

Drive Efficiency data of LS Electric AC Drive series.

[Test Condition]

1. Operation at 60Hz, 50Hz
2. HD, ND Load 50, 75, 100% (M-G Set load, Corresponding motor to drive)
3. Operation at room temperature
4. Carrier Frequency (Default, Max value)

Product	Capacity /Load	fc(default)
iS7	0.75 ~ 22	5
	30 ~ 45	5
	55 ~ 75	5
	90 ~ 110	3
	132 ~ 160	3
	185 ~ 220	2
	280 ~ 375	2
S100	HD	3
	ND	2
H100	5.5 ~ 90	3
	110 ~ 355	2
	400 ~ 500	1.5
G100	HD	3
	ND	2
M100	HD	3

* The test was performed in LS laboratory.

* The result can be measured differently according to test conditions such as AC Reactor presence / input line length / input impedance and transformer capacity.

* Disclaimer of liability

LS Electric has reviewed the information in this publication to ensure consistency. However, LS Electric cannot guarantee full consistency, nor be responsible for any damages or compensation, since variance cannot be precluded entirely.

iS7 Series 200V Class
Model Number : SV□□□□iS7-2

Rated current	0.75 kW	1.5 kW	2.2 kW	3.7 kW	5.5 kW	7.5 kW	11 kW	15 kW	18.5 kW	22 kW	30 kW	37 kW	45 kW	55 kW	75 kW
HD	5	8	12	16	24	32	46	60	74	88	116	116	180	220	288
ND	8	12	16	24	32	46	60	74	88	124	146	146	220	228	345

iS7 230V, 60Hz, HD

PF	0.75 kW	1.5 kW	2.2 kW	3.7 kW	5.5 kW	7.5 kW	11 kW	15 kW	18.5 kW	22 kW	30 kW	37 kW	45 kW	55 kW	75 kW
Input	0.93	0.93	0.93	0.93	0.93	0.92	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93

Efficiency @ fc(default)

Load	0.75 kW	1.5 kW	2.2 kW	3.7 kW	5.5 kW	7.5 kW	11 kW	15 kW	18.5 kW	22 kW	30 kW	37 kW	45 kW	55 kW	75 kW
50%	94.4	94.9	95.91	96.4	96.5	96.86	96.6	96.7	96.8	96.96	96.86	97.5	97.47	97.5	97.5
75%	95.1	95.6	96.63	96.6	96.7	96.99	96.9	96.9	97.0	97.18	97.35	97.1	97.60	97.3	97.5
100%	95.2	95.7	96.71	96.4	96.5	96.85	96.9	96.9	97.0	97.17	97.29	96.9	97.36	97.0	97.1

iS7 230V, 60Hz, ND

PF	0.75 kW	1.5 kW	2.2 kW	3.7 kW	5.5 kW	7.5 kW	11 kW	15 kW	18.5 kW	22 kW	30 kW	37 kW	45 kW	55 kW	75 kW
Input	0.93	0.93	0.94	0.93	0.93	0.94	0.93	0.93	0.93	0.94	0.93	0.93	0.93	0.93	0.93

Efficiency @ fc(default)

Load	0.75 kW	1.5 kW	2.2 kW	3.7 kW	5.5 kW	7.5 kW	11 kW	15 kW	18.5 kW	22 kW	30 kW	37 kW	45 kW	55 kW	75 kW
50%	94.3	95.2	96.57	96.0	96.1	97.00	96.3	96.5	96.5	96.87	96.99	96.2	97.62	97.0	97.2
75%	95.1	95.2	96.70	96.0	96.1	96.83	96.6	96.6	96.7	97.14	97.35	96.6	97.27	97.3	97.4
100%	95.8	95.9	96.62	96.2	96.3	96.53	96.8	96.8	96.9	97.02	97.1	97.0	97.40	97.5	97.2

iS7 Series 400V Class
Model Number : SV□□□□iS7-4

Rated current	0.75 kW	1.5 kW	2.2 kW	3.7 kW	5.5 kW	7.5 kW	11 kW	15 kW	18.5 kW	22 kW	30 kW	37 kW	45 kW	55 kW	75 kW
HD	2.5	4	6	8	12	16	24	30	39	45	61	75	91	110	152
ND	4	6	8	12	16	24	30	39	45	61	75	91	110	152	183

iS7 480V, 60Hz, HD

PF	0.75 kW	1.5 kW	2.2 kW	3.7 kW	5.5 kW	7.5 kW	11 kW	15 kW	18.5 kW	22 kW	30 kW	37 kW	45 kW	55 kW	75 kW
Input	0.91	0.93	0.93	0.92	0.93	0.90	0.91	0.92	0.91	0.93	0.91	0.92	0.94	0.95	0.95

Efficiency @ fc(default)

Load	0.75 kW	1.5 kW	2.2 kW	3.7 kW	5.5 kW	7.5 kW	11 kW	15 kW	18.5 kW	22 kW	30 kW	37 kW	45 kW	55 kW	75 kW
50%	92.9	96.22	94.63	95.32	97.19	97.54	96.51	96.52	97.00	95.64	98.29	97.30	97.44	97.56	98.29
75%	94.4	96.22	96.55	97.26	96.51	96.86	97.12	97.3	97.21	95.85	98.06	97.56	97.66	97.74	98.06
100%	95.96	96.48	96.81	97.52	97.12	97.47	97.32	97.67	97.42	97.63	98.05	97.83	97.88	97.91	98.05

iS7 480V, 60Hz, ND

PF	0.75 kW	1.5 kW	2.2 kW	3.7 kW	5.5 kW	7.5 kW	11 kW	15 kW	18.5 kW	22 kW	30 kW	37 kW	45 kW	55 kW	75 kW
Input	0.92	0.91	0.93	0.93	0.93	0.93	0.92	0.95	0.94	0.94	0.94	0.94	0.94	0.95	0.95

Efficiency @ fc(default)

Load	0.75 kW	1.5 kW	2.2 kW	3.7 kW	5.5 kW	7.5 kW	11 kW	15 kW	18.5 kW	22 kW	30 kW	37 kW	45 kW	55 kW	75 kW
50%	95.4	95.6	96.4	97.25	96.7	97.44	96.9	97.66	96.9	97.70	98.38	97.1	97.2	97.4	98.13
75%	96.1	96.3	96.8	97.61	97.0	97.58	97.2	97.68	97.1	97.74	98.09	97.3	97.4	97.5	98.12
100%	96.91	96.98	97.27	97.69	97.21	97.47	97.41	97.67	97.30	97.48	98.05	97.56	97.60	97.65	97.78

iS7 Series 400V Class
Model Number : SV□□□□iS7-4

Rated current	90kW	110kW	132kW	160kW	185kW	220kW	280kW	315kW	375kW
HD	183	223	264	325	370	432	547	613	731
ND	223	264	325	370	432	547	613	731	877

iS7 480V, 60Hz, HD

PF	90kW	110kW	132kW	160kW	185kW	220kW	280kW	315kW	375kW
Input	0.94	0.93	0.95	0.95	0.94	0.94	0.92	0.94	0.92

Efficiency @ fc(default)

Load	90kW	110kW	132kW	160kW	185kW	220kW	280kW	315kW	375kW
50%	97.88	97.99	98.08	98.64	98.25	98.52	98.55	98.31	98.63
75%	98.09	98.16	98.22	98.63	98.39	99.20	98.74	98.39	98.62
100%	98.30	98.34	98.37	98.51	98.54	98.68	98.48	98.47	98.56

iS7 480V, 60Hz, ND

PF	90kW	110kW	132kW	160kW	185kW	220kW	280kW	315kW	375kW
Input	0.92	0.93	0.93	0.93	0.94	0.94	0.92	0.94	0.93

Efficiency @ fc(default)

Load	90kW	110kW	132kW	160kW	185kW	220kW	280kW	315kW	375kW
50%	98.13	98.0	98.1	98.2	98.3	99.09	98.65	98.7	98.80
75%	98.12	98.2	98.2	98.3	98.4	98.59	98.58	98.8	98.68
100%	97.78	98.34	98.37	98.39	98.51	98.51	98.52	98.5	98.59

iS7 Series 200V Class
Model Number : SV□□□□iS7-2

Rated current	0.75 kW	1.5 kW	2.2 kW	3.7 kW	5.5 kW	7.5 kW	11 kW	15 kW	18.5 kW	22 kW	30 kW	37 kW	45 kW	55 kW	75 kW
HD	5	8	12	16	24	32	46	60	74	88	116	116	180	220	288
ND	8	12	16	24	32	46	60	74	88	124	146	146	220	228	345

iS7 230V, 50Hz, HD

PF	0.75 kW	1.5 kW	2.2 kW	3.7 kW	5.5 kW	7.5 kW	11 kW	15 kW	18.5 kW	22 kW	30 kW	37 kW	45 kW	55 kW	75 kW
Input	0.90	0.91	0.91	0.92	0.92	0.91	0.92	0.92	0.92	0.92	0.93	0.93	0.94	0.94	0.94

Efficiency @ fc(default)

Load	0.75 kW	1.5 kW	2.2 kW	3.7 kW	5.5 kW	7.5 kW	11 kW	15 kW	18.5 kW	22 kW	30 kW	37 kW	45 kW	55 kW	75 kW
50%	91.90	93.41	94.49	95.53	95.83	96.73	95.94	96.19	96.33	96.02	96.20	95.65	96.92	96.12	96.37
75%	93.40	94.41	96.3	95.94	96.15	96.82	96.26	96.43	96.51	96.18	96.79	96.12	97.39	96.44	96.61
100%	94.9	95.4	96.46	96.4	96.5	96.78	96.6	96.7	96.7	96.89	97.03	96.6	97.08	96.8	96.8

iS7 230V, 50Hz, ND

PF	0.75 kW	1.5 kW	2.2 kW	3.7 kW	5.5 kW	7.5 kW	11 kW	15 kW	18.5 kW	22 kW	30 kW	37 kW	45 kW	55 kW	75 kW
Input	0.91	0.91	0.93	0.92	0.93	0.93	0.93	0.93	0.93	0.94	0.93	0.94	0.94	0.94	0.94

Efficiency @ fc(default)

Load	0.75 kW	1.5 kW	2.2 kW	3.7 kW	5.5 kW	7.5 kW	11 kW	15 kW	18.5 kW	22 kW	30 kW	37 kW	45 kW	55 kW	75 kW
50%	94.12	94.33	96.08	95.63	95.78	96.87	96.11	96.25	96.34	96.2	95.97	95.93	97.08	97.03	97.20
75%	94.88	95.02	96.48	95.91	96.01	96.72	96.35	96.43	96.49	96.9	96.94	96.32	97.17	97.26	97.40
100%	95.6	95.7	96.42	96.2	96.2	96.47	96.6	96.6	96.7	96.81	96.97	96.7	97.11	97.5	97.2

iS7 Series 400V Class
Model Number : SV□□□□iS7-4

Rated current	0.75 kW	1.5 kW	2.2 kW	3.7 kW	5.5 kW	7.5 kW	11 kW	15 kW	18.5 kW	22 kW	30 kW	37 kW	45 kW	55 kW	75 kW
HD	2.5	4	6	8	12	16	24	30	39	45	61	75	91	110	152
ND	4	6	8	12	16	24	30	39	45	61	75	91	110	152	183

iS7 480V, 50Hz, HD

PF	0.75 kW	1.5 kW	2.2 kW	3.7 kW	5.5 kW	7.5 kW	11 kW	15 kW	18.5 kW	22 kW	30 kW	37 kW	45 kW	55 kW	75 kW
Input	0.91	0.93	0.93	0.92	0.93	0.90	0.91	0.92	0.91	0.93	0.91	0.92	0.94	0.95	0.95

Efficiency @ fc(default)

Load	0.75 kW	1.5 kW	2.2 kW	3.7 kW	5.5 kW	7.5 kW	11 kW	15 kW	18.5 kW	22 kW	30 kW	37 kW	45 kW	55 kW	75 kW
50%	92.60	94.11	95.08	94.75	96.15	96.25	96.07	95.72	96.86	97.28	96.92	97.06	97.20	97.32	97.85
75%	94.10	95.13	95.78	96.84	96.50	97.05	96.42	96.97	97.07	97.58	97.75	97.32	97.42	97.49	97.92
100%	95.63	96.15	96.48	97.19	96.86	97.21	96.78	97.13	97.28	97.49	98.04	97.59	97.63	97.67	97.85

iS7 480V, 50Hz, ND

PF	0.75 kW	1.5 kW	2.2 kW	3.7 kW	5.5 kW	7.5 kW	11 kW	15 kW	18.5 kW	22 kW	30 kW	37 kW	45 kW	55 kW	75 kW
Input	0.92	0.91	0.93	0.93	0.93	0.93	0.92	0.95	0.94	0.94	0.94	0.94	0.94	0.95	0.95

Efficiency @ fc(default)

Load	0.75 kW	1.5 kW	2.2 kW	3.7 kW	5.5 kW	7.5 kW	11 kW	15 kW	18.5 kW	22 kW	30 kW	37 kW	45 kW	55 kW	75 kW
50%	95.13	95.34	96.19	96.86	96.35	97	96.41	96.59	96.80	97.46	97.44	97.05	97.17	97.31	97.95
75%	95.90	96.04	96.61	97.36	96.60	97.19	96.67	97.21	96.98	97.54	98.04	97.27	97.35	97.44	97.90
100%	96.67	96.74	97.03	97.45	96.86	97.12	96.93	97.19	97.15	97.33	97.85	97.48	97.52	97.57	97.90

Technical Report

S100 Series 200V Class

Model Number : LSLV□□□□S100-2

Rated current	0.4kW (1ø)*	0.8kW (1ø)*	1.5kW (1ø)	2.2kW (1ø)	0.4kW (3ø)	0.8kW (3ø)	1.5kW (3ø)	2.2kW (3ø)	3.7kW (3ø)	4.0kW (3ø)	5.5kW (3ø)	7.5kW (3ø)	11kW (3ø)	15kW (3ø)
HD	2.5	5	8	11	2.5	5	8	11	16	17	24	32	46	60
ND	3.1	6	9.6	12	3.1	6	9.6	12	18	18	30	40	56	69

* 1ø = 1phase, 3ø = 3phase

S100 240V, 60Hz, HD

PF	0.4kW (1ø)*	0.8kW (1ø)*	1.5kW (1ø)	2.2kW (1ø)	0.4kW (3ø)	0.8kW (3ø)	1.5kW (3ø)	2.2kW (3ø)	3.7kW (3ø)	4.0kW (3ø)	5.5kW (3ø)	7.5kW (3ø)	11kW (3ø)	15kW (3ø)
Input	0.90	0.91	0.95	0.95	0.94	0.93	0.93	0.95	0.95	0.95	0.94	0.93	0.94	0.93

