

Power losses																					
0; 25	f; l	%	8.3	3.3	1.5	1.1	0.9	0.7	0.7	1.5	1.1	0.9	0.7	0.7	0.4	0.3	0.3	0.4	4.2	1.8	1.2
0; 50	f; l	%	8.3	3.4	1.7	1.3	1.0	0.8	0.8	1.7	1.3	1.0	0.8	0.8	0.5	0.4	0.4	0.5	4.2	1.9	1.3
0; 100	f; l	%	8.7	3.6	2.0	1.6	1.3	1.1	1.2	2.0	1.6	1.3	1.1	1.2	0.8	0.7	0.7	0.9	4.4	2.1	1.5
50; 25	f; l	%	8.5	3.5	1.6	1.2	1.0	0.8	0.8	1.6	1.2	0.9	0.8	0.8	0.5	0.4	0.4	0.5	4.3	1.8	1.3
50; 50	f; l	%	8.7	3.6	1.9	1.6	1.3	1.1	1.3	1.9	1.5	1.2	1.1	1.1	0.7	0.6	0.6	0.8	4.3	2.0	1.4
50; 100	f; l	%	9.6	4.5	2.9	2.5	2.1	2.1	2.5	2.6	2.2	1.8	1.7	2.1	1.5	1.4	1.5	2.1	4.7	2.4	1.9
90; 50	f; l	%	9.3	4.2	2.5	2.2	1.8	1.7	2.1	2.2	1.9	1.5	1.4	1.7	1.1	1.0	1.1	1.5	4.5	2.2	1.6
90; 100	f; l	%	3.8	2.7	2.9	3.6	2.6	2.9	3.6	2.4	3.0	2.4	2.6	3.2	2.9	2.6	2.4	3.3	2.7	2.3	2.4
Standby losses		%	2.00	1.02	0.58	0.44	0.30	0.23	0.17	0.58	0.44	0.30	0.23	0.17	0.10	0.07	0.05	0.05	1.02	0.58	0.44
Efficiency level			IE2	IE2	IE2	IE2	IE2	IE2	IE2	IE2	IE2	IE2	IE2	IE2	IE2	IE2	IE2	IE2	IE2	IE2	IE2
Manufacturer			Lenze Americas • 630 Douglas Street • Uxbridge, MA 01569 • USA																		
Commercial registration number																					
Product's model identifier			SF203Y	SF205Y	SF210Y	SF215Y	SF220Y	SF230Y	SF250Y	SF210	SF215	SF220	SF230	SF250	SF275	SF2100	SF2150	SF2200	SF405	SF410	SF415
Apparent output power		kVA	0.501	0.787	1.5	2.15	2.44	3.44	5.44	1.5	2.15	2.44	3.44	5.44	7.88	10	15	19.3	0.809	1.49	2.12
Indicative motor rated power output		kW	0.18	0.37	0.75	1.1	1.5	2.2	4	0.75	1.1	1.5	2.2	4	5.5	7.5	11	15	0.37	0.75	1.1
Rated output current		A	1.4	2.2	4.2	6.0	6.8	9.6	15.2	4.2	6.0	6.8	9.6	15.2	22.0	28.0	42.0	54.0	1.3	2.4	3.4
Maximum operating temperature		°C	50																		
Rated supply frequency		Hz	50																		
Rated supply voltage		V	230																400		
Switching frequency		kHz	4																		
Rated apparent output power		kVA	0.5	0.977	1.71	2.29	3.3	4.44	5.85	1.71	2.29	3.3	4.44	5.85	9.95	14.4	19.5	19.5	0.977	1.71	2.29

Power losses																					
0; 25	f; l	%	0.8	0.6	0.6	0.3	0.2	0.2	0.2	0.2	0.2	2.2	0.9	0.6	0.4	0.3	0.2	0.2	0.2	0.1	
0; 50	f; l	%	0.9	0.7	0.6	0.4	0.3	0.3	0.3	0.3	0.2	2.2	0.9	0.7	0.4	0.3	0.3	0.2	0.2	0.2	
0; 100	f; l	%	1.1	0.9	0.9	0.6	0.5	0.5	0.6	0.5	0.4	2.4	1.1	0.8	0.6	0.5	0.4	0.3	0.3	0.3	
50; 25	f; l	%	0.8	0.7	0.6	0.4	0.3	0.3	0.3	0.2	0.2	2.2	0.9	0.6	0.4	0.3	0.2	0.2	0.2	0.2	
50; 50	f; l	%	1.0	0.8	0.8	0.5	0.4	0.4	0.5	0.4	0.4	2.3	1.0	0.8	0.5	0.4	0.3	0.3	0.3	0.3	
50; 100	f; l	%	1.4	1.2	1.3	1.0	0.9	0.9	1.2	1.0	0.9	2.6	1.3	1.0	0.8	0.7	0.6	0.6	0.6	0.7	
90; 50	f; l	%	1.2	1.0	1.1	0.7	0.6	0.6	0.8	0.7	0.6	2.4	1.1	0.9	0.7	0.5	0.5	0.4	0.5	0.5	
90; 100	f; l	%	2.0	2.3	2.9	2.6	2.2	2.0	2.7	2.3	2.0	2.3	2.0	2.3	2.3	2.6	2.2	2.0	2.2	2.3	
Standby losses		%	0.30	0.23	0.17	0.10	0.07	0.05	0.05	0.04	0.03	0.58	0.30	0.23	0.14	0.10	0.07	0.05	0.04	0.04	
Efficiency level			IE2	IE2	IE2	IE2	IE2	IE2	IE2	IE2	IE2	IE2	IE2	IE2	IE2	IE2	IE2	IE2	IE2	IE2	
Manufacturer			Lenze Americas • 630 Douglas Street • Uxbridge, MA 01569 • USA																		
Commercial registration number																					
Product's model identifier			SF420	SF430	SF450	SF475	SF4100	SF4150	SF4200	SF4250	SF4300	SF510	SF520	SF530	SF550	SF575	SF5100	SF5150	SF5200	SF5250	
Apparent output power		kVA	2.43	3.43	5.42	7.85	10	14.9	19.3	24.3	28.6	1.59	2.8	3.92	6.17	9.25	11.4	17.7	22.4	25.2	
Indicative motor rated power output		kW	1.5	2.2	4	5.5	7.5	11	15	18.5	22	0.75	1.5	2.2	4	5.5	7.5	11	15	18.5	
Rated output current		A	3.9	5.5	8.7	12.6	16.1	24.0	31.0	39.0	46.0	1.7	3.0	4.2	6.6	9.9	12.2	19.0	24.0	27.0	
Maximum operating temperature		°C	50																		
Rated supply frequency		Hz	50																		
Rated supply voltage		V	400										600								
Switching frequency		kHz	4																		
Rated apparent output power		kVA	3.3	4.44	5.85	9.95	14.4	19.5	19.5	28.3	38.2	1.71	3.3	4.44	7.38	9.95	14.4	19.5	23.9	28.3	



