



**EMERSON**<sup>™</sup>  
Industrial Automation



4607en - 2010.11 / a



**PARTNER ALTERNATORS**  
**4 Pole Low Voltage range - 7 to 2700 kVA**  
General features and ratings



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### INTRODUCTION

- This catalogue is a summary of ratings for the PARTNER range at the most common voltages around the world.  
For other voltages, please consult LEROY-SOMER.

### 1 - RATING DEFINITION

• **Continuous rating S1/ 40°C - IEC 60034-1 definition**

- Running at constant load limited to the insulation class ; permissible overload 1 h every 12 hours.

• **Stand-by rating 40°C**

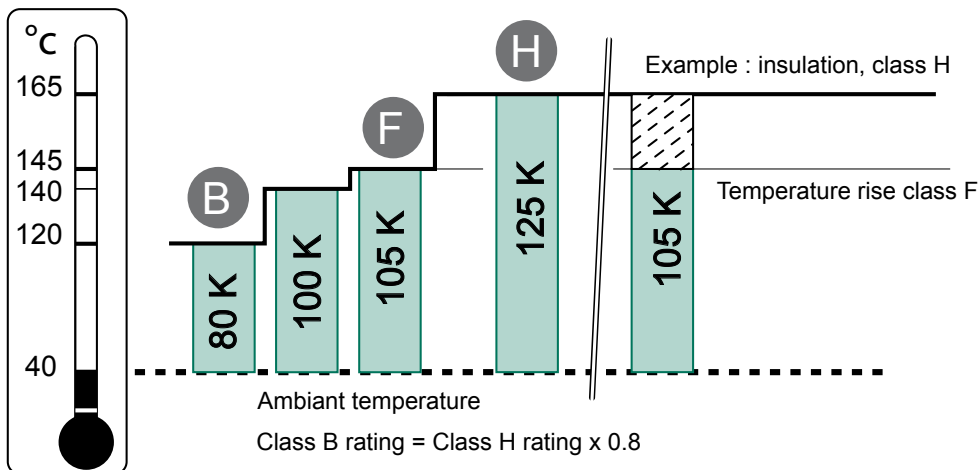
- Running at constant load **without** over load, for a limited duration of maximum 500h/year, with a permissible increase of the temperature rise above class H.

• **Stand-by rating 27°C**

- Same conditions than stand-by duty 40°C but with acceptance of a lower ambient temperature (27°C) that allows to increase the rating and the temperature rise for the same level of temperature in the alternator.

ex: S1/40°C = 100 kW - std by/40°C = 105 kW - std by/27°C = 110 kW

### 2 - INSULATION CLASS AND TEMPERATURE RISE



### 3 - DERATING

Multiply nominal rating by derating factor from following chart.

Ambient temperature						
ALTITUDE	25 °C	40 °C	45 °C	50 °C	55 °C	60 °C
0 to 1000 m	1,045	1	0,97	0,94	0,91	0,88
1001 to 1500 m	1,01	0,97	0,94	0,91	0,88	0,85
1501 to 2000 m	0,98	0,94	0,91	0,88	0,86	0,83
2001 to 2500 m	0,95	0,91	0,88	0,86	0,83	0,8
2501 to 3000 m	0,91	0,87	0,84	0,82	0,79	0,77

Power factor					
Lagging Power Factor	1	0,9	0,8	0,7	0,6
Factor	1	1	1	0,92	0,85

### 4 - WINDINGS

LERROY SOMER proposes various 2/3 pitch windings for rating optimisation according to the required voltage and frequency.

- Standard winding N° : 6
- Optimized winding N° : 7, 8, 9, 10, 22, 23 and 52.
- Windings M or M1, dedicated single phase windings.

“S” after the winding number means “6 leads” ex : 6S.

“T” or “+” after winding give an information about the saturation level of the stator.

### 5 - GENERAL FEATURES

#### 5.1 - COMPLIANCE WITH INTERNATIONALLY RECOGNIZED STANDARDS

4 Pole PARTNER Alternators are in compliance to the main international standards and regulations :

- IEC 60034, NEMA MG 1.22, ISO 8528/3, CSA, UL 1446, UL 1004B on request and depending on voltages, marine regulations, etc. It can be integrated into a CE marked generator.

Alternators are designed, manufactured and marketed in an ISO 9001 and ISO 14001 environments.

#### 5.2 - ELECTRICAL FEATURES

- **Excitation Systems** // Short circuit capacity :

LERROY-SOMER propose a large choice of excitation systems, depending on the customer needs :

- **SHUNT** system, without short-circuit capacity.
- **AREP, PMG**, with a short-circuit capacity of 3 times the nominal current for 10 seconds.

- **Voltage regulators** :

4 Pole PARTNER Alternators are fitted with reliable and performant AVR's, adapted to LS excitation systems, powered by transistors and fulfilling perfect regulation.

Available excitation systems depending on alternator frames, are indicated in rating tables.

TYPE	LSA 40	LSA 42.2	LSA 43.2	LSA 44.2	LSA 46.2	LSA 47.2	LSA 49.1	LSA 50.2	LSA 51.2
<b>SHUNT</b>	R 220	R 250	R 250	R 250	R 250	R 250	-	-	-
Shunt dedicated 1 phase	R 220	R 250	R 251	R 251	-	-	-	-	-
<b>AREP / PMG</b>	R 438*	R 438 *	R 438	R 438	R 450	R 450	R 450	R 450	R 449

\* AREP only.

- **Frequency** :

4 Pole PARTNER alternators may operate either 50 or 60 Hz. The standard winding (code 6) is suitable both for 50 and 60 Hz. For dedicated windings, see specific table or consult factory.

- **Power factor** :

4 Pole PARTNER alternators are designed to operate between 0,8 and 1 power factor.

A derating is necessary below 0,8 power factor (see derating chart).

- **Waveform** :

Total harmonic content or distortion (THC or THD), line to line, at no load or full rated linear and balanced load is less than 4%.

THF (according to IEC) is less than 2%. TIF/Telephone influence factor according to NEMA is less than 50.

- **Transient features** :

Transient voltage dip for rated step load at 0,8 power factor is less than 18 %.

Recovery time for a 20 % transient voltage dip is less than 0,5 s.

- **Parallel operation** :

All 4 Pole PARTNER alternators can operate in parallel with other alternators or with the mains, when they are equipped with the appropriate devices (AVR, current transformer...).

- **Overload acceptance** :

4 Pole PARTNER Alternators can be overloaded according to NEMA

- **Single Phase operation** :

4 Pole PARTNER Alternators from LSA 40 up to LSA 46.2 can be reconnected for single phase use. The single phase rating is given in the various alternator data sheets. Alternators from LSA 40 up to LSA 44.2 can be supplied with a dedicated single phase winding. (Code M or M1).

**- EMI suppression :**

All the alternators delivered to the European Community are provided with an EMI suppression device in accordance with EN 55011, group 1, class B. This equipment is optional for other areas.

**5.3 - MECHANICAL FEATURES****- Forms :**

4 Pole Partner alternators can be provided in single bearing or two bearing configurations. A large range of engine adaptors and coupling discs are available to fit the major engines.

**- Enclosure :**

Standard enclosure is **IP 23**. Other enclosures such as IP 44, IP 55 can be proposed on request.

**- Bearings :**

Sealed for life bearings up to LSA 47.2 and LSA 50.2 (regreasable bearing option from LSA 44.2), regreasable bearings for LSA 49.1 and LSA 51.2.

**- Balancing :**

All the rotors are dynamically balanced according to ISO 1940 and NFC 51-111. Two bearing rotors are balanced with a half key.

**- Direction of rotation :**

4 pole PARTNER Alternators can operate in both directions (5% derating for anticlockwise running for LSA 47.2 and LSA 50.2).

**- Overspeed :**

The maximum overspeed is 2250 min<sup>-1</sup> (1.25 times the 60 Hz rated speed).

**- Insulation and protection :**

4 Pole PARTNER Alternators are class H insulated. The standard winding protection can accept up to 95 % relative humidity and is suitable for indoors marine applications. Specific added coatings can be proposed for harsh environments.

**- Terminal box and connectors :**

4 Pole PARTNER Alternators have a large terminal box which allows easy access for reconnection or to the AVR. Current transformers and other optional modules can be fitted within the box.

**- Mechanical structure :**

Steel frame. Aluminium, cast iron or steel housings and flanges depending on models.

**6 - ACCESSORIES AND OPTIONS**

- Engine adaptors for two bearing alternators.
- Air inlet filters (5% derating).
- Air outlet filters or deflectors (5% derating).
- Specific stator protections for harsh environments.
- Specific painting.
- Greasable bearings for LSA 44.2, LSA 46.2, LSA 47.2 and LSA 50.2.
- Thermal protections for bearings.
- Thermal protections for stator windings.
- Anti condensation heaters (retrofitable).
- Remote voltage potentiometers.
- Current transformers for paralleling with other alternators.
- Module R 726 for paralleling with the grid (power factor regulator, voltage equalization).
- Electronic module R 731 for three phase sensing (only for AREP/PMG with AVR R 438 and R 450).
- EMI suppression module R791 for other areas than EC.
- PMG (from LSA 43.2).
- First emergency kits (AVR + diodes).

**7 - PRODUCT DESCRIPTION**

The machine name is defined according to various criteria (see below).





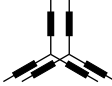

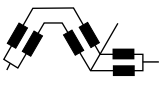


Example of description for :

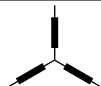



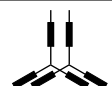
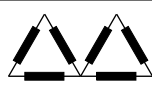
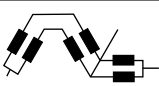


**LSA 49.1 M6 C6/4**

- LSA : Leroy-Somer Alternator
- 49.1 : Frame size
- M6 : Core length
- C : Excitation system (C: AREP / J: SHUNT+ PMG)
- 6/4 : winding number / number of poles.