Efficiency @ fc(default)

Load	0.4kW (1ø)*	0.8kW (1ø)*	1.5kW (1ø)	2.2kW (1ø)	0.4kW (3ø)	0.8kW (3ø)	1.5kW (3ø)	2.2kW (3ø)	3.7kW (3ø)	4.0kW (3ø)	5.5kW (3ø)	7.5kW (3ø)	11kW (3ø)	15kW (3ø)
50%	85.86	91.77	95.98	96.67	87.90	96.32	94.07	96.41	95.81	96.92	95.44	97.49	97.96	97.68
75%	95.2	93.28	96.50	96.86	90.85	96.93	95.15	97.33	96.30	97.38	96.12	97.61	98.10	97.78
100%	96.12	94.82	96.39	96.64	93.91	97.06	96.24	97.34	96.80	97.33	96.81	97.52	97.91	97.73

S100 240V, 60Hz, ND

PF	0.4kW (1ø)*	0.8kW (1ø)*	1.5kW (1ø)	2.2kW (1ø)	0.4kW (3ø)	0.8kW (3ø)	1.5kW (3ø)	2.2kW (3ø)	3.7kW (3ø)	4.0kW (3ø)	5.5kW (3ø)	7.5kW (3ø)	11kW (3ø)	15kW (3ø)
Input	0.92	0.91	0.95	0.95	0.91	0.92	0.92	0.91	0.94	0.93	0.92	0.94	0.95	0.94

Efficiency @ fc(default)

Load	0.4kW (1ø)*	0.8kW (1ø)*	1.5kW (1ø)	2.2kW (1ø)	0.4kW (3ø)	0.8kW (3ø)	1.5kW (3ø)	2.2kW (3ø)	3.7kW (3ø)	4.0kW (3ø)	5.5kW (3ø)	7.5kW (3ø)	11kW (3ø)	15kW (3ø)
50%	86.27	93.9	96.73	96.86	92.6	96.92	95.2	97.02	96.1	97.27	97.3	97.70	98.07	97.73
75%	96.14	94.8	96.65	96.94	94.1	97.21	95.9	97.44	96.6	97.55	97.6	97.65	98.03	98.01
100%	96.37	95.58	96.42	96.62	95.0	97.25	96.67	97.42	97.05	97.4	97.51	97.48	97.97	97.52

S100 Series 400V Class
Model Number : LSLV□□□□S100-4

Rated current	0.4 kW	0.8 kW	1.5 kW	2.2 kW	3.7 kW	4.0 kW	5.5 kW	7.5 kW	11 kW	15 kW	18.5 kW	22 kW	30 kW	37 kW	45 kW	55 kW	75 kW
HD	1.3	2.5	4	5.5	8	9	12	16	24	30	39	45	61	75	91	110	152
ND	2	3.1	5.1	6.9	10	10	16	23	30	38	44	58	75	91	107	142	169

S100 480V, 60Hz, HD

PF	0.4 kW	0.8 kW	1.5 kW	2.2 kW	3.7 kW	4.0 kW	5.5 kW	7.5 kW	11 kW	15 kW	18.5 kW	22 kW	30 kW	37 kW	45 kW	55 kW	75 kW
Input	0.91	0.90	0.91	0.91	0.92	0.93	0.93	0.93	0.93	0.94	0.93	0.93	0.93	0.94	0.94	0.94	0.94

Efficiency @ fc(default)

Load	0.4 kW	0.8 kW	1.5 kW	2.2 kW	3.7 kW	4.0 kW	5.5 kW	7.5 kW	11 kW	15 kW	18.5 kW	22 kW	30 kW	37 kW	45 kW	55 kW	75 kW
50%	88.62	96.50	94.80	96.93	96.64	97.77	95.97	97.83	97.44	98.13	97.81	98.50	98.36	97.79	98.41	97.94	98.67
75%	91.59	97.57	95.89	97.93	97.19	98.21	96.73	98.20	97.82	98.58	98.04	98.50	98.44	98.07	98.49	98.13	98.65
100%	94.67	97.85	96.99	97.10	97.74	98.30	97.49	98.26	98.20	98.59	98.27	98.50	98.56	98.35	98.64	98.32	98.51

S100 480V, 60Hz, ND

PF	0.4 kW	0.8 kW	1.5 kW	2.2 kW	3.7 kW	4.0 kW	5.5 kW	7.5 kW	11 kW	15 kW	18.5 kW	22 kW	30 kW	37 kW	45 kW	55 kW	75 kW
Input	0.90	0.91	0.91	0.92	0.92	0.93	0.92	0.93	0.93	0.93	0.94	0.93	0.94	0.94	0.93	0.94	0.93

Efficiency @ fc(default)

Load	0.4 kW	0.8 kW	1.5 kW	2.2 kW	3.7 kW	4.0 kW	5.5 kW	7.5 kW	11 kW	15 kW	18.5 kW	22 kW	30 kW	37 kW	45 kW	55 kW	75 kW
50%	93.4	97.44	96.0	97.96	96.9	98.17	96.7	98.1	97.9	98.77	97.9	98.60	98.68	98.0	98.83	98.2	98.70
75%	94.9	97.93	96.7	98.24	97.4	98.43	97.2	98.45	98.2	98.72	98.1	98.60	98.63	98.3	98.77	98.4	98.74
100%	96.51	98.10	97.10	97.26	97.94	97.06	97.78	98.34	98.50	98.78	98.31	98.50	98.63	98.49	98.72	98.51	98.65

S100 Series 200V Class
Model Number : LSLV□□□□S100-2

Rated current	0.4kW (1ø)*	0.8kW (1ø)*	1.5kW (1ø)	2.2kW (1ø)	0.4kW (3ø)	0.8kW (3ø)	1.5kW (3ø)	2.2kW (3ø)	3.7kW (3ø)	4.0kW (3ø)	5.5kW (3ø)	7.5kW (3ø)	11kW (3ø)	15kW (3ø)
HD	2.5	5	8	11	2.5	5	8	11	16	17	24	32	46	60
ND	3.1	6	9.6	12	3.1	6	9.6	12	18	18	30	40	56	69

S100 240V, 50Hz, HD

PF	0.4kW (1ø)*	0.8kW (1ø)*	1.5kW (1ø)	2.2kW (1ø)	0.4kW (3ø)	0.8kW (3ø)	1.5kW (3ø)	2.2kW (3ø)	3.7kW (3ø)	4.0kW (3ø)	5.5kW (3ø)	7.5kW (3ø)	11kW (3ø)	15kW (3ø)
Input	0.90	0.91	0.95	0.95	0.94	0.93	0.93	0.95	0.95	0.95	0.94	0.93	0.94	0.93

Efficiency @ fc(default)

Load	0.4kW (1ø)*	0.8kW (1ø)*	1.5kW (1ø)	2.2kW (1ø)	0.4kW (3ø)	0.8kW (3ø)	1.5kW (3ø)	2.2kW (3ø)	3.7kW (3ø)	4.0kW (3ø)	5.5kW (3ø)	7.5kW (3ø)	11kW (3ø)	15kW (3ø)
50%	91.01	91.80	95.59	95.88	87.85	96.06	93.83	94.62	95.67	96.19	95.30	97.20	97.85	97.48
75%	93.97	93.31	96.41	96.80	90.80	96.82	94.90	96.98	96.16	97.05	95.98	97.41	97.83	97.43
100%	94.26	94.85	96.42	96.65	93.85	94.00	95.99	97.09	96.66	97.16	96.67	97.36	97.80	97.41

S100 240V, 50Hz, ND

PF	0.4kW (1ø)*	0.8kW (1ø)*	1.5kW (1ø)	2.2kW (1ø)	0.4kW (3ø)	0.8kW (3ø)	1.5kW (3ø)	2.2kW (3ø)	3.7kW (3ø)	4.0kW (3ø)	5.5kW (3ø)	7.5kW (3ø)	11kW (3ø)	15kW (3ø)
Input	0.92	0.91	0.95	0.95	0.91	0.92	0.92	0.91	0.94	0.93	0.92	0.94	0.95	0.94

Efficiency @ fc(default)

Load	0.4kW (1ø)*	0.8kW (1ø)*	1.5kW (1ø)	2.2kW (1ø)	0.4kW (3ø)	0.8kW (3ø)	1.5kW (3ø)	2.2kW (3ø)	3.7kW (3ø)	4.0kW (3ø)	5.5kW (3ø)	7.5kW (3ø)	11kW (3ø)	15kW (3ø)
50%	85.42	93.84	96.38	96.41	92.47	96.65	94.99	96.40	95.92	96.78	95.78	97.52	97.96	97.51
75%	95.84	94.66	96.55	96.81	94.00	97.04	95.73	97.19	96.38	97.28	96.28	97.48	98.00	97.58
100%	94.30	95.49	96.32	96.65	94.85	94.13	96.48	97.23	96.84	97.10	96.78	97.29	97.89	97.65

S100 Series 400V Class
Model Number : LSLV□□□□S100-4

Rated current	0.4 kW	0.8 kW	1.5 kW	2.2 kW	3.7 kW	4.0 kW	5.5 kW	7.5 kW	11 kW	15 kW	18.5 kW	22 kW	30 kW	37 kW	45 kW	55 kW	75 kW
HD	1.3	2.5	4	5.5	8	9	12	16	24	30	39	45	61	75	91	110	152
ND	2	3.1	5.1	6.9	10	10	16	23	30	38	44	58	75	91	107	142	169

S100 480V, 50Hz, HD

PF	0.4 kW	0.8 kW	1.5 kW	2.2 kW	3.7 kW	4.0 kW	5.5 kW	7.5 kW	11 kW	15 kW	18.5 kW	22 kW	30 kW	37 kW	45 kW	55 kW	75 kW
Input	0.91	0.90	0.91	0.91	0.92	0.93	0.93	0.93	0.93	0.94	0.93	0.93	0.93	0.94	0.94	0.94	0.94

Efficiency @ fc(default)

Load	0.4 kW	0.8 kW	1.5 kW	2.2 kW	3.7 kW	4.0 kW	5.5 kW	7.5 kW	11 kW	15 kW	18.5 kW	22 kW	30 kW	37 kW	45 kW	55 kW	75 kW
50%	88.40	96.19	94.58	96.33	96.47	97.28	95.88	97.48	97.05	97.96	97.81	98.60	97.93	97.49	98.17	97.84	98.55
75%	91.37	97.26	95.66	97.56	97.02	98.02	96.63	97.97	97.43	98.23	98.04	98.50	98.24	97.77	98.36	98.03	98.51
100%	94.44	97.61	96.76	97.87	97.47	97.13	97.39	98.16	97.82	98.20	98.27	98.50	98.35	98.06	98.34	98.22	98.41

S100 480V, 50Hz, ND

PF	0.4 kW	0.8 kW	1.5 kW	2.2 kW	3.7 kW	4.0 kW	5.5 kW	7.5 kW	11 kW	15 kW	18.5 kW	22 kW	30 kW	37 kW	45 kW	55 kW	75 kW
Input	0.90	0.91	0.91	0.92	0.92	0.93	0.92	0.93	0.93	0.93	0.94	0.93	0.94	0.94	0.93	0.94	0.93

Efficiency @ fc(default)

Load	0.4 kW	0.8 kW	1.5 kW	2.2 kW	3.7 kW	4.0 kW	5.5 kW	7.5 kW	11 kW	15 kW	18.5 kW	22 kW	30 kW	37 kW	45 kW	55 kW	75 kW
50%	93.26	97.13	95.84	97.50	96.76	97.87	96.54	98.05	97.61	98.21	97.92	98.80	98.39	97.77	98.54	98.08	98.55
75%	94.80	97.72	96.59	98.03	97.27	98.25	97.10	98.27	97.89	98.74	98.12	98.50	98.44	98.00	98.52	98.22	98.58
100%	96.37	97.96	97.34	98.10	97.38	97.21	97.66	98.22	98.17	98.45	98.31	98.50	98.46	98.24	98.47	98.36	98.50

H100 Series 200V Class

Model Number : LSLV□□□□H100-2

Rated current	5.5kW	7.5kW	11kW	15kW	18.5kW
ND	22	30	42	56	69

H100 240V, 60Hz, ND

PF	5.5kW	7.5kW	11kW	15kW	18.5kW
Input	0.91	0.90	0.91	0.90	0.92

Efficiency @ fc(default)

Load	5.5kW	7.5kW	11kW	15kW	18.5kW
50%	96.4	97.60	98.06	97.85	97.7
75%	96.9	97.72	98.02	97.65	97.8
100%	97.37	97.56	97.88	97.42	98.00

H100 240V, 50Hz, ND

PF	5.5kW	7.5kW	11kW	15kW	18.5kW
Input	0.91	0.90	0.90	0.90	0.92

Efficiency @ fc(default)

Load	5.5kW	7.5kW	11kW	15kW	18.5kW
50%	96.01	97.35	97.91	97.06	96.67
75%	96.51	97.69	97.84	97.20	96.84
100%	97.01	97.52	97.76	97.01	97.01

H100 Series 400V Class
Model Number : LSLV□□□□H100-4

Rated current	5.5kW	7.5kW	11kW	15kW	18.5kW	22kW	30kW	37kW	45kW	55kW	75kW	90kW
ND	12	16	24	30	38	45	61	75	91	107	142	169

H100 480V, 60Hz, ND

PF	5.5kW	7.5kW	11kW	15kW	18.5kW	22kW	30kW	37kW	45kW	55kW	75kW	90kW
Input	0.90	0.90	0.91	0.93	0.93	0.93	0.93	0.93	0.94	0.94	0.93	0.94

Efficiency @ fc(default)

Load	5.5kW	7.5kW	11kW	15kW	18.5kW	22kW	30kW	37kW	45kW	55kW	75kW	90kW
50%	95.6	98.05	97.1	98.25	98.37	97.6	97.98	97.5	97.3	97.6	98.51	98.51
75%	96.4	98.25	97.5	98.73	98.43	97.8	98.24	97.8	97.5	97.8	98.48	98.48
100%	97.11	98.15	97.88	98.68	98.36	98.00	98.13	98.10	97.78	98.01	98.28	98.28

H100 480V, 50Hz, ND

PF	5.5kW	7.5kW	11kW	15kW	18.5kW	22kW	30kW	37kW	45kW	55kW	75kW	90kW
Input	0.90	0.91	0.92	0.93	0.93	0.93	0.92	0.93	0.92	0.93	0.93	0.93