Placeholder for product variants

Operating point (f; l)

f = relative motor stator frequency; l = relative torque-producing current

Power losses

Power losses at operating points (f; l) and in standby mode relate to the rated apparent output power.

For power losses for auxiliary equipment and options (e.g. for diagnostics) as well as for accessories (e.g. mains chokes) please refer to further documents for project planning on the product web page.



Power losses																	
0; 25	f; I	%	5.2	3.3	1.5	1.1	5.2	3.3	2.5	1.5	1.1	0.9	0.7	3.3	1.5	1.1	0.9
0; 50	f; I	%	5.3	3.4	1.7	1.3	5.3	3.4	2.6	1.7	1.3	1.0	0.8	3.4	1.7	1.3	1.0
0; 100	f; I	%	5.6	3.6	2.0	1.6	5.6	3.6	2.9	2.0	1.6	1.3	1.1	3.6	2.0	1.6	1.3
50; 25	f; I	%	5.4	3.5	1.6	1.2	5.4	3.5	2.7	1.6	1.2	1.0	0.8	3.5	1.6	1.2	0.9
50; 50	f; I	%	5.6	3.6	1.9	1.6	5.6	3.6	2.9	1.9	1.6	1.3	1.1	3.6	1.9	1.5	1.2
50; 100	f; I	%	6.4	4.5	2.9	2.5	6.4	4.5	3.8	2.9	2.5	2.1	2.1	4.2	2.6	2.2	1.8
90; 50	f; I	%	6.1	4.2	2.5	2.2	6.1	4.2	3.6	2.5	2.2	1.8	1.7	3.9	2.2	1.9	1.5
90; 100	f; I	%	4.2	3.4	3.3	3.8	3.3	3.2	2.9	2.7	3.0	2.2	2.4	3.2	2.7	3.0	2.2
Standby losses		%	1.43	1.02	0.58	0.44	1.43	1.02	0.84	0.58	0.44	0.30	0.23	1.02	0.58	0.44	0.30
Efficiency level			IE2	IE2	IE2	IE2	IE2	IE2	IE2	IE2	IE2	IE2	IE2	IE2	IE2	IE2	IE2
Manufacturer			Lenze Americas • 630 Douglas Street • Uxbridge, MA 01569 • USA														
Commercial registration number																	
Product's model identifier			SM004S	SM005S	SM010S	SM015S	SM204S/ SL204S	SM205S/ SL205S	SM208S/ SL208S	SM210S/ SL210S	SM215S/ SL215S	SM220S/ SL220S	SM230S/ SL230S	SM205	SM210	SM215	SM220
Apparent output power		kVA	0.609	0.86	1.5	2.15	0.609	0.86	1.15	1.5	2.15	2.51	3.44	0.86	1.5	2.15	2.51
Indicative motor rated power output		kW	0.25	0.37	0.75	1.1	0.25	0.37	0.55	0.75	1.1	1.5	2.2	0.37	0.75	1.1	1.5
Rated output current		A	1.7	2.4	4.2	6.0	1.7	2.4	3.2	4.2	6.0	7.0	9.6	2.4	4.2	6.0	7.0
Maximum operating temperature		°C	40														
Rated supply frequency		Hz	50														
Rated supply voltage		V	120					230									
Switching frequency		kHz	4														
Rated apparent output power		kVA	0.697	0.977	1.71	2.29	0.697	0.977	1.19	1.71	2.29	3.3	4.44	0.977	1.71	2.29	3.3

Power losses																	
0; 25	f; I	%	0.7	0.7	0.4	0.3	0.3	4.2	1.8	1.2	0.8	0.6	0.4	0.3	0.2	0.2	
0; 50	f; I	%	0.8	0.8	0.5	0.4	0.4	4.2	1.9	1.3	0.9	0.7	0.5	0.4	0.3	0.3	
0; 100	f; I	%	1.1	1.2	0.8	0.7	0.7	4.4	2.1	1.5	1.1	0.9	0.7	0.6	0.5	0.5	
50; 25	f; I	%	0.8	0.8	0.5	0.4	0.4	4.3	1.8	1.3	0.8	0.7	0.5	0.4	0.3	0.3	
50; 50	f; I	%	1.1	1.1	0.7	0.6	0.6	4.3	2.0	1.4	1.0	0.8	0.7	0.5	0.4	0.4	
50; 100	f; I	%	1.7	2.1	1.5	1.4	1.5	4.7	2.4	1.9	1.4	1.2	1.1	1.0	0.9	0.9	
90; 50	f; I	%	1.4	1.7	1.1	1.0	1.1	4.5	2.2	1.6	1.2	1.0	0.9	0.7	0.6	0.6	
90; 100	f; I	%	2.4	3.0	2.9	2.6	2.4	3.2	2.7	2.5	1.9	2.1	2.1	2.6	2.2	2.0	
Standby losses		%	2.4	3.0	2.9	2.6	2.4	3.2	2.7	2.5	1.9	2.1	2.1	2.6	2.2	2.0	
Efficiency level			IE2	IE2	IE2	IE2	IE2	IE2	IE2	IE2	IE2	IE2	IE2	IE2	IE2	IE2	
Manufacturer			Lenze Americas • 630 Douglas Street • Uxbridge, MA 01569 • USA														
Commercial registration number																	
Product's model identifier			SM230	SM250	SM275	SM2100	SM2150	SM405	SM410	SM415	SM420	SM430	SM450	SM475	SM4100	SM4150	
Apparent output power		kVA	3.44	5.44	7.88	10	15	0.864	1.66	2.39	2.73	3.85	6.24	8.37	10.7	15.9	
Indicative motor rated power output		kW	2.2	4	5.5	7.5	11	0.37	0.75	1.1	1.5	2.2	4	5.5	7.5	11	
Rated output current		A	9.6	15.2	22.0	28.0	42.0	1.3	2.5	3.6	4.1	5.8	9.4	12.6	16.1	24.0	
Maximum operating temperature		°C	40														
Rated supply frequency		Hz	50														
Rated supply voltage		V	230					400									
Switching frequency		kHz	4														
Rated apparent output power		kVA	4.44	5.85	9.95	14.4	19.5	0.977	1.71	2.29	3.3	4.44	7.38	9.95	14.4	19.5	