Products and materials shown in this catalogue may, at any time, be modified in order to follow the latest technological developments, improve the design or change the conditions of utilisation. Their description cannot in any case engage Leroy-Somer's liability. The values indicated are typical values .

### 8 - CONNECTIONS

4 POLE	50 Hz - 1500 R.P.M.						
Phase - Code	3 ph - D	3 ph - C / F	3 ph - D	3 ph - F	3 ph - A	1 ph - FF	1 ph - G
Connections	 star	 delta	 series star	 series delta	 parallel star	 double delta	 open delta
Number of leads	6	6	12	12	12	12	12
Standard Winding 6	380-400-415V (page 7)	220 - 240V (page 7)	380-400-415V (page 7)	220 - 240V (page 7)	190 - 208V (page 7)	220 - 240V (page 14)	220 - 240V (page 14)
Standard Winding 6	440 V (page 8)	-	440 V (page 8)	-	220 V (page 8)	-	-
Specific Winding 7 (upon request)	415 - 440 V (page 9)	240 - 254 V (page 9)	415 - 440 V (page 9)	240 - 254 V (page 9)	208 - 220 V (page 9)	240 - 254 V (consult factory)	240 - 254 V (consult factory)
Specific Winding 9 or 22 (upon request)	500 - 525 V (page 10)	-	500 - 525 V (page 10)	-	-	-	-
Specific Winding 22 or 23 (upon request)	550 V (page 11) 600 V (page 12)	-	550 V (page 11) 600 V (page 12)	-	-	-	-
Specific Winding 10 or 52 (upon request)	660 - 690 V (page 13)	-	660 - 690 V (page 13)	-	-	-	-
Specific Winding M Dedicated 1 phase (upon request)				230 V (page 14)		115 V (page 14)	

4 POLE	60 Hz - 1800 R.P.M						
Phase - Code	3 ph - D	3 ph - C / F	3 ph - D	3 ph - F	3 ph - A	1 ph - FF	1 ph - G
Connections	 star	 delta	 series star	 series delta	 parallel star	 double delta	 open delta
Number of leads	6	6	12	12	12	12	12
Standard Winding 6	380 - 480 V (page 15/16)	220 - 277 V (page 15/16)	380 - 480 V (page 15/16)	220 - 277 V (page 15/16)	190 - 240 V (page 15/16)	220 - 240 V (page 19)	220 - 240 V (page 19)
Specific Winding 7 (upon request)	-	-	-	-	-	-	-
Specific Winding 8 (upon request)	380 - 416 V (page 17)	220 - 240 V (page 17)	380 - 416 V (page 17)	220 - 240 V (page 17)	190 - 208 V (page 17)	220 - 240 V (consult factory)	220 - 240 V (consult factory)
Specific Winding 9 (upon request)	600 V (page 18)	347 V (page 18)	600 V (page 18)	347 V (page 18)	-	-	-
Specific Winding M or M1 Dedicated 1 phase (upon request)				240 V (page 19)		120 V (page 19)	



## RATINGS 50 Hz

<b>(D)</b> series Star (12 w.) or Star (6 w.)	<b>(A)</b> * parallel Star (12 wires)	<b>(C/F)**</b> series Delta (12w.) Delta (6 wires)
<b>380 - 400 - 415 V</b>	<b>190 - 200 - 208 V</b>	<b>220 - 230 - 240 V</b>

### 8.1 - Standard winding 6

Excitation system					kVA : 190*V.220**/380 V				kVA : 200*V.230**/400 V				kVA : 208*V.240**/415 V			
					Cont. 40 °C		St-by 40°C	St-by 27°C	Cont. 40 °C		St-by 40°C	St-by 27°C	Cont. 40 °C		St-by 40°C	St-by 27°C
TYPE	SHUNT	AREP	PMG	Term	H:125 K	F:105 K	H: 150 K	H: 163 K	H:125 K	F:105 K	H: 150 K	H: 163 K	H:125 K	F:105 K	H: 150 K	H: 163 K
LSA 40 VS1	J6/4	C6/4	.	12	10	9	10.5	11	10	9	10.5	11	10	9	10.5	11
LSA 40 VS2	J6/4	C6/4	.	12	12.5	11.5	13.5	14	12.5	11.5	13.5	14	12.5	11.5	13.5	14
LSA 40 S3	J6/4	C6/4	.	12	15	14	16	16.5	15	14	16	16.5	15	14	16	16.5
LSA 40 S4	J6/4	C6/4	.	12	17.5	16	19	20	17.5	16	19	20	17.5	16	19	20
LSA 40 M5	J6/4	C6/4	.	12	20	18.5	21.5	22	20	18.5	21.5	22	20	18.5	21.5	22
LSA 40 L7	J6/4	C6/4	.	12	23	20	24	25	23	20	24	25	23	20	24	25
LSA 42.2 M7	J6/4	C6/4	.	12	27	25	30	31	27	25	30	31	27	25	30	31
LSA 42.2 L9	J6/4	C6/4	.	12	31,5	28,5	33,4	35	31,5	28,5	33,4	35	31,5	28,5	33,4	35
LSA 43.2 S1	J6/4	C6/4	Option	12	35	33	40	45	35	33	40	45	35	33	40	45
LSA 43.2 S15	J6/4	C6/4	Option	12	40	36	44	47	40	36	44	47	40	36	44	47
LSA 43.2 S25	J6/4	C6/4	Option	12	45	43	49	52	45	43	49	52	45	43	49	52
LSA 43.2 S35	J6/4	C6/4	Option	12	50	45	53	55	53	48	56	58	52	47	55	57
LSA 43.2 M45	J6/4	C6/4	Option	12	56	51	59*	62	60	53	63	66	60	53	63	66
LSA 43.2 L65	J6/4	C6/4	Option	12	67	61	71	74	70	62	74	77	69	63	73	76
LSA 43.2 L8	J6/4	C6/4	Option	12	78	71	83	86	80	73	84	88	78	71	83	86
LSA 44.2 VS3	J6/4	C6/4	Option	12	90	80	95	100	90	80	95	100	90	80	95	100
LSA 44.2 VS45	J6/4	C6/4	Option	12	105	95	110	116	105	95	110	116	105	95	110	116
LSA 44.2 S7	J6/4	C6/4	Option	12	120	110	126	132	125	112	131	138	120	110	126	132
LSA 44.2 S75	J6/4	C6/4	Option	12	130	115	138	144	135	122	143	150	130	115	138	144
LSA 44.2 M95	J6/4	C6/4	Option	12	150	135	156	165	150	135	156	165	145	130	150	160
LSA 44.2 L12	J6/4	C6/4	Option	12	165	150	170	175	165	150	170	175	165	150	170	175
LSA 46.2 M3	J6/4	C6/4	Option	12	180	168	195	203	180	168	195	203	180	168	195	203
LSA 46.2 M5	J6/4	C6/4	Option	12	200	184	214	223	200	184	214	223	200	184	214	223
LSA 46.2 L6	J6/4	C6/4	Option	12	250	217	260	275	250	217	260	275	240	217	254	266
LSA 46.2 L9	J6/4	C6/4	Option	12	280	250	290	300	280	250	290	300	280	250	290	300
LSA 46.2 VL12	J6/4	C6/4	Option	12	315	276	327	341	315	276	327	341	300	260	310	325
LSA 47.2 VS2	J6/4	C6/4	Option	12	365	330	405	420	365	330	405	420	365	330	405	420
LSA 47.2 S4	J6/4	C6/4	Option	12	410	370	430	450	410	370	430	450	410	370	430	450
LSA 47.2 S5	J6/4	C6/4	Option	12	455	405	471	500	455	405	471	500	455	405	471	500
LSA 47.2 M7	J6/4	C6/4	Option	12	500	465	545	570	500	465	550	570	500	465	545	570
LSA 47.2 M8	J6/4	C6/4	Option	12	550	500	575	600	550	500	575	600	550	500	575	600
LSA 47.2 L9	J6/4	C6/4	Option	12	600	535	630	660	600	535	630	660	600	535	630	660
LSA 47.2 L9	-	C6S/4	Option	6	600	535	630	660	600	535	630	660	600	535	630	660
LSA 49.1 S4	-	C6S/4	Option	6	660	594	693	725	660	594	693	725	660	594	693	725
LSA 49.1 M6	-	C6S/4	Option	6	725	653	760	800	725	653	760	800	725	653	760	800
LSA 49.1 M75	-	C6S/4	Option	6	775	698	810	850	800	720	840	880	775	698	810	850
LSA 49.1 L9	-	C6S/4	Option	6	880	792	920	960	880	792	920	960	880	792	920	960
LSA 49.1 L10	-	C6S/4	Option	6	890	800	934	979	910	820	955	1000	890	800	934	979
LSA 49.1 L11	-	C6S/4	Option	6	1000	910	1050	1100	1000	910	1050	1100	1000	910	1050	1100
LSA 50.2 M6	-	C6S/4	Option	6	1250	1125	1315	1375	1250	1125	1315	1375	1250	1125	1315	1375
LSA 50.2 L7	-	C6S/4	Option	6	1350	1215	1420	1485	1350	1215	1420	1485	1350	1215	1420	1485
LSA 50.2 L8	-	C6S/4	Option	6	1450	1320	1520	1595	1500	1350	1575	1650	1500	1350	1575	1650
LSA 50.2 VL10	-	C6S/4	Option	6	1600	1455	1680	1760	1640	1475	1720	1800	1600	1455	1680	1760
LSA 51.2 S55	-	C6S/4	Option	6	1860	1700	1955	2045	1860	1700	1955	2045	1860	1700	1955	2045
LSA 51.2 M60	-	C6S/4	Option	6	2050	1870	2155	2255	2050	1870	2155	2255	2050	1870	2155	2255
LSA 51.2 L70	-	C6S/4	Option	6	2200	2005	2330	2420	2200	2005	2330	2420	2200	2005	2330	2420
LSA 51.2 VL90	-	C6S/4	Option	6	2360	2150	2500	2595	2360	2150	2500	2595	2360	2150	2500	2595

