.00	1.25	3.8
472	2.756	4.723	4.703	BM + 0.47	1.15	1.40	4.5
532	3.149	5.314	5.703	BM + 0.47	1.25	1.50	5.2
622	3.876	6.222	6.468	BM + 0.47	1.35	1.70	6
782	4.921	7.814	8.000	BM + 1.19	1.50	2.00	7.5
945	5.905	9.447	10.000	BM + 1.19	2.00	2.25	9.2
1063	6.693	10.629	11.000	BM + 1.06	2.25	2.50	10.1
1181	7.480	11.810	12.375	BM + 1.06	2.50	2.75	11.5
1338	8.465	13.386	14.000	BM + 3	3.00	3.25	12.5
1476	9.448	14.763	15.000	BM + 3.37	3.25	3.50	13.8
1694	10.630	16.949	17.500	BM + 3.37	3.50	4.00	16.5
1889	12.795	18.897	19.500	BM + 3.31	4.50	5.00	18.5

FRAME SIZE	ROTOR									
	DB (mach.)	BO (mach.)	(without fins)		(with fins)			CA (blanked Ø)		CA (mach.) (max)
			BR	H	BR	H	H ¹	A	B	
315	1.748	BM	-	-	-	-	-	-	-	.75
354	1.981	BM	1.200	.334	-	-	-	-	-	.875
419	2.536	BM + 0.25	1.660	.315	-	-	-	.710	.748	1.5
472	2.732	BM + 0.25	1.706	.400	1.706	.400	.750	.984	-	1.65
532	3.119	BM + 0.25	2.030	.511	2.030	.511	1.031	.990	-	1.81
622	3.846	BM + 0.25	2.837	.656	2.837	.656	1.280	.990	1.490	2.73
782	4.881	BM + 0.25	3.493	.718	3.493	.718	1.250	1.490	1.990	*3.65
945	5.865	BM + 0.25	3.750	.625	3.829	.678	1.350	1.740	2.165	3.75
1063	6.643	BM + 0.25	4.567	.708	4.567	.708	2.086	1.990	2.559	4.5
1181	7.420	BM + 0.25	5.300	.781	5.300	.781	2.530	2.490	2.952	4.9
1338	8.395	BM + 0.25	5.875	.750	-	-	-	2.740	3.149	5.5
1476	9.368	BM + 0.25	6.000	.625	-	-	-	2.740	3.346	5.9
1694	10.540	BM + 0.25	-	-	-	-	-	3.937	4.331	6.5
1889	12.685	BM + 0.25	7.875	.750	-	-	-	4.331	4.724	7.0

* requires use of a non standard end ring with large "BR" or machining of "BR" dimension to achieve max. "CA" dimension.



REULAND PARTIAL MOTORS

Stator & Rotor Sets

SENSORS	
VALUE	OPTION
1	(1) 150 °C N.C. THERMAL SWITCH
2	(3) 150 °C N.C. THERMAL SWITCH, 1 PER PHASE
3	(1) 100 ohm PLATINUM RTD
4	(1) type "J" THERMOCOUPLE
5	(1) type "K" THERMOCOUPLE
6	(1) type "T" THERMOCOUPLE
7	(1) PTC THERMISTOR
8	(1) NTC THERMISTOR
Z	OTHER

TOLERANCE		
w/shell		w/out shell
±.250	BJ	±.250
-	BH	+0.003/-0.002
0.000/-0.002	BHS	-
-	BM	±.060
0.000/-0.030	BMS	-
±.030	BO	±.030
±.200	BL	±.200
0.000/-0.001	CA	0.000/-0.001
±.025	BR	±.025
±.200	BP	±.200
±.001	DB*	±.001

* "DB" Customer to finish turn rotor to specified diameter and balance. Reuland may finish-turn upon request.

NOTES

1. Straight bore without keyway is standard.
2. Maximum bore shown is for standard die cast rotors without keyway; with keyway, reduce by keyway depth. Larger bores may be available using die cast rotors with non standard laminations and/or fabricated rotor construction. (Consult factory.)
3. Blanked bore is as die punched.
4. Speeds higher than the base 60 Hz rating may limit the maximum bore.
5. Standard lead length is 3 feet.