☐ Placeholder for product variants
 Operating point (f; I) f = relative motor stator frequency; I = relative torque-producing current
 Power losses Power losses at operating points (f; I) and in standby mode relate to the rated apparent output power.

For power losses for auxiliary equipment and options (e.g. for diagnostics) as well as for accessories (e.g. mains chokes) please refer to further documents for project planning on the product web page.



Power losses														
0; 25	f; l	%	3.3	1.5	1.1	0.9	0.7	0.8	0.7	0.4	0.3	0.3	0.4	4.2
0; 50	f; l	%	3.4	1.7	1.3	1.0	0.8	1.0	0.8	0.5	0.4	0.4	0.5	4.2
0; 100	f; l	%	3.6	2.0	1.6	1.3	1.1	1.3	1.2	0.8	0.7	0.7	0.9	4.4
50; 25	f; l	%	3.5	1.6	1.2	1.0	0.8	0.9	0.8	0.5	0.4	0.4	0.5	4.3
50; 50	f; l	%	3.6	1.9	1.6	1.3	1.1	1.3	1.1	0.7	0.6	0.6	0.8	4.3
50; 100	f; l	%	4.5	2.9	2.5	2.1	2.1	2.2	2.1	1.5	1.4	1.5	2.1	4.7
90; 50	f; l	%	4.2	2.5	2.2	1.8	1.7	1.8	1.7	1.1	1.0	1.1	1.5	4.5
90; 100	f; l	%	2.7	2.9	3.6	2.6	2.9	3.6	3.2	2.9	2.6	2.4	3.3	3.2
Standby losses		%	1.02	0.58	0.44	0.30	0.23	0.23	0.17	0.10	0.07	0.05	0.05	1.02
Efficiency level			IE2	IE2	IE2	IE2	IE2	IE2	IE2	IE2	IE2	IE2	IE2	IE2
Manufacturer			Lenze Americas • 630 Douglas Street • Uxbridge, MA 01569 • USA											
Commercial registration number														
Product's model identifier			ESMD371L2YXA	ESMD751L2YXA	ESMD112L2YXA	ESMD152L2YXA	ESMD222L2YXA	ESMD302L2TXA	ESMD402L2TXA	ESMD552L2TXA	ESMD752L2TXA	ESMD113L2TXA	ESMD153L2TXA	ESMD371L4TXA
Apparent output power		kVA	0.787	1.5	2.15	2.44	3.44	4.3	5.44	7.88	10	15	19.3	0.864
Indicative motor rated power output		kW	0.37	0.75	1.1	1.5	2.2	3	4	5.5	7.5	11	15	0.37
Rated output current		A	2.2	4.2	6.0	6.8	9.6	12.0	15.2	22.0	28.0	42.0	54.0	1.3
Maximum operating temperature		°C	40											
Rated supply frequency		Hz	50											
Rated supply voltage		V	230											400
Switching frequency		kHz	4											
Rated apparent output power		kVA	0.977	1.71	2.29	3.3	4.44	4.44	5.85	9.95	14.4	19.5	19.5	0.977

Power losses														
0; 25	f; l	%	1.8	1.2	0.8	0.6	0.5	0.4	0.3	0.2	0.2	0.2	0.2	0.2
0; 50	f; l	%	1.9	1.3	0.9	0.7	0.6	0.5	0.4	0.3	0.3	0.3	0.3	0.2
0; 100	f; l	%	2.1	1.5	1.1	0.9	0.8	0.7	0.6	0.5	0.5	0.6	0.5	0.4
50; 25	f; l	%	1.8	1.3	0.8	0.7	0.6	0.5	0.4	0.3	0.3	0.3	0.2	0.2
50; 50	f; l	%	2.0	1.4	1.0	0.8	0.7	0.7	0.5	0.4	0.4	0.5	0.4	0.4
50; 100	f; l	%	2.4	1.9	1.4	1.2	1.1	1.1	1.0	0.9	0.9	1.2	1.0	0.9
90; 50	f; l	%	2.2	1.6	1.2	1.0	0.9	0.9	0.7	0.6	0.6	0.8	0.7	0.6
90; 100	f; l	%	2.7	2.5	1.9	2.1	2.1	2.1	2.6	2.2	2.0	2.7	2.3	2.0
Standby losses		%	0.58	0.44	0.30	0.23	0.17	0.14	0.10	0.07	0.05	0.05	0.04	0.03
Efficiency level			IE2	IE2	IE2	IE2	IE2	IE2	IE2	IE2	IE2	IE2	IE2	IE2
Manufacturer			Lenze Americas • 630 Douglas Street • Uxbridge, MA 01569 • USA											
Commercial registration number														
Product's model identifier			ESMD751L4TXA	ESMD112L4TXA	ESMD152L4TXA	ESMD222L4TXA	ESMD302L4TXA	ESMD402L4TXA	ESMD552L4TXA	ESMD752L4TXA	ESMD113L4TXA	ESMD153L4TXA	ESMD183L4TXA	ESMD223L4TXA
Apparent output power		kVA	1.66	2.39	2.73	3.85	5.51	6.24	7.85	10	15.9	19.3	24.3	28.6
Indicative motor rated power output		kW	0.75	1.1	1.5	2.2	3	4	5.5	7.5	11	15	18.5	22
Rated output current		A	2.5	3.6	4.1	5.8	8.3	9.4	12.6	16.1	24.0	31.0	39.0	46.0
Maximum operating temperature		°C	40											
Rated supply frequency		Hz	50											
Rated supply voltage		V	400											
Switching frequency		kHz	4											
Rated apparent output power		kVA	1.71	2.29	3.3	4.44	5.85	7.38	9.95	14.4	19.5	19.5	28.3	38.2



Placeholder for product variants

Operating point (f; l)

f = relative motor stator frequency; l = relative torque-producing current

Power losses

Power losses at operating points (f; l) and in standby mode relate to the rated apparent output power.