Efficiency @ fc(default)

Load	5.5kW	7.5kW	11kW	15kW	18.5kW	22kW	30kW	37kW	45kW	55kW	75kW	90kW
50%	95.60	97.73	97.12	97.48	98.36	97.62	97.74	97.53	97.31	97.63	97.92	98.37
75%	96.36	98.08	97.50	97.83	98.16	97.81	97.85	97.82	97.54	97.82	98.06	98.29
100%	97.11	98.00	97.88	97.98	98.09	98.00	97.77	98.10	97.78	98.01	98.20	98.12

H100 Series 400V Class
Model Number : LSLV□□□□H100-4

Rated current	110kW	132kW	160kW	185kW	220kW	250kW	315kW	355kW	400kW	500kW
ND	223	264	325	370	432	481	613	683	770	962

H100 480V, 60Hz, ND

PF	110kW	132kW	160kW	185kW	220kW	250kW	315kW	355kW	400kW	500kW
Input	0.94	0.94	0.94	0.94	0.94	0.94	0.93	0.93	0.94	0.94

Efficiency @ fc(default)

Load	110kW	132kW	160kW	185kW	220kW	250kW	315kW	355kW	400kW	500kW
50%	92.5	97.7	97.8	97.8	97.8	97.4	98.4	98.6	98.2	98.4
75%	95.4	98.0	98.0	98.0	98.0	97.7	98.6	98.6	98.3	98.3
100%	96.0	98.0	98.0	97.9	97.9	97.7	98.4	98.4	98.2	98.4

H100 480V, 50Hz, ND

PF	110kW	132kW	160kW	185kW	220kW	250kW	315kW	355kW	400kW	500kW
Input	0.94	0.94	0.94	0.94	0.94	0.94	0.93	0.93	0.94	0.94

Efficiency @ fc(default)

Load	110kW	132kW	160kW	185kW	220kW	250kW	315kW	355kW	400kW	500kW
50%	92.5	97.7	97.8	97.8	97.8	97.4	98.4	98.6	98.2	98.4
75%	95.4	98.0	98.0	98.0	98.0	97.7	98.6	98.6	98.3	98.3
100%	96.0	98.0	98.0	97.9	97.9	97.7	98.4	98.4	98.2	98.4

H100 Series 600V Class
Model Number : LSLV□□□□H100-5

Rated current	5.5 kW	7.5 kW	11 kW	15 kW	18.5 kW	22 kW	30 kW	37 kW	45 kW	55 kW	75 kW	90 kW	132 kW	250 kW	300 kW
HD	6.6	9	12	17	23	27	34	43	55	64	80	104	156	290	336
ND	9	12	17	23	27	34	43	55	64	80	104	128	200	336	400

H100 600V, 60Hz, HD

PF	5.5 kW	7.5 kW	11 kW	15 kW	18.5 kW	22 kW	30 kW	37 kW	45 kW	55 kW	75 kW	90 kW	132 kW	250 kW	300 kW
Input	0.93	0.94	0.93	0.91	0.94	0.93	0.93	0.94	0.95	0.94	0.93	0.92	0.95	0.94	0.94

Efficiency @ fc(default)

Load	5.5 kW	7.5 kW	11 kW	15 kW	18.5 kW	22 kW	30 kW	37 kW	45 kW	55 kW	75 kW	90 kW	132 kW	250 kW	300 kW
50%	-	93.70	-	-	-	94.74	95.85	97.67	95.16	96.43	95.58	96.90	98.05	98.05	98.21
75%	95.42	96.82	97.27	92.56	96.39	96.89	97.28	98.01	97.15	97.59	97.25	97.72	98.38	98.24	98.39
100%	96.76	97.63	97.42	96.60	97.00	97.31	97.54	98.14	97.54	97.78	97.73	97.86	98.33	98.34	98.26

H100 600V, 60Hz, ND

PF	5.5 kW	7.5 kW	11 kW	15 kW	18.5 kW	22 kW	30 kW	37 kW	45 kW	55 kW	75 kW	90 kW	132 kW	250 kW	300 kW
Input	0.95	0.95	0.95	0.94	0.95	0.95	0.94	0.95	0.95	0.95	0.94	0.93	0.94	0.94	0.93

Efficiency @ fc(default)

Load	5.5 kW	7.5 kW	11 kW	15 kW	18.5 kW	22 kW	30 kW	37 kW	45 kW	55 kW	75 kW	90 kW	132 kW	250 kW	300 kW
50%	92.45	96.58	97.17	-	94.83	96.39	96.98	97.82	96.36	97.21	97.10	97.19	98.05	98.11	98.32
75%	96.79	97.90	97.62	96.83	96.74	97.15	97.59	98.05	97.42	97.66	97.71	97.89	98.45	98.29	98.33
100%	97.50	98.11	97.82	97.23	97.04	97.43	97.63	98.12	97.68	97.85	97.90	97.82	98.44	98.26	98.21

Technical Report

G100 Series 200V Class

Model Number : LSLV□□□□G100-2

Rated current	0.4kW	0.75kW	1.5kW	2.2kW	4.0kW	5.5kW	7.5kW	11kW	15kW	18.5kW	22kW
HD	2.5	5	8	11	17	24	32	47	60	75	88
ND	3.1	6	9.6	12	18	30	40	56	70	82	X

G100 220V, 60Hz, HD

PF	0.4kW	0.75kW	1.5kW	2.2kW	4.0kW	5.5kW	7.5kW	11kW	15kW	18.5kW	22kW
Input	0.68	0.71	0.73	0.74	0.76	0.78	0.77	0.78	0.80	0.82	0.85

Efficiency @ fc(default)

Load	0.4kW	0.75kW	1.5kW	2.2kW	4.0kW	5.5kW	7.5kW	11kW	15kW	18.5kW	22kW
50%	92.40	96.14	95.58	95.82	95.48	95.96	96.30	97.61	98.03	97.92	97.81
75%	95.82	96.75	96.56	96.40	96.76	96.79	96.78	97.72	98.00	97.88	97.94
100%	96.37	96.81	96.67	96.36	96.82	96.86	96.70	97.71	97.89	97.86	97.80

G100 220V, 60Hz, ND

PF	0.4kW	0.75kW	1.5kW	2.2kW	4.0kW	5.5kW	7.5kW	11kW	15kW	18.5kW	22kW
Input	0.73	0.80	0.80	0.77	0.81	0.84	0.88	0.80	0.81	0.83	-

Efficiency @ fc(default)

Load	0.4kW	0.75kW	1.5kW	2.2kW	4.0kW	5.5kW	7.5kW	11kW	15kW	18.5kW	22kW
50%	-	96.18	95.19	95.33	95.24	95.31	95.28	97.88	97.97	98.02	-
75%	95.14	96.44	96.10	96.05	95.43	95.37	95.13	97.98	98.07	98.02	-
100%	95.92	96.43	96.12	95.94	95.31	95.14	94.69	97.73	97.90	97.96	-

G100 Series 400V Class

Model Number : LSLV□□□□G100-4

Rated current	0.4kW	0.75kW	1.5kW	2.2kW	4.0kW	5.5kW	7.5kW	11kW	15kW	18.5kW	22kW
HD	1.3	2.5	4.0	5.5	9.0	12.0	16.0	24	31	39	45
ND	2.0	3.1	5.1	6.9	10.0	16.0	23.0	31	38	45	61

G100 440V, 60Hz, HD

PF	0.4kW	0.75kW	1.5kW	2.2kW	4.0kW	5.5kW	7.5kW	11kW	15kW	18.5kW	22kW
Input	0.57	0.61	0.58	0.63	0.61	0.59	0.60	0.77	0.78	0.77	0.78

Efficiency @ fc(default)

Load	0.4kW	0.75kW	1.5kW	2.2kW	4.0kW	5.5kW	7.5kW	11kW	15kW	18.5kW	22kW
50%	-	94.26	96.32	96.14	96.75	92.83	96.73	98.15	98.31	97.88	98.77
75%	94.70	96.25	97.10	97.23	97.60	96.45	97.39	98.48	98.43	98.41	98.73
100%	95.82	96.86	97.33	97.56	97.67	96.92	97.42	98.50	98.35	98.55	98.65

G100 440V, 60Hz, ND

PF	0.4kW	0.75kW	1.5kW	2.2kW	4.0kW	5.5kW	7.5kW	11kW	15kW	18.5kW	22kW
Input	0.75	0.78	0.79	0.77	0.78	0.84	0.87	0.78	0.79	0.78	0.80

Efficiency @ fc(default)

Load	0.4kW	0.75kW	1.5kW	2.2kW	4.0kW	5.5kW	7.5kW	11kW	15kW	18.5kW	22kW
50%	92.28	96.19	94.42	96.84	95.56	96.68	97.04	98.52	98.50	98.47	98.74
75%	95.69	96.89	96.39	97.34	96.64	97.12	97.19	98.61	98.49	98.71	98.69
100%	96.52	97.12	96.85	97.43	96.88	97.22	97.01	98.54	98.35	98.40	98.60

Technical Report

G100 Series 200V Class

Model Number : LSLV□□□□G100-2

Rated current	0.4kW	0.75kW	1.5kW	2.2kW	4.0kW	5.5kW	7.5kW	11kW	15kW	18.5kW	22kW
HD	2.5	5	8	11	17	24	32	47	60	75	88
ND	3.1	6	9.6	12	18	30	40	56	70	82	-

G100 220V, 50Hz, HD

PF	0.4kW	0.75kW	1.5kW	2.2kW	4.0kW	5.5kW	7.5kW	11kW	15kW	18.5kW	22kW
Input	0.66	0.70	0.70	0.72	0.74	0.77	0.76	0.75	0.74	0.79	0.83

Efficiency @ fc(default)

Load	0.4kW	0.75kW	1.5kW	2.2kW	4.0kW	5.5kW	7.5kW	11kW	15kW	18.5kW	22kW
50%	90.0	95.0	94.4	94.3	94.3	95.1	95.6	97.25	97.19	97.48	93.75
75%	95.1	95.6	96.2	96.0	96.4	96.4	96.4	97.64	97.81	97.65	97.82
100%	95.9	95.7	96.4	96.2	96.5	96.6	96.4	97.48	97.84	97.55	97.73

G100 220V, 50Hz, ND

PF	0.4kW	0.75kW	1.5kW	2.2kW	4.0kW	5.5kW	7.5kW	11kW	15kW	18.5kW	22kW
Input	0.70	0.76	0.78	0.76	0.83	0.84	0.88	0.77	0.79	0.80	-

Efficiency @ fc(default)

Load	0.4kW	0.75kW	1.5kW	2.2kW	4.0kW	5.5kW	7.5kW	11kW	15kW	18.5kW	22kW
50%	-	95.7	94.0	94.5	94.0	94.5	95.0	97.57	97.66	97.72	-
75%	94.5	96.3	95.7	95.8	95.5	95.2	95.0	97.52	97.93	97.86	-
100%	95.5	96.4	95.9	95.9	96.0	95.0	94.7	97.61	97.72	97.67	-

G100 Series 400V Class

Model Number : LSLV□□□□G100-4

Rated current	0.4kW	0.75kW	1.5kW	2.2kW	4.0kW	5.5kW	7.5kW	11kW	15kW	18.5kW	22kW
HD	1.3	2.5	4.0	5.5	9.0	12.0	16.0	24	31	39	45
ND	2.0	3.1	5.1	6.9	10.0	16.0	23.0	31	38	45	61

G100 440V, 50Hz, HD

PF	0.4kW	0.75kW	1.5kW	2.2kW	4.0kW	5.5kW	7.5kW	11kW	15kW	18.5kW	22kW
Input	0.52	0.58	0.58	0.57	0.59	0.58	0.58	0.76	0.76	0.76	0.76

Efficiency @ fc(default)

Load	0.4kW	0.75kW	1.5kW	2.2kW	4.0kW	5.5kW	7.5kW	11kW	15kW	18.5kW	22kW
50%	-	93.3	95.4	94.5	95.6	91.5	95.9	97.71	97.77	88.98	97.07
75%	93.7	95.7	97.0	96.8	97.3	96.0	97.1	98.22	98.35	98.39	98.53
100%	95.2	96.4	97.2	97.2	97.4	96.5	97.2	98.29	98.29	98.37	98.63

G100 440V, 50Hz, ND

PF	0.4kW	0.75kW	1.5kW	2.2kW	4.0kW	5.5kW	7.5kW	11kW	15kW	18.5kW	22kW
Input	0.72	0.75	0.76	0.76	0.76	0.83	0.87	0.77	0.77	0.76	0.78

Efficiency @ fc(default)

Load	0.4kW	0.75kW	1.5kW	2.2kW	4.0kW	5.5kW	7.5kW	11kW	15kW	18.5kW	22kW
50%	90.4	95.5	92.5	96.3	94.6	96.0	96.7	98.27	98.33	89.76	98.73
75%	94.9	96.4	95.7	97.1	96.2	96.9	97.0	98.47	98.45	98.49	98.92
100%	96.0	96.7	96.4	97.3	96.5	97.0	96.9	98.42	98.32	98.50	98.65

M100 Series 200V Class

Model Number : LSLV□□□□M100-1

Rated current	0.1kW	0.2kW	0.4kW	0.8kW	1.5kW	2.2kW
HD	0.8	1.4	2.4	4.2	7.5	10

M100 220V, 60Hz, HD

PF	0.1kW	0.2kW	0.4kW	0.8kW	1.5kW	2.2kW
Input	0.93	0.98	0.97	1.00	1.00	1.00

Efficiency @ fc(default)

Load	0.1kW	0.2kW	0.4kW	0.8kW	1.5kW	2.2kW
50%	-	89.32	88.48	95.58	96.40	96.29
75%	88.47	94.42	95.16	97.10	96.95	97.16
100%	94.94	96.02	96.72	97.05	96.95	97.07

M100 220V, 50Hz, HD

PF	0.1kW	0.2kW	0.4kW	0.8kW	1.5kW	2.2kW
Input	0.90	0.99	0.96	1.00	1.00	1.00

Efficiency @ fc(default)

Load	0.1kW	0.2kW	0.4kW	0.8kW	1.5kW	2.2kW
50%	-	88.59	88.11	95.59	96.01	94.14
75%	87.52	95.13	95.27	96.90	96.89	96.96
100%	94.42	95.81	96.59	96.92	96.83	96.98

Heat loss data of LS ELECTRIC AC Drive series.