REULAND PARTIAL MOTORS

Stator & Rotor Sets

6 POLE	POWER TABLE - LIQUID COOLED (TELC)										
Frequency (Hz)	60	100	200	300	400	500	600	700	800	900	Max. speed
Syn. speed (r/min)	1200	2000	4000	6000	8000	10000	12000	14000	16000	18000	(r/min)
(F) - (BM)	POWER (HP)										
315 - 0.98											
315 - 2.17											
315 - 3.15											
315 - 3.94											
354 - 1.77											
354 - 2.36											
354 - 3.15											
354 - 3.94											
419 - 1.77	0.35	0.8	1.8	2.9	3.8	4.7	5.8	6.7	7.6	8.6	Std. rotor: 30000
419 - 2.56	0.6	1.2	2.7	4.2	5.5	6.9	8.4	9.7	11	12.5	
419 - 3.15	0.75	1.5	3.4	5.2	6.8	8.6	10.4	12	13.5	15.5	
419 - 3.94	1	2	4.3	6.5	8.6	10.8	13	15	17	19	
419 - 4.72	1.2	2.4	5.2	7.8	10.4	13	15.5	18	20.5	23	
472 - 1.50	0.5	1.1	2.6	3.9	5.4	6.7	8	9	9.6	10.3	Std. rotor: 28000
472 - 2.25	0.8	1.7	3.9	5.8	8.1	10.1	12	13.5	14.5	15.5	
472 - 3.00	1.2	2.4	5.2	7.8	10.8	13.5	16	18	19.5	21	
472 - 3.75	1.5	3	6.5	9.8	13.5	17	20	22.5	24.5	26	
472 - 4.75	2	3.8	8.3	12.5	17	21.5	25.5	28.5	31	33	
472 - 5.75	2.5	4.7	10	15	20.5	26	31	35	38	41	
472 - 6.75	3	5.6	12	18	24	31	36	41	44	48	
472 - 7.75	3.5	6.5	14	21	28	35	42	47	51	55	
532 - 1.50	0.7	1.4	3.4	5.1	6.8	8.6	10.5	11.5	12.5	13.5	Std. rotor: 25000 Spl. rotor: 40000
532 - 2.00	1	2	4.6	6.9	9.3	11.5	14	15	16.5	18	
532 - 2.75	1.5	2.8	6.4	9.6	13	16	19	21	23	24.5	
532 - 4.25	2.5	4.6	10	15	20	24.5	29	33	36	38	
532 - 5.75	3.4	6.3	13.5	20	26.5	33	39	44	48	51	
532 - 7.25	4.3	8	17	25.5	34	42	50	56	61	65	
622 - 2.00	1.5	3.3	6.9	10.2	13.5	17	19.5	21.5	23	24.5	Std. rotor: 19000 Spl. rotor: 30000
622 - 2.75	2.1	4.6	9.5	14	19	23.5	27	30	32	34	
622 - 3.87	3.2	6.7	13.5	20	26.5	33	38	42	45	47	
622 - 4.25	3.7	7.5	15	22	29.5	36	42	46	49	52	
622 - 5.75	5.3	10.2	20	30	40	49	57	63	67	70	
622 - 7.25	7	13	25.5	38	51	62	72	79	84	88	
622 - 10.75	10.5	19	38	57	76	92	107	118	125	130	
782 - 1.69	2	4.2	9	13.5	18	22	24.5	26.5			Std. rotor: 15000 Spl. rotor: 23000
782 - 2.44	3.5	6.2	13	19.5	26.5	32	36	39			
782 - 2.94	4.5	7.7	15.5	23.5	32	39	43	47			
782 - 3.94	6.1	10.5	21	32	43	53	58	63			
782 - 5.44	8.5	14.5	29.5	44	60	73	81	88			
782 - 6.94	10.9	19	38	57	77	94	104	113			
782 - 7.94	12.5	22	44	66	88	108	120	130			
782 - 8.94	14.5	25	50	75	100	122	136	149			
782 - 9.94	16.5	28	56	84	112	136	152	166			
782 - 10.94	18.5	31	62	93	124	150	168	183			
945 - 2.94	6.2	11.5	24	35	44	51	51			Std. rotor: 12500 Spl. rotor: 19000	
945 - 3.44	7.9	13.5	28.5	41	52	60	60				
945 - 4.69	11.5	19	39	56	71	83	83				
945 - 5.94	14.5	24.5	50	71	91	106	106				
945 - 7.94	19.5	33	67	95	122	142	142				
945 - 9.94	25	42	85	120	153	178	178				
945 - 11.94	30	51	102	145	184	214	214				
945 - 13.94	35	60	120	170	215	250	250				
1063 - 2.75	8	14	28	40	47	47			Std. rotor: 11000 Spl. rotor: 17000		
1063 - 4.00	12	21	42	61	71	71					
1063 - 6.00	18	32	64	92	108	108					
1063 - 7.00	21	37	75	107	125	125					
1063 - 9.00	28	48	97	138	162	162					
1063 - 10.50	33	57	114	162	190	190					
1063 - 12.50	40	68	136	193	226	226					
1063 - 14.50	47	79	158	224	263	263					
1063 - 16.50	54	90	180	255	300	300					



