

Data pengamatan motor FDF dan PAF unit 3A selama 1 tahun (1 Januari 2019 - 31 Desember 2019)

NO	TIME			FORCE DRAFT FAN MOTOR (FDF)					PRIMARY AIR FAN MOTOR (PAF)					RUN HOURS	TOTAL POWER (KWH)	REMARKS
	DATE	MONTH	YEAR	VOLTAGE (V)	CURRENT (A)	FREQ (HZ)	POWER (KW)	DMPER (%)	VOLTAGE (V)	CURRENT (A)	FREQ(HZ)	POWER (KW)	DAMPER (%)			
1	1	January	2019	9944	145	50	2023	60	9944	94	50	1452	44	24	83400	
2	2	January	2019	9946	147	50	2025	62	9946	96	50	1454	46	24	83496	
3	3	January	2019	9947	148	50	2026	63	9947	97	50	1455	47	24	83544	
4	4	January	2019	9940	141	50	2019	56	9940	90	50	1448	40	24	83208	
5	5	January	2019	9943	144	50	2022	59	9943	93	50	1451	43	24	83352	
6	6	January	2019	9945	146	50	2024	61	9945	95	50	1453	45	24	83448	
7	7	January	2019	9945	146	50	2024	61	9945	95	50	1455	47	24	83496	
8	8	January	2019	9947	148	50	2026	63	9947	97	50	1456	48	24	83568	
9	9	January	2019	9948	149	50	2027	64	9948	98	50	1449	41	24	83424	
10	10	January	2019	9941	142	50	2020	57	9941	91	50	1452	44	24	83328	
11	11	January	2019	9944	145	50	2023	60	9944	94	50	1454	46	24	83448	
12	12	January	2019	9946	147	50	2025	62	9946	96	50	1456	48	24	83544	
13	13	January	2019	9946	147	50	2025	62	9946	96	50	1457	49	24	83568	
14	14	January	2019	9948	149	50	2027	64	9948	98	50	1450	42	24	83448	
15	15	January	2019	9949	150	50	2028	65	9949	99	50	1453	45	24	83544	
16	16	January	2019	9942	143	50	2021	58	9942	92	50	1455	47	24	83424	
17	17	January	2019	9945	146	50	2024	61	9945	95	50	1457	49	24	83544	
18	18	January	2019	9947	148	50	2026	63	9947	97	50	1458	50	24	83616	
19	19	January	2019	9948	148	50	2026	63	9948	97	50	1451	43	24	83448	
20	20	January	2019	9941	150	50	2028	65	9941	99	50	1454	46	24	83568	
21	21	January	2019	9944	151	50	2029	66	9944	100	50	1456	48	24	83640	
22	22	January	2019	9946	144	50	2022	59	9946	93	50	1458	50	24	83520	
23	23	January	2019	9946	147	50	2025	62	9946	96	50	1459	51	24	83616	
24	24	January	2019	9948	149	50	2027	64	9948	98	50	1452	44	24	83496	
25	25	January	2019	9949	149	50	2027	64	9949	98	50	1455	47	24	83568	
26	26	January	2019	9942	151	50	2029	66	9942	100	50	1457	49	24	83664	
27	27	January	2019	9945	152	50	2030	67	9945	101	50	1459	51	24	83736	

28	28	January	2019	9947	145	50	2023	60	9947	94	50	1460	52	24	83592		
29	29	January	2019	9947	148	50	2026	63	9947	97	50	1453	45	24	83496		
30	30	January	2019	9949	150	50	2028	65	9949	99	50	1456	44	24	83616		
31	31	January	2019	9950	150	50	2028	65	9950	99	50	1458	46	24	83664		
32	1	February	2019	9943	152	50	2030	67	9943	101	50	1460	47	24	83760		
33	2	February	2019	9946	153	50	2031	68	9946	102	50	1461	40	24	83808		
34	3	February	2019	9948	146	50	2024	61	9948	95	50	1454	43	8	27824		
35	4	February	2019													<i>Unit trip due to Boiler circulation motor was broken</i>	
36	5	February	2019														
37	6	February	2019														
38	7	February	2019														
39	8	February	2019														
40	9	February	2019														
41	10	February	2019	9947	151	50	2029	66	9947	100	50	1452	44	20	69620		
42	11	February	2019	9949	153	50	2031	68	9949	102	50	1454	46	24	83640		
43	12	February	2019	9950	152	50	2030	67	9950	101	50	1455	47	24	83640		
44	13	February	2019	9943	154	50	2032	69	9943	103	50	1448	40	24	83520		
45	14	February	2019	9948	155	50	2033	70	9948	104	50	1451	43	24	83616		
46	15	February	2019	9950	148	50	2026	63	9950	97	50	1453	45	24	83496		
47	16	February	2019	9951	151	50	2029	66	9951	100	50	1455	47	24	83616		
48	17	February	2019	9944	153	50	2031	68	9944	102	50	1456	48	24	83688		
49	18	February	2019	9947	153	50	2031	68	9947	102	50	1449	41	24	83520		
50	19	February	2019	9949	155	50	2033	70	9949	104	50	1452	44	24	83640		
51	20	February	2019	9950	156	50	2034	60	9950	105	50	1454	46	24	83712		
52	21	February	2019	9943	149	50	2027	62	9943	98	50	1456	48	24	83592		
53	22	February	2019	9946	152	50	2030	63	9946	101	50	1457	49	24	83688		
54	23	February	2019	9948	154	50	2032	56	9948	103	50	1450	42	24	83568		
55	24	February	2019	9948	154	50	2032	59	9948	103	50	1453	45	24	83640		
56	25	February	2019	9950	156	50	2034	61	9950	105	50	1455	47	24	83736		
57	26	February	2019	9951	157	50	2035	61	9951	106	50	1457	49	24	83808		
58	27	February	2019	9944	150	50	2028	63	9944	99	50	1458	50	24	83664		
59	28	February	2019	9947	153	50	2031	64	9947	102	50	1451	43	24	83568		