[Test Condition]

- Operation at 60Hz
- Load 100% (M-G Set load, Corresponding motor to drive)
- Operation at room temperature
- Carrier Frequency (Default value)

[Loss Definition]

- Total losses : Input Power - Output Power
- Internal losses : Based on design standard such as SMPS Rated Capacity, Fan and so forth
- External(Heat) losses : Total losses - Internal losses(※ 1wh = 3,600J, 1kcal = 4,186 J)

[Note]

"The heat loss values calculated by our company are based on efficiency measurements under rated conditions. These values may vary depending on actual installation environments and operating conditions (e.g., load rate, ambient temperature, ventilation, etc.). Therefore, we recommend considering a certain level of design margin and ensuring sufficient cooling capacity in thermal design."

Technical Report

Heat loss iS7 Series

Voltage	Model Number	Rated Power (kW)	HD				ND			
			Rated Output Current (A)	Total Losses (W)	Internal Losses (W)	Heat Losses (Kcal)	Rated Output Current (A)	Total Losses (W)	Internal Losses (W)	Heat Losses (Kcal)
220	SV0008iS7-2	0.75	5.0	55.6	12.0	37.5	8.0	88.9	12.0	66.2
220	SV0015iS7-2	1.5	8.0	95.3	16.0	68.2	12.0	142.9	16.0	109.2
220	SV0022iS7-2	2.2	12.0	143.0	16.0	109.2	16.0	190.6	16.0	150.2
220	SV0037iS7-2	3.7	16.0	193.2	16.0	152.4	24.0	289.8	16.0	235.4
220	SV0055iS7-2	5.5	24.0	259.1	18.0	207.4	32.0	345.5	18.0	281.7
220	SV0075iS7-2	7.5	32.0	339.8	18.0	276.7	46.0	488.5	18.0	404.6
220	SV0110iS7-2	11	46.0	495.1	36.0	394.9	60.0	645.8	36.0	524.5
220	SV0150iS7-2	15	60.0	630.9	36.0	511.7	74.0	778.2	36.0	638.3
220	SV0185iS7-2	18.5	74.0	779.0	36.0	639.0	88.0	926.4	36.0	765.7
220	SV0220iS7-2	22	88.0	909.7	36.0	751.3	124.0	1281.8	36.0	1071.4
220	SV0300iS7-2	30	116.0	1209.4	182.5	883.2	146.0	1522.2	182.5	1152.2
220	SV0370iS7-2	37	146.0	1485.9	182.5	1120.9	180.0	1831.9	182.5	1418.5
220	SV0450iS7-2	45	180.0	1836.6	182.5	1422.5	220.0	2244.7	182.5	1773.5
220	SV0550iS7-2	55	220.0	2191.4	182.5	1727.7	288.0	2868.8	182.5	2310.2
220	SV0750iS7-2	75	288.0	2858.1	182.5	2301.0	345.0	3423.7	182.5	2787.5
440	SV0008iS7-4	0.75	2.5	48.4	12.0	31.3	4.0	77.4	12.0	56.3
440	SV0015iS7-4	1.5	4.0	83.0	16.0	57.6	6.0	124.4	16.0	93.3
440	SV0022iS7-4	2.2	6.0	120.2	16.0	89.6	8.0	160.3	16.0	124.1
440	SV0037iS7-4	3.7	8.0	162.5	16.0	126.0	12.0	243.7	16.0	195.8
440	SV0055iS7-4	5.5	12.0	236.2	20.0	185.9	16.0	315.0	20.0	253.7
440	SV0075iS7-4	7.5	16.0	319.2	20.0	257.3	24.0	478.8	20.0	394.6
440	SV0110iS7-4	11	24.0	454.2	40.0	356.2	30.0	567.8	40.0	453.9
440	SV0150iS7-4	15	30.0	572.1	40.0	457.6	39.0	743.7	40.0	605.2
440	SV0185iS7-4	18.5	39.0	693.8	40.0	562.3	45.0	800.5	40.0	654.1
440	SV0220iS7-4	22	45.0	811.5	40.0	663.5	61.0	1100.0	40.0	911.6
440	SV0300iS7-4	30	61.0	1029.3	100.0	799.2	75.0	1265.6	100.0	1002.4
440	SV0370iS7-4	37	75.0	1276.7	100.0	1012.0	91.0	1549.0	100.0	1246.2
440	SV0450iS7-4	45	91.0	1553.7	100.0	1250.2	110.0	1878.1	100.0	1529.2
440	SV0550iS7-4	55	110.0	1823.4	100.0	1482.1	152.0	2519.6	100.0	2080.9
440	SV0750iS7-4	75	152.0	3121.5	100.0	2598.5	183.0	3758.1	100.0	3146.0
440	SV0900iS7-4	90	183.0	3149.1	193.0	2542.3	223.0	3837.5	193.0	3134.3
440	SV1100iS7-4	110	223.0	3147.0	193.0	2540.5	264.0	3725.6	193.0	3038.1
440	SV1320iS7-4	132	264.0	3584.3	193.0	2916.6	325.0	4412.5	193.0	3628.8
440	SV1600iS7-4	160	325.0	4499.5	193.0	3703.6	370.0	5122.5	193.0	4239.4
440	SV1850iS7-4	185	370.0	4678.1	268.0	3792.7	432.0	5462.0	268.0	4466.9
440	SV2200iS7-4	220	432.0	5628.1	268.0	4609.7	547.0	7126.3	268.0	5898.2
440	SV2800iS7-4	280	547.0	7011.8	268.0	5799.7	613.0	7857.8	268.0	6527.3
440	SV3150iS7-4	315	613.0	8095.9	268.0	6732.0	731.0	9654.3	268.0	8072.3
440	SV3750iS7-4	375	731.0	9551.4	268.0	7983.8	877.0	11459.0	268.0	9624.4

Technical Report

Heat loss S100 Series

Vol.	Model Number	Rated Power (kW)	HD				ND			
			Rated Output Current(A)	Total Losses(W)	Internal Losses(W)	Heat Losses (Kcal)	Rated Output Current(A)	Total Losses(W)	Internal Losses(W)	Heat Losses (Kcal)
220	LSLV0004S100-1	0.4	2.5	21.8	12.6	7.9	3.1	27.0	12.6	12.4
220	LSLV0008S100-1	0.75	5.0	47.0	12.6	29.5	6.0	56.3	12.6	37.6
220	LSLV0015S100-1	1.5	8.0	75.6	12.6	54.2	9.6	90.7	12.6	67.2
220	LSLV0022S100-1	2.2	11.0	103.3	12.6	78.0	12.0	112.7	12.6	86.1
220	LSLV0004S100-2	0.4	2.5	21.1	12.6	7.3	3.1	26.2	12.6	11.7
220	LSLV0008S100-2	0.8	5.0	45.5	12.6	28.3	6.0	54.6	12.6	36.1
220	LSLV0015S100-2	1.5	8.0	73.2	16.8	48.5	9.6	87.8	16.8	61.1
220	LSLV0022S100-2	2.2	11.0	99.9	16.8	71.5	12.0	109.0	16.8	79.3
220	LSLV0037S100-2	3.7	16.0	137.2	18.9	101.7	18.0	154.3	18.9	116.5
220	LSLV0040S100-2	4	17.0	140.4	18.9	104.5	18.0	148.7	18.9	111.6
220	LSLV0055S100-2	5.5	24.0	183.3	38.7	124.4	30.0	229.1	38.7	163.8
220	LSLV0075S100-2	7.5	32.0	247.7	38.7	179.8	40.0	309.7	38.7	233.0
220	LSLV0110S100-2	11	46.0	317.0	38.7	239.4	56.0	385.9	38.7	298.6
220	LSLV0150S100-2	15	60.0	378.4	38.7	292.2	69.0	435.2	38.7	341.0
440	LSLV0004S100-4	0.4	1.3	20.5	12.6	6.8	1.6	25.6	12.6	11.1
440	LSLV0008S100-4	0.8	2.5	45.5	12.6	28.3	3.1	56.4	12.6	37.7
440	LSLV0015S100-4	1.5	4.0	73.2	16.8	48.5	5.0	91.5	16.8	64.2
440	LSLV0022S100-4	2.2	5.5	99.9	16.8	71.5	6.9	125.3	16.8	93.3
440	LSLV0037S100-4	3.7	8.0	132.1	21.0	95.6	10.0	165.2	21.0	124.0
440	LSLV0040S100-4	4	9.0	148.7	21.0	109.8	10.0	165.2	21.0	124.0
440	LSLV0055S100-4	5.5	12.0	190.8	43.0	127.1	16.0	254.4	43.0	181.8
440	LSLV0075S100-4	7.5	16.0	247.7	43.0	176.1	23.0	356.1	43.0	269.3
440	LSLV0110S100-4	11	24.0	376.8	43.0	287.1	30.0	471.0	43.0	368.1
440	LSLV0150S100-4	15	30.0	474.7	43.0	371.3	38.0	601.3	43.0	480.2
440	LSLV0185S100-4	18.5	39.0	592.9	43.0	472.9	44.0	668.9	43.0	538.3
440	LSLV0220S100-4	22	45.0	664.3	43.0	534.3	58.0	856.2	43.0	699.3
440	LSLV0300S100-4	30	61.0	909.1	107.0	689.8	75.0	1117.8	107.0	869.3
440	LSLV0370S100-4	37	75.0	1078.6	107.0	835.6	91.0	1308.7	107.0	1033.5
440	LSLV0450S100-4	45	91.0	1313.4	107.0	1037.5	107.0	1544.3	107.0	1236.1
440	LSLV0550S100-4	55	110.0	1459.1	107.0	1162.8	142.0	1883.5	107.0	1527.8
440	LSLV0750S100-4	75	152.0	2084.9	107.0	1701.0	169.0	2318.0	107.0	1901.5

Heat loss H100 Series

Voltage	Model Number	Rated Power (kW)	ND			
			ND Rated Output Current(A)	Total Losses(W)	Internal Losses(W)	Heat Losses (Kcal)
220	LSLV0008H100-2	0.75	5.0	55.6	19.0	31.5
220	LSLV0015H100-2	1.5	8.0	73.2	19.0	46.6
220	LSLV0022H100-2	2.2	12.0	109.0	38.7	60.4
220	LSLV0037H100-2	3.7	16.0	137.2	38.7	84.7
220	LSLV0055H100-2	5.5	22.0	168.0	38.7	111.2
220	LSLV0075H100-2	7.5	30.0	232.3	38.7	166.5
220	LSLV0110H100-2	11	42.0	316.3	38.7	238.7
220	LSLV0150H100-2	15	56.0	371.1	38.7	285.9
220	LSLV0185H100-2	18.5	69.0	435.9	38.7	341.6
220	LSLV0220H100-2	22	82.0	809.6	54.9	649.1
220	LSLV0300H100-2	30	110.0	1128.5	54.9	923.4
220	LSLV0370H100-2	37	142.0	1397.7	103.5	1113.0
220	LSLV0450H100-2	45	169.0	1684.7	103.5	1359.9
220	LSLV0550H100-2	55	223.0	2153.9	247.9	1639.1
220	LSLV0750H100-2	75	264.0	2665.3	247.9	2078.9
220	LSLV0900H100-2	90	325.0	3152.2	261.7	2485.8
440	LSLV0008H100-4	0.75	2.5	41.3	19.0	19.0
440	LSLV0015H100-4	1.5	4.0	65.9	19.0	40.3
440	LSLV0022H100-4	2.2	6.0	97.8	43.0	47.1
440	LSLV0037H100-4	3.7	8.0	117.1	43.0	63.7
440	LSLV0055H100-4	5.5	12.0	168.3	43.0	107.8
440	LSLV0075H100-4	7.5	16.0	227.5	43.0	158.7
440	LSLV0110H100-4	11	24.0	346.1	43.0	260.7
440	LSLV0150H100-4	15	30.0	397.6	43.0	305.0
440	LSLV0185H100-4	18.5	38.0	504.5	43.0	396.9
440	LSLV0220H100-4	22	45.0	576.7	43.0	459.0
440	LSLV0300H100-4	30	61.0	789.6	107.0	587.1
440	LSLV0370H100-4	37	75.0	931.1	107.0	708.7
440	LSLV0450H100-4	45	91.0	1134.4	107.0	883.6
440	LSLV0550H100-4	55	107.0	1278.5	107.0	1007.5
440	LSLV0750H100-4	75	142.0	1756.4	107.0	1418.5
440	LSLV0900H100-4	90	169.0	1993.6	107.0	1622.5
440	LSLV1100H100-4	110	223.0	2540.1	257.4	1963.1
440	LSLV1320H100-4	132	264.0	3045.9	257.4	2398.1
440	LSLV1600H100-4	160	325.0	3611.2	271.7	2872.0
440	LSLV1850H100-4	185	370.0	4173.3	271.7	3355.4
440	LSLV2200H100-4	220	432.0	4734.5	286.0	3825.7
440	LSLV2500H100-4	250	481.0	5461.6	286.3	4450.8
440	LSLV3150H100-4	315	613.0	6807.5	479.0	5442.6
440	LSLV3550H100-4	355	683.0	7773.9	479.0	6273.6
440	LSLV4000H100-4	400	770.0	9105.2	478.5	7419.0
440	LSLV5000H100-4	500	962.0	11370.1	670.8	9201.5

Technical Report

Heat loss H100 Series

Voltage	Model Number	Rated Power (kW)	ND			
			ND Rated Output Current(A)	Total Losses(W)	Internal Losses(W)	Heat Losses (Kcal)
575	LSLV0055H100-5	5.5	9.0	179.4	47.0	113.8
575	LSLV0075H100-5	7.5	12.0	182.5	47.0	116.5
575	LSLV0110H100-5	11	17.0	303.2	47.0	220.4
575	LSLV0150H100-5	15	23.0	527.6	47.0	413.3
575	LSLV0185H100-5	18.5	27.0	664.6	47.0	531.2
575	LSLV0220H100-5	22	34.0	734.2	47.0	591.0
575	LSLV0300H100-5	30	43.0	862.9	47.0	701.7
575	LSLV0370H100-5	37	55.0	883.4	55.0	712.4
575	LSLV0450H100-5	45	64.0	1275.9	55.0	1,050.0
575	LSLV0550H100-5	55	80.0	1492.3	55.0	1,236.1
575	LSLV0750H100-5	75	104.0	1956.9	104.0	1,593.5
575	LSLV0900H100-5	90	128.0	2516.9	104.0	2,075.1
575	LSLV1100H100-5	110	156.0	2291.7	270.0	1,738.7
575	LSLV1320H100-5	132	200.0	2944.6	270.0	2,300.2
575	LSLV1600H100-5	160	242.0	3529.0	270.0	2,802.8
575	LSLV2000H100-5	200	290.0	4671.9	270.0	3,785.7
575	LSLV2500H100-5	250	336.0	6033.5	270.0	4,956.7
575	LSLV3000H100-5	300	400.0	7548.4	270.0	6,259.5