REULAND PARTIAL MOTORS

Stator & Rotor Sets

6 POLE	POWER TABLE - LIQUID COOLED (TELC)										
Frequency (Hz)	60	100	200	300	400	500	600	700	800	900	Max. speed
Syn. speed (r/min)	1200	2000	4000	6000	8000	10000	12000	14000	16000	18000	(r/min)
(F) - (BM)	POWER (HP)										
1181 - 5.56	22	36	75	104	104	104					Std. rotor: 10000 Spl. rotor: 15000
1181 - 7.06	28	46	95	132	132	132					
1181 - 9.06	36	60	122	170	170	170					
1181 - 10.06	40	67	136	189	189	189					
1181 - 11.06	44	74	150	208	208	208					
1181 - 13.06	53	88	177	246	246	246					
1181 - 15.06	62	102	204	284	284	284					
1181 - 17.06	70	116	232	322	322	322					
1181 - 19.06	78	130	260	360	360	360					
1338 - 5.00	28	47	82	109	109						Std. rotor: 9000 Spl. rotor: 13000
1338 - 7.50	42	71	123	163	163						
1338 - 9.50	54	90	156	207	207						
1338 - 12.00	68	114	197	262	262						
1338 - 14.50	82	138	238	317	317						
1338 - 17.00	96	162	279	372	372						
1338 - 19.00	108	181	312	416	416						
1338 - 21.00	120	200	345	460	460						
1476 - 4.63	37	60	90	110	110						
1476 - 5.63	45	74	111	136	136						
1476 - 7.13	57	94	141	173	173						
1476 - 9.13	73	122	182	223	223						
1476 - 11.13	89	149	223	273	273						
1476 - 13.13	105	177	265	324	324						
1476 - 16.13	130	218	327	400	400						
1476 - 19.13	155	259	389	475	475						
1476 - 22.13	180	300	450	550	550						
1694 - 5.63	63	106	174	174	174						Std. rotor: 7500 Spl. rotor: 10000
1694 - 7.13	80	135	221	221	221						
1694 - 9.13	103	174	283	283	283						
1694 - 12.13	137	231	376	376	376						
1694 - 15.13	171	288	469	469	469						
1694 - 18.13	205	345	562	562	562						
1694 - 21.13	240	402	656	656	656						
1694 - 24.13	275	460	750	750	750						
1889 - 7.19	106	177	300	300							
1889 - 9.19	135	226	383	383							
1889 - 10.19	150	251	425	425							
1889 - 11.19	165	276	467	467							
1889 - 13.19	195	326	552	552							
1889 - 15.19	225	376	636	636							
1889 - 17.19	255	425	720	720							
1889 - 20.19	300	500	847	847							
1889 - 23.19	345	575	974	974							
1889 - 26.19	390	650	1100	1100							

NOTES:

1. FRAME SIZE: (F) dimension represents the stator diameter (BH), in inches having a decimal two places to the left (Ex: F of 1181 = BH of 11.81). The (BM) dimension represents the stator core-length in inches.

2. POWER: The horsepower values represent the maximum continuous duty power allowable at a given speed using standard rotor of a given frame with adequate liquid cooling. For application sizing, the frame is selected based on the power tables above and the windings are designed to meet the individual power requirements of the application. TELC maximum power ratings are based on winding temperature rise of 130°C. Consult factory for performance using special rotor.

3. MAXIMUM SPEED: For standard rotor, this is the maximum allowable speed using die-cast rotor construction and standard rotor bores. For special rotor, this is the maximum allowable speed using die-cast rotor construction with encapsulation and standard rotor bores.