60	1	March	2019	9949	155	50	2033	57	9949	104	50	1454	46	24	83688		
61	2	March	2019	9949	155	50	2033	60	9949	104	50	1456	48	24	83736		
62	3	March	2019	9951	157	50	2035	62	9951	106	50	1458	50	24	83832		
63	4	March	2019	9952	158	50	2036	62	9952	107	50	1459	51	24	83880		
64	5	March	2019	9945	151	50	2029	64	9945	100	50	1452	44	24	83544		
65	6	March	2019	9948	154	50	2032	65	9948	103	50	1455	47	24	83688		
66	7	March	2019	9950	156	50	2034	58	9950	105	50	1457	49	24	83784		
67	8	March	2019	9951	156	50	2034	61	9951	105	50	1459	51	24	83832		
68	9	March	2019	9944	158	50	2036	63	9944	107	50	1460	52	24	83904		
69	10	March	2019	9947	159	50	2037	63	9947	108	50	1453	45	24	83760		
70	11	March	2019	9949	152	50	2030	65	9949	101	50	1456	44	24	83664		
71	12	March	2019	9949	155	50	2033	66	9949	104	50	1458	46	24	83784		
72	13	March	2019	9951	157	50	2035	59	9951	106	50	1460	47	24	83880		
73	14	March	2019	9952	157	50	2035	62	9952	106	50	1461	40	6	20976		
74	15	March	2019													<i>Unit trip due to maintenanc e outage</i>	
75	16	March	2019														
76	17	March	2019														
77	18	March	2019														
78	19	March	2019	9948	158	50	2036	64	9948	107	50	1450	43	18	62748		
79	20	March	2019	9950	158	50	2036	66	9950	107	50	1453	45	24	83736		
80	21	March	2019	9951	160	50	2038	67	9951	109	50	1455	46	24	83832		
81	22	March	2019	9949	161	50	2039	65	9949	110	50	1457	39	24	83904		
82	23	March	2019	9951	154	50	2032	67	9951	103	50	1458	42	24	83760		
83	24	March	2019	9952	157	50	2035	68	9952	106	50	1451	44	24	83664		
84	25	March	2019	9945	159	50	2037	61	9945	108	50	1454	46	24	83784		
85	26	March	2019	9948	159	50	2037	64	9948	108	50	1456	47	24	83832		
86	27	March	2019	9950	161	50	2039	66	9950	110	50	1458	40	24	83928		
87	28	March	2019	9950	162	50	2040	66	9950	111	50	1459	43	24	83976		
88	29	March	2019	9952	155	50	2033	68	9952	104	50	1452	44	24	83640		
89	30	March	2019	9953	158	50	2036	69	9953	107	50	1455	46	24	83784		
90	31	March	2019	9946	160	50	2038	62	9946	109	50	1457	47	24	83880		
91	1	April	2019	9949	160	50	2038	65	9949	109	50	1459	40	24	83928		