Heat loss H100 PLUS Series

Voltage	Model Number	Rated Power (kW)	HD				ND			
			Rated Output Current(A)	Total Losses(W)	Internal Losses(W)	Heat Losses (Kcal)	Rated Output Current(A)	Total Losses(W)	Internal Losses(W)	Heat Losses (Kcal)
220	LSLV0008H100-2 (PLUS)	0.75	2.5	28	19	7.6	5.0	55.6	39.0	14.3
220	LSLV0015H100-2 (PLUS)	1.5	5.0	46	19	23	8.0	73.2	39.0	29.4
220	LSLV0022H100-2 (PLUS)	2.2	8.0	73	39	34	12.0	109.0	38.7	60.4
220	LSLV0037H100-2 (PLUS)	3.7	11.0	94	39	56	16.0	137.2	38.7	84.7
220	LSLV0055H100-2 (PLUS)	5.5	17.0	130	39	91	22.0	168.0	38.7	111.2
220	LSLV0075H100-2 (PLUS)	7.5	24.0	186	39	147	30.0	232.3	38.7	166.5
220	LSLV0110H100-2 (PLUS)	11	32.0	241	39	202	42.0	316.3	38.7	238.7
220	LSLV0150H100-2 (PLUS)	15	46.0	305	39	266	56.0	371.1	38.7	285.9
220	LSLV0185H100-2 (PLUS)	18.5	60.0	379	39	340	69.0	435.9	38.7	341.6
220	LSLV0220H100-2 (PLUS)	22	68.0	671	55	617	82.0	809.6	54.9	649.1
220	LSLV0300H100-2 (PLUS)	30	81.0	831	55	776	110.0	1128.5	54.9	923.4
220	LSLV0370H100-2 (PLUS)	37	106.0	1,043	103	940	142.0	1397.7	103.5	1113.0
220	LSLV0450H100-2 (PLUS)	45	136.0	1,356	103	1,252	169.0	1684.7	103.5	1359.9
220	LSLV0550H100-2 (PLUS)	55	169.0	1,632	248	1,384	223.0	2153.9	247.9	1639.1
220	LSLV0750H100-2 (PLUS)	75	195.0	1,969	248	1,721	264.0	2665.3	247.9	2078.9
220	LSLV0900H100-2 (PLUS)	90	255.0	2,473	262	2,212	325.0	3152.2	261.7	2485.8
440	LSLV0008H100-4 (PLUS)	0.75	1.3	21	19	2	2.5	41.3	19.0	19.0
440	LSLV0015H100-4 (PLUS)	1.5	2.5	41	19	22	4.0	65.9	19.0	40.3
440	LSLV0022H100-4 (PLUS)	2.2	4.0	65	43	22	6.0	97.8	43.0	47.1
440	LSLV0037H100-4 (PLUS)	3.7	5.5	81	43	38	8.0	117.1	43.0	63.7
440	LSLV0055H100-4 (PLUS)	5.5	8.0	112	43	69	12.0	168.3	43.0	107.8
440	LSLV0075H100-4 (PLUS)	7.5	12.0	171	43	128	16.0	227.5	43.0	158.7
440	LSLV0110H100-4 (PLUS)	11	15.0	216	43	173	24.0	346.1	43.0	260.7
440	LSLV0150H100-4 (PLUS)	15	22.0	292	43	249	30.0	397.6	43.0	305.0
440	LSLV0185H100-4 (PLUS)	18.5	28.0	372	43	329	38.0	504.5	43.0	396.9
440	LSLV0220H100-4 (PLUS)	22	35.0	449	43	406	45.0	576.7	43.0	459.0
440	LSLV0300H100-4 (PLUS)	30	41.0	531	107	424	61.0	789.6	107.0	587.1
440	LSLV0370H100-4 (PLUS)	37	55.0	683	107	576	75.0	931.1	107.0	708.7
440	LSLV0450H100-4 (PLUS)	45	67.0	835	107	728	91.0	1134.4	107.0	883.6
440	LSLV0550H100-4 (PLUS)	55	81.0	968	107	861	107.0	1278.5	107.0	1007.5
440	LSLV0750H100-4 (PLUS)	75	106.0	1,311	107	1,204	142.0	1756.4	107.0	1418.5
440	LSLV0900H100-4 (PLUS)	90	136.0	1,604	107	1,497	169.0	1993.6	107.0	1622.5
440	LSLV1100H100-4 (PLUS)	110	169.0	1,434	257	1,668	223.0	2540.1	257.4	1963.1
440	LSLV1320H100-4 (PLUS)	132	195.0	1,713	257	1,992	264.0	3045.9	257.4	2398.1
440	LSLV1600H100-4 (PLUS)	160	255.0	2,203	272	2,562	325.0	3611.2	271.7	2872.0
440	LSLV1850H100-4 (PLUS)	185	305.0	2,725	272	3,168	370.0	4173.3	271.7	3355.4
440	LSLV2200H100-4 (PLUS)	220	345.0	3,006	286	3,495	432.0	4734.5	286.0	3825.7
440	LSLV2500H100-4 (PLUS)	250	375.0	3,416	286	3,972	481.0	5461.6	286.3	4450.8
440	LSLV3150H100-4 (PLUS)	315	478.0	4,153	479	4,829	613.0	6807.5	479.0	5442.6
440	LSLV3550H100-4 (PLUS)	355	541.0	4,884	479	5,679	683.0	7773.9	479.0	6273.6
440	LSLV4000H100-4 (PLUS)	400	591.0	5,599	479	6,510	770.0	9105.2	478.5	7419.0
440	LSLV5000H100-4 (PLUS)	500	740.0	6,945	671	8,075	962.0	11370.1	670.8	9201.5

Heat loss H100 PLUS Series

Voltage	Model Number	Rated Power (kW)	HD				ND			
			Rated Output Current(A)	Total Losses(W)	Internal Losses(W)	Heat Losses (Kcal)	Rated Output Current(A)	Total Losses(W)	Internal Losses(W)	Heat Losses (Kcal)
575	LSLV0055H100-5 (PLUS)	5.5	6.6	132	47	85	9.0	179.4	47.0	113.8
575	LSLV0075H100-5 (PLUS)	7.5	9.0	137	47	90	12.0	182.5	47.0	116.5
575	LSLV0110H100-5 (PLUS)	11	12.0	214	47	167	17.0	303.2	47.0	220.4
575	LSLV0150H100-5 (PLUS)	15	17.0	390	47	343	23.0	527.6	47.0	413.3
575	LSLV0185H100-5 (PLUS)	18.5	23.0	566	47	519	27.0	664.6	47.0	531.2
575	LSLV0220H100-5 (PLUS)	22	27.0	583	47	536	34.0	734.2	47.0	591.0
575	LSLV0300H100-5 (PLUS)	30	32.2	682	47	635	40.2	862.9	47.0	701.7
575	LSLV0370H100-5 (PLUS)	37	41.6	691	55	636	52	883.4	55.0	712.4
575	LSLV0450H100-5 (PLUS)	45	52.0	1,097	55	1,042	59.8	1275.9	55.0	1,050.0
575	LSLV0550H100-5 (PLUS)	55	60.0	1,194	55	1,139	73.9	1492.3	55.0	1,236.1
575	LSLV0750H100-5 (PLUS)	75	80.0	1,505	104	1,401	101.9	1956.9	104.0	1,593.5
575	LSLV0900H100-5 (PLUS)	90	104.0	2,045	104	1,941	122.4	2516.9	104.0	2,075.1

Technical Report

Heat loss G100 Series

Vol.	Model Number	Rated Power (kW)	HD				ND			
			Rated Output Current(A)	Total Losses(W)	Internal Losses(W)	Heat Losses (Kcal)	Rated Output Current(A)	Total Losses(W)	Internal Losses(W)	Heat Losses (Kcal)
220	LSLV0004G100-2	0.4	2.5	22.4	16.8	4.9	3.1	27.8	16.8	9.5
220	LSLV0008G100-2	0.8	5.0	49.8	16.8	28.4	6.0	59.8	16.8	37.0
220	LSLV0015G100-2	1.5	8.0	78.1	17.4	52.2	9.6	93.7	17.4	65.6
220	LSLV0022G100-2	2.2	11.0	110.2	17.4	79.9	12.0	120.2	17.4	88.5
220	LSLV0040G100-2	4.0	17.0	167.2	17.7	128.6	18.0	177.1	17.7	137.0
220	LSLV0055G100-2	5.5	24.0	228.6	18.7	180.5	30.0	285.8	18.7	229.6
220	LSLV0075G100-2	7.5	32.0	308.9	18.7	249.6	40.0	386.2	18.7	316.0
220	LSLV0110G100-2	11	47.0	338.2	23.8	270.3	56.0	402.9	23.8	326.0
220	LSLV0150G100-2	15	60.0	399.9	38.2	311.1	70.0	466.6	38.2	368.4
220	LSLV0185G100-2	18.5	75.0	508.4	38.0	404.6	82.0	555.9	38.0	445.4
220	LSLV0220G100-2	22	88.0	621.5	38.0	501.8	X	621.5	38.0	501.8
440	LSLV0004G100-4	0.4	1.3	26.0	17.4	7.4	2.0	40.0	17.4	19.5
440	LSLV0008G100-4	0.8	2.5	44.1	17.4	23.0	3.1	54.7	17.4	32.1
440	LSLV0015G100-4	1.5	4.0	63.5	17.7	39.3	5.1	80.9	17.7	54.3
440	LSLV0022G100-4	2.2	5.5	82.8	17.7	56.0	6.9	103.9	17.7	74.1
440	LSLV0040G100-4	4.0	9.0	131.8	18.7	97.2	10.0	146.4	18.7	109.8
440	LSLV0055G100-4	5.5	12.0	160.9	19.7	121.4	16.0	214.5	19.7	167.5
440	LSLV0075G100-4	7.5	16.0	217.4	19.7	170.0	23.0	312.6	19.7	251.8
440	LSLV0110G100-4	11	24.0	224.0	23.8	172.2	31.0	289.3	23.8	228.4
440	LSLV0150G100-4	15	31.0	321.8	23.8	256.3	38.0	394.4	23.8	318.7
440	LSLV0185G100-4	18.5	39.0	357.5	38.2	274.6	45.0	412.5	38.2	321.9
440	LSLV0220G100-4	22	45.0	388.7	38.2	301.5	61.0	526.9	38.2	420.3

Heat loss G100C Series

Vol.	Model Number	Rated Power (kW)	HD				ND			
			Rated Output Current(A)	Total Losses(W)	Internal Losses(W)	Heat Losses (Kcal)	Rated Output Current(A)	Total Losses(W)	Internal Losses(W)	Heat Losses (Kcal)
220	LSLV0004G100C-2	0.4	2.5	22.7	16.4	5.4	3.1	28.1	16.4	10.0
220	LSLV0008G100C-2	0.8	5.0	43.2	16.4	23.0	6.0	51.8	16.4	30.4
220	LSLV0015G100C-2	1.5	220.0	82.8	16.4	57.1	9.6	99.3	16.4	71.3
220	LSLV0022G100C-2	2.2	220.0	107.5	17.4	77.5	12.0	117.2	17.4	85.9
220	LSLV0040G100C-2	4	220.0	162.9	17.7	124.9	18.0	172.5	17.7	133.1
440	LSLV0004G100C-4	0.4	440.0	26.9	16.4	9.0	2.0	41.4	16.4	21.5
440	LSLV0008G100C-4	0.75	440.0	36.6	16.4	17.4	3.1	45.4	16.4	25.0
440	LSLV0015G100C-4	1.5	440.0	75.7	16.4	51.0	5.1	96.5	16.4	68.8
440	LSLV0022G100C-4	2.2	440.0	81.8	17.7	55.1	6.9	102.6	17.7	73.0
440	LSLV0040G100C-4	4	440.0	130.1	18.7	95.8	10.0	144.5	18.7	108.2

Technical Report

Heat loss M100 Series

Vol.	Model Number	Rated Power (kW)	HD			
			Rated Output Current(A)	Total Losses(W)	Internal Losses(W)	Heat Losses (Kcal)
220	LSLV0001M100-1	0.1	0.8	8.5	5.4	2.7
220	LSLV0002M100-1	0.2	1.4	11.8	8.1	3.2
220	LSLV0004M100-1	0.4	2.4	19.7	13.0	5.8
220	LSLV0008M100-1	0.8	4.2	34.1	13.0	18.2
220	LSLV0015M100-1	1.5	7.5	64.0	14.4	42.7
220	LSLV0022M100-1	2.2	10.0	86.1	14.4	61.7

THD data of LS ELECTRIC AC Drive series.