REULAND PARTIAL MOTORS

Stator & Rotor Sets

6 POLE	POWER TABLE - FAN COOLED (TEFC)										
Frequency (Hz)	60	100	200	300	400	500	600	700	800	900	Max. speed
Syn. speed (r/min)	1200	2000	4000	6000	8000	10000	12000	14000	16000	18000	(r/min)
(F) - (BM)	POWER (HP)										
315 - 0.98											
315 - 2.17											
315 - 3.15											
315 - 3.94											
354 - 1.77											
354 - 2.36											
354 - 3.15											
354 - 3.94											
419 - 1.77	0.19	0.26	0.49	0.6	0.65	0.61	0.57	0.52	0.49	0.45	Std. rotor: 30000
419 - 2.56	0.35	0.49	0.88	1.05	1.2	1.1	1.05	0.95	0.88	0.8	
419 - 3.15	0.49	0.7	1.2	1.5	1.7	1.6	1.5	1.4	1.3	1.2	
419 - 3.94	0.7	0.96	1.7	2.1	2.3	2.2	2.1	1.9	1.7	1.6	
419 - 4.72	0.88	1.2	2.3	2.7	3	2.9	2.7	2.5	2.3	2.1	
472 - 1.50	0.26	0.42	0.7	0.78	0.88	0.88	0.78	0.7	0.61	0.52	Std. rotor: 28000
472 - 2.25	0.42	0.65	1.1	1.4	1.6	1.5	1.3	1.2	1.05	0.88	
472 - 3.00	0.61	0.93	1.5	1.9	2.3	2.1	1.9	1.8	1.6	1.4	
472 - 3.75	0.78	1.2	1.9	2.5	2.9	2.7	2.4	2.3	2	1.8	
472 - 4.75	1.05	1.6	2.6	3.3	3.9	3.5	3.2	2.9	2.6	2.3	
472 - 5.75	1.3	1.9	3.2	4	4.7	4.2	3.9	3.5	3.2	2.8	
472 - 6.75	1.6	2.5	4.2	5.1	5.8	5.3	4.9	4.4	4	3.5	
472 - 7.75	1.9	3	5.1	6.3	7	6.5	6	5.4	4.9	4.4	
532 - 1.50	0.52	0.7	1.05	1.4	1.6	1.4	1.3	1.2	1.05	0.9	Std. rotor: 25000 Spl. rotor: 40000
532 - 2.00	0.7	0.96	1.5	1.9	2.1	1.9	1.8	1.6	1.4	1.2	
532 - 2.75	0.98	1.3	2.1	2.6	2.9	2.6	2.5	2.3	2.1	1.8	
532 - 4.25	1.6	2.1	3.3	4.2	4.7	4.4	4	3.7	3.3	3	
532 - 5.75	2.2	3	4.9	6	6.7	6.2	5.8	5.3	4.7	4.2	
532 - 7.25	2.8	3.9	6.2	7.5	8.4	7.9	7.4	6.7	6	5.3	
622 - 2.00	0.96	1.2	1.9	2.3	2.3	2.1	1.9	1.8	1.6	1.3	Std. rotor: 19000 Spl. rotor: 30000
622 - 2.75	1.4	1.9	3	3.5	3.5	3.2	2.8	2.5	2.3	1.9	
622 - 3.87	2.1	3	4.7	5.3	5.3	4.7	4.2	3.9	3.3	2.8	
622 - 4.25	2.5	3.3	5.3	6.1	6.1	5.4	4.9	4.4	3.9	3.3	
622 - 5.75	3.5	4.7	7.7	8.8	8.8	7.9	7.2	6.3	5.6	4.7	
622 - 7.25	4.7	6.5	10.3	11.5	11.5	10.6	9.6	8.6	7.5	6.5	
622 - 10.75	7	9.5	15	17.5	17.5	16	14.5	13	11	9.6	
782 - 1.69	1.2	1.8	2.8	3	2.8	2.6	2.3	2.1			Std. rotor: 15000 Spl. rotor: 23000
782 - 2.44	2.1	3.2	5.1	5.1	4.7	4.4	3.9	3.5			
782 - 2.94	2.8	4	6.5	6.7	6.3	5.8	5.3	4.7			
782 - 3.94	3.9	5.6	8.8	9.1	8.6	7.7	7	6.3			
782 - 5.44	5.4	7.9	12.5	13	12	11	10	9.1			
782 - 6.94	7	10	16	17	16	14	13	11.5			
782 - 7.94	8.1	11.5	18.5	19.5	18.5	16.5	15	13.5			
782 - 8.94	9.3	13.5	21	22.5	21	19	17	15.5			
782 - 9.94	10.7	15.5	24.5	26	24.5	22	20	18			
782 - 10.94	12	17.5	28	30	28	25.5	23	21			
945 - 2.94	3.8	5.5	8.7	7.8	7.2	6.3	5.5				
945 - 3.44	5	7.2	11.5	10.5	9.5	8.2	7.2				
945 - 4.69	7.4	10.6	16.5	15.5	14	12.5	10.6				
945 - 5.94	9.3	13.5	21	19.5	17.5	15.5	13.5				
945 - 7.94	12.5	18	27.5	26	24	20.5	17.5				
945 - 9.94	15.5	23	35	32	29.5	25.5	22				
945 - 11.94	18.5	27.5	44	40	36	31	26.5				
945 - 13.94	22	32	51	47	42	36	31				
1063 - 2.75	4.6	6.6	9.6	8.8	7.8	7					
1063 - 4.00	7	10.2	14.5	13	12	10.6					
1063 - 6.00	10.6	15	22	20	18	16					
1063 - 7.00	12.5	18	26	24	21.5	19					
1063 - 9.00	16.5	24	34	31	28	25					
1063 - 10.50	19.5	28	40	37	33	30					
1063 - 12.50	24	34	49	44	40	36					
1063 - 14.50	28	40	58	52	47	42					
1063 - 16.50	32	46	66	60	54	48					



REULAND PARTIAL MOTORS

Stator & Rotor Sets

6 POLE	POWER TABLE - FAN COOLED (TEFC)										
Frequency (Hz)	60	100	200	300	400	500	600	700	800	900	Max. speed
Syn. speed (r/min)	1200	2000	4000	6000	8000	10000	12000	14000	16000	18000	(r/min)
(F) - (BM)	POWER (HP)										
1181 - 5.56	13.5	20	31	28	24	19.5					Std. rotor: 10000 Spl. rotor: 15000
1181 - 7.06	17.5	25.5	40	36	31	25					
1181 - 9.06	22.5	33	51	46	40	32					
1181 - 10.06	24.5	36	56	51	44	36					
1181 - 11.06	27	40	62	56	49	40					
1181 - 13.06	32	48	74	68	58	48					
1181 - 15.06	37	55	86	78	66	56					
1181 - 17.06	42	62	100	90	78	64					
1181 - 19.06	47	70	110	100	86	71					
1338 - 5.00	18.5	32	35	31	27						Std. rotor: 9000 Spl. rotor: 13000
1338 - 7.50	28	48	52	47	41						
1338 - 9.50	35	60	66	60	52						
1338 - 12.00	44	76	82	75	66						
1338 - 14.50	54	90	100	90	80						
1338 - 17.00	64	108	118	108	94						
1338 - 19.00	72	122	134	122	108						
1338 - 21.00	80	136	150	136	120						
1476 - 4.63	22.5	37	41	38	33						Std. rotor: 8000 Spl. rotor: 11000
1476 - 5.63	27.5	45	50	46	40						
1476 - 7.13	35	57	63	58	50						
1476 - 9.13	44	72	80	74	63						
1476 - 11.13	54	88	99	90	78						
1476 - 13.13	63	105	118	107	92						
1476 - 16.13	78	130	143	131	113						
1476 - 19.13	92	155	172	158	137						
1476 - 22.13	107	181	200	183	160						
1694 - 5.63	38	64	64	58	49						Std. rotor: 7500 Spl. rotor: 10000
1694 - 7.13	48	81	81	72	62						
1694 - 9.13	61	104	104	92	79						
1694 - 12.13	81	138	138	122	106						
1694 - 15.13	103	175	175	154	133						
1694 - 18.13	124	209	209	186	159						
1694 - 21.13	145	244	244	216	186						
1694 - 24.13	166	281	281	248	214						
1889 - 7.19	81	138	138	120							Std. rotor: 6000 Spl. rotor: 8500
1889 - 9.19	105	177	177	156							
1889 - 10.19	117	195	195	174							
1889 - 11.19	129	216	216	192							
1889 - 13.19	150	252	252	222							
1889 - 15.19	174	294	294	258							
1889 - 17.19	198	333	333	294							
1889 - 20.19	234	393	393	348							
1889 - 23.19	267	450	450	396							
1889 - 26.19	303	510	510	450							