92	2	April	2019	9951	162	50	2040	67	9951	111	50	1460	43	24	84000	
93	3	April	2019	9951	163	50	2041	67	9951	112	50	1453	45	24	83856	
94	4	April	2019	9953	156	50	2034	69	9953	105	50	1456	47	24	83760	
95	5	April	2019	9954	159	50	2037	70	9954	108	50	1458	48	24	83880	
96	6	April	2019	9947	161	50	2039	63	9947	110	50	1460	41	24	83976	
97	7	April	2019	9950	161	50	2039	66	9950	110	50	1461	44	24	84000	
98	8	April	2019	9952	163	50	2041	68	9952	112	50	1450	46	24	83784	
99	9	April	2019	9953	164	50	2042	68	9953	113	50	1453	48	24	83880	
100	10	April	2019	9946	157	50	2035	70	9946	106	50	1455	49	24	83760	
101	11	April	2019	9949	160	50	2038	60	9949	109	50	1457	42	24	83880	
102	12	April	2019	9951	162	50	2040	62	9951	111	50	1458	45	24	83952	
103	13	April	2019	9951	162	50	2040	63	9951	111	50	1451	47	24	83784	
104	14	April	2019	9953	164	50	2042	56	9953	113	50	1454	49	24	83904	
105	15	April	2019	9954	165	50	2043	59	9954	114	50	1456	50	24	83976	
106	16	April	2019	9947	158	50	2036	61	9947	107	50	1458	43	24	83856	
107	17	April	2019	9950	161	50	2039	61	9950	110	50	1459	46	24	83952	
108	18	April	2019	9952	163	50	2041	63	9952	112	50	1452	48	24	83832	
109	19	April	2019	9952	163	50	2041	64	9952	112	50	1455	50	24	83904	
110	20	April	2019	9954	165	50	2043	57	9954	114	50	1457	51	24	84000	
111	21	April	2019	9955	166	50	2044	60	9955	115	50	1459	44	24	84072	
112	22	April	2019	9948	159	50	2037	62	9948	108	50	1460	47	24	83928	
113	23	April	2019	9951	162	50	2040	62	9951	111	50	1453	49	24	83832	
114	24	April	2019	9953	164	50	2042	64	9953	113	50	1456	51	24	83952	
115	25	April	2019	9954	164	50	2042	65	9954	113	50	1458	52	24	84000	
116	26	April	2019	9947	166	50	2044	58	9947	115	50	1460	45	24	84096	
117	27	April	2019	9950	167	50	2045	61	9950	116	50	1461	44	24	84144	
118	28	April	2019	9952	160	50	2038	63	9952	109	50	1454	46	24	83808	
119	29	April	2019	9952	163	50	2041	63	9952	112	50	1457	47	24	83952	
120	30	April	2019	9954	165	50	2043	65	9954	114	50	1459	40	24	84048	
121	1	May	2019	9955	165	50	2043	66	9955	114	50	1461	43	24	84096	
122	2	May	2019	9948	167	50	2045	59	9948	116	50	1462	45	24	84168	
123	3	May	2019	9951	168	50	2046	62	9951	117	50	1455	47	24	84024	

124	4	May	2019	9953	161	50	2039	64	9953	110	50	1458	48	24	83928	
125	5	May	2019	9953	164	50	2042	64	9953	113	50	1460	41	24	84048	
126	6	May	2019	9955	166	50	2044	66	9955	115	50	1462	44	24	84144	
127	7	May	2019	9956	166	50	2044	67	9956	115	50	1463	46	24	84168	
128	8	May	2019	9949	168	50	2046	60	9949	117	50	1456	48	24	84048	
129	9	May	2019	9952	169	50	2047	63	9952	118	50	1459	49	24	84144	
130	10	May	2019	9954	162	50	2040	65	9954	111	50	1461	42	24	84024	
131	11	May	2019	9955	165	50	2043	65	9955	114	50	1463	45	24	84144	
132	12	May	2019	9948	167	50	2045	67	9948	116	50	1464	47	24	84216	
133	13	May	2019	9951	167	50	2045	68	9951	116	50	1457	49	24	84048	
134	14	May	2019	9953	169	50	2047	61	9953	118	50	1460	50	24	84168	
135	15	May	2019	9953	170	50	2048	64	9953	119	50	1462	43	24	84240	
136	16	May	2019	9955	163	50	2041	66	9955	112	50	1464	46	24	84120	
137	17	May	2019	9956	166	50	2044	66	9956	115	50	1465	48	24	84216	
138	18	May	2019	9949	168	50	2046	68	9949	117	50	1458	50	24	84096	
139	19	May	2019	9952	168	50	2046	69	9952	117	50	1461	51	24	84168	
140	20	May	2019	9954	170	50	2048	62	9954	119	50	1463	44	24	84264	
141	21	May	2019	9954	171	50	2049	65	9954	120	50	1465	47	24	84336	
142	22	May	2019	9956	164	50	2042	67	9956	113	50	1466	49	24	84192	
143	23	May	2019	9957	167	50	2045	67	9957	116	50	1459	51	24	84096	
144	24	May	2019	9950	169	50	2047	69	9950	118	50	1462	52	24	84216	
145	25	May	2019	9953	169	50	2047	70	9953	118	50	1464	45	24	84264	
146	26	May	2019	9955	171	50	2049	63	9955	120	50	1466	44	24	84360	
147	27	May	2019	9956	172	50	2050	66	9956	121	50	1467	46	24	84408	
148	28	May	2019	9949	165	50	2043	68	9949	114	50	1460	47	24	84072	
149	29	May	2019	9952	168	50	2046	68	9952	117	50	1463	40	24	84216	
150	30	May	2019	9954	170	50	2048	70	9954	119	50	1465	43	24	84312	
151	31	May	2019	9954	170	50	2048	60	9954	119	50	1467	45	24	84360	
152	1	June	2019	9956	172	50	2050	62	9956	121	50	1468	47	24	84432	
153	2	June	2019	9957	173	50	2051	63	9957	122	50	1461	48	24	84288	
154	3	June	2019	9950	166	50	2044	56	9950	115	50	1464	41	24	84192	
155	4	June	2019	9953	169	50	2047	59	9953	118	50	1466	44	4	14052	