Technical Report

iS7 Series 200V Class

Model Number : SV□□□□iS7-2

Network and Transformer data	0.75 kW	1.5 kW	2.2 kW	3.7 kW	5.5 kW	7.5 kW	11 kW	15 kW	18.5 kW	22 kW	30 kW	37 kW	45 kW	55 kW	75 kW
Primary voltage [V]	6600														
Secondary voltage [V]	220														
Transformer Sn [kVA]	300														

iS7 230V, 60Hz, HD

Drive Specification	0.75 kW	1.5 kW	2.2 kW	3.7 kW	5.5 kW	7.5 kW	11 kW	15 kW	18.5 kW	22 kW	30 kW	37 kW	45 kW	55 kW	75 kW
Output Voltage[V]	220														
Output Current [A]	5	8	12	16	24	32	46	60	74	88	116	146	180	220	288
Input Current [A]	4.3	6.9	11.2	14.9	22.1	28.6	44.3	55.9	70.8	85.3	121	154	191	233	305
Carrier Frequency[kHz]	5														
Built-in EMC	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	NO	NO	NO	NO	NO
Built-in Reactor	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	NO	NO	NO	NO	NO

THD Result(Input)

Result	0.75 kW	1.5 kW	2.2 kW	3.7 kW	5.5 kW	7.5 kW	11 kW	15 kW	18.5 kW	22 kW	30 kW	37 kW	45 kW	55 kW	75 kW
THD Current [%]	36.57	35.15	36.04	36.04	30.46	37.60	34.43	33.43	32.85	33.24	51.23	48.82	45.41	44.61	43.23

iS7 230V, 60Hz, ND

Drive Specification	0.75 kW	1.5 kW	2.2 kW	3.7 kW	5.5 kW	7.5 kW	11 kW	15 kW	18.5 kW	22 kW	30 kW	37 kW	45 kW	55 kW	75 kW
Output Voltage[V]	220														
Output Current [A]	8	12	16	24	32	46	60	74	88	124	146	180	220	288	345
Input Current [A]	6.8	10.6	14.9	21.3	28.6	41.2	54.7	69.7	82.9	116.1	152	190	231	302	362
Carrier Frequency[kHz]	5														
Built-in EMC	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	NO	NO	NO	NO	NO
Built-in Reactor	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	NO	NO	NO	NO	NO

THD Result(Input)

Result	0.75 kW	1.5 kW	2.2 kW	3.7 kW	5.5 kW	7.5 kW	11 kW	15 kW	18.5 kW	22 kW	30 kW	37 kW	45 kW	55 kW	75 kW
THD Current [%]	35.56	34.21	33.66	33.28	33.67	33.98	33.37	33.29	32.18	29.80	46.04	44.07	42.10	41.20	40.34

Technical Report

iS7 Series 400V Class

Model Number : SV□□□□iS7-4

Network and Transformer data	0.75 kW	1.5 kW	2.2 kW	3.7 kW	5.5 kW	7.5 kW	11 kW	15 kW	18.5 kW	22 kW	30 kW	37 kW
Primary voltage [V]	6600											
Secondary voltage [V]	440											
Transformer Sn [kVA]	300											

Network and Transformer data	45 kW	55 kW	75 kW	90 kW	110 kW	132 kW	160 kW	185 kW	220 kW	280 kW	315 kW	375 kW
Primary voltage [V]	6600											
Secondary voltage [V]	440											
Transformer Sn [kVA]	300											

iS7 440V, 60Hz, HD

Drive Specification	0.75 kW	1.5 kW	2.2 kW	3.7 kW	5.5 kW	7.5 kW	11 kW	15 kW	18.5 kW	22 kW	30 kW	37 kW
Output Voltage[V]	440											
Output Current [A]	2.5	4	6	8	12	16	24	30	39	45	61	75
Input Current [A]	2.2	3.6	5.5	7.5	11	14.4	22	26.6	35.6	41.6	55.5	67.9
Carrier Frequency[kHz]	5											
Built-in EMC	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	NO	NO
Built-in Reactor	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES

Drive Specification	45 kW	55 kW	75 kW	90 kW	110 kW	132 kW	160 kW	185 kW	220 kW	280 kW	315 kW	375 kW
Output Voltage[V]	440											
Output Current [A]	91	110	152	183	223	264	325	370	432	547	613	731
Input Current [A]	82.4	102.6	143.4	174.7	213.5	255.6	316.3	404	466	605	674	798
Carrier Frequency[kHz]	5	5	5	3	3	3	3	3	2	2	2	2
Built-in EMC	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Built-in Reactor	YES	YES	YES	YES	YES	YES	YES	YES	YES	NO	NO	NO

THD Result(Input)

Result	0.75 kW	1.5 kW	2.2 kW	3.7 kW	5.5 kW	7.5 kW	11 kW	15 kW	18.5 kW	22 kW	30 kW	37 kW
THD Current [%]	37.85	36.73	36.13	39.79	37.80	38.12	36.59	36.13	35.61	33.17	31.09	33.75

Result	45 kW	55 kW	75 kW	90 kW	110 kW	132 kW	160 kW	185 kW	220 kW	280 kW	315 kW	375 kW
THD Current [%]	33.20	32.61	31.36	30.75	29.55	29.02	27.99	27.99	29.19	33.29	31.04	31.75

Technical Report

iS7 Series 400V Class

Model Number : SV□□□□iS7-4

Network and Transformer data	0.75 kW	1.5 kW	2.2 kW	3.7 kW	5.5 kW	7.5 kW	11 kW	15 kW	18.5 kW	22 kW	30 kW	37 kW
Primary voltage [V]	6600											
Secondary voltage [V]	440											
Transformer Sn [kVA]	300											

Network and Transformer data	45 kW	55 kW	75 kW	90 kW	110 kW	132 kW	160 kW	185 kW	220 kW	280 kW	315 kW	375 kW
Primary voltage [V]	6600											
Secondary voltage [V]	440											
Transformer Sn [kVA]	300											

iS7 440V, 60Hz, ND

Drive Specification	0.75 kW	1.5 kW	2.2 kW	3.7 kW	5.5 kW	7.5 kW	11 kW	15 kW	18.5 kW	22 kW	30 kW	37 kW
Output Voltage[V]	440											
Output Current [A]	4	6	8	12	16	24	30	39	45	61	75	91
Input Current [A]	3.7	5.7	7.7	11.1	14.7	21.9	26.4	35.5	41.1	55.7	67.5	81.7
Carrier Frequency[kHz]	5											
Built-in EMC	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	NO	NO
Built-in Reactor	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES

Drive Specification	45 kW	55 kW	75 kW	90 kW	110 kW	132 kW	160 kW	185 kW	220 kW	280 kW	315 kW	375 kW
Output Voltage[V]	440											
Output Current [A]	110	152	183	223	264	325	370	432	547	613	731	877
Input Current [A]	101.8	143.6	173.4	212.9	254.2	315.3	359.3	463	590	673	796	948
Carrier Frequency[kHz]	5	5	5	3	3	3	3	3	2	2	2	2
Built-in EMC	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Built-in Reactor	YES	YES	YES	YES	YES	YES	YES	YES	YES	NO	NO	NO

THD Result(Input)

Result	0.75 kW	1.5 kW	2.2 kW	3.7 kW	5.5 kW	7.5 kW	11 kW	15 kW	18.5 kW	22 kW	30 kW	37 kW
THD Current [%]	36.29	37.81	35.33	36.69	35.99	35.13	38.12	39.57	32.19	31.82	30.10	30.30

Result	45 kW	55 kW	75 kW	90 kW	110 kW	132 kW	160 kW	185 kW	220 kW	280 kW	315 kW	375 kW
THD Current [%]	32.80	32.33	30.18	30.01	29.40	28.30	28.40	26.59	27.83	31.86	30.92	30.30

Technical Report

iS7 Series 200V Class

Model Number : SV□□□□iS7-2

Network and Transformer data	0.75 kW	1.5 kW	2.2 kW	3.7 kW	5.5 kW	7.5 kW	11 kW	15 kW	18.5 kW	22 kW	30 kW	37 kW	45 kW	55 kW	75 kW
Primary voltage [V]	6600														
Secondary voltage [V]	220														
Transformer Sn [kVA]	300														

iS7 230V, 50Hz, HD

Drive Specification	0.75 kW	1.5 kW	2.2 kW	3.7 kW	5.5 kW	7.5 kW	11 kW	15 kW	18.5 kW	22 kW	30 kW	37 kW	45 kW	55 kW	75 kW
Output Voltage[V]	220														
Output Current [A]	5	8	12	16	24	32	46	60	74	88	116	146	180	220	288
Input Current [A]	4.3	6.9	11.2	14.9	22.1	28.6	44.3	55.9	70.8	85.3	121	154	191	233	305
Carrier Frequency[kHz]	5														
Built-in EMC	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	NO	NO	NO	NO	NO
Built-in Reactor	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	NO	NO	NO	NO	NO

THD Result(Input)

Result	0.75 kW	1.5 kW	2.2 kW	3.7 kW	5.5 kW	7.5 kW	11 kW	15 kW	18.5 kW	22 kW	30 kW	37 kW	45 kW	55 kW	75 kW
THD Current [%]	38.52	39.01	39.51	38.22	39.48	39.47	35.67	37.69	36.98	37.26	55.39	52.21	49.04	48.59	47.82

iS7 230V, 50Hz, ND

Drive Specification	0.75 kW	1.5 kW	2.2 kW	3.7 kW	5.5 kW	7.5 kW	11 kW	15 kW	18.5 kW	22 kW	30 kW	37 kW	45 kW	55 kW	75 kW
Output Voltage[V]	220														
Output Current [A]	8	12	16	24	32	46	60	74	88	124	146	180	220	288	345
Input Current [A]	6.8	10.6	14.9	21.3	28.6	41.2	54.7	69.7	82.9	116.1	152	190	231	302	362
Carrier Frequency[kHz]	5														
Built-in EMC	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	NO	NO	NO	NO	NO
Built-in Reactor	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	NO	NO	NO	NO	NO

THD Result(Input)

Result	0.75 kW	1.5 kW	2.2 kW	3.7 kW	5.5 kW	7.5 kW	11 kW	15 kW	18.5 kW	22 kW	30 kW	37 kW	45 kW	55 kW	75 kW
THD Current [%]	36.33	35.18	35.62	36.54	37.31	36.03	34.36	34.74	32.17	32.01	51.07	48.40	45.74	44.78	44.01

Technical Report

iS7 Series 400V Class

Model Number : SV□□□□iS7-4

Network and Transformer data	0.75 kW	1.5 kW	2.2 kW	3.7 kW	5.5 kW	7.5 kW	11 kW	15 kW	18.5 kW	22 kW	30 kW	37 kW
Primary voltage [V]	6600											
Secondary voltage [V]	440											
Transformer Sn [kVA]	300											

Network and Transformer data	45 kW	55 kW	75 kW	90 kW	110 kW	132 kW	160 kW	185 kW	220 kW	280 kW	315 kW	375 kW
Primary voltage [V]	6600											
Secondary voltage [V]	440											
Transformer Sn [kVA]	300											

iS7 440V, 50Hz, HD

Drive Specification	0.75 kW	1.5 kW	2.2 kW	3.7 kW	5.5 kW	7.5 kW	11 kW	15 kW	18.5 kW	22 kW	30 kW	37 kW
Output Voltage[V]	440											
Output Current [A]	2.5	4	6	8	12	16	24	30	39	45	61	75
Input Current [A]	2.2	3.6	5.5	7.5	11	14.4	22	26.6	35.6	41.6	55.5	67.9
Carrier Frequency[kHz]	5											
Built-in EMC	YES	YES	YES	NO	YES	YES	YES	YES	YES	YES	NO	NO
Built-in Reactor	YES	YES	YES	NO	YES	YES	YES	YES	YES	YES	YES	YES

Drive Specification	45 kW	55 kW	75 kW	90 kW	110 kW	132 kW	160 kW	185 kW	220 kW	280 kW	315 kW	375 kW
Output Voltage[V]	440											
Output Current [A]	91	110	152	183	223	264	325	370	432	547	613	731
Input Current [A]	82.4	102.6	143.4	174.7	213.5	255.6	316.3	404	466	605	674	798
Carrier Frequency[kHz]	5	5	5	3	3	3	3	3	2	2	2	2
Built-in EMC	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Built-in Reactor	YES	YES	YES	YES	YES	YES	YES	YES	YES	NO	NO	NO

THD Result(Input)

Result	0.75 kW	1.5 kW	2.2 kW	3.7 kW	5.5 kW	7.5 kW	11 kW	15 kW	18.5 kW	22 kW	30 kW	37 kW
THD Current [%]	38.88	39.14	38.16	77.14	39.11	38.34	37.46	37.21	35.14	35.55	33.78	33.74

Result	45 kW	55 kW	75 kW	90 kW	110 kW	132 kW	160 kW	185 kW	220 kW	280 kW	315 kW	375 kW
THD Current [%]	33.18	33.11	32.29	30.37	30.74	30.01	28.13	27.87	27.13	27.47	28.13	28.73

Technical Report

iS7 Series 400V Class

Model Number : SV□□□□iS7-4

Network and Transformer data	0.75 kW	1.5 kW	2.2 kW	3.7 kW	5.5 kW	7.5 kW	11 kW	15 kW	18.5 kW	22 kW	30 kW	37 kW
Primary voltage [V]	6600											
Secondary voltage [V]	440											
Transformer Sn [kVA]	300											

Network and Transformer data	45 kW	55 kW	75 kW	90 kW	110 kW	132 kW	160 kW	185 kW	220 kW	280 kW	315 kW	375 kW
Primary voltage [V]	6600											
Secondary voltage [V]	440											
Transformer Sn [kVA]	300											

iS7 440V, 50Hz, ND

Drive Specification	0.75 kW	1.5 kW	2.2 kW	3.7 kW	5.5 kW	7.5 kW	11 kW	15 kW	18.5 kW	22 kW	30 kW	37 kW
Output Voltage[V]	440											
Output Current [A]	4	6	8	12	16	24	30	39	45	61	75	91
Input Current [A]	3.7	5.7	7.7	11.1	14.7	21.9	26.4	35.5	41.1	55.7	67.5	81.7
Carrier Frequency[kHz]	5											
Built-in EMC	YES	YES	YES	NO	YES	YES	YES	YES	YES	YES	NO	NO
Built-in Reactor	YES	YES	YES	NO	YES	YES	YES	YES	YES	YES	YES	YES

Drive Specification	45 kW	55 kW	75 kW	90 kW	110 kW	132 kW	160 kW	185 kW	220 kW	280 kW	315 kW	375 kW
Output Voltage[V]	440											
Output Current [A]	110	152	183	223	264	325	370	432	547	613	731	877
Input Current [A]	101.8	143.6	173.4	212.9	254.2	315.3	359.3	463	590	673	796	948
Carrier Frequency[kHz]	5	5	5	3	3	3	3	3	2	2	2	2
Built-in EMC	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Built-in Reactor	YES	YES	YES	YES	YES	YES	YES	YES	YES	NO	NO	NO

THD Result(Input)

Result	0.75 kW	1.5 kW	2.2 kW	3.7 kW	5.5 kW	7.5 kW	11 kW	15 kW	18.5 kW	22 kW	30 kW	37 kW
THD Current [%]	37.12	37.84	38.15	66.13	37.15	38.70	38.74	38.44	33.18	33.21	32.05	32.73

Result	45 kW	55 kW	75 kW	90 kW	110 kW	132 kW	160 kW	185 kW	220 kW	280 kW	315 kW	375 kW
THD Current [%]	32.70	33.18	31.07	30.17	28.40	27.41	28.14	27.18	28.46	30.18	31.18	30.44

S100 Series 200V Class

Model Number : LSLV□□□□S100-2

Network and Transformer data	0.4 (1φ)	0.8 (1φ)	1.5 (1φ)	2.2 (1φ)	0.4 (3φ)	0.8 (3φ)	1.5 (3φ)	2.2 (3φ)	3.7 (3φ)	4.0 (3φ)	5.5 (3φ)	7.5 (3φ)	11 (3φ)	15 (3φ)
Primary voltage [V]	6600													
Secondary voltage [V]	220													
Transformer Sn [kVA]	300													