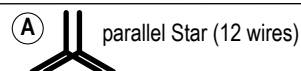
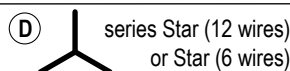
#### OPTION : 12 LEADS RANGE

LSA 49.1 S3	-	C6/4	Option	12	580	522	610	641	580	522	610	641	580	522	610	641
LSA 49.1 M5	-	C6/4	Option	12	680	612	715	751	680	612	715	751	680	612	715	751
LSA 49.1 M7	-	C6/4	Option	12	725	655	760	800	725	655	760	800	725	655	760	800
LSA 49.1 L9	-	C6/4	Option	12	860	774	903	948	860	774	903	948	860	774	903	948
LSA 49.1 L11	-	C6/4	Option	12	950	855	1000	1045	950	855	1000	1045	950	855	1000	1045

\*12 terminal ends only  
\*\* not available for 51.2



## RATINGS 50 Hz



**440 V** (maximum voltage)

**220 V** (maximum voltage)

### 8.2 - Standard winding 6

					kVA : 220 V . 440 V			
Excitation system					Continuous 40 °C		Stand-by 40 °C	Stand-by 27 °C
TYPE	SHUNT	AREP	PMG	Term	H : 125 K	F : 105 K	H : 150 K	H : 163 K
LSA 40 VS1	J6/4	C6/4	.	12	9	8	9	10
LSA 40 VS2	J6/4	C6/4	.	12	11	10	12	12.5
LSA 40 S3	J6/4	C6/4	.	12	13	12	14	15
LSA 40 S4	J6/4	C6/4	.	12	16	14	16.5	17
LSA 40 M5	J6/4	C6/4	.	12	18	16	19	20
LSA 40 L7	J6/4	C6/4	.	12	19	16	20	22
LSA 42.2 M7	J6/4	C6/4	.	12	25	23	26,5	28
LSA 42.2 L9	J6/4	C6/4	.	12	30	27	31,5	33
LSA 43.2 S1	J6/4	C6/4	Option	12	35	33	40	45
LSA 43.2 S15	J6/4	C6/4	Option	12	40	36	44	47
LSA 43.2 S25	J6/4	C6/4	Option	12	45	43	49	52
LSA 43.2 S35	J6/4	C6/4	Option	12	47	42	50	53
LSA 43.2 M45	J6/4	C6/4	Option	12	60	53	63	66
LSA 43.2 L65	J6/4	C6/4	Option	12	68	62	73	75
LSA 43.2 L8	J6/4	C6/4	Option	12	78	70	83	84
LSA 44.2 VS3	J6/4	C6/4	Option	12	90	80	95	100
LSA 44.2 VS45	J6/4	C6/4	Option	12	105	95	110	116
LSA 44.2 S7	J6/4	C6/4	Option	12	120	110	127	132
LSA 44.2 S75	J6/4	C6/4	Option	12	125	114	132	137
LSA 44.2 M95	J6/4	C6/4	Option	12	125	114	132	137
LSA 44.2 L12	J6/4	C6/4	Option	12	140	127	148	154
LSA 46.2 M3	J6/4	C6/4	Option	12	160	146	175	180
LSA 46.2 M5	J6/4	C6/4	Option	12	180	164	190	200
LSA 46.2 L6	J6/4	C6/4	Option	12	215	196	228	240
LSA 46.2 L9	J6/4	C6/4	Option	12	245	223	260	275
LSA 46.2 VL12	J6/4	C6/4	Option	12	275	250	292	310
LSA 47.2 VS2	J6/4	C6/4	Option	12	345	314	365	380
LSA 47.2 S4	J6/4	C6/4	Option	12	387	357	410	425
LSA 47.2 S5	J6/4	C6/4	Option	12	430	391	455	473
LSA 47.2 M7	J6/4	C6/4	Option	12	460	419	487	506
LSA 47.2 M8	J6/4	C6/4	Option	12	535	487	567	589
LSA 47.2 L9	J6/4	C6/4	Option	12	570	519	604	627
LSA 47.2 L9	-	C6S/4	Option	6	570	519	604	627
LSA 49.1 S4	-	C6S/4	Option	6	560	510	594	616
LSA 49.1 M6	-	C6S/4	Option	6	650	590	690	715
LSA 49.1 M75	-	C6S/4	Option	6	700	635	742	770
LSA 49.1 L9	-	C6S/4	Option	6	770	700	816	845
LSA 49.1 L11	-	C6S/4	Option	6	950	855	1000	1045
LSA 50.2 S4	-	C6S/4	Option	6	1040	940	1095	1145
LSA 50.2 M6	-	C6S/4	Option	6	1190	1095	1275	1330
LSA 50.2 L7	-	C6S/4	Option	6	1260	1150	1365	1425
LSA 50.2 L8	-	C6S/4	Option	6	1440	1320	1555	1625
LSA 50.2 VL10	-	C6S/4	Option	6	1545	1420	1670	1730
LSA 51.2 S55	-	C6S/4	Option	6	1675	1530	1760	1840
LSA 51.2 M60	-	C6S/4	Option	6	1845	1685	1940	2030
LSA 51.2 L70	-	C6S/4	Option	6	1980	1805	2100	2180
LSA 51.2 VL90	-	C6S/4	Option	6	2125	1940	2255	2340

### OPTION : 12 LEADS RANGE

LSA 49.1 S3	-	C6/4	Option	12	560	510	590	616
LSA 49.1 M5	-	C6/4	Option	12	650	590	690	715
LSA 49.1 M7	-	C6/4	Option	12	700	635	735	770
LSA 49.1 L9	-	C6/4	Option	12	770	700	810	845
LSA 49.1 L11	-	C6/4	Option	12	900	810	945	990

Use winding 7 for parallel operation with main





## RATINGS 50 Hz

<b>(D)</b> series Star (12 w.) or Star (6 w.)	<b>(A)</b> * parallel Star (12 wires)	<b>(C/F)</b> ** series Delta (12 w.) Delta (6 wires)
415 ... 440 V	208 ... 220 V	240 ... 254 V

### 8.3 - Specific winding 7

Excitation system					kVA : 208*V.240**/415V				kVA : 220*V.254**/440V			
					Cont. 40 °C		St-by 40°C	St-by 27°C	Cont. 40 °C		St-by 40°C	St-by 27°C
TYPE	SHUNT	AREP	PMG	Term	H:125 K	F:105 K	H: 150 K	H: 163 K	H:125 K	F:105 K	H: 150 K	H: 163 K
LSA 40 VS1	J7/4	C7/4	.	12	10	9	10.6	11	10	9	10.6	11
LSA 40 VS2	J7/4	C7/4	.	12	12.5	11.4	13.5	14	12.5	11.4	13.5	14
LSA 40 S3	J7/4	C7/4	.	12	15	13.7	16	16.5	15	13.7	16	16.5
LSA 40 S4	J7/4	C7/4	.	12	17.5	16	18.6	19.5	17.5	16	18.6	19.5
LSA 40 M5	J7/4	C7/4	.	12	20	18.2	21.2	22	20	18.2	21.2	22
LSA 40 L7	J7/4	C7/4	.	12	23	21	24.5	25.5	23	21	24.5	25.5
LSA 42.2 M6	J7/4	C7/4	.	12	25	23	26	28	25	23	26	28
LSA 42.2 M7	J7/4	C7/4	.	12	27	24	28	30	27	24	28	30
LSA 42.2 L9	J7/4	C7/4	.	12	30	27	32	33	30	27	32	33
LSA 43.2 S1	J7/4	C7/4	option	12	40	36	42	44	40	36	42	44
LSA 43.2 S15	J7/4	C7/4	option	12	43	38	45	47	43	38	45	47
LSA 43.2 S25	J7/4	C7/4	option	12	46	41	48	51	46	41	48	51
LSA 43.2 S35	J7/4	C7/4	option	12	52	47	55	57	52	47	55	57
LSA 43.2 M45	J7/4	C7/4	option	12	55	50	58	61	55	50	58	61
LSA 43.2 L65	J7/4	C7/4	option	12	63	57	66	69	63	57	66	69
LSA 43.2 L8	J7T/4	C7T/4	option	12	75	68	79	83	75	68	79	83
LSA 44.2 VS3	J7/4	C7/4	option	12	90	81	95	100	90	81	95	100
LSA 44.2 VS45	J7/4	C7/4	option	12	100	90	105	110	100	90	105	110
LSA 44.2 S7	J7/4	C7/4	option	12	120	108	126	132	120	108	126	132
LSA 44.2 M95	J7/4	C7/4	option	12	145	130	152	160	145	130	152	160
LSA 44.2 L12	J7/4	C7/4	option	12	160	144	168	176	160	144	168	176
LSA 46.2 M3	J7/4	C7/4	option	12	181	163	190	200	181	163	190	200
LSA 46.2 M5	J7/4	C7/4	option	12	195	176	205	215	195	176	205	215
LSA 46.2 L6	J7/4	C7/4	option	12	240	216	252	265	240	216	252	265
LSA 46.2 L9	J7/4	C7/4	option	12	270	243	284	298	270	243	284	298
LSA 46.2 VL12		C7S/4	option	6	300	263	315	330	300	263	315	330
LSA 47.2 VS2	J7/4	C7/4	option	12	370	345	400	415	370	345	400	415
LSA 47.2 S4	-	C7S/4	option	6	400	365	425	440	400	365	425	440
LSA 47.2 S5	-	C7S/4	option	6	440	400	465	482	440	400	465	482
LSA 47.2 M7	-	C7TS/4	option	6	500	460	530	560	500	460	530	560
LSA 47.2 M8	-	C7S/4	option	6	530	490	565	585	530	490	565	585
LSA 47.2 L9	J7/4	C7/4	option	12	570	525	605	625	570	525	605	625
LSA 49.1 S3	-	C7TS/4	option	6	580	540	620	640	580	540	620	640
LSA 49.1 S4	-	C7S/4	option	6	620	570	660	680	620	570	660	680
LSA 49.1 M5	-	C7TS/4	option	6	660	595	695	726	700	630	735	770
LSA 49.1 L8	-	C7S/4	option	6	800	730	860	900	800	730	860	900
LSA 50.2 S4	-	C7S/4	option	6	960	864	1008	1056	1010	910	1060	1110
LSA 50.2 M6	-	C7+S/4	option	6	1120	1008	1176	1235	1150	1035	1207	1265
LSA 50.2 L7	-	C7S/4	option	6	1325	1193	1391	1460	1325	1193	1391	1460
LSA 50.2 L8	-	C7S/4	option	6	1370	1233	1440	1510	1370	1233	1440	1510
LSA 50.2 VL10	-	C7S/4	option	6	1520	1368	1596	1672	1520	1368	1596	1672
LSA 51.2 S55	-	C7S/4	option	6	1750	1575	1835	1925	1860	1674	1955	2045
LSA 51.2 M60	-	C7S/4	option	6	1925	1735	2020	2115	1925	1735	2020	2115
LSA 51.2 L70	-	C7S/4	option	6	2050	1870	2175	2255	2050	1870	2175	2255
LSA 51.2 VL90	-	C7S/4	option	6	2160	1970	2290	2375	2160	1970	2290	2375