For power losses for auxiliary equipment and options (e.g. for diagnostics) as well as for accessories (e.g. mains chokes) please refer to further documents for project planning on the product web page.



Power losses									
0; 25	f; l	%	5.2	3.3	2.5	1.5	0.9	0.7	3.3
0; 50	f; l	%	5.3	3.4	2.6	1.7	1.0	0.8	3.4
0; 100	f; l	%	5.6	3.6	2.9	2.0	1.3	1.1	3.6
50; 25	f; l	%	5.4	3.5	2.7	1.6	1.0	0.8	3.5
50; 50	f; l	%	5.6	3.6	2.9	1.9	1.3	1.1	3.6
50; 100	f; l	%	6.4	4.5	3.8	2.9	2.1	2.1	4.2
90; 50	f; l	%	6.1	4.2	3.6	2.5	1.8	1.7	3.9
90; 100	f; l	%	3.3	3.2	2.9	2.7	2.2	2.4	3.2
Standby losses		%	1.43	1.02	0.84	0.58	0.30	0.23	1.02
Efficiency level			IE2	IE2	IE2	IE2	IE2	IE2	IE2
Manufacturer			Lenze Americas • 630 Douglas Street • Uxbridge, MA 01569 • USA						
Commercial registration number									
Product's model identifier			ESMD251W2SFA	ESMD371W2SFA	ESMD551W2SFA	ESMD751W2SFA	ESMD152W2SFA	ESMD222W2SFA	ESMD371W2TXA
Apparent output power		kVA	0.609	0.86	1.15	1.5	2.51	3.44	0.86
Indicative motor rated power output		kW	0.25	0.37	0.55	0.75	1.5	2.2	0.37
Rated output current		A	1.7	2.4	3.2	4.2	7.0	9.6	2.4
Maximum operating temperature		°C	40						
Rated supply frequency		Hz	50						
Rated supply voltage		V	230						
Switching frequency		kHz	4						
Rated apparent output power		kVA	0.697	0.977	1.19	1.71	3.3	4.44	0.977

Power losses									
0; 25	f; l	%	1.5	1.1	0.9	0.7	0.8	0.7	
0; 50	f; l	%	1.7	1.3	1.0	0.8	1.0	0.8	
0; 100	f; l	%	2.0	1.6	1.3	1.1	1.3	1.2	
50; 25	f; l	%	1.6	1.2	0.9	0.8	0.9	0.8	
50; 50	f; l	%	1.9	1.5	1.2	1.1	1.3	1.1	
50; 100	f; l	%	2.6	2.2	1.8	1.7	2.2	2.1	
90; 50	f; l	%	2.2	1.9	1.5	1.4	1.8	1.7	
90; 100	f; l	%	2.7	3.0	2.2	2.4	3.6	3.0	
Standby losses		%	0.58	0.44	0.30	0.23	0.23	0.17	
Efficiency level			IE2	IE2	IE2	IE2	IE2	IE2	
Manufacturer			Lenze Americas • 630 Douglas Street • Uxbridge, MA 01569 • USA						
Commercial registration number									
Product's model identifier			ESMD751W2TXA	ESMD112W2TXA	ESMD152W2TXA	ESMD222W2TXA	ESMD302W2TXA	ESMD402W2TXA	
Apparent output power		kVA	1.5	2.15	2.51	3.44	4.3	5.44	
Indicative motor rated power output		kW	0.75	1.1	1.5	2.2	3	4	
Rated output current		A	4.2	6.0	7.0	9.6	12.0	15.2	
Maximum operating temperature		°C	40						
Rated supply frequency		Hz	50						
Rated supply voltage		V	230						
Switching frequency		kHz	4						
Rated apparent output power		kVA	1.71	2.29	3.3	4.44	4.44	5.85	

☐ Placeholder for product variants
 Operating point (f; l) f = relative motor speed frequency; l = relative torque-producing current
 Power losses Power losses at operating points (f; l) and in standby mode relate to the rated apparent output power.
 For power losses for auxiliary equipment and options (e.g. for diagnostics) as well as for accessories (e.g. mains chokes) please refer to further documents for project planning on the product web page.



Power losses									
0; 25	f; l	%	5.2	3.3	2.5	1.5	0.9	0.7	3.3
0; 50	f; l	%	5.3	3.4	2.6	1.7	1.0	0.8	3.4
0; 100	f; l	%	5.6	3.6	2.9	2.0	1.3	1.1	3.6
50; 25	f; l	%	5.4	3.5	2.7	1.6	1.0	0.8	3.5
50; 50	f; l	%	5.6	3.6	2.9	1.9	1.3	1.1	3.6
50; 100	f; l	%	6.4	4.5	3.8	2.9	2.1	2.1	4.2
90; 50	f; l	%	6.1	4.2	3.6	2.5	1.8	1.7	3.9
90; 100	f; l	%	3.3	3.2	2.9	2.7	2.2	2.4	3.2
Standby losses		%	1.43	1.02	0.84	0.58	0.30	0.23	1.02
Efficiency level			IE2	IE2	IE2	IE2	IE2	IE2	IE2
Manufacturer			Lenze Americas • 630 Douglas Street • Uxbridge, MA 01569 • USA						
Commercial registration number									
Product's model identifier			ESMD251X2SFA	ESMD371X2SFA	ESMD551X2SFA	ESMD751X2SFA	ESMD152X2SFA	ESMD222X2SFA	ESMD371X2TXA
Apparent output power		kVA	0.609	0.86	1.15	1.5	2.51	3.44	0.86
Indicative motor rated power output		kW	0.25	0.37	0.55	0.75	1.5	2.2	0.37
Rated output current		A	1.7	2.4	3.2	4.2	7.0	9.6	2.4
Maximum operating temperature		°C	40						
Rated supply frequency		Hz	50						
Rated supply voltage		V	230						
Switching frequency		kHz	4						
Rated apparent output power		kVA	0.697	0.977	1.19	1.71	3.3	4.44	0.977