156	5	June	2019													<i>Shutdown for electrical efficiency</i>
157	6	June	2019													
158	7	June	2019	9953	171	50	2049	61	9953	120	50	1462	49	10	35110	
159	8	June	2019	9955	173	50	2051	63	9955	122	50	1465	42	24	84384	
160	9	June	2019	9956	174	50	2052	64	9956	123	50	1467	45	24	84456	
161	10	June	2019	9954	167	50	2045	57	9954	116	50	1462	49	24	84168	
162	11	June	2019	9956	170	50	2048	60	9956	119	50	1465	42	24	84312	
163	12	June	2019	9957	172	50	2050	62	9957	121	50	1463	45	24	84312	
164	13	June	2019	9950	174	50	2052	64	9950	123	50	1466	43	24	84432	
165	14	June	2019	9953	175	50	2053	65	9953	124	50	1468	46	24	84504	
166	15	June	2019	9955	168	50	2046	58	9955	117	50	1463	50	24	84216	
167	16	June	2019	9955	171	50	2049	61	9955	120	50	1466	43	24	84360	
168	17	June	2019	9957	173	50	2051	63	9957	122	50	1464	46	24	84360	
169	18	June	2019	9958	173	50	2051	63	9958	122	50	1467	44	24	84432	
170	19	June	2019	9951	175	50	2053	65	9951	124	50	1469	47	24	84528	
171	20	June	2019	9954	176	50	2054	66	9954	125	50	1464	51	24	84432	
172	21	June	2019	9956	169	50	2047	59	9956	118	50	1467	44	24	84336	
173	22	June	2019	9956	172	50	2050	62	9956	121	50	1465	47	24	84360	
174	23	June	2019	9958	174	50	2052	64	9958	123	50	1468	45	24	84480	
175	24	June	2019	9959	174	50	2052	64	9959	123	50	1470	44	24	84528	
176	25	June	2019	9952	176	50	2054	66	9952	125	50	1465	46	14	49266	<i>Derating unit due to disturbance of electrical network</i>
177	26	June	2019	9955	177	50	2055	67	9955	126	50	1468	47	24	84552	
178	27	June	2019	9957	170	50	2048	60	9957	119	50	1466	40	24	84336	
179	28	June	2019	9958	173	50	2051	63	9958	122	50	1469	43	24	84480	
180	29	June	2019	9951	175	50	2053	65	9951	124	50	1471	45	24	84576	
181	30	June	2019	9954	175	50	2053	65	9954	124	50	1466	47	24	84456	
182	1	July	2019	9956	177	50	2055	67	9956	126	50	1469	48	24	84576	
183	2	July	2019	9956	178	50	2056	68	9956	127	50	1467	41	24	84552	