#### OPTION : 12 LEADS RANGE

LSA 49.1 S3	-	C7T/4	option	12	580	540	620	640	580	540	620	640
LSA 49.1 S4	-	C7/4	option	12	620	570	660	680	620	570	660	680
LSA 49.1 L8	-	C7/4	option	12	800	730	860	900	800	730	860	900

Winding 2 or 7 : min. 415 V - max. 460 V / Winding 7 T : min. 400 V - Max. 440 V

\*12 terminal ends only

\*\*not available for 51.2



### 8.4 - Specific winding 9 or 22 TS

Excitation system					kVA : 500 V				kVA : 525 V (1)			
					Cont. 40 °C		St-by 40°C	St-by 27°C	Cont. 40 °C		St-by 40°C	St-by 27°C
TYPE		AREP	PMG	Term	H:125 K	F:105 K	H : 150 K	H : 163 K	H:125 K	F:105 K	H : 150 K	H : 163 K
LSA 40 VS1	-	C9/4	.	12	10	9	10.5	11	10	9	10.5	11
LSA 40 VS2	-	C9/4	.	12	12.5	11.5	13.5	14	12.5	11.5	13.5	14
LSA 40 S3	-	C9/4	.	12	15	14	16	16.5	15	14	16	16.5
LSA 40 S4	-	C9/4	.	12	17.5	16	18.5	19.5	17.5	16	18.5	19.5
LSA 40 M5	-	C9/4	.	12	20	18	21	22	20	18	21	22
LSA 40 L7	-	C9/4	.	12	23	21	24.5	25.5	23	21	24.5	25.5
LSA 42.2 M6	-	C9/4	.	12	25	23	26	28	25	23	26	28
LSA 42.2 M7	-	C9/4	.	12	27	24	28	30	27	24	28	30
LSA 42.2 L9	-	C9/4	.	12	30	27	32	33	30	27	32	33
LSA 43.2 S1	-	C9/4	Option	12	40	36	42	44	39	35	41	43
LSA 43.2 S15	-	C9/4	Option	12	45	40	47	50	43	39	45	47
LSA 43.2 S25	-	C9/4	Option	12	50	45	53	55	48	43	50	53
LSA 43.2 S35	-	C9/4	Option	12	53	48	56	58	51	46	54	56
LSA 43.2 M45	-	C9/4	Option	12	58	52	61	64	60	54	63	66
LSA 43.2 L65	-	C9/4	Option	12	70	63	74	77	69	62	72	76
LSA 43.2 L8	-	C9+/4	Option	12	80	72	84	88	80	72	84	88
LSA 44.2 VS3	-	C9/4	Option	12	100	90	105	110	102	92	107	112
LSA 44.2 VS45	-	C9/4	Option	12	110	98	114	120	113	102	118	124
LSA 44.2 S7	-	C9/4	Option	12	128	115	134	141	128	115	134	141
LSA 44.2 M95	-	C9+/4	Option	12	151	135	158	165	148	133	155	163
LSA 44.2 L12	-	C9+/4	Option	12	161	145	169	177	160	145	168	176
LSA 46.2 M3	-	C9/4	Option	12	185	170	195	203	175	162	185	192
LSA 46.2 M5	-	C9+/4	Option	12	205	185	215	226	203	183	213	223
LSA 46.2 L6	-	C9S/4	Option	6	244	220	256	268	231	208	242	254
LSA 46.2 L9	-	C9S/4	Option	6	283	255	297	311	273	245	286	300
LSA 46.2 VL12	-	C9/4	Option	12	310	280	326	341	285	256	300	313
LSA 47.2 VS2	-	C9S/4	Option	6	373	340	395	410	350	315	368	385
LSA 47.2 S4	-	C9/4	Option	12	405	365	425	450	390	350	410	430
LSA 47.2 S5	-	C9/4	Option	12	440	400	465	490	425	382	445	467
LSA 47.2 M7	-	C9/4	Option	12	500	450	530	550	460	415	485	506
LSA 47.2 M8	-	C9+/4	Option	12	537	483	570	600	537	483	565	590
LSA 47.2 L9	-	C9+S/4	Option	6	575	520	605	635	575	520	605	632
LSA 49.1 S4	-	C9TS/4	Option	6	600	540	630	660	520	470	550	572
LSA 49.1 M6	-	C9S/4	Option	6	660	600	700	726	610	550	650	670
LSA 49.1 M75	-	C9S/4	Option	6	720	650	765	800	670	603	705	737
LSA 49.1 L8	-	C22TS/4	Option	6	-	-	-	-	760	685	805	835
LSA 49.1 L9	-	C9TS/4	Option	6	800	720	840	880	-	-	-	-
LSA 49.1 L11	-	C9TS/4	Option	6	950	855	1000	1045	950	855	1000	1045
LSA 50.2 M6	-	C9TS/4	Option	6	1100	990	1144	1210	1100	990	1144	1210
LSA 50.2 L7	-	C9+S/4	Option	6	1150	1035	1210	1265	1240	1115	1305	1364
LSA 50.2 L8	-	C9S/4	Option	6	1335	1200	1400	1465	1380	1245	1450	1520
LSA 50.2 VL10	-	C9S/4	Option	6	1500	1350	1575	1650	1545	1390	1625	1700
LSA 51.2 S55	-	C9S/4	Option	6	1750	1575	1835	1925	1750	1575	1835	1925
LSA 51.2 M60	-	C9S/4	Option	6	1900	1710	1995	2090	1900	1710	1995	2090
LSA 51.2 L70	-	C9S/4	Option	6	1960	1764	2058	2156	1960	1764	2058	2156

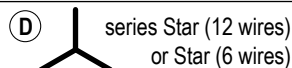
(1) Winding 9 will not work in parallel operation with the mains, when the voltage is 525 V.  
For parallel operation with the mains, consult LEROY SOMER.

# PARTNER®

## 1500 R.P.M. - 4 pole 3 Phase - P.F. 0,8



### RATINGS 50 Hz



### 550 V

### 8.5 - Specific winding 22 or 23

Excitation system					kVA : 550 V			
					Continuous 40 °C		Stand-by 40°C	Stand-by 27°C
TYPE		AREP	PMG	Term	H : 125 K	F : 105 K	H : 150 K	H : 163 K
LSA 43.2 S1		C22T/4	Option	12	30	27	32	33
LSA 43.2 S15		C22T/4	Option	12	35	31	37	34
LSA 43.2 S25		C22T/4	Option	12	38	34	40	42
LSA 43.2 S35		C22T/4	Option	12	42	38	44	46
LSA 43.2 M45		C22T/4	Option	12	50	45	52	55
LSA 43.2 L65		C22T/4	Option	12	55	50	57	60
LSA 43.2 L8		C22T/4	Option	12	65	58	68	71
LSA 44.2 VS3		C22T/4	Option	12	80	72	84	88
LSA 44.2 VS45		C22T/4	Option	12	93	84	97	102
LSA 44.2 S7		C22TS/4	Option	6	105	95	110	115
LSA 44.2 M95		C22TS/4	Option	6	130	117	136	143
LSA 44.2 L12		C22TS/4	Option	6	140	126	147	154
LSA 46.2 M3		C22T/4	Option	12	165	150	173	180
LSA 46.2 M5		C22TS/4	Option	6	180	162	190	200
LSA 46.2 L6		C22TS/4	Option	6	220	200	230	242
LSA 46.2 L9		C22T/4	Option	12	250	225	262	275
LSA 46.2 VL12		C22TS/4	Option	6	285	256	300	313
LSA 47.2 VS2		C22S/4	Option	6	360	325	380	395
LSA 47.2 S4		C23S/4	Option	6	380	345	400	420
LSA 47.2 S5		C23S/4	Option	6	400	360	420	440
LSA 47.2 M7		C22TS/4	Option	6	483	435	507	530
LSA 47.2 L9		C23S/4	Option	6	525	475	550	580
LSA 49.1 S4		C22TS/4	Option	6	600	540	630	660
LSA 49.1 M6		C22S/4	Option	6	650	585	685	715
LSA 49.1 M75		C22S/4	Option	6	700	630	735	770
LSA 49.1 L9		C23S/4	Option	6	780	705	820	860
LSA 49.1 L11		C23S/4	Option	6	830	750	870	915
LSA 50.2 S4		C22S/4	Option	6	950	855	1000	1045
LSA 50.2 M6		C22S/4	Option	6	1080	975	1135	1190
LSA 50.2 L8		C23S/4	Option	6	1230	1110	1290	1355
LSA 50.2 VL10		C22S/4	Option	6	1410	1270	1480	1550
LSA 51.2 S55		C22S/4	Option	6	1550	1410	1630	1705
LSA 51.2 M60		C22S/4	Option	6	1825	1665	1935	2010
LSA 51.2 L75		C22S/4	Option	6	2000	1820	2100	2200
LSA 51.2 VL85		C22S/4	Option	6	2100	1915	2225	2310

For parallel operation with the mains, consult LEROY SOMER.