NOTES:

- 1. FRAME SIZE:** (F) dimension represents the stator diameter (BH), in inches having a decimal two places to the left (Ex: F of 1181 = BH of 11.81). The (BM) dimension represents the stator core-length in inches.
- 2. POWER:** The horsepower values represent the maximum continuous duty power allowable at a given speed using standard rotor of a given frame with adequate air cooling. For application sizing, the frame is selected based on the power tables above and the windings are designed to meet the individual power requirements of the application. TEFC maximum power ratings are based on winding temperature rise of 80°C. Consult factory for performance using special rotor.
- 3. MAXIMUM SPEED:** For standard rotor, this is the maximum allowable speed using die-cast rotor construction and standard rotor bores. For special rotor, this is the maximum allowable speed using die-cast rotor construction with encapsulation and standard rotor bores.



REULAND PARTIAL MOTORS

Stator & Rotor Sets

6 POLE	POWER TABLE - NON VENTED (TENV)										
Frequency (Hz)	60	100	200	300	400	500	600	700	800	900	Max. speed (r/min)
Syn. speed (r/min)	1200	2000	4000	6000	8000	10000	12000	14000	16000	18000	
(F) - (BM)	POWER (HP)										
315 - 0.98											
315 - 2.17											
315 - 3.15											
315 - 3.94											
354 - 1.77											
354 - 2.36											
354 - 3.15											
354 - 3.94											
419 - 1.77	0.11	0.15	0.28	0.34	0.37	0.35	0.33	0.3	0.28	0.26	Std. rotor: 30000
419 - 2.56	0.2	0.28	0.5	0.6	0.7	0.65	0.6	0.54	0.5	0.46	
419 - 3.15	0.28	0.4	0.7	0.85	1	0.92	0.85	0.79	0.72	0.67	
419 - 3.94	0.4	0.55	1	1.2	1.3	1.2	1.1	1.05	1	0.95	
419 - 4.72	0.5	0.7	1.3	1.5	1.7	1.6	1.5	1.4	1.3	1.2	
472 - 1.50	0.15	0.24	0.4	0.45	0.5	0.5	0.45	0.4	0.35	0.3	Std. rotor: 28000
472 - 2.25	0.24	0.37	0.64	0.78	0.9	0.82	0.75	0.67	0.6	0.5	
472 - 3.00	0.35	0.55	0.95	1.1	1.3	1.2	1.1	1	0.9	0.8	
472 - 3.75	0.45	0.7	1.2	1.4	1.6	1.5	1.4	1.2	1.1	1	
472 - 4.75	0.6	0.9	1.5	1.9	2.2	2	1.8	1.6	1.5	1.3	
472 - 5.75	0.72	1.1	1.8	2.3	2.7	2.4	2.2	2	1.8	1.6	
472 - 6.75	0.9	1.4	2.4	2.9	3.3	3	2.8	2.5	2.3	2	
472 - 7.75	1.1	1.7	2.9	3.6	4	3.7	3.4	3.1	2.8	2.5	
532 - 1.50	0.3	0.4	0.6	0.79	0.9	0.82	0.75	0.68	0.6	0.53	Std. rotor: 25000 Spl. rotor: 40000
532 - 2.00	0.4	0.55	0.85	1.1	1.2	1.1	1	0.9	0.8	0.7	
532 - 2.75	0.55	0.76	1.2	1.5	1.7	1.5	1.4	1.3	1.2	1	
532 - 4.25	0.9	1.2	1.9	2.4	2.7	2.5	2.3	2.1	1.9	1.7	
532 - 5.75	1.2	1.7	2.8	3.4	3.8	3.5	3.3	3	2.7	2.4	
532 - 7.25	1.6	2.2	3.5	4.3	4.8	4.5	4.2	3.8	3.4	3	
622 - 2.00	0.55	0.7	1.1	1.3	1.3	1.2	1.1	1	0.9	0.75	Std. rotor: 19000 Spl. rotor: 30000
622 - 2.75	0.8	1.1	1.7	2	2	1.8	1.6	1.4	1.3	1.1	
622 - 3.87	1.2	1.7	2.7	3	3	2.7	2.4	2.2	1.9	1.6	
622 - 4.25	1.4	1.9	3	3.5	3.5	3.1	2.8	2.5	2.2	1.9	
622 - 5.75	2	2.7	4.4	5	5	4.5	4.1	3.6	3.2	2.7	
622 - 7.25	2.7	3.7	5.9	6.7	6.7	6.1	5.5	4.9	4.3	3.7	
622 - 10.75	4	5.4	8.7	10	10	9.1	8.2	7.3	6.4	5.5	
782 - 1.69	0.7	1	1.6	1.7	1.6	1.5	1.3	1.2			Std. rotor: 15000 Spl. rotor: 23000
782 - 2.44	1.2	1.8	2.9	2.9	2.7	2.5	2.2	2			
782 - 2.94	1.6	2.3	3.7	3.8	3.6	3.3	3	2.7			