184	3	July	2019	9958	171	50	2049	61	9958	120	50	1470	44	24	84456	
185	4	July	2019	9959	174	50	2052	64	9959	123	50	1472	46	24	84576	
186	5	July	2019	9952	176	50	2054	66	9952	125	50	1467	48	24	84504	
187	6	July	2019	9955	176	50	2054	66	9955	125	50	1470	49	24	84576	
188	7	July	2019	9957	178	50	2056	68	9957	127	50	1468	42	24	84576	
189	8	July	2019	9957	179	50	2057	69	9957	128	50	1471	45	24	84672	
190	9	July	2019	9959	172	50	2050	62	9959	121	50	1473	47	24	84552	
191	10	July	2019	9960	175	50	2053	65	9960	124	50	1468	49	24	84504	
192	11	July	2019	9953	177	50	2055	67	9953	126	50	1471	50	24	84624	
193	12	July	2019	9956	177	50	2055	67	9956	126	50	1469	43	24	84576	
194	13	July	2019	9958	179	50	2057	69	9958	128	50	1472	46	24	84696	
195	14	July	2019	9959	180	50	2058	70	9959	129	50	1474	48	24	84768	
196	15	July	2019	9952	173	50	2051	63	9952	122	50	1469	50	24	84480	
197	16	July	2019	9955	176	50	2054	66	9955	125	50	1472	51	24	84624	
198	17	July	2019	9957	178	50	2056	68	9957	127	50	1470	44	24	84624	
199	18	July	2019	9957	178	50	2056	68	9957	127	50	1473	47	24	84696	
200	19	July	2019	9959	180	50	2058	70	9959	129	50	1475	49	24	84792	
201	20	July	2019	9960	181	50	2059	60	9960	130	50	1470	51	24	84696	
202	21	July	2019	9953	174	50	2052	62	9953	123	50	1473	52	24	84600	
203	22	July	2019	9956	177	50	2055	63	9956	126	50	1471	45	24	84624	
204	23	July	2019	9958	179	50	2057	56	9958	128	50	1474	44	24	84744	
205	24	July	2019	9958	179	50	2057	59	9958	128	50	1476	46	24	84792	
206	25	July	2019	9960	181	50	2059	61	9960	130	50	1471	47	24	84720	
207	26	July	2019	9961	182	50	2060	61	9961	131	50	1474	40	24	84816	
208	27	July	2019	9954	175	50	2053	63	9954	124	50	1472	43	24	84600	
209	28	July	2019	9957	178	50	2056	64	9957	127	50	1475	45	24	84744	
210	29	July	2019	9959	180	50	2058	57	9959	129	50	1477	47	24	84840	
211	30	July	2019	9960	180	50	2058	60	9960	129	50	1472	48	24	84720	
212	31	July	2019	9953	182	50	2060	62	9953	131	50	1475	41	24	84840	
213	1	August	2019	9956	183	50	2061	62	9956	132	50	1473	44	24	84816	
214	2	August	2019	9958	176	50	2054	64	9958	125	50	1476	46	24	84720	
215	3	August	2019	9958	179	50	2057	65	9958	128	50	1478	48	24	84840	