# PARTNER<sup>®</sup>

## 1500 R.P.M. - 4 pole 3 Phase - P.F. 0,8



### RATINGS 50 Hz

ⓓ series Star (12 wires)  
or Star (6 wires)

600 V

### 8.6 - Specific winding 22 or 23

Excitation system					kVA : 600 V			
					Continuous 40 °C		Stand-by 40°C	Stand-by 27°C
TYPE	-	AREP	PMG	Term	H : 125 K	F : 105 K	H : 150 K	H : 163 K
LSA 43.2 S1	-	C23/4	Option	12	31	29	33	34
LSA 43.2 S15	-	C23/4	Option	12	36	33	38	40
LSA 43.2 S25	-	C23/4	Option	12	40	37	42	44
LSA 43.2 S35	-	C23/4	Option	12	43	40	45	47
LSA 43.2 M45	-	C23/4	Option	12	48	44	50	53
LSA 43.2 L65	-	C23/4	Option	12	55	51	58	60
LSA 43.2 L8	-	C23/4	Option	12	65	60	68	72
LSA 44.2 VS3	-	C23/4	Option	12	75	67	78	83
LSA 44.2 VS45	-	C23/4	Option	12	87	80	91	96
LSA 44.2 S7	-	C23/4	Option	12	107	98	102	118
LSA 44.2 M95	-	C23/4	Option	12	130	120	137	143
LSA 44.2 L12	-	C23/4	Option	12	140	127	147	154
LSA 46.2 M3	-	C23/4	Option	12	160	150	168	176
LSA 46.2 M5	-	C23/4	Option	12	170	160	179	187
LSA 46.2 L6	-	C23/4	Option	12	220	205	231	242
LSA 46.2 L9	-	C23S/4	Option	6	250	225	263	275
LSA 46.2 VL12	-	C23/4	Option	12	285	270	300	314
LSA 47.2 VS2	-	C23S/4	Option	6	365	330	385	400
LSA 47.2 S4	-	C23S/4	Option	6	390	350	415	430
LSA 47.2 S5	-	C23S/4	Option	6	420	380	445	465
LSA 47.2 M7	-	C23S/4	Option	6	483	440	512	530
LSA 47.2 L9	-	C23S/4	Option	6	550	500	580	605
LSA 49.1 M5	-	C22S/4	Option	6	640	600	675	705
LSA 49.1 M6	-	C22S/4	Option	6	690	620	730	760
LSA 49.1 M75	-	C22S/4	Option	6	740	670	780	815
LSA 49.1 L9	-	C23S/4	Option	6	810	750	850	890
LSA 49.1 L11	-	C23S/4	Option	6	900	810	945	990
LSA 50.2 S4	-	C23S/4	Option	6	980	880	1030	1080
LSA 50.2 M6	-	C23S/4	Option	6	1140	1026	1197	1254
LSA 50.2 L7	-	C23S/4	Option	6	1210	1089	1271	1331
LSA 50.2 L8	-	C23S/4	Option	6	1350	1215	1418	1485
LSA 50.2 VL10	-	C22S/4	Option	6	1500	1350	1575	1650
LSA 51.2 S55	-	C23S/4	Option	6	1700	1550	1785	1870
LSA 51.2 M65	-	C23S/4	Option	6	1950	1755	2050	2145
LSA 51.2 L70	-	C23S/4	Option	6	2000	1825	2100	2200
LSA 51.2 VL80	-	C23S/4	Option	6	2050	1845	2153	2255

For parallel operation with the mains, consult LEROY SOMER.

# PARTNER®

**1500 R.P.M. - 4 pole**  
**3 Phase - P.F. 0,8**



## RATINGS 50 Hz

ⓓ series Star (12 wires)  
or Star (6 wires)

**660 - 690 V**

### 8.7 - Specific winding 10 or 52

Excitation system				kVA : 660 V				kVA : 690 V			
				Cont. 40 °C		St-by 40°C	St-by 27°C	Cont. 40 °C		St-by 40°C	St-by 27°C
TYPE	AREP	PMG	Term	H:125 K	F:105 K	H: 150 K	H: 163 K	H:125 K	F:105 K	H: 150 K	H: 163 K
LSA 43.2 S1	C10/4	Option	12	30	28	32	33	31	29	33	34
LSA 43.2 S15	C10/4	Option	12	35	32	37	39	36	33	38	40
LSA 43.2 S25	C10/4	Option	12	39	36	41	43	40	37	42	44
LSA 43.2 M45	C52/4	Option	12	48	44	50	53	49	45	51	54
LSA 43.2 L65	C10/4	Option	12	55	51	58	60	57	52	60	63
LSA 43.2 L8	C52/4	Option	12	65	60	68	72	65	60	68	72
LSA 44.2 VS3	C52/4	Option	12	75	70	78	83	78	73	82	86
LSA 44.2 VS45	C52/4	Option	12	87	81	91	96	91	85	96	100
LSA 44.2 S7	C10/4	Option	12	105	95	110	115	110	100	115	121
LSA 44.2 M95	C52/4	Option	12	125	115	131	138	130	120	137	143
LSA 44.2 L12	C10/4	Option	12	140	130	147	155	140	130	147	155
LSA 46.2 M3	C52/4	Option	12	151	143	160	166	160	150	168	176
LSA 46.2 M5	C52/4	Option	12	167	158	176	185	175	165	184	193
LSA 46.2 L6	C10/4	Option	12	217	200	228	240	217	200	228	240
LSA 46.2 L9	C52S/4	Option	6	245	225	260	270	250	225	265	275
LSA 46.2 VL12	C52/4	Option	12	272	258	287	300	285	270	300	314
LSA 47.2 VS2	C52S/4	Option	6	360	330	380	395	352	320	375	390
LSA 47.2 S4	C52S/4	Option	6	370	342	390	405	375	338	400	415
LSA 47.2 S5	C52S/4	Option	6	410	380	435	450	415	375	440	460
LSA 47.2 M7	C52S/4	Option	6	463	425	485	510	477	440	505	530
LSA 47.2 L9	C52S/4	Option	6	512	470	540	565	532	490	565	585
LSA 49.1 S2	C10S/4	Option	6	540	500	575	600	530	475	557	583
LSA 49.1 S4	C10S/4	Option	6	590	535	625	650	590	530	620	650
LSA 49.1 M75	C10S/4	Option	6	720	665	763	790	700	650	735	770
LSA 49.1 L9	C52+S/4	Option	6	800	740	850	880	830	770	880	908
LSA 49.1 L11	C52+S/4	Option	6	840	755	880	925	875	785	920	960
LSA 50.2 S4	C52S/4	option	6	935	845	985	1030	980	880	1030	1080
LSA 50.2 M6	C52S/4	option	6	1056	950	1110	1160	1100	990	1155	1210
LSA 50.2 L7	C52S/4	option	6	1165	1045	1220	1280	1210	1040	1270	1330
LSA 50.2 L8	C52S/4	option	6	1265	1145	1325	1390	1340	1210	1405	1475
LSA 50.2 VL10	C52S/4	option	6	1420	1280	1490	1555	1500	1350	1575	1650
LSA 51.2 S55	C52S/4	option	6	1660	1495	1745	1825	1660	1495	1745	1825
LSA 51.2 M60	C52S/4	option	6	1880	1695	1975	2068	1880	1695	1975	2068
LSA 50.2 L70	C52S/4	option	6	2100	1890	2205	2310	2100	-	2205	2310
LSA 51.2 L75	C52S/4	option	6	2100	1890	2205	2310	2100	-	2205	2310

For parallel operation with the mains, consult LEROY SOMER.

# PARTNER®

**1500 R.P.M. - 4 pole**  
**1 Phase - P.F. 0,8**



## RATINGS 50 Hz

FF



double Delta  
(12 wires)

220 - 240 V

G



open Delta  
(12 wires)

220 - 240 V

### 8.8 - Standard winding 6

Excitation system					kVA : 230 V			
					Continuous 40 °C		Stand-by 40 °C	Stand-by 27 °C
TYPE	SHUNT	AREP	PMG	Term	H : 125 K	F : 105 K	H : 150 K	H : 163 K
LSA 40 VS1	J6/4	C6/4	-	12	7	6.5	7.5	8
LSA 40 VS2	J6/4	C6/4	-	12	9	8	9.5	10
LSA 40 S3	J6/4	C6/4	-	12	10.5	10	11.5	12
LSA 40 S4	J6/4	C6/4	-	12	12.5	11.5	13.5	14
LSA 40 M5	J6/4	C6/4	-	12	14	13	15	15.5
LSA 40 L7	J6/4	C6/4	-	12	15	14	16	16.5
LSA 42.2 M7	J6/4	C6/4	-	12	16	15	17	18
LSA 42.2 L9	J6/4	C6/4	-	12	18,5	17	20	21
LSA 43.2 S1	J6/4	C6/4	option	12	24	22	26	27
LSA 43.2 S15	J6/4	C6/4	option	12	28	26	30	31
LSA 43.2 S25	J6/4	C6/4	option	12	31	29	33	34
LSA 43.2 S35	J6/4	C6/4	option	12	33	30	35	36
LSA 43.2 M45	J6/4	C6/4	option	12	35	32	37	38
LSA 43.2 L65	J6/4	C6/4	option	12	41	38	43	45
LSA 43.2 L8	J6/4	C6/4	option	12	48	45	53	54
LSA 44.2 VS3	J6/4	C6/4	option	12	55	50	58	60
LSA 44.2 VS45	J6/4	C6/4	option	12	66	62	69	72
LSA 44.2 S7	J6/4	C6/4	option	12	73	65	77	82
LSA 44.2 S75	J6/4	C6/4	option	12	83	75	88	93
LSA 44.2 M95	J6/4	C6/4	option	12	94	87	101	104
LSA 44.2 L12	J6/4	C6/4	option	12	102	94	109	113
LSA 46.2 M3	J6/4	C6/4	option	12	104	97	110	114
LSA 46.2 M5	J6/4	C6/4	option	12	116	108	123	127
LSA 46.2 L6	J6/4	C6/4	option	12	141	131	150	156
LSA 46.2 L9	J6/4	C6/4	option	12	154	142	165	170
LSA 46.2 VL12	J6/4	C6/4	option	12	187	170	200	208