782 - 3.94	2.2	3.2	5	5.2	4.9	4.4	4	3.6			
782 - 5.44	3.1	4.5	7.2	7.5	7	6.3	5.7	5.2			
782 - 6.94	4	5.8	9.3	9.6	9.1	8.1	7.4	6.8			
782 - 7.94	4.6	6.6	10.6	11	10.5	9.4	8.5	7.8			
782 - 8.94	5.3	7.7	12	13	12	10.8	9.8	9			
782 - 9.94	6.1	8.8	14	15	14	12.5	11	10			
782 - 10.94	7	10	16	17	16	14.5	13	12			
945 - 2.94	2	2.9	4.6	4.1	3.8	3.3	2.9				
945 - 3.44	2.6	3.8	6	5.4	5	4.3	3.8				
945 - 4.69	3.9	5.6	8.8	8.1	7.4	6.5	5.6				
945 - 5.94	4.9	7.1	11	10.2	9.3	8.2	7.1				
945 - 7.94	6.5	9.3	14.5	13.5	12.5	10.8	9.3				
945 - 9.94	8.1	12	18.5	17	15.5	13.5	11.5				
945 - 11.94	9.8	14.5	23	21	19	16.5	14				
945 - 13.94	11.5	17	27	24.5	22	19	16.5				
1063 - 2.75	2.3	3.3	4.8	4.4	3.9	3.5					
1063 - 4.00	3.5	5.1	7.3	6.6	6	5.3					
1063 - 6.00	5.3	7.6	11	9.9	8.9	8					
1063 - 7.00	6.2	9	13	12	10.8	9.5					
1063 - 9.00	8.3	12	17	15.5	14	12.5					
1063 - 10.50	9.7	14	20	18.5	16.5	15					
1063 - 12.50	12	17	24.5	22.5	20	18					
1063 - 14.50	14	20	29	26	23.5	21					
1063 - 16.50	16	23	33	30	27	24					
											Std. rotor: 11000 Spl. rotor: 17000



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Stator & Rotor Sets

6 POLE	POWER TABLE - NON VENTED (TENV)										
Frequency (Hz)	60	100	200	300	400	500	600	700	800	900	Max. speed
Syn. speed (r/min)	1200	2000	4000	6000	8000	10000	12000	14000	16000	18000	(r/min)
(F) - (BM)	POWER (HP)										
1181 - 5.56	6.7	10	15.5	14	12	9.8					Std. rotor: 10000 Spl. rotor: 15000
1181 - 7.06	8.5	12.5	20	18	15.5	12.5					
1181 - 9.06	10.8	16	25.5	23	19.5	16					
1181 - 10.06	12	18	28	25	22	18					
1181 - 11.06	13.5	20	31	28	24.5	20					
1181 - 13.06	16.5	24	37	34	29	24					
1181 - 15.06	19	27.5	43	39	33	28					
1181 - 17.06	21.5	31	50	45	39	32					
1181 - 19.06	24	35	55	50	43	36					
1338 - 5.00	9.3	16	17.5	15.5	13.5						Std. rotor: 9000 Spl. rotor: 13000
1338 - 7.50	14	24	26	23.5	20.5						
1338 - 9.50	17.5	30	33	30	26						
1338 - 12.00	22	38	41	37	33						
1338 - 14.50	27	45	50	45	40						
1338 - 17.00	32	54	59	54	47						
1338 - 19.00	36	61	67	61	54						
1338 - 21.00	40	68	75	68	60						
1476 - 4.63	10.8	18	20	18	15.5						Std. rotor: 8000 Spl. rotor: 11000
1476 - 5.63	13	21.5	24	22	19						
1476 - 7.13	16.5	27	30	27.5	24						
1476 - 9.13	21	34	38	35	30						
1476 - 11.13	25.5	42	47	43	37						
1476 - 13.13	30	50	56	51	44						
1476 - 16.13	37	62	68	62	54						
1476 - 19.13	44	74	82	75	65						
1476 - 22.13	51	86	95	87	76						
1694 - 5.63	16.5	28	28	25	21.5						Std. rotor: 7500 Spl. rotor: 10000
1694 - 7.13	21	35	35	31	27						
1694 - 9.13	26.5	45	45	40	34						
1694 - 12.13	35	60	60	53	46						
1694 - 15.13	45	76	76	67	58						
1694 - 18.13	54	91	91	81	69						
1694 - 21.13	63	106	106	94	81						
1694 - 24.13	72	122	122	108	93						
1889 - 7.19	27	46	46	40							Std. rotor: 6000 Spl. rotor: 8500
1889 - 9.19	35	59	59	52							
1889 - 10.19	39	65	65	58							
1889 - 11.19	43	72	72	64							
1889 - 13.19	50	84	84	74							
1889 - 15.19	58	98	98	86							
1889 - 17.19	66	111	111	98							
1889 - 20.19	78	131	131	116							
1889 - 23.19	89	150	150	132							
1889 - 26.19	101	170	170	150							