216	4	August	2019	9960	181	50	2059	58	9960	130	50	1473	49	24	84768	
217	5	August	2019	9961	181	50	2059	61	9961	130	50	1476	42	24	84840	
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219	7	August	2019	9957	184	50	2062	63	9957	133	50	1477	47	24	84936	
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222	10	August	2019	9961	182	50	2060	59	9961	131	50	1477	43	24	84888	
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224	12	August	2019	9955	184	50	2062	64	9955	133	50	1478	48	24	84960	
225	13	August	2019	9958	185	50	2063	64	9958	134	50	1480	50	8	28344	
226	14	August	2019													<i>Over haul during 40 days</i>
227	15	August	2019													
228	16	August	2019													
229	17	August	2019													
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231	19	August	2019													
232	20	August	2019													
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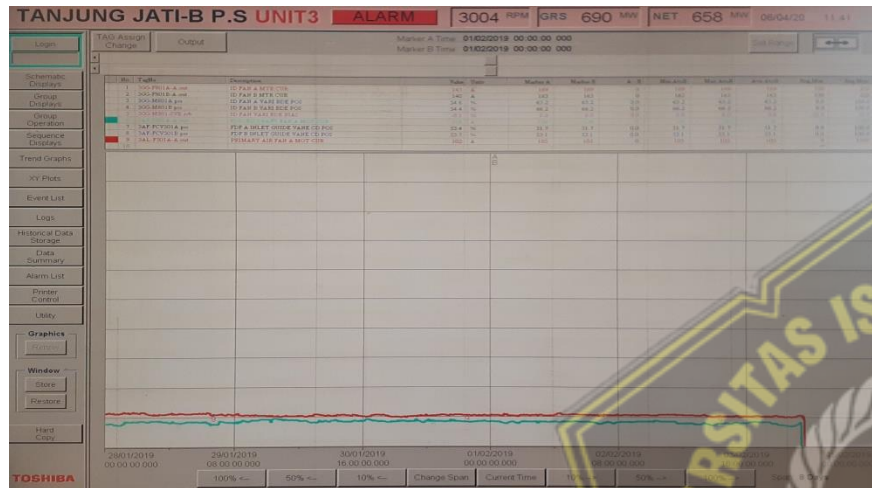
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277	4	October	2019	9960	191	50	2069	67	9960	140	50	1476	47	24	85080	
278	5	October	2019	9962	193	50	2071	60	9962	142	50	1477	49	24	85152	
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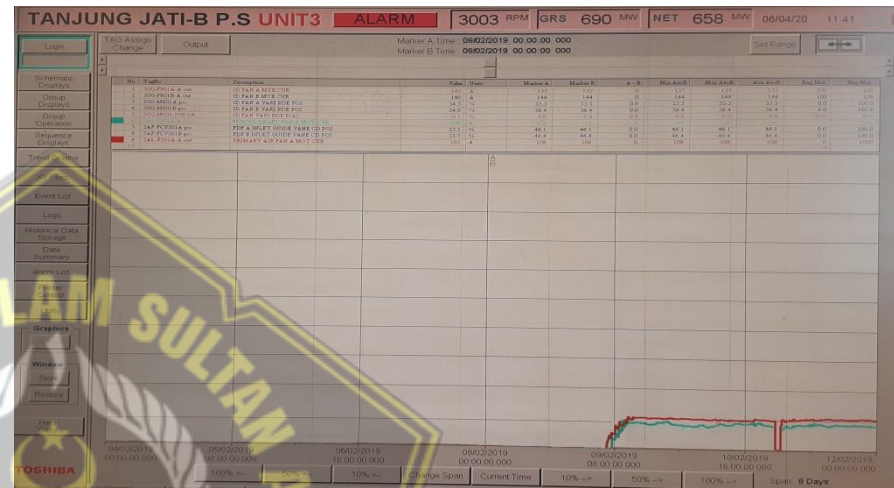
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358	24	Desember	2019	9967	200	50	2078	63	9967	149	50	1493	43	20	71420		
359	25	Desember	2019													<i>Shut down for electrical effeciency</i>	
360	26	Desember	2019														
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365	31	Desember	2019	9968	204	50	2082	65	9968	153	50	1490	49	24	85728		
				AVRG VOLTAGE	AVRG CURRENT	FREQ (HZ)	AVRG POWER	AVRG DMPER	AVRG VOLTAGE	AVRG CRRENT	FREQ (HZ)	AVRG POWER	AVRG DAMPER	TOTAL HOURS	TOTAL POWER (KWH)		
				9955,62	174,22	50,00	2052,2 2	63,35	9955,62	123,22	50,00	1467,6 3	45,88	7.286	25.645.62 7,1		
				HIGHEST VALUE	HIGHEST VALUE		HIGHEST T VALUE	HIGHEST T VALUE	HIGHEST VALUE	HIGHEST T VALUE		HIGHEST T VALUE	HIGHEST VALUE			HIGHEST VALUE	
				9970	208		2086	69,6	9970	157		1494	51,7				
				LOWEST VALUE	LOWEST VALUE		LOWEST VALUE	LOWEST VALUE	LOWEST VALUE	LOWEST VALUE		LOWEST VALUE	LOWEST VALUE			LOWEST VALUE	
				9940	141		2019	55,6	9940	90		1448	38,7				

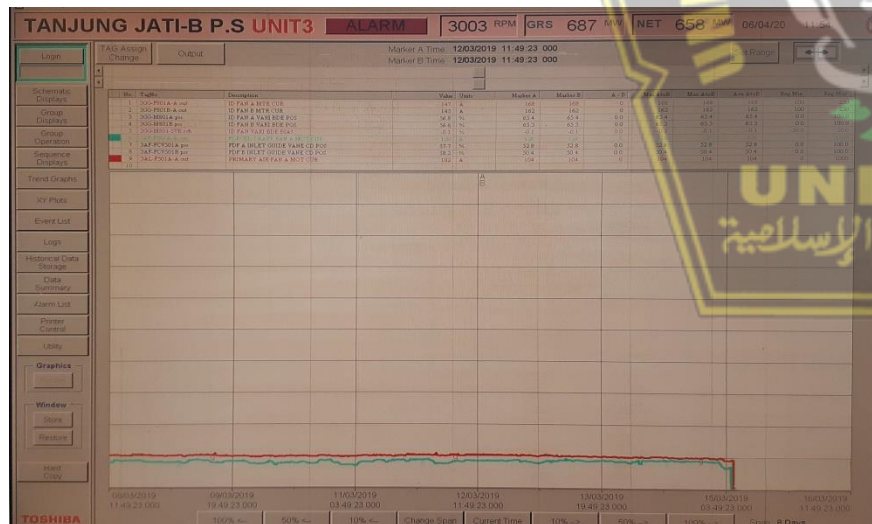
Trend motor padam mengacu pada DCS monitoring