Power losses									
0; 25	f; l	%	1.5	1.1	0.9	0.7	0.8	0.7	
0; 50	f; l	%	1.7	1.3	1.0	0.8	1.0	0.8	
0; 100	f; l	%	2.0	1.6	1.3	1.1	1.3	1.2	
50; 25	f; l	%	1.6	1.2	0.9	0.8	0.9	0.8	
50; 50	f; l	%	1.9	1.5	1.2	1.1	1.3	1.1	
50; 100	f; l	%	2.6	2.2	1.8	1.7	2.2	2.1	
90; 50	f; l	%	2.2	1.9	1.5	1.4	1.8	1.7	
90; 100	f; l	%	2.7	3.0	2.2	2.4	3.6	3.0	
Standby losses		%	0.58	0.44	0.30	0.23	0.23	0.17	
Efficiency level			IE2	IE2	IE2	IE2	IE2	IE2	
Manufacturer			Lenze Americas • 630 Douglas Street • Uxbridge, MA 01569 • USA						
Commercial registration number									
Product's model identifier			ESMD751X2TXA	ESMD112X2TXA	ESMD152X2TXA	ESMD222X2TXA	ESMD302X2TXA	ESMD402X2TXA	
Apparent output power		kVA	1.5	2.15	2.51	3.44	4.3	5.44	
Indicative motor rated power output		kW	0.75	1.1	1.5	2.2	3	4	
Rated output current		A	4.2	6.0	7.0	9.6	12.0	15.2	
Maximum operating temperature		°C	40						
Rated supply frequency		Hz	50						
Rated supply voltage		V	230						
Switching frequency		kHz	4						
Rated apparent output power		kVA	1.71	2.29	3.3	4.44	4.44	5.85	

☐ Placeholder for product variants
 Operating point (f; l) f = relative motor speed frequency; l = relative torque-producing current
 Power losses Power losses at operating points (f; l) and in standby mode relate to the rated apparent output power.
 For power losses for auxiliary equipment and options (e.g. for diagnostics) as well as for accessories (e.g. mains chokes) please refer to further documents for project planning on the product web page.



Power losses													
0; 25	f; l	%	3.0	3.0	1.6	1.4	2.9	2.9	1.6	1.4	1.2	1.2	1.1
0; 50	f; l	%	3.0	3.1	1.8	1.6	2.9	2.9	1.8	1.5	1.4	1.4	1.3
0; 100	f; l	%	3.3	3.4	2.3	2.0	3.1	3.3	2.2	2.0	1.8	1.8	1.8
50; 25	f; l	%	3.0	3.1	1.7	1.4	2.9	2.9	1.6	1.4	1.2	1.2	1.2
50; 50	f; l	%	3.0	3.1	1.9	1.6	2.9	3.0	1.8	1.6	1.5	1.4	1.4
50; 100	f; l	%	3.4	3.5	2.4	2.2	3.3	3.3	2.3	2.1	2.0	1.9	2.0
90; 50	f; l	%	3.1	3.1	1.9	1.7	3.0	3.0	1.9	1.7	1.5	1.5	1.5
90; 100	f; l	%	3.4	3.4	2.4	2.2	3.3	3.5	2.5	2.3	2.1	2.1	2.2
Standby losses		%	0.60	0.40	0.30	0.20	0.60	0.40	0.30	0.20	0.10		
Efficiency level			IE2	IE2	IE2	IE2	IE2	IE2	IE2	IE2	IE2	IE2	IE2
Manufacturer			Lenze Americas • 630 Douglas Street • Uxbridge, MA 01569 • USA										
Commercial registration number													
Product's model identifier			ESV251N01SXB	ESV371N01SXB	ESV751N01SXB	ESV112N01SXB	ESV251N02SXB	ESV371N02YXB	ESV751N02YXB	ESV112N02*XB	ESV152N02*XB	ESV222N02*XB	ESV402N02TXB
Apparent output power		kVA	0.816	1.104	1.992	2.4	0.816	1.206	2.078	2.868	3.367	4.489	7.732
Indicative motor rated power output		kW	0.25	0.37	0.75	1.1	0.25	0.37	0.75	1.1	1.5	2.2	4
Rated output current		A	1.7	2.4	4.2	6.0	1.7	2.4	4.2	6.0	7.0	9.6	16.5
Maximum operating temperature		°C	40										
Rated supply frequency		Hz	50										
Rated supply voltage		V	120					230					
Switching frequency		kHz	6										
Rated apparent output power		kVA	0.697	0.977	1.71	2.29	0.697	0.977	1.71	2.29	3.3	4.44	7.38

Power losses													
0; 25	f; l	%	1.1	0.8	0.5	0.5	3.9	2.7	1.8	1.1	1.1	1.0	1.0
0; 50	f; l	%	1.4	1.0	0.7	0.7	3.9	2.7	1.9	1.2	1.2	1.2	1.2
0; 100	f; l	%	2.1	1.6	1.2	1.3	4.1	2.5	2.3	1.5	1.5	1.5	1.7
50; 25	f; l	%	1.2	0.9	0.6	0.6	3.9	2.7	1.8	1.1	1.1	1.1	1.1
50; 50	f; l	%	1.4	1.1	0.8	0.8	3.9	2.7	2.0	1.3	1.2	1.2	1.3
50; 100	f; l	%	2.2	1.8	1.4	1.5	4.2	2.7	2.4	1.6	1.6	1.7	1.9
90; 50	f; l	%	1.5	1.2	0.9	0.9	4.0	2.8	2.0	1.3	1.3	1.3	1.4
90; 100	f; l	%	2.5	2.1	1.8	1.8	4.4	2.9	2.5	1.7	1.8	1.8	2.1
Standby losses		%	0.00				0.40	0.20			0.10		0.00
Efficiency level			IE2	IE2	IE2	IE2	IE2	IE2	IE2	IE2	IE2	IE2	IE2
Manufacturer			Lenze Americas • 630 Douglas Street • Uxbridge, MA 01569 • USA										
Commercial registration number													
Product's model identifier			ESV552N02TXB	ESV752N02TXB	ESV113N02TXB	ESV153N02TXB	ESV371N04TXB	ESV751N04TXB	ESV112N04TXB	ESV152N04TXB	ESV222N04TXB	ESV402N04TXB	ESV552N04TXB
Apparent output power		kVA	10.808	13.718	19.953	24.526	1.178	2.009	2.91	3.256	4.226	7.344	9.838
Indicative motor rated power output		kW	5.5	7.5	11	15	0.37	0.75	1.1	1.5	2.2	4	5.5
Rated output current		A	23.0	29.0	42.0	54.0	1.3	2.4	3.5	4.0	5.5	9.4	12.6
Maximum operating temperature		°C	40										
Rated supply frequency		Hz	50										
Rated supply voltage		V	230				400						
Switching frequency		kHz	6										
Rated apparent output power		kVA	9.95	14.4	19.5	23.9	0.977	1.71	2.29	3.3	4.44	7.38	9.95