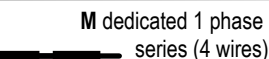
# PARTNER®

**1500 R.P.M. - 4 pole**  
**1 Phase - P.F. 1**



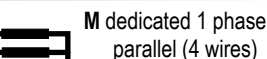
## RATINGS 50 Hz

M



230 V

M



115 V

### 8.9 - Dedicated winding M

Excitation system					kVA : 115 / 230 V			
					CONTINUOUS 40 °C		Stand-by 40 °C	Stand-by 27 °C
TYPE		SHUNT		Term	H : 125 K	F : 105 K	H : 150 K	H : 163 K
LSA 40 VS1	-	JM/4	-	4	10.5	9.5	11	11.4
LSA 40 VS2	-	JM/4	-	4	12	11	12.7	13.2
LSA 40 S3	-	JM/4	-	4	13.2	12	14	14.5
LSA 40 S4	-	JM/4	-	4	14.5	13.2	15.4	16
LSA 40 M5	-	JM/4	-	4	16	14.6	17	17.6
LSA 40 L7	-	JM/4	-	4	18.4	16.7	19.5	20.2
LSA 42.2 M7	-	JM/4	-	4	22	20	24	25
LSA 42.2 L9	-	JM/4	-	4	25	22.5	26	27



## RATINGS 60 Hz

<b>(D)</b> series Star (12 w.) or Star (6 w.)	<b>(A)</b> * parallel Star (12 wires)	<b>(C/F)</b> ** series Delta (12 w.) Delta (6 wires)
<b>380 - 416 V</b>	<b>190 - 208 V</b>	<b>220 - 240 V</b>

### 8.10 - Standard winding 6

Excitation system					kVA : 190*V.220**/380V (1)				kVA : 208*V.240**/416V			
					Cont. 40 °C		St-by 40°C	St-by 27°C	Cont. 40 °C		St-by 40°C	St-by 27°C
TYPE	SHUNT	AREP	PMG	Term	H:125 K	F:105 K	H: 150 K	H: 163 K	H:125 K	F:105 K	H: 150 K	H: 163 K
LSA 40 VS1	J6/4	C6/4	-	12	10	9.5	11	11.5	11	10.5	11.5	12
LSA 40 VS2	J6/4	C6/4	-	12	12.5	11.5	13.5	14	13.5	12.5	14.5	15
LSA 40 S3	J6/4	C6/4	-	12	15	14	16	17	16.5	15.5	18	18.5
LSA 40 S4	J6/4	C6/4	-	12	17.5	16.5	19	19.5	19	18	20.5	21
LSA 40 M5	J6/4	C6/4	-	12	20	18.5	21.5	22	22	20.5	23.5	24.5
LSA 40 L7	J6/4	C6/4	-	12	22	20.5	24	24.5	24.5	23	26	27
LSA 42.2 M6	J6/4	C6/4	-	12	28	25	29	31	31	27	34	35
LSA 42.2 M7	J6/4	C6/4	-	12	31	28	33	34	34	31	36	38
LSA 42.2 L9	J6/4	C6/4	-	12	33	30	35	36	36	34	39	41
LSA 43.2 S1	J6/4	C6/4	Option	12	44	40	50	56	44	40	50	56
LSA 43.2 S15	J6/4	C6/4	Option	12	50	45	54	56	50	45	55	59
LSA 43.2 S25	J6/4	C6/4	Option	12	51	47	54	56	54	50	58	60
LSA 43.2 S35	J6/4	C6/4	Option	12	53	49	57	59	58	53	61	63
LSA 43.2 M45	J6/4	C6/4	Option	12	57	53	62	64	62	57	66	68
LSA 43.2 L65	J6/4	C6/4	Option	12	67	62	72	74	72	66	77	80
LSA 43.2 L8	J6/4	C6/4	Option	12	80	73	86	88	85	78	91	95
LSA 44.2 VS3	J6/4	C6/4	Option	12	95	85	100	105	100	90	105	110
LSA 44.2 VS45	J6/4	C6/4	Option	12	109	101	117	120	117	108	125	129
LSA 44.2 S7	J6/4	C6/4	Option	12	126	115	133	139	137	123	143	151
LSA 44.2 S75	J6/4	C6/4	Option	12	136	122	143	150	146	132	154	162
LSA 44.2 M95	J6/4	C6/4	Option	12	156	144	167	173	167	154	179	185
LSA 44.2 L12	J6/4	C6/4	Option	12	169	155	181	187	180	165	193	201
LSA 46.2 M3	J6/4	C6/4	Option	12	192	177	203	211	205	189	219	225
LSA 46.2 M5	J6/4	C6/4	Option	12	205	190	219	227	219	203	235	242
LSA 46.2 L6	J6/4	C6/4	Option	12	257	239	276	285	276	255	295	304
LSA 46.2 L9	J6/4	C6/4	Option	12	296	273	313	326	316	291	338	348
LSA 46.2 VL12	J6/4	C6/4	Option	12	333	309	359	370	357	329	383	399
LSA 47.2 VS2	J6/4	C6/4	Option	12	424	394	451	469	454	410	483	500
LSA 47.2 S4	J6/4	C6/4	Option	12	450	396	475	500	480	442	513	530
LSA 47.2 S5	J6/4	C6/4	Option	12	475	441	503	527	510	473	543	562
LSA 47.2 M7	J6/4	C6/4	Option	12	562	523	600	625	610	566	651	668
LSA 47.2 M8	J6/4	C6/4	Option	12	562	523	600	625	610	566	651	671
LSA 47.2 L9	J6/4	C6/4	Option	12	602	556	643	667	661	609	707	728
LSA 47.2 L9	-	C6S/4	Option	6	602	556	643	667	661	609	707	728
LSA 49.1 S4	-	C6S/4	Option	6	710	639	745	781	710	639	745	781
LSA 49.1 M6	-	C6S/4	Option	6	780	702	819	858	780	702	819	858
LSA 49.1 M75	-	C6S/4	Option	6	866	780	910	953	936	842	983	1030
LSA 49.1 L9	-	C6S/4	Option	6	910	819	955	1000	980	882	1029	1078
LSA 49.1 L10	-	C6S/4	Option	6	958	862	1006	1054	1020	918	1071	1122
LSA 49.1 L11	-	C6S/4	Option	6	1000	900	1040	1090	1080	980	1135	1190
LSA 50.2 M6	-	C6S/4	Option	6	1285	1155	1350	1410	1405	1265	1475	1545
LSA 50.2 L7	-	C6S/4	Option	6	1375	1240	1440	1510	1500	1350	1575	1650
LSA 50.2L8	-	C6S/4	Option	6	1485	1335	1560	1630	1625	1460	1705	1785
LSA 50.2 VL10	-	C6S/4	Option	6	1635	1470	1715	1800	1785	1605	1875	1965
LSA 51.2 S55	-	C6S/4	Option	6	1860	1695	1955	2045	2030	1850	2150	2235
LSA 51.2 M60	-	C6S/4	Option	6	2050	1870	2155	2255	2240	2045	2375	2465
LSA 51.2 L70	-	C6S/4	Option	6	2200	2005	2330	2420	2400	2190	2545	2640
LSA 51.2 VL90	-	C6S/4	Option	6	2360	2150	2500	2595	2575	2350	2730	2835

### OPTION : 12 LEADS RANGE

LSA 49.1 S3	-	C6/4	Option	12	590	531	620	650	640	576	672	706
LSA 49.1 M5	-	C6/4	Option	12	740	666	777	816	790	711	830	871
LSA 49.1 M7	-	C6/4	Option	12	850	765	893	937	910	820	956	1000
LSA 49.1 L9	-	C6/4	Option	12	880	792	924	970	940	846	987	1036
LSA 49.1 L11	-	C6/4	Option	12	960	865	1010	1056	1040	940	1095	1145

\*12 terminal ends only - (1) Use winding 8 for parallel operation with the main  
\*\*not available for 51.2



## RATINGS 60 Hz

<b>(D)</b> series Star (12 w.) or Star (6 w.)	<b>(A)</b> * parallel Star (12 wires)	<b>(C/F)</b> ** series Delta (12 w.) Delta (6 wires)
<b>440 - 480 V</b>	<b>220 - 240 V</b>	<b>254 - 277 V</b>