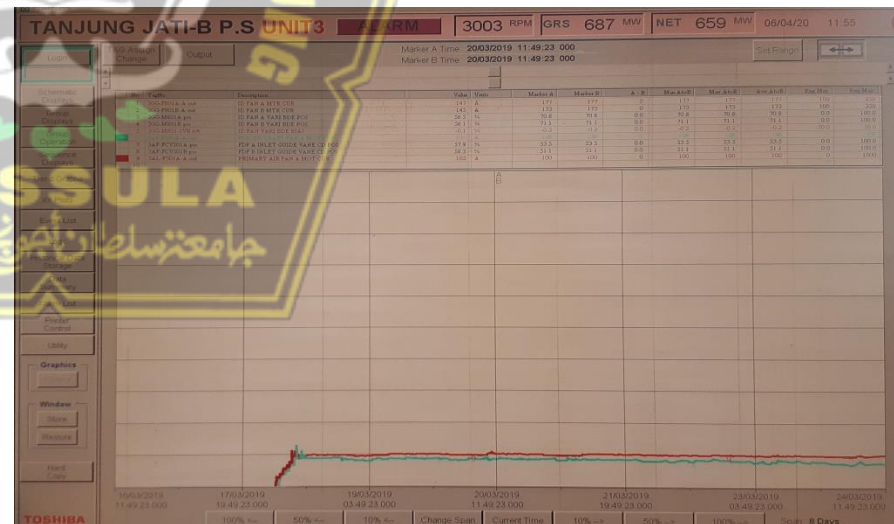
(1 Januari – 5 Pebruari 2019)



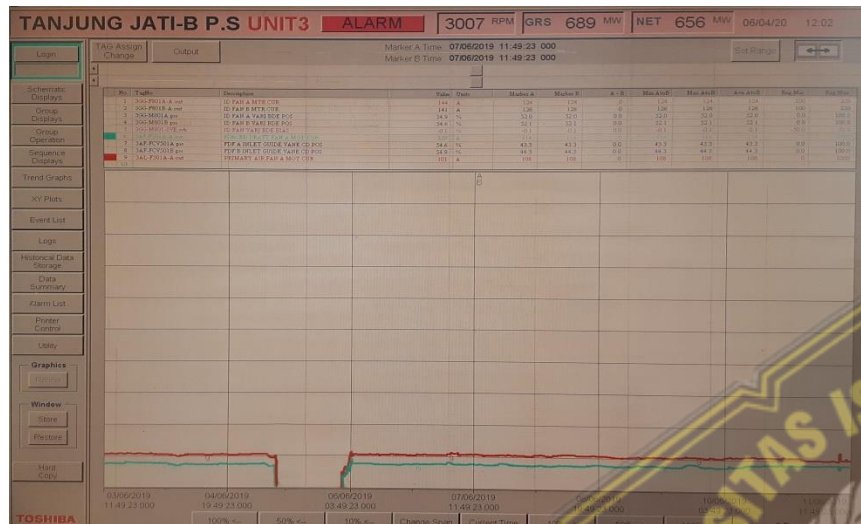
(4 Pebruari – 12 Pebruari 2019)



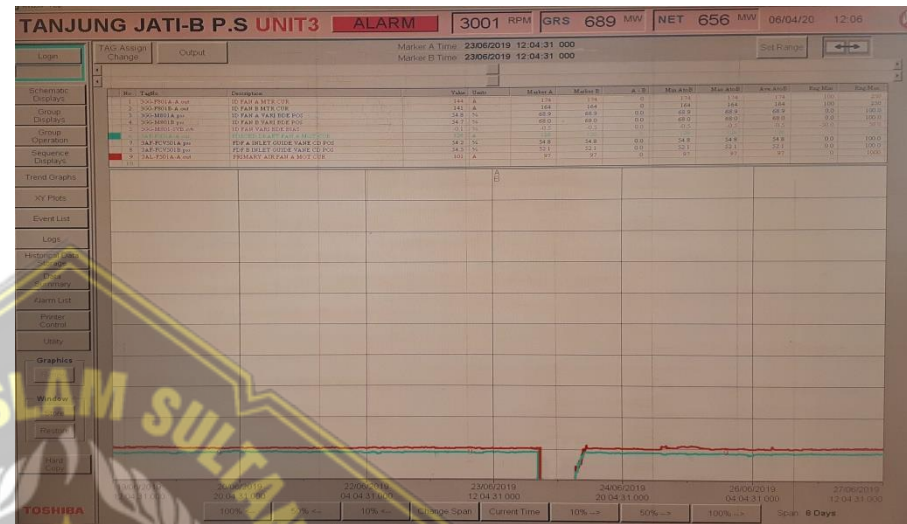
(8 Maret – 16 Maret 2019)