Placeholder for product variants

Operating point (f; l)

f = relative motor stator frequency; l = relative torque-producing current

Power losses

Power losses at operating points (f; l) and in standby mode relate to the rated apparent output power.

For power losses for auxiliary equipment and options (e.g. for diagnostics) as well as for accessories (e.g. mains chokes) please refer to further documents for project planning on the product web page.



Power losses													
0; 25	f; l	%	0.8	0.7	0.7	0.7	0.6	0.6	0.6	0.5	2.1	1.0	0.8
0; 50	f; l	%	1.0	0.9	0.9	0.9	0.7	0.8	0.8	0.7	2.2	1.1	0.9
0; 100	f; l	%	1.4	1.4	1.4	1.5	1.2	1.4	1.3	1.2	2.4	1.3	1.1
50; 25	f; l	%	0.8	0.8	0.7	0.7	0.6	0.7	0.7	0.6	2.1	1.0	0.9
50; 50	f; l	%	1.0	1.0	1.0	1.0	0.8	0.9	0.9	0.8	2.2	1.1	1.0
50; 100	f; l	%	1.6	1.6	1.6	1.7	1.4	1.6	1.5	1.4	2.5	1.3	1.2
90; 50	f; l	%	1.1	1.1	1.0	1.1	0.9	1.0	0.9	0.9	2.3	1.2	1.0
90; 100	f; l	%	1.9	1.8	1.8	2.1	1.7	1.9	1.7	1.7	2.6	1.4	1.3
Standby losses		%	0.00								0.20	0.10	
Efficiency level			IE2	IE2	IE2	IE2	IE2	IE2	IE2	IE2	IE2	IE2	IE2
Manufacturer			Lenze Americas • 630 Douglas Street • Uxbridge, MA 01569 • USA										
Commercial registration number													
Product's model identifier			ESV752N04TXB	ESV113N04TXB	ESV153N04TXB	ESV183N04TXB	ESV223N04TXB	ESV303N04TXB	ESV373N04TXB	ESV453N04TXB	ESV751N06TXB	ESV152N06TXB	ESV222N06TXB
Apparent output power		kVA	12.54	18.706	24.249	30.484	36.027	47.112	58.89	69.282	2.078	3.326	4.573
Indicative motor rated power output		kW	7.5	11	15	18.5	22	30	37	45	0.75	1.5	2.2
Rated output current		A	16.1	24.0	31.0	39.0	46.0	60.0	75.0	88.0	1.7	2.7	3.9
Maximum operating temperature		°C	40										
Rated supply frequency		Hz	50										
Rated supply voltage		V	400								600		
Switching frequency		kHz	6										
Rated apparent output power		kVA	14.4	19.5	23.9	28.3	38.2	47	56.2	68.4	1.71	3.3	4.44

Power losses													
0; 25	f; l	%	0.7	0.8	0.8	0.6	0.6	0.6	0.5	0.5	0.5	0.4	
0; 50	f; l	%	0.8	0.9	0.9	0.8	0.7	0.7	0.6	0.6	0.6	0.6	
0; 100	f; l	%	1.1	1.2	1.2	1.1	1.1	1.1	0.9	1.0	1.0	0.9	
50; 25	f; l	%	0.8	0.8	0.8	0.7	0.7	0.6	0.5	0.5	0.5	0.5	
50; 50	f; l	%	0.9	0.9	0.9	0.8	0.8	0.8	0.6	0.7	0.7	0.6	
50; 100	f; l	%	1.1	1.3	1.3	1.2	1.2	1.2	1.0	1.1	1.1	1.0	
90; 50	f; l	%	0.9	1.0	1.0	0.8	0.8	0.8	0.7	0.7	0.7	0.7	
90; 100	f; l	%	1.2	1.4	1.4	1.4	1.3	1.4	1.2	1.3	1.2	1.2	
Standby losses		%	0.10	0.00									
Efficiency level			IE2	IE2	IE2	IE2	IE2	IE2	IE2	IE2	IE2	IE2	
Manufacturer			Lenze Americas • 630 Douglas Street • Uxbridge, MA 01569 • USA										
Commercial registration number													
Product's model identifier			ESV402N06TXB	ESV552N06TXB	ESV752N06TXB	ESV113N06TXB	ESV153N06TXB	ESV183N06TXB	ESV223N06TXB	ESV303N06TXB	ESV373N06TXB	ESV453N06TXB	
Apparent output power		kVA	7.067	10.6	12.886	20.473	25.981	32.216	37.412	48.844	61.315	73.785	
Indicative motor rated power output		kW	4	5.5	7.5	11	15	18.5	22	30	37	45	
Rated output current		A	6.1	9.0	11.0	17.0	22.0	27.0	32.0	41.0	52.0	62.0	
Maximum operating temperature		°C	40										
Rated supply frequency		Hz	50										
Rated supply voltage		V	600										
Switching frequency		kHz	6										
Rated apparent output power		kVA	7.38	9.95	14.4	19.5	23.9	28.3	38.2	47	56.2	68.4	



Placeholder for product variants

Operating point (f; l)

f = relative motor stator frequency; l = relative torque-producing current

Power losses

Power losses at operating points (f; l) and in standby mode relate to the rated apparent output power.

For power losses for auxiliary equipment and options (e.g. for diagnostics) as well as for accessories (e.g. mains chokes) please refer to further documents for project planning on the product web page.