### 8.11 - Standard winding 6

Excitation system					kVA : 220*V.254**/440V				kVA : 240*V.277**/480V			
					Cont. 40 °C		St-by 40°C	St-by 27°C	Cont. 40 °C		St-by 40°C	St-by 27°C
TYPE	SHUNT	AREP	PMG	Term	H:125 K	F:105 K	H: 150 K	H: 163 K	H:125 K	F:105 K	H: 150 K	H: 163 K
LSA 40 VS1	J6/4	C6/4	-	12	11.5	10.5	12.5	13	12.5	11.5	13.5	14
LSA 40 VS2	J6/4	C6/4	-	12	14.5	13.5	15.5	16	15.5	14.5	16.5	17
LSA 40 S3	J6/4	C6/4	-	12	17.5	16.5	19	19.5	19	17.5	20	21
LSA 40 S4	J6/4	C6/4	-	12	20	19	21.5	22	22	20.5	23.5	24.5
LSA 40 M5	J6/4	C6/4	-	12	23	21.5	25	26	25	23	27	27.5
LSA 40 L7	J6/4	C6/4	-	12	25.5	24	27.5	28.5	28	25	30	31
LSA 42.2 M6	J6/4	C6/4	-	12	31	28	34	35	31	28	35	36
LSA 42.2 M7	J6/4	C6/4	-	12	34	31	37	38	34	32	37	39
LSA 42.2 L9	J6/4	C6/4	-	12	38	35	40	42	38	36	42	44
LSA 43.2 S1	J6/4	C6/4	Option	12	44	40	50	56	44	40	50	56
LSA 43.2 S15	J6/4	C6/4	Option	12	50	45	55	59	50	45	55	59
LSA 43.2 S25	J6/4	C6/4	Option	12	56	50	59	62	56	50	59	62
LSA 43.2 S35	J6/4	C6/4	Option	12	60	55	64	66	66	59	69	73
LSA 43.2 M45	J6/4	C6/4	Option	12	64	59	69	71	71	64	75	78
LSA 43.2 L65	J6/4	C6/4	Option	12	75	69	80	84	83	74	87	91
LSA 43.2 L8	J6/4	C6/4	Option	12	88	81	95	99	95	87	102	107
LSA 44.2 VS3	J6/4	C6/4	Option	12	105	95	110	115	115	105	120	125
LSA 44.2 VS45	J6/4	C6/4	Option	12	123	113	131	135	131	122	138	144
LSA 44.2 S7	J6/4	C6/4	Option	12	144	130	151	158	155	140	163	170
LSA 44.2 S75	J6/4	C6/4	Option	12	155	139	163	172	169	152	178	187
LSA 44.2 M95	J6/4	C6/4	Option	12	174	160	186	194	188	167	196	206
LSA 44.2 L12	J6/4	C6/4	Option	12	190	171	200	209	206	185	215	225
LSA 46.2 M3	J6/4	C6/4	Option	12	220	198	228	237	228	210	244	255
LSA 46.2 M5	J6/4	C6/4	Option	12	230	211	245	252	250	225	262	273
LSA 46.2 L6	J6/4	C6/4	Option	12	289	265	308	317	300	278	324	337
LSA 46.2 L9	J6/4	C6/4	Option	12	328	302	351	366	344	302	357	375
LSA 46.2 VL12	J6/4	C6/4	Option	12	372	341	397	415	381	347	412	429
LSA 47.2 VS2	J6/4	C6/4	Option	12	456	410	500	518	456	410	511	530
LSA 47.2 S4	J6/4	C6/4	Option	12	500	442	533	550	512	465	550	581
LSA 47.2 S5	J6/4	C6/4	Option	12	531	493	566	585	570	518	592	625
LSA 47.2 M7	J6/4	C6/4	Option	12	625	581	669	690	625	590	680	700
LSA 47.2 M8	J6/4	C6/4	Option	12	630	587	672	705	690	632	729	750
LSA 47.2 L9	J6/4	C6/4	Option	12	685	634	734	763	750	675	780	825
LSA 47.2 L9	-	C6S/4	Option	6	685	634	734	763	750	675	780	825
LSA 49.1 S4	-	C6S/4	Option	6	725	652	760	798	792	712	830	871
LSA 49.1 M6	-	C6S/4	Option	6	800	720	840	880	870	783	913	957
LSA 49.1 M75	-	C6S/4	Option	6	960	865	1008	1056	960	865	1008	1056
LSA 49.1 L9	-	C6S/4	Option	6	1010	909	1060	1111	1056	950	1108	1162
LSA 49.1 L10	-	C6S/4	Option	6	1050	945	1102	1155	1092	983	1146	1200
LSA 49.1 L11	-	C6S/4	Option	6	1145	1040	1200	1260	1250	1140	1310	1375
LSA 50.2 M6	-	C6S/4	Option	6	1455	1310	1530	1600	1560	1405	1640	1720
LSA 50.2 L7	-	C6S/4	Option	6	1555	1400	1630	1710	1680	1510	1765	1850
LSA 50.2 L8	-	C6S/4	Option	6	1720	1550	1805	1890	1875	1685	1965	2060
LSA 50.2 VL10	-	C6S/4	Option	6	1860	1675	1950	2050	2000	1800	2100	2200
LSA 51.2 S55	-	C6S/4	Option	6	2150	1960	2280	2365	2230	2035	2340	2455
LSA 51.2 M60	-	C6S/4	Option	6	2375	2165	2520	2615	2460	2245	2585	2705
LSA 51.2 L70	-	C6S/4	Option	6	2545	2320	2700	2800	2640	2410	2800	2905
LSA 51.2 VL90	-	C6S/4	Option	6	2730	2490	2895	3005	2830	2570	2990	3100

### OPTION : 12 LEADS RANGE

LSA 49.1 S3	-	C6/4	option	12	670	603	705	740	720	648	756	795
LSA 49.1 M5	-	C6/4	option	12	830	747	872	915	870	783	915	960
LSA 49.1 M7	-	C6/4	option	12	930	837	976	1023	930	837	976	1023
LSA 49.1 L9	-	C6/4	option	12	980	882	1029	1080	1025	925	1080	1130
LSA 49.1 L11	-	C6/4	option	12	1080	975	1135	1190	1165	1054	1220	1280

\*12 terminal ends only - \*\*not available for LSA 51.2



# PARTNER®

**1800 R.P.M. - 4 pole**  
**3 Phase - P.F. 0,8**



## RATINGS 60 Hz

<b>(D)</b> series Star (12 w.) or Star (6 w.)	<b>(A)</b> * parallel Star (12 wires)	<b>(C/F)</b> ** series Delta (12 w.) Delta (6 wires)
<b>380 - 416 V</b>	<b>190 - 208 V</b>	<b>220 - 240 V</b>

### 8.12 - Specific winding 8

Excitation system					kVA : 190*V.220**/380V				kVA : 208*V.240**/416V			
					Cont. 40 °C		St-by 40°C	St-by 27°C	Cont. 40 °C		St-by 40°C	St-by 27°C
TYPE	SHUNT	AREP	PMG	Term	H:125 K	F:105 K	H: 150 K	H: 163 K	H:125 K	F:105 K	H: 150 K	H: 163 K
LSA 40 VS1	J8/4	C8/4	-	12	11.5	10.5	12	12.7	12.5	11.5	13.5	14
LSA 40 VS2	J8/4	C8/4	-	12	14.5	13.2	15.5	16	15.5	14	16.5	17
LSA 40 S3	J8/4	C8/4	-	12	17.5	16	18.5	19.5	19	17.5	20	21
LSA 40 S4	J8/4	C8/4	-	12	20	18	21	22	22	20	23.5	24
LSA 40 M5	J8/4	C8/4	-	12	23	21	24.5	25.5	25	23	26.5	27.5
LSA 40 L7	J8/4	C8/4	-	12	25.5	23	27	28	28	25.5	30	31
LSA 42.2 S5	J8/4	C8/4	-	12	29	26	30	32	29	26	30	32
LSA 42.2 M6	J8/4	C8/4	-	12	32	29	34	35	32	29	34	35
LSA 42.2 M7	J8/4	C8/4	-	12	35	32	37	39	35	32	37	39
LSA 42.2 L9	J8/4	C8/4	-	12	39	35	41	43	39	35	41	43
LSA 43.2 S1	J8/4	C8/4	option	12	50	45	53	55	50	45	53	55
LSA 43.2 S15	J8/4	C8/4	option	12	53	48	56	58	53	48	56	58
LSA 43.2 S25	J8/4	C8/4	option	12	57	51	60	63	57	51	60	63
LSA 43.2 S35	J8/4	C8/4	option	12	61	55	64	67	61	55	64	67
LSA 43.2 M45	J8/4	C8/4	option	12	68	61	73	76	68	61	73	76
LSA 43.2 L65	J8T/4	C8T/4	option	12	78	70	84	88	-	-	-	-
LSA 43.2 L8	J8T/4	C8T/4	option	12	93	84	100	105	-	-	-	-
LSA 44.2 VS3	J8T/4	C8T/4	option	12	110	100	116	121	-	-	-	-
LSA 44.2 VS45	J8T/4	C8T/4	option	12	130	120	139	143	-	-	-	-
LSA 44.2 S7	J8T/4	C8T/4	option	12	153	141	164	170	-	-	-	-
LSA 44.2 M95	J8/4	C8/4	option	12	180	162	190	200	180	162	190	200
LSA 44.2 L12	J8T/4	C8T/4	option	12	187	172	200	206	-	-	-	-
LSA 46.2 M3	J8/4	C8/4	option	12	217	200	233	243	217	195	228	239
LSA 46.2 M5	J8/4	C8/4	option	12	240	221	255	265	240	216	252	265
LSA 46.2 L6	J8T/4	C8T/4	option	12	300	270	318	328	-	-	-	-
LSA 46.2 L9	-	C8S/4	option	6	325	300	340	360	325	300	340	360
LSA 46.2 VL12	-	C8S/4	option	6	380	350	410	425	380	350	410	425
LSA 47.2 VS3	J8/4	C8/4	option	12	493	458	525	545	493	458	525	545
LSA 47.2 S4	-	C8TS/4	option	6	520	485	555	575	-	-	-	-
LSA 47.2 S5	-	C8TS/4	option	6	550	510	585	605	-	-	-	-
LSA 47.2 M7	-	C8S/4	option	6	645	590	685	710	645	590	685	710
LSA 47.2 L9	J8/4	C8/4	option	12	705	645	750	785	705	645	750	785
LSA 49.1 S4	-	C8TS/4	option	6	780	745	830	875	-	-	-	-
LSA 49.1 M6	-	C8TS/4	option	6	870	815	925	975	-	-	-	-
LSA 49.1 M75	-	C8TS/4	option	6	965	890	1023	1070	-	-	-	-
LSA 49.1 L8	-	C8TS/4	option	6	1030	945	1100	1155	-	-	-	-
LSA 50.2 S4	-	C8S/4	option	6	1200	1080	1260	1320	1260	1135	1325	1390
LSA 50.2 M6	-	C8TS/4	option	6	1450	1305	1520	1595	1450	1305	1520	1595
LSA 50.2 L7	-	C8TS/4	option	6	1550	1400	1628	1705	1550	1400	1628	1705
LSA 50.2 L8	-	C8S/4	option	6	1640	1475	1725	1805	1750	1575	1840	1925
LSA 50.2 VL10	-	C8S/4	option	6	1800	1620	1890	1980	1900	1710	1995	2090
LSA 51.2 S55	-	C8S/4	option	6	2060	1855	2165	2265	2160	1945	2265	2375
LSA 51.2 M60	-	C8S/4	option	6	2360	2150	2500	2595	2455	2240	2605	2700
LSA 51.2 L80	-	C8S/4	option	6	2590	2360	2745	2850	2590	2360	2745	2850