S100 230V, 60Hz, HD

Drive Specification	0.4kW (1φ)	0.8kW (1φ)	1.5kW (1φ)	2.2kW (1φ)	0.4kW (3φ)	0.8kW (3φ)	1.5kW (3φ)	2.2kW (3φ)	3.7kW (3φ)	4.0kW (3φ)	5.5kW (3φ)	7.5kW (3φ)	11kW (3φ)	15kW (3φ)
Output Voltage[V]	220													
Output Current [A]	2.5	5	8	11	2.5	5	8	11	16	17	24	32	46	60
Input Current [A]	4.4	9.3	15.6	21.7	2.2	4.9	8.4	11.8	17.5	18.5	25.8	34.9	50.8	66.7
Carrier Frequency[kHz]	3													
Built-in EMC	YES	YES	YES	YES	NO	NO	NO	NO	NO	NO	YES	YES	NO	NO
Built-in Reactor	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

THD Result(Input)

Result	0.4kW (1φ)	0.8kW (1φ)	1.5kW (1φ)	2.2kW (1φ)	0.4kW (3φ)	0.8kW (3φ)	1.5kW (3φ)	2.2kW (3φ)	3.7kW (3φ)	4.0kW (3φ)	5.5kW (3φ)	7.5kW (3φ)	11kW (3φ)	15kW (3φ)
THD Current [%]	79.90	77.90	75.90	76.54	76.22	75.90	75.46	75.03	73.20	71.38	61.72	63.09	44.35	40.84

S100 230V, 60Hz, ND

Drive Specification	0.4kW (1φ)	0.8kW (1φ)	1.5kW (1φ)	2.2kW (1φ)	0.4kW (3φ)	0.8kW (3φ)	1.5kW (3φ)	2.2kW (3φ)	3.7kW (3φ)	4.0kW (3φ)	5.5kW (3φ)	7.5kW (3φ)	11kW (3φ)	15kW (3φ)
Output Voltage[V]	220													
Output Current [A]	3.1	6	9.6	12	3.1	6	9.6	12	18	18	30	40	56	69
Input Current [A]	5.8	11.7	19.7	24	3	6.3	10.8	13.1	19.4	19.4	32.7	44.2	62.3	77.2
Carrier Frequency[kHz]	2													
Built-in EMC	YES	YES	YES	YES	NO	NO	NO	NO	NO	NO	YES	YES	NO	NO
Built-in Reactor	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

THD Result(Input)

Result	0.4kW (1φ)	0.8kW (1φ)	1.5kW (1φ)	2.2kW (1φ)	0.4kW (3φ)	0.8kW (3φ)	1.5kW (3φ)	2.2kW (3φ)	3.7kW (3φ)	4.0kW (3φ)	5.5kW (3φ)	7.5kW (3φ)	11kW (3φ)	15kW (3φ)
THD Current [%]	78.73	76.30	73.88	76.04	74.96	73.88	74.02	74.16	72.52	70.89	61.66	60.43	42.54	38.79

Technical Report

S100 Series 400V Class

Model Number : LSLV□□□□S100-4

Network and Transformer data	0.4 kW	0.8 kW	1.5 kW	2.2 kW	3.7 kW	4.0 kW	5.5 kW	7.5 kW	11 kW	15 kW	18.5 kW	22 kW	30 kW	37 kW	45 kW	55 kW	75 kW
Primary voltage [V]	6600																
Secondary voltage [V]	440																
Transformer Sn [kVA]	300																

S100 440V, 60Hz, HD

Drive Specification	0.4 kW	0.8 kW	1.5 kW	2.2 kW	3.7 kW	4.0 kW	5.5 kW	7.5 kW	11 kW	15 kW	18.5 kW	22 kW	30 kW	37 kW	45 kW	55 kW	75 kW
Output Voltage[V]	440																
Output Current [A]	1.3	2.5	4	5.5	8	9	12	16	24	30	39	45	61	75	91	110	152
Input Current [A]	1.1	2.4	4.2	5.9	8.7	9.8	12.9	17.5	26.5	33.4	43.6	50.7	56	69	85	103	143
Carrier Frequency[kHz]	3																
Built-in EMC	NO	NO	NO	NO	NO	NO	YES	YES	YES	YES	YES	YES	YES	YES	YES	NO	NO
Built-in Reactor	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	YES	YES	YES	YES	YES

THD Result(Input)

Result	0.4 kW	0.8 kW	1.5 kW	2.2 kW	3.7 kW	4.0 kW	5.5 kW	7.5 kW	11 kW	15 kW	18.5 kW	22 kW	30 kW	37 kW	45 kW	55 kW	75 kW
THD Current [%]	78.29	78.12	76.98	75.84	74.14	72.45	67.80	66.60	53.20	51.9	62.10	60.36	36.14	34.74	33.34	32.97	32.61

S100 440V, 60Hz, ND

Drive Specification	0.4 kW	0.8 kW	1.5 kW	2.2 kW	3.7 kW	4.0 kW	5.5 kW	7.5 kW	11 kW	15 kW	18.5 kW	22 kW	30 kW	37 kW	45 kW	55 kW	75 kW
Output Voltage[V]	440																
Output Current [A]	2	3.1	5.1	6.9	10	10	16	23	30	38	44	58	75	91	107	142	169
Input Current [A]	2	3.3	5.5	7.5	10.8	10.8	17.5	25.4	33.4	42.5	49.5	65.7	69	85	100	134	160
Carrier Frequency[kHz]	2																
Built-in EMC	NO	NO	NO	NO	NO	NO	YES	YES	YES	YES	YES	YES	YES	YES	YES	NO	NO
Built-in Reactor	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	YES	YES	YES	YES	YES

THD Result(Input)

Result	0.4 kW	0.8 kW	1.5 kW	2.2 kW	3.7 kW	4.0 kW	5.5 kW	7.5 kW	11 kW	15 kW	18.5 kW	22 kW	30 kW	37 kW	45 kW	55 kW	75 kW
THD Current [%]	77.82	76.00	74.20	72.41	71.54	70.67	64.57	63.19	52.28	50.16	59.10	58.60	33.43	32.93	32.83	32.21	31.59

S100 Series 200V Class

Model Number : LSLV□□□□S100-2

Network and Transformer data	0.4 (1φ)	0.8 (1φ)	1.5 (1φ)	2.2 (1φ)	0.4 (3φ)	0.8 (3φ)	1.5 (3φ)	2.2 (3φ)	3.7 (3φ)	4.0 (3φ)	5.5 (3φ)	7.5 (3φ)	11 (3φ)	15 (3φ)
Primary voltage [V]	6600													
Secondary voltage [V]	220													
Transformer Sn [kVA]	300													

S100 230V, 50Hz, HD

Drive Specification	0.4kW (1φ)	0.8kW (1φ)	1.5kW (1φ)	2.2kW (1φ)	0.4kW (3φ)	0.8kW (3φ)	1.5kW (3φ)	2.2kW (3φ)	3.7kW (3φ)	4.0kW (3φ)	5.5kW (3φ)	7.5kW (3φ)	11kW (3φ)	15kW (3φ)
Output Voltage[V]	220													
Output Current [A]	2.5	5	8	11	2.5	5	8	11	16	17	24	32	46	60
Input Current [A]	4.4	9.3	15.6	21.7	2.2	4.9	8.4	11.8	17.5	18.5	25.8	34.9	50.8	66.7
Carrier Frequency[kHz]	3													
Built-in EMC	YES	YES	YES	YES	NO	NO	NO	NO	NO	NO	YES	YES	NO	NO
Built-in Reactor	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

THD Result(Input)

Result	0.4kW (1φ)	0.8kW (1φ)	1.5kW (1φ)	2.2kW (1φ)	0.4kW (3φ)	0.8kW (3φ)	1.5kW (3φ)	2.2kW (3φ)	3.7kW (3φ)	4.0kW (3φ)	5.5kW (3φ)	7.5kW (3φ)	11kW (3φ)	15kW (3φ)
THD Current [%]	79.57	79.30	79.03	75.98	76.09	76.21	76.44	76.68	75.69	74.71	65.78	64.47	45.05	45.05

S100 230V, 50Hz, ND

Drive Specification	0.4kW (1φ)	0.8kW (1φ)	1.5kW (1φ)	2.2kW (1φ)	0.4kW (3φ)	0.8kW (3φ)	1.5kW (3φ)	2.2kW (3φ)	3.7kW (3φ)	4.0kW (3φ)	5.5kW (3φ)	7.5kW (3φ)	11kW (3φ)	15kW (3φ)
Output Voltage[V]	220													
Output Current [A]	3.1	6	9.6	12	3.1	6	9.6	12	18	18	30	40	56	69
Input Current [A]	5.8	11.7	19.7	24	3	6.3	10.8	13.1	19.4	19.4	32.7	44.2	62.3	77.2
Carrier Frequency[kHz]	3													
Built-in EMC	YES	YES	YES	YES	NO	NO	NO	NO	NO	NO	YES	YES	NO	NO
Built-in Reactor	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

THD Result(Input)

Result	0.4kW (1φ)	0.8kW (1φ)	1.5kW (1φ)	2.2kW (1φ)	0.4kW (3φ)	0.8kW (3φ)	1.5kW (3φ)	2.2kW (3φ)	3.7kW (3φ)	4.0kW (3φ)	5.5kW (3φ)	7.5kW (3φ)	11kW (3φ)	15kW (3φ)
THD Current [%]	79.30	78.09	76.89	74.89	74.34	73.79	74.69	75.60	74.63	73.66	62.15	61.57	44.44	44.44

S100 Series 400V Class

Model Number : LSLV□□□□S100-4

Network and Transformer data	0.4 kW	0.8 kW	1.5 kW	2.2 kW	3.7 kW	4.0 kW	5.5 kW	7.5 kW	11 kW	15 kW	18.5 kW	22 kW	30 kW	37 kW	45 kW	55 kW	75 kW
Primary voltage [V]	6600																
Secondary voltage [V]	440																
Transformer Sn [kVA]	300																

S100 440V, 50Hz, HD

Drive Specification	0.4 kW	0.8 kW	1.5 kW	2.2 kW	3.7 kW	4.0 kW	5.5 kW	7.5 kW	11 kW	15 kW	18.5 kW	22 kW	30 kW	37 kW	45 kW	55 kW	75 kW
Output Voltage[V]	440																
Output Current [A]	1.3	2.5	4	5.5	8	9	12	16	24	30	39	45	61	75	91	110	152
Input Current [A]	1.1	2.4	4.2	5.9	8.7	9.8	12.9	17.5	26.5	33.4	43.6	50.7	56	69	85	103	143
Carrier Frequency[kHz]	3																
Built-in EMC	NO	NO	NO	NO	NO	NO	YES	YES	YES	YES	YES	YES	YES	YES	YES	NO	NO
Built-in Reactor	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	YES	YES	YES	YES	YES

THD Result(Input)

Result	0.4 kW	0.8 kW	1.5 kW	2.2 kW	3.7 kW	4.0 kW	5.5 kW	7.5 kW	11 kW	15 kW	18.5 kW	22 kW	30 kW	37 kW	45 kW	55 kW	75 kW
THD Current [%]	79.15	78.27	77.61	76.95	76.10	75.23	69.15	65.62	50.86	49.91	62.13	61.72	38.18	37.57	36.97	36.39	35.80

S100 440V, 50Hz, ND

Drive Specification	0.4 kW	0.8 kW	1.5 kW	2.2 kW	3.7 kW	4.0 kW	5.5 kW	7.5 kW	11 kW	15 kW	18.5 kW	22 kW	30 kW	37 kW	45 kW	55 kW	75 kW
Output Voltage[V]	440																
Output Current [A]	2	3.1	5.1	6.9	10	10	16	23	30	38	44	58	75	91	107	142	169
Input Current [A]	2	3.3	5.5	7.5	10.8	10.8	17.5	25.4	33.4	42.5	49.5	65.7	69	85	100	134	160
Carrier Frequency[kHz]	2																
Built-in EMC	NO	NO	NO	NO	NO	NO	YES	YES	YES	YES	YES	YES	YES	YES	YES	NO	NO
Built-in Reactor	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	YES	YES	YES	YES	YES

THD Result(Input)

Result	0.4 kW	0.8 kW	1.5 kW	2.2 kW	3.7 kW	4.0 kW	5.5 kW	7.5 kW	11 kW	15 kW	18.5 kW	22 kW	30 kW	37 kW	45 kW	55 kW	75 kW
THD Current [%]	78.18	75.34	74.77	74.18	73.85	73.53	64.57	62.48	55.15	52.45	63.79	60.25	36.29	36.31	36.34	35.48	34.62

H100 Series 200V Class

Model Number : LSLV□□□□H100-2

Network and Transformer data	4kW	5.5kW	7.5kW	11kW	15kW	18.5kW
Primary voltage [V]	6600					
Secondary voltage [V]	220					
Transformer Sn [kVA]	300					

H100 230V, 60Hz, ND

Drive Specification	5.5kW	7.5kW	11kW	15kW	18.5kW
Output Voltage[V]	220				
Output Current [A]	22	30	42	56	69
Input Current [A]	23.7	32.7	46.4	62.3	77.2
Carrier Frequency[kHz]	3				
Built-in EMC	NO	NO	NO	NO	NO
Built-in Reactor	NO	NO	NO	NO	NO

THD Result(Input)

Result	5.5kW	7.5kW	11kW	15kW	18.5kW
THD Current [%]	65.88	64.69	45.09	41.83	38.18

H100 Series 400V Class

Model Number : LSLV□□□□H100-4

Network and Transformer data	5.5kW	7.5kW	11kW	15kW	18.5kW	22kW	30kW	37kW	45kW	55kW	75kW	90kW
Primary voltage [V]	6600											
Secondary voltage [V]	440											
Transformer Sn [kVA]	300											

H100 440V, 60Hz, ND

Drive Specification	5.5kW	7.5kW	11kW	15kW	18.5kW	22kW	30kW	37kW	45kW	55kW	75kW	90kW
Output Voltage[V]	440											
Output Current [A]	12	16	24	30	38	45	61	75	91	107	142	169
Input Current [A]	12.2	17.5	26.5	33.4	42.5	50.7	69.1	69.3	84.6	100.1	133.6	160
Carrier Frequency [kHz]	3											
Built-in EMC	YES	YES	YES	NO	NO	YES	YES	YES	YES	YES	NO	NO
Built-in Reactor	NO	NO	NO	NO	NO	NO	NO	YES	YES	YES	YES	YES

THD Result(Input)