Power losses																
0; 25	f; l	%	2.4	1.3	1.1	2.3	1.3	1.1	1.0	0.9	2.3	1.3	1.1	1.0	0.9	0.7
0; 50	f; l	%	2.5	1.5	1.3	2.3	1.5	1.3	1.1		2.3	1.5	1.3	1.1		0.8
0; 100	f; l	%	2.7	1.9	1.7	2.6	1.8	1.7	1.5		2.6	1.8	1.7	1.5		1.2
50; 25	f; l	%	2.5	1.4	1.2	2.3	1.3	1.1	1.0		2.3	1.3	1.1	1.0		0.8
50; 50	f; l	%	2.5	1.5	1.4	2.4	1.5	1.3	1.2	1.1	2.4	1.5	1.3	1.2		1.0
50; 100	f; l	%	2.8	2.0	1.8	2.7	2.0	1.8	1.6		2.7	2.0	1.8	1.6		1.5
90; 50	f; l	%	2.5	1.6	1.4	2.4	1.6	1.4	1.3	1.2	2.4	1.6	1.4	1.3	1.2	1.1
90; 100	f; l	%	2.8	2.0	1.8	2.7	2.0	1.8	1.7	1.6	2.8	2.1	2.0	1.7	1.8	
Standby losses		%	0.40	0.30	0.20	0.40	0.30	0.20	0.10		0.40	0.30	0.20	0.10		
Efficiency level			IE2	IE2	IE2	IE2	IE2	IE2	IE2	IE2	IE2	IE2	IE2	IE2	IE2	IE2
Manufacturer			Lenze Americas • 630 Douglas Street • Uxbridge, MA 01569 • USA													
Commercial registration number																
Product's model identifier			ESV371N01Scb	ESV751N01Scb	ESV112N01Scb	ESV371N02Sab	ESV751N02Sab	ESV112N02Sab	ESV152N02Sab	ESV222N02Sab	ESV371N02Ycb	ESV751N02Ycb	ESV112N02Ycb	ESV152N02Ycb	ESV222N02Ycb	ESV402N02Tcb
Apparent output power		kVA	1	1.992	2.4	1.224	2.112	2.88	3.192	4.104	1.205	2.078	2.868	3.367	4.489	7.732
Indicative motor rated power output		kW	0.37	0.75	1.1	0.37	0.75	1.1	1.5	2.2	0.37	0.75	1.1	1.5	2.2	4
Rated output current		A	2.4	4.2	6.0	2.4	4.2	6.0	7.0	9.6	2.4	4.2	6.0	7.0	9.6	16.5
Maximum operating temperature		°C	40													
Rated supply frequency		Hz	50													
Rated supply voltage		V	120				230									
Switching frequency		kHz	4													
Rated apparent output power		kVA	0.977	1.71	2.29	0.977	1.71	2.29	3.3	4.44	0.977	1.71	2.29	3.3	4.44	7.38

Power losses															
0; 25	f; l	%	0.5	0.8	0.4	0.5	2.9		1.7		1.4		0.9		0.8
0; 50	f; l	%	0.6	1.0	0.6	0.6	2.9		1.8		1.5		1.0		0.9
0; 100	f; l	%	1.1	1.7	1.0	1.2	3.1		2.1		1.8		1.2		1.3
50; 25	f; l	%	0.5	0.9	0.5	0.5	2.9		1.7		1.4		0.9		0.8
50; 50	f; l	%	0.7	1.1	0.7	0.7	3.0		1.9		1.5		1.0		
50; 100	f; l	%	1.3	1.9	1.3	1.4	3.2		2.2		1.9		1.3		1.4
90; 50	f; l	%	0.8	1.2	0.8	0.8	3.0		1.9		1.6		1.1		1.0
90; 100	f; l	%	1.6	2.2	1.6	1.7	3.4		2.4		2.0		1.4	1.5	
Standby losses		%	0.00				0.40		0.20				0.10		
Efficiency level			IE2	IE2	IE2	IE2	IE2	IE2	IE2	IE2	IE2	IE2	IE2	IE2	IE2
Manufacturer			Lenze Americas • 630 Douglas Street • Uxbridge, MA 01569 • USA												
Commercial registration number															
Product's model identifier			ESV552N02Tcd	ESV752N02Tcd	ESV113N02Tcd	ESV153N02Tcd	ESV371N04Tcb	ESV371N04Tab	ESV751N04Tcb	ESV751N04Tab	ESV112N04Tcb	ESV112N04Tab	ESV152N04Tcb	ESV152N04Tab	ESV222N04Tcb
Apparent output power		kVA	10.808	13.718	19.953	24.526	1.178		2.009		2.91		3.256		4.226
Indicative motor rated power output		kW	5.5	7.5	11	15	0.37		0.75		1.1		1.5		2.2
Rated output current		A	23.0	29.0	42.0	54.0	1.3		2.4		3.5		4.0		5.5
Maximum operating temperature		°C	40												
Rated supply frequency		Hz	50												
Rated supply voltage		V	230				400								
Switching frequency		kHz	4												
Rated apparent output power		kVA	9.95	14.4	19.5	23.9	0.977		1.71		2.29		3.3		4.44

☐ Placeholder for product variants
 Operating point (f; l) f = relative motor stator frequency; l = relative torque-producing current
 Power losses Power losses at operating points (f; l) and in standby mode relate to the rated apparent output power.
 For power losses for auxiliary equipment and options (e.g. for diagnostics) as well as for accessories (e.g. mains chokes) please refer to further documents for project planning on the product web page.