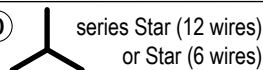
\*12 terminal ends only

\*\*not available for LSA 51.2



## RATINGS 60 Hz

(D)



series Star (12 wires)  
or Star (6 wires)

(C/F)



series Delta (12 wires)  
or Delta (6 wires)

**600 V**

**347 V**

### 8.13 - Specific winding 9





					kVA : 347/600 V			
Excitation system					Continuous 40 °C		Stand-by 40°C	Stand-by 27°C
TYPE		AREP	PMG	Term	H : 125 K	F : 105 K	H : 150 K	H : 163 K
LSA 40 VS1	-	C9/4	-	12	12.5	11.4	13.5	14
LSA 40 VS2	-	C9/4	-	12	15.5	14	16.5	17
LSA 40 S3	-	C9/4	-	12	19	17.5	20	21
LSA 40 S4	-	C9/4	-	12	22	20	23.5	25
LSA 40 M5	-	C9/4	-	12	25	23	26.5	27.5
LSA 40 L7	-	C9/4	-	12	28	25.5	30	31
LSA 42.2 M6	-	C9/4	-	12	31	28	33	34
LSA 42.2 M7	-	C9/4	-	12	35	32	37	39
LSA 42.2 L9	-	C9/4	-	12	38	34	40	42
LSA 43.2 S1	-	C9/4	option	12	48	43	50	53
LSA 43.2 S15	-	C9/4	option	12	51	47	54	57
LSA 43.2 S25	-	C9/4	option	12	55	50	58	61
LSA 43.2 S35	-	C9/4	option	12	61	55	64	67
LSA 43.2 M45	-	C9/4	option	12	68	61	71	75
LSA 43.2 L65	-	C9/4	option	12	80	72	84	88
LSA 43.2 L8	-	C9+/4	option	12	94	85	100	105
LSA 44.2 VS3	-	C9/4	option	12	110	100	116	121
LSA 44.2 VS45	-	C9/4	option	12	130	117	137	143
LSA 44.2 S7	-	C9/4	option	12	152	137	160	168
LSA 44.2 M95	-	C9+/4	option	12	175	158	184	193
LSA 44.2 L12	-	C9+/4	option	12	193	174	203	213
LSA 46.2 M3	-	C9/4	option	12	227	204	238	250
LSA 46.2 M5	-	C9+/4	option	12	250	220	260	275
LSA 46.2 L6	-	C9S/4	option	6	313	287	335	348
LSA 46.2 L9	-	C9S/4	option	6	340	302	357	375
LSA 46.2 VL12	-	C9/4	option	12	375	334	395	415
LSA 47.2 VS2	-	C9S/4	option	6	475	430	503	525
LSA 47.2 S4	-	C9/4	option	12	520	470	550	580
LSA 47.2 S5	-	C9/4	option	12	560	515	600	620
LSA 47.2 M7	-	C9/4	option	12	635	575	675	700
LSA 47.2 M8	-	C9+/4	option	12	685	620	725	755
LSA 47.2 L9	-	C9+S/4	option	6	725	660	770	800
LSA 49.1 S4	-	C9TS/4	option	6	750	675	785	825
LSA 49.1 M6	-	C9S/4	option	6	820	740	860	900
LSA 49.1 M75	-	C9S/4	option	6	890	810	940	980
LSA 49.1 L9	-	C9TS/4	option	6	1056	950	1108	1160
LSA 49.1 L11	-	C9TS/4	option	6	1140	1025	1200	1250
LSA 50.2 M6	-	C9TS/4	option	6	1420	1278	1490	1562
LSA 50.2 L8	-	C9S/4	option	6	1600	1440	1680	1760
LSA 50.2 VL10	-	C9S/4	option	6	1765	1590	1853	1940
LSA 51.2 S55	-	C9S/4	option	6	2100	1890	2205	2310
LSA 51.2 M60	-	C9S/4	option	6	2250	2025	2365	2475
LSA 51.2 L70	-	C9S/4	option	6	2355	2120	2472	2590
LSA 51.2 VL85	-	C9S/4	option	6	2500	2250	2625	2750

Winding 9 : min. 570 V - max. 625 V / Winding 9+ : min. 600 V - max. 660 V / Winding 9 TS : min.545V - max 600 V.

# PARTNER®

1800 R.P.M. - 4 pole  
1 Phase - P.F. 0,8



RATINGS 60 Hz	
  double Delta (12 wires)	  open Delta (12 wires)
220 - 240 V	220 - 240 V

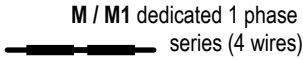
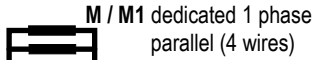
### 8.14 - Standard winding 6

					kVA : 240 V			
Excitation system					Continuous 40 °C		Stand-by 40°C	Stand-by 27°C
TYPE	SHUNT	AREP	PMG	Term	H : 125 K	F : 105 K	H : 150 K	H : 163 K
LSA 40 VS1	J6/4	C6/4	.	12	9	8.5	9.5	10
LSA 40 VS2	J6/4	C6/4	.	12	11.5	10.5	12	12.5
LSA 40 S3	J6/4	C6/4	.	12	13	12	13.5	14
LSA 40 S4	J6/4	C6/4	.	12	14.5	13	15	15.5
LSA 40 M5	J6/4	C6/4	.	12	16	15	17	17.5
LSA 40 L7	J6/4	C6/4	.	12	17.5	15.5	18.5	19.5
LSA 42.2 M6	J6/4	C6/4	-	12	19	17	20	21
LSA 42.2 M7	J6/4	C6/4	-	12	20	19	21	22
LSA 42.2 L9	J6/4	C6/4	-	12	21	20	23	24
LSA 43.2 S1	J6/4	C6/4	option	12	28	25	29	30
LSA 43.2 S15	J6/4	C6/4	option	12	31	28	33	34
LSA 43.2 S25	J6/4	C6/4	option	12	35	32	37	38
LSA 43.2 S35	J6/4	C6/4	option	12	36	34	39	40
LSA 43.2 M45	J6/4	C6/4	option	12	39	36	42	43
LSA 43.2 L65	J6/4	C6/4	option	12	45	42	48	50
LSA 43.2 L8	J6/4	C6/4	option	12	53	49	57	59
LSA 44.2 VS3	J6/4	C6/4	option	12	65	59	69	72
LSA 44.2 VS45	J6/4	C6/4	option	12	74	68	79	81
LSA 44.2 S7	J6/4	C6/4	option	12	83	77	89	92
LSA 44.2 S75	J6/4	C6/4	option	12	95	85	100	105
LSA 44.2 M95	J6/4	C6/4	option	12	104	96	110	115
LSA 44.2 L12	J6/4	C6/4	option	12	110	102	118	123
LSA 46.2 M3	J6/4	C6/4	option	12	128	119	136	141
LSA 46.2 M5	J6/4	C6/4	option	12	136	126	145	151
LSA 46.2 L6	J6/4	C6/4	option	12	173	160	184	192
LSA 46.2 L9	J6/4	C6/4	option	12	197	182	209	220
LSA 46.2 VL12	J6/4	C6/4	option	12	220	200	235	243

# PARTNER®

1800 R.P.M. - 4 pole  
1 Phase - P.F. 1



RATINGS 60 Hz	
 M / M1 dedicated 1 phase series (4 wires)	 M / M1 dedicated 1 phase parallel (4 wires)
240 V	120 V

### 8.15 - Dedicated winding M / M1

					kVA / kW : 120/240 V			
					Continuous 40 °C		Stand-by 40°C	Stand-by 27°C
TYPE		SHUNT		Term	H : 125 K	F : 105 K	H : 150 K	H : 163 K
LSA 40 VS1	-	JM/4	-	4	11.5	10.5	12	13
LSA 40 VS2	-	JM/4	-	4	13.5	12.5	14.5	15
LSA 40 S3	-	JM/4	-	4	14.5	13	15.5	16
LSA 40 S4	-	JM/4	-	4	16	14.5	17	17.5
LSA 40 M5	-	JM/4	-	4	17.5	16	19	19.5
LSA 40 L7	-	JM/4	-	4	20	18.5	21.5	22
LSA 42.2 M7	-	JM1/4	-	4	25	22.5	27	27.5
LSA 42.2 L9	-	JM1/4	-	4	30	27	32	33
LSA 43.2 S1	-	JM1/4	-	4	40	36	42	44
LSA 43.2 S25	-	JM1/4	-	4	48	43	51	53
LSA 43.2 S35	-	JM1/4	-	4	52	47	55	57
LSA 43.2 M45	-	JM1/4	-	4	55	50	58	60
LSA 43.2 L65	-	JM1/4	-	4	65	59	68	72
LSA 43.2 L8	-	JM1/4	-	4	75	68	80	82
LSA 44.2 VS3*	-	JM1/4	-	4	80	72	85	88
LSA 44.2 VS45*	-	JM1/4	-	4	85	76.5	90	93
LSA 44.2 S7*	-	JM1/4	-	4	100	90	105	110
LSA 44.2 M95*	-	JM1/4	-	4	135	121.5	140	148

\* Voltage 120V not possible as a standard feature.