Result	5.5kW	7.5kW	11kW	15kW	18.5kW	22kW	30kW	37kW	45kW	55kW	75kW	90kW
THD Current [%]	68.88	64.32	63.15	61.51	50.87	61.12	60.51	32.25	31.28	32.44	32.43	31.41

H100 Series 400V Class

Model Number : LSLV□□□□H100-4

Network and Transformer data	110kW	132kW	160kW	185kW	220kW	250kW	315kW	355kW	400kW	500kW
Primary voltage [V]	6600									
Secondary voltage [V]	440									
Transformer Sn [kVA]	300									

H100 440V, 60Hz, ND

Drive Specification	110kW	132kW	160kW	185kW	220kW	250kW	315kW	355kW	400kW	500kW
Output Voltage[V]	440									
Output Current [A]	223	264	325	370	432	481	613	683	770	962
Input Current [A]	215.1	254.6	315.3	358.9	419.1	469.3	598.1	666.4	751.3	938.6
Carrier Frequency [kHz]	2								1.5	
Built-in EMC	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
Built-in Reactor	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES

THD Result(Input)

Result	110kW	132kW	160kW	185kW	220kW	250kW	315kW	355kW	400kW	500kW
THD Current [%]	28.99	28.93	26.39	25.93	26.31	26.08	27.35	26.92	23.21	23.1

H100 Series 600V Class

Model Number : LSLV□□□□H100-5

Network and Transformer data	5.5kW	7.5kW	11kW	15kW	18.5kW	22kW	30kW	37kW	45kW	55kW	75kW	90kW
Primary voltage [V]	6600											
Secondary voltage [V]	575										550	
Transformer Sn [kVA]	2000											

H100 440V, 60Hz, HD

Drive Specification	5.5kW	7.5kW	11kW	15kW	18.5kW	22kW	30kW	37kW	45kW	55kW	75kW	90kW
Output Voltage[V]	575										550	
Output Current [A]	6.6	9.0	12	17	23	27	34	43	55	64	80	104
Input Current [A]	6.0	8.1	11	15.7	21.5	24.7	32.2	41.6	52	60	80	104
Carrier Frequency [kHz]	2.3											
Built-in EMC	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Built-in Reactor	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES

THD Result(Input)

Result	5.5kW	7.5kW	11kW	15kW	18.5kW	22kW	30kW	37kW	45kW	55kW	75kW	90kW
THD Current [%]	32.83	30.36	34.4	38.5	31.99	32.5	32.94	30.79	27.92	28.26	39.93	36.41

H100 Series 200V Class

Model Number : LSLV□□□□H100-2

Network and Transformer data	5.5kW	7.5kW	11kW	15kW	18.5kW
Primary voltage [V]	6600				
Secondary voltage [V]	220				
Transformer Sn [kVA]	300				

H100 230V, 50Hz, ND

Drive Specification	5.5kW	7.5kW	11kW	15kW	18.5kW
Output Voltage[V]	220				
Output Current [A]	22	30	42	56	69
Input Current [A]	23.7	32.7	46.4	62.3	77.2
Carrier Frequency[kHz]	3				
Built-in EMC	NO	NO	NO	NO	NO
Built-in Reactor	NO	NO	NO	NO	NO

THD Result(Input)

Result	5.5kW	7.5kW	11kW	15kW	18.5kW
THD Current [%]	68.48	69.15	48.85	45.79	43.36

H100 Series 400V Class

Model Number : LSLV□□□□H100-4

Network and Transformer data	5.5kW	7.5kW	11kW	15kW	18.5kW	22kW	30kW	37kW	45kW	55kW	75kW	90kW
Primary voltage [V]	6600											
Secondary voltage [V]	440											
Transformer Sn [kVA]	300											

H100 440V, 50Hz, ND

Drive Specification	5.5kW	7.5kW	11kW	15kW	18.5kW	22kW	30kW	37kW	45kW	55kW	75kW	90kW
Output Voltage[V]	440											
Output Current [A]	12	16	24	30	38	45	61	75	91	107	142	169
Input Current [A]	12.2	17.5	26.5	33.4	42.5	50.7	69.1	69.3	84.6	100.1	133.6	160
Carrier Frequency [kHz]	3											
Built-in EMC	YES	YES	YES	NO	NO	YES	YES	YES	YES	YES	NO	NO
Built-in Reactor	NO	NO	NO	NO	NO	NO	YES	YES	YES	YES	YES	YES

THD Result(Input)

Result	5.5kW	7.5kW	11kW	15kW	18.5kW	22kW	30kW	37kW	45kW	55kW	75kW	90kW
THD Current [%]	69.78	67.18	63.22	63.86	51.40	62.47	37.15	36.94	33.18	34.82	35.52	34.48

G100 Series 200V Class

Model Number : LSLV□□□□G100-2

Network and Transformer data	0.4kW	0.75kW	1.5kW	2.2kW	4.0kW	5.5kW	7.5kW	11kW	15kW	18.5kW	22kW
Primary voltage [V]	6600										
Secondary voltage [V]	220										
Transformer Sn [kVA]	300										

G100 220V, 60Hz, HD

Drive Specification	0.4kW	0.75kW	1.5kW	2.2kW	4.0kW	5.5kW	7.5kW	11kW	15kW	18.5kW	22kW
Output Voltage[V]	220										
Output Current [A]	2.5	5.0	8.0	11.0	17.0	24.0	32.0	47	60	75	88
Input Current [A]	2.2	4.9	8.4	11.8	18.5	25.8	34.9	53.2	68.4	85.5	101.6
Carrier Frequency[kHz]	3										
Built-in EMC	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Built-in Reactor	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

THD Result(Input)

Result	0.4kW	0.75kW	1.5kW	2.2kW	4.0kW	5.5kW	7.5kW	11kW	15kW	18.5kW	22kW
THD Current [%]	72.52	69.18	66.77	66.98	64.57	60.7	61.8	60.6	57.24	54	48.82

G100 220V, 60Hz, ND

Drive Specification	0.4kW	0.75kW	1.5kW	2.2kW	4.0kW	5.5kW	7.5kW	11kW	15kW	18.5kW	22kW
Output Voltage[V]	220										
Output Current [A]	3.1	6.0	9.6	12.0	18.0	30.0	40.0	56	70	82	-
Input Current [A]	3.0	6.3	10.8	13.1	19.4	32.7	44.2	63.8	79.8	94.6	-
Carrier Frequency[kHz]	2										
Built-in EMC	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	-
Built-in Reactor	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	-

THD Result(Input)

Result	0.4kW	0.75kW	1.5kW	2.2kW	4.0kW	5.5kW	7.5kW	11kW	15kW	18.5kW	22kW
THD Current [%]	66.26	57.78	57.55	61.14	55.7	50.25	42.78	57.61	54.85	52.36	-

G100 Series 400V Class

Model Number : LSLV□□□□G100-4

Network and Transformer data	0.4kW	0.75kW	1.5kW	2.2kW	4.0kW	5.5kW	7.5kW	11kW	15kW	18.5kW	22kW
Primary voltage [V]	6600										
Secondary voltage [V]	440										
Transformer Sn [kVA]	300										

G100 440V, 60Hz, HD

Drive Specification	0.4kW	0.75kW	1.5kW	2.2kW	4.0kW	5.5kW	7.5kW	11kW	15kW	18.5kW	22kW
Output Voltage[V]	440										
Output Current [A]	1.3	2.5	4.0	5.5	9.0	12.0	16.0	24	31	39	45
Input Current [A]	1.1	2.4	4.2	5.9	9.8	12.9	17.5	27.2	35.3	44.5	51.9
Carrier Frequency[kHz]	3										
Built-in EMC	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Built-in Reactor	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

THD Result(Input)

Result	0.4kW	0.75kW	1.5kW	2.2kW	4.0kW	5.5kW	7.5kW	11kW	15kW	18.5kW	22kW
THD Current [%]	81.1	78.87	80.29	77.07	78.87	80.2	79.43	61.9	60.30	61.05	59.55

G100 440V, 60Hz, ND

Drive Specification	0.4kW	0.75kW	1.5kW	2.2kW	4.0kW	5.5kW	7.5kW	11kW	15kW	18.5kW	22kW
Output Voltage[V]	440										
Output Current [A]	2.0	3.1	5.1	6.9	10.0	16.0	23.0	31	38	45	61
Input Current [A]	2.0	3.3	5.5	7.5	10.8	17.5	25.4	35.3	43.3	51.9	70.8
Carrier Frequency[kHz]	2										
Built-in EMC	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Built-in Reactor	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

THD Result(Input)

Result	0.4kW	0.75kW	1.5kW	2.2kW	4.0kW	5.5kW	7.5kW	11kW	15kW	18.5kW	22kW
THD Current [%]	62.64	59.57	58.99	60.94	59.53	50.43	43.59	60.77	59.31	60.76	56.87

Technical Report

G100 Series 200V Class

Model Number : LSLV□□□□G100-2

Network and Transformer data	0.4kW	0.75kW	1.5kW	2.2kW	4.0kW	5.5kW	7.5kW	11kW	15kW	18.5kW	22kW
Primary voltage [V]	6600										
Secondary voltage [V]	220										
Transformer Sn [kVA]	300										

G100 220V, 50Hz, HD

Drive Specification	0.4kW	0.75kW	1.5kW	2.2kW	4.0kW	5.5kW	7.5kW	11kW	15kW	18.5kW	22kW
Output Voltage[V]	220										
Output Current [A]	2.5	5.0	8.0	11.0	17.0	24.0	32.0	47	60	75	88
Input Current [A]	2.2	4.9	8.4	11.8	18.5	25.8	34.9	53.2	68.4	85.5	101.6
Carrier Frequency[kHz]	3										
Built-in EMC	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Built-in Reactor	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

THD Result(Input)

Result	0.4kW	0.75kW	1.5kW	2.2kW	4.0kW	5.5kW	7.5kW	11kW	15kW	18.5kW	22kW
THD Current [%]	74.59	69.44	70.26	69.64	65.54	62.2	63.1	63.84	59.86	58.16	51.79

G100 220V, 50Hz, ND

Drive Specification	0.4kW	0.75kW	1.5kW	2.2kW	4.0kW	5.5kW	7.5kW	11kW	15kW	18.5kW	22kW
Output Voltage[V]	220										
Output Current [A]	3.1	6.0	9.6	12.0	18.0	30.0	40.0	56	70	82	-
Input Current [A]	3.0	6.3	10.8	13.1	19.4	32.7	44.2	63.8	79.8	94.6	-
Carrier Frequency[kHz]	2										
Built-in EMC	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	-
Built-in Reactor	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	-

THD Result(Input)

Result	0.4kW	0.75kW	1.5kW	2.2kW	4.0kW	5.5kW	7.5kW	11kW	15kW	18.5kW	22kW
THD Current [%]	69.73	62.26	59.77	62.45	57.22	51.99	43.8	61.35	57.87	57.32	-

Technical Report

G100 Series 400V Class

Model Number : LSLV□□□□G100-4

Network and Transformer data	0.4kW	0.75kW	1.5kW	2.2kW	4.0kW	5.5kW	7.5kW	11kW	15kW	18.5kW	22kW
Primary voltage [V]	6600										
Secondary voltage [V]	440										
Transformer Sn [kVA]	300										

G100 440V, 50Hz, HD

Drive Specification	0.4kW	0.75kW	1.5kW	2.2kW	4.0kW	5.5kW	7.5kW	11kW	15kW	18.5kW	22kW
Output Voltage[V]	440										
Output Current [A]	1.3	2.5	4.0	5.5	9.0	12.0	16.0	24	31	39	45
Input Current [A]	1.1	2.4	4.2	5.9	9.8	12.9	17.5	27.2	35.3	44.5	51.9
Carrier Frequency[kHz]	3										
Built-in EMC	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Built-in Reactor	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

THD Result(Input)

Result	0.4kW	0.75kW	1.5kW	2.2kW	4.0kW	5.5kW	7.5kW	11kW	15kW	18.5kW	22kW
THD Current [%]	80.41	80.61	80.5	79.92	80.36	79.8	80.45	62.75	61.58	62.71	62.25

G100 440V, 50Hz, ND

Drive Specification	0.4kW	0.75kW	1.5kW	2.2kW	4.0kW	5.5kW	7.5kW	11kW	15kW	18.5kW	22kW
Output Voltage[V]	440										
Output Current [A]	2.0	3.1	5.1	6.9	10.0	16.0	23.0	31	38	45	61
Input Current [A]	2.0	3.3	5.5	7.5	10.8	17.5	25.4	35.3	43.3	51.9	70.8
Carrier Frequency[kHz]	2										
Built-in EMC	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Built-in Reactor	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

THD Result(Input)

Result	0.4kW	0.75kW	1.5kW	2.2kW	4.0kW	5.5kW	7.5kW	11kW	15kW	18.5kW	22kW
THD Current [%]	67.53	64.24	62.32	61.7	59.9	52.15	44.16	61.1	61.3	62.7	56.75

M100 Series 200V Class

Model Number : LSLV□□□M100-1

Network and Transformer data	0.1kW	0.2kW	0.4kW	0.8kW	1.5kW	2.2kW
Primary voltage [V]	6600					
Secondary voltage [V]	220					
Transformer Sn [kVA]	300					

M100 220V, 60Hz, HD

Drive Specification	0.1kW	0.2kW	0.4kW	0.8kW	1.5kW	2.2kW
Output Voltage[V]	220					
Output Current [A]	0.8	1.4	2.4	4.2	7.5	10.0
Input Current [A]	1.0	1.8	3.7	7.1	13.6	18.7
Carrier Frequency[kHz]	3					
Built-in EMC	YES	YES	YES	YES	YES	YES
Built-in Reactor	NO	NO	NO	NO	NO	NO

THD Result(Input)

Result	0.1kW	0.2kW	0.4kW	0.8kW	1.5kW	2.2kW
THD Current [%]	81.14	79.94	80.40	78.17	76.50	74.12

M100 220V, 50Hz, HD

Drive Specification	0.1kW	0.2kW	0.4kW	0.8kW	1.5kW	2.2kW
Output Voltage[V]	220					
Output Current [A]	0.8	1.4	2.4	4.2	7.5	10.0
Input Current [A]	1.0	1.8	3.7	7.1	13.6	18.7
Carrier Frequency[kHz]	3					
Built-in EMC	YES	YES	YES	YES	YES	YES
Built-in Reactor	NO	NO	NO	NO	NO	NO

THD Result(Input)

Result	0.1kW	0.2kW	0.4kW	0.8kW	1.5kW	2.2kW
THD Current [%]	80.88	79.57	79.23	78.50	76.06	75.00