Product's model identifier

a = F or L	b = C or E
c = X or M	d = D or F

Power losses														
0; 25	f; l	%	0.8	0.7	0.8			0.6						0.5
0; 50	f; l	%	0.9	0.8	0.9			0.7						
0; 100	f; l	%	1.3	1.1	1.3			1.1			1.2			
50; 25	f; l	%	0.8	0.7	0.8			0.6						
50; 50	f; l	%	1.0	0.9	1.0			0.8						
50; 100	f; l	%	1.4	1.2	1.4	1.5		1.3	1.4	1.3	1.4		1.5	
90; 50	f; l	%	1.1	0.9	1.0			0.9						
90; 100	f; l	%	1.5	1.4	1.5	1.7		1.6	1.5	1.6			1.9	
Standby losses		%	0.10				0.00							
Efficiency level			IE2	IE2	IE2	IE2	IE2	IE2	IE2	IE2	IE2	IE2	IE2	IE2
Manufacturer			Lenze Americas • 630 Douglas Street • Uxbridge, MA 01569 • USA											
Commercial registration number														
Product's model identifier			ESV222N04Tab	ESV302N04Tab	ESV402N04Tcb	ESV402N04Tab	ESV552N04Tcb	ESV552N04Tab	ESV752N04Tcd	ESV752N04Tad	ESV113N04Tcd	ESV113N04Tad	ESV153N04Tcd	ESV153N04Tad
Apparent output power		kVA	4.226	5.82	7.344		9.838		12.54		18.706		24.249	30.484
Indicative motor rated power output		kW	2.2	3	4		5.5		7.5		11		15	18.5
Rated output current		A	5.5	7.6	9.4		12.6		16.1		24.0		31.0	39.0
Maximum operating temperature		°C	40											
Rated supply frequency		Hz	50											
Rated supply voltage		V	400											
Switching frequency		kHz	4											
Rated apparent output power		kVA	4.44	5.85	7.38		9.95		14.4		19.5		23.9	28.3

Power losses															
0; 25	f; l	%	0.5			1.5	0.8		0.6			0.5			0.4
0; 50	f; l	%	0.7	0.6		1.6	0.9		0.7	0.6	0.7	0.6			0.5
0; 100	f; l	%	1.2	1.0		1.8	1.0	1.1	0.9			0.8		0.9	0.7
50; 25	f; l	%	0.6	0.5		1.5	0.8	0.9	0.6			0.5			0.4
50; 50	f; l	%	0.8	0.7		1.6	0.9	1.0	0.7			0.6			0.5
50; 100	f; l	%	1.5	1.2		1.8	1.1	1.2	0.9	1.0			0.9	1.0	0.9
90; 50	f; l	%	0.9	0.8		1.6	0.9	1.0	0.7						0.6
90; 100	f; l	%	1.9	1.5		1.9	1.2	1.3	1.0	1.2		1.1		1.2	1.0
Standby losses		%	0.00			0.20	0.10			0.00					
Efficiency level			IE2	IE2	IE2	IE2	IE2	IE2	IE2	IE2	IE2	IE2	IE2	IE2	IE2
Manufacturer			Lenze Americas • 630 Douglas Street • Uxbridge, MA 01569 • USA												
Commercial registration number															
Product's model identifier			ESV183N04Tad	ESV223N04Tcd	ESV223N04Tad	ESV751N06Tcb	ESV152N06Tcb	ESV222N06Tcb	ESV402N06Tcb	ESV552N06Tcb	ESV752N06Tcd	ESV113N06Tcd	ESV153N06Tcd	ESV183N06Tcd	ESV223N06Tcd
Apparent output power		kVA	30.484	36.027		2.078	3.326	4.573	7.067	10.6	12.886	20.473	25.981	32.216	37.412
Indicative motor rated power output		kW	18.5	22		0.75	1.5	2.2	4	5.5	7.5	11	15	18.5	22
Rated output current		A	39.0	46.0		1.7	2.7	3.9	6.1	9.0	11.0	17.0	22.0	27.0	32.0
Maximum operating temperature		°C	40												
Rated supply frequency		Hz	50												
Rated supply voltage		V	400			600									
Switching frequency		kHz	4												
Rated apparent output power		kVA	28.3	38.2		1.71	3.3	4.44	7.38	9.95	14.4	19.5	23.9	28.3	38.2

☐ Placeholder for product variants
 Operating point (f; l) f = relative motor stator frequency; l = relative torque-producing current
 Power losses Power losses at operating points (f; l) and in standby mode relate to the rated apparent output power.
 For power losses for auxiliary equipment and options (e.g. for diagnostics) as well as for accessories (e.g. mains chokes) please refer to further documents for project planning on the product web page.

Product's model identifier

a = F or L	b = C or E
c = X or M	d = D or F



Power losses									
0; 25	f; I	%	5.2	3.3	2.5	1.5	1.1	0.9	0.7
0; 50	f; I	%	5.3	3.4	2.6	1.7	1.3	1.0	0.8
0; 100	f; I	%	5.6	3.6	2.9	2.0	1.6	1.3	1.1
50; 25	f; I	%	5.4	3.5	2.7	1.6	1.2	1.0	0.8
50; 50	f; I	%	5.6	3.6	2.9	1.9	1.6	1.3	1.1
50; 100	f; I	%	6.4	4.5	3.8	2.9	2.5	2.1	2.1
90; 50	f; I	%	6.1	4.2	3.6	2.5	2.2	1.8	1.7
90; 100	f; I	%	3.3	3.2	2.9	2.7	3.0	2.2	2.4
Standby losses		%	1.43	1.02	0.84	0.58	0.44	0.30	0.23
Efficiency level			IE2	IE2	IE2	IE2	IE2	IE2	IE2
Manufacturer			Lenze Americas • 630 Douglas Street • Uxbridge, MA 01569 • USA						
Commercial registration number									
Product's model identifier			ETML251X2SFA	ETML371X2SFA	ETML551X2SFA	ETML751X2SFA	ETML112X2SFA	ETML152X2SFA	ETML222X2SFA
Apparent output power		kVA	0.609	0.86	1.15	1.5	2.15	2.51	3.44
Indicative motor rated power output		kW	0.25	0.37	0.55	0.75	1.1	1.5	2.2
Rated output current		A	1.7	2.4	3.2	4.2	6.0	7.0	9.6
Maximum operating temperature		°C	40						
Rated supply frequency		Hz	50						
Rated supply voltage		V	230						
Switching frequency		kHz	4						
Rated apparent output power		kVA	0.697	0.977	1.19	1.71	2.29	3.3	4.44



Operating point (f; I)

Power losses

Placeholder for product variants

f = relative motor stator frequency; I = relative torque-producing current

Power losses at operating points (f; I) and in standby mode relate to the rated apparent output power.

For power losses for auxiliary equipment and options (e.g. for diagnostics) as well as for accessories (e.g. mains chokes) please refer to further documents for project planning on the product web page.