NOTES:

- 1. FRAME SIZE:** (F) dimension represents the stator diameter (BH), in inches having a decimal two places to the left (Ex: F of 1181 = BH of 11.81). The (BM) dimension represents the stator core-length in inches.
- 2. POWER:** The horsepower values represent the maximum continuous duty power allowable at a given speed using standard rotor of a given frame. For application sizing, the frame is selected based on the power tables above and the windings are designed to meet the individual power requirements of the application. TENV maximum power ratings are based on winding temperature rise of 80°C. Consult factory for performance using special rotor.
- 3. MAXIMUM SPEED:** For standard rotor, this is the maximum allowable speed using die-cast rotor construction and standard rotor bores. For special rotor, this is the maximum allowable speed using die-cast rotor construction with encapsulation and standard rotor bores.



REULAND PARTIAL MOTORS

Stator & Rotor Sets

6 POLE PRODUCT CODE

SHELL	ENCLOSURE	FRAME SIZE (F)	CORE LENGTH (BM)	# OF POLES	ROTOR ID BORE (CA)	ROTOR OD (DB)	ROTOR FIN CODE	SENSOR CODE
				6				
S - FOR THE STANDARD SHELL (SEE STATOR TABLE) C - FOR A CUSTOM SHELL X - NO SHELL/ BLANKED STATOR OD M - NO SHELL/ MACHINED STATOR	L - LIQUID COOLED (TELC) F - FAN COOLED (TEFC) N - NON VENTED (TENV)	FRAME SIZE (F) SEE POWER TABLES	CORE LENGTH (BM) SEE POWER TABLES		(A) FOR BLANKED Ø (A) (B) FOR BLANKED Ø (B) (C) FOR CUSTOM MACHINED Ø SEE ROTOR TABLE	(P) FOR PUNCHED DIAMETER (SEE STAMPED STATOR ID ON STATOR TABLE) (M) FOR STANDARD MACHINED DIAMETER (SEE ROTOR TABLE) (C) FOR CUSTOM MACHINED DIAMETER	ROTOR FINS REQUIRED Y - YES N - NO	ENTER VALUE FROM ROW 1 OF SENSOR TABLE

LEGEND

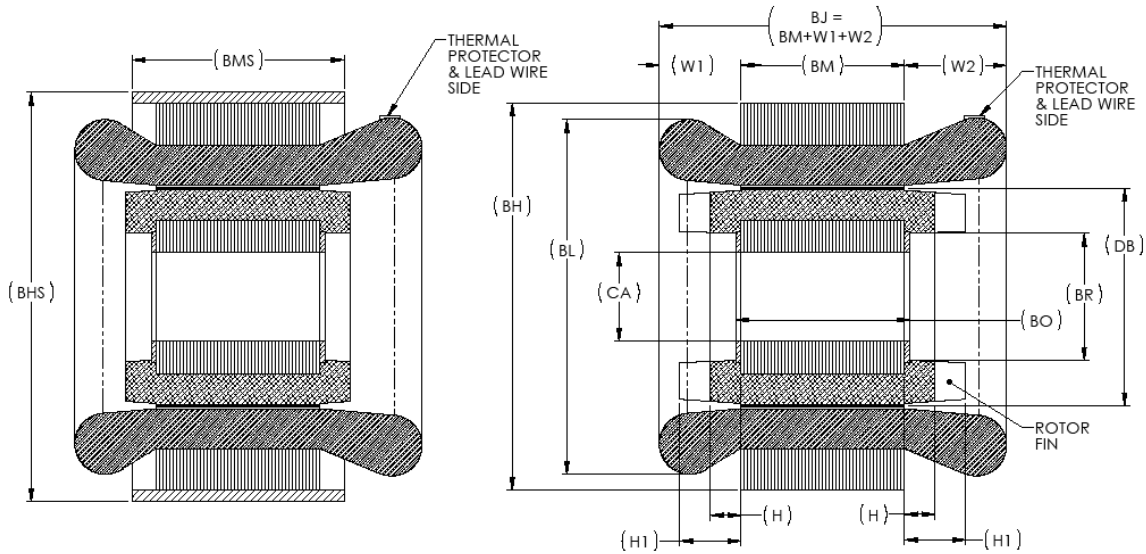
1. **SHELL:** Determine if a shell is required for the application. If a custom shell is required consult factory for availability.
2. **ENCLOSURE:** Type of cooling (TELC, TEFC & TENV).
3. **FRAME SIZE (F):** See power tables & dimension tables for required frame.
4. **CORE LENGTH (BM):** See power tables for required core length. Custom lengths available, consult factory.
5. **ROTOR ID BORE (CA):** See dimension tables for available blanked diameters. Consult factory for custom rotor ID's.
6. **ROTOR OD (DB):** See dimension tables for blanked diameters, standard machined diameters or consult factory for custom machined diameters.
7. **ROTOR FIN CODE:** Are rotor fins required?
8. **SENSOR CODE:** See sensor code table for configurations. Consult factory for other options.



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Release: Jan 2012

Stator & Rotor Sets



6 POLE DATA

FRAME SIZE	STATOR						
	STAMPED STATOR ID	BH	(SHELL) BHS	(SHELL) BMS	W ¹ (max)	LEAD SIDE W ² (max)	BL (max)
315							
354							
419	2.756	4.192	4.500	BM + 0.5	1.00	1.25	3.8
472	3.149	4.723	4.703	BM + 0.47	1.15	1.40	4.5
532	3.346	5.314	5.703	BM + 0.47	1.25	1.50	5.2
622	4.331	6.222	6.468	BM + 0.47	1.35	1.70	6
782	5.514	7.814	8.000	BM + 1.19	1.50	2.00	7.5
945	6.693	9.447	10.000	BM + 1.19	2.00	2.25	9.2
1063	7.480	10.629	11.000	BM + 1.06	2.25	2.50	10.1
1181	8.465	11.810	12.375	BM + 1.06	2.50	2.75	11.5
1338	9.448	13.386	14.000	BM + 3	3.00	3.25	12.5
1476	10.630	14.763	15.000	BM + 3.37	3.25	3.50	13.8
1694	11.417	16.949	17.500	BM + 3.37	3.50	4.00	16.5
1889	13.386	18.897	19.500	BM + 3.31	4.50	5.00	18.5

FRAME SIZE	ROTOR									
	DB (mach.)	BO (mach.)	(without fins)		(with fins)			CA (blanked Ø)		CA (mach.) (max)
			BR	H	BR	H	H ¹	A	B	
315										
354										
419	2.732	BM + 0.25	1.706	.400	1.706	.400	.750	.710	.748	1.65
472	3.125	BM + 0.25	2.030	.511	2.244	.400	.750	.984	-	2.15
532	3.316	BM + 0.25	2.450	.656	2.500	.531	1.000	.990	-	2.0
622	4.301	BM + 0.25	3.118	.343	3.118	.343	1.000	.990	1.490	*3.3
782	5.484	BM + 0.25	-	-	4.118	.375	1.000	1.490	1.990	*4.3
945	6.663	BM + 0.25	4.567	.708	4.717	.433	1.500	1.740	2.165	*4.9
1063	7.440	BM + 0.25	5.300	.781	5.157	.312	1.700	1.990	2.559	*5.9
1181	8.425	BM + 0.25	6.500	.900	6.096	.900	2.400	2.490	2.952	6.5
1338	9.398	BM + 0.25	6.000	.625	-	-	-	2.740	3.149	*6.75
1476	10.580	BM + 0.25	-	-	-	-	-	2.740	3.346	6.9
1694	11.361	BM + 0.25	7.500	.750	7.500	.650	2.500	3.937	4.331	7.5
1889	13.316	BM + 0.25	9.180	.750	9.180	.750	2.500	4.331	4.724	8.6

* requires use of a non standard end ring with large "BR" or machining of "BR" dimension to achieve max. "CA" dimension.



REULAND PARTIAL MOTORS

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SENSORS	
VALUE	OPTION
1	(1) 150 °C N.C. THERMAL SWITCH
2	(3) 150 °C N.C. THERMAL SWITCH, 1 PER PHASE
3	(1) 100 ohm PLATINUM RTD
4	(1) type "J" THERMOCOUPLE
5	(1) type "K" THERMOCOUPLE
6	(1) type "T" THERMOCOUPLE
7	(1) PTC THERMISTOR
8	(1) NTC THERMISTOR
Z	OTHER

TOLERANCE		
w/shell		w/out shell
±.250	BJ	±.250
-	BH	+0.003/-0.002
0.000/-0.002	BHS	-
-	BM	±.060
0.000/-0.030	BMS	-
±.030	BO	±.030
±.200	BL	±.200
0.000/-0.001	CA	0.000/-0.001
±.025	BR	±.025
±.200	BP	±.200
±.001	DB*	±.001

* "DB" Customer to finish turn rotor to specified diameter and balance. Reuland may finish-turn upon request.

NOTES

1. Straight bore without keyway is standard.
2. Maximum bore shown is for standard die cast rotors without keyway; with keyway, reduce by keyway depth. Larger bores may be available using die cast rotors with non standard laminations and/or fabricated rotor construction. (Consult factory.)
3. Blanked bore is as die punched.
4. Speeds higher than the base 60 Hz rating may limit the maximum bore.
5. Standard lead length is 3 feet.