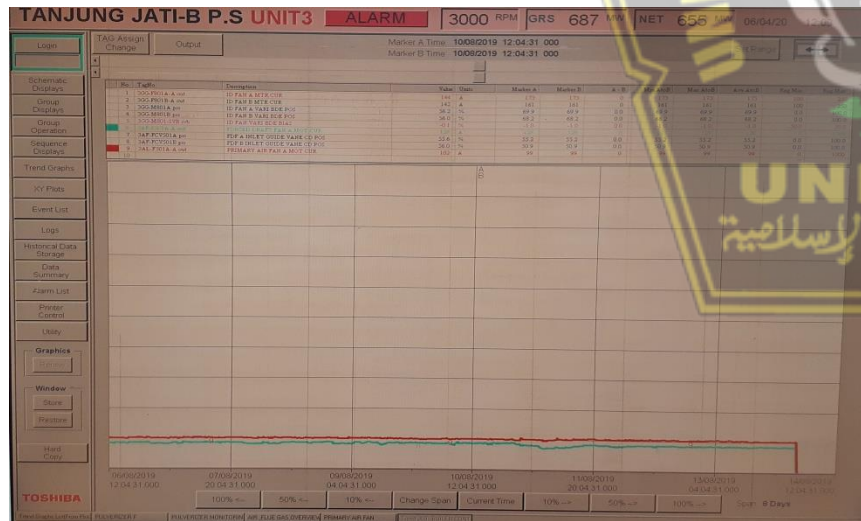
(16 Maret – 24 Maret 2019)



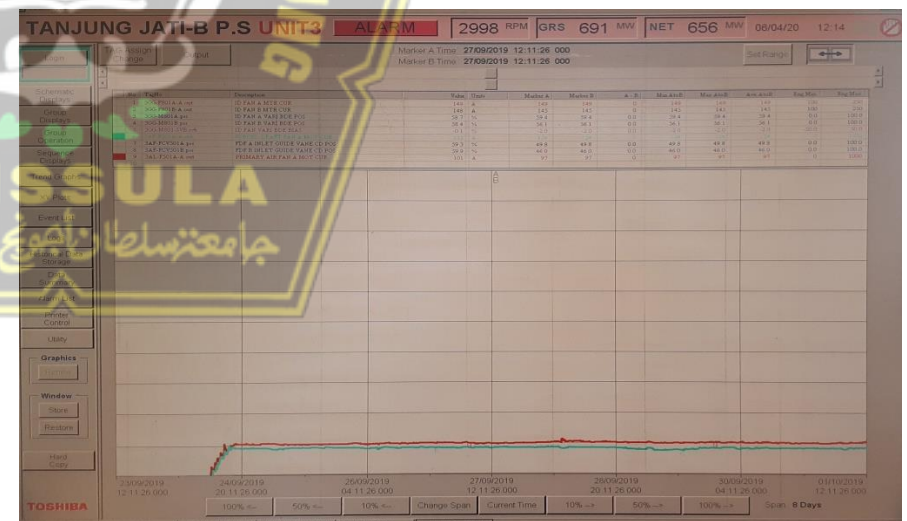
(3 Juni – 11 Juni 2019)



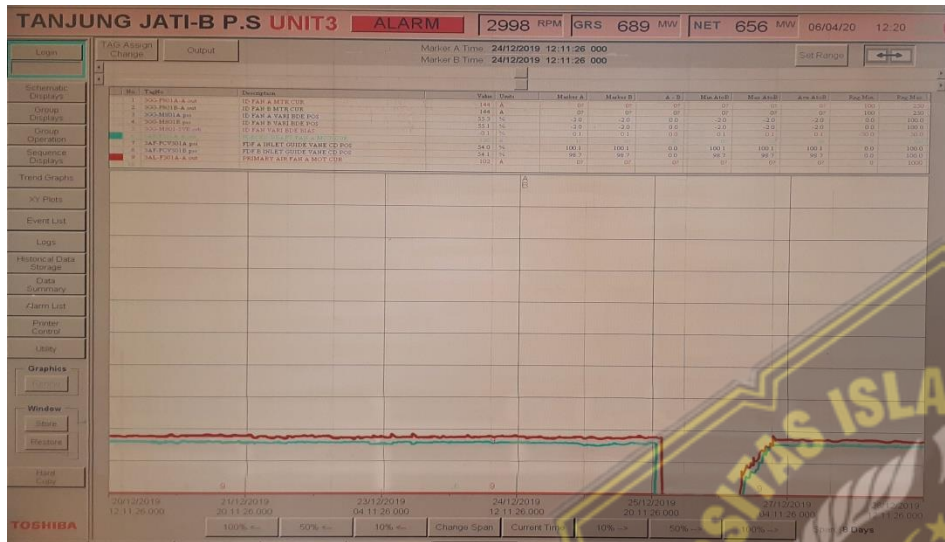
(19 – 27 Juni 2019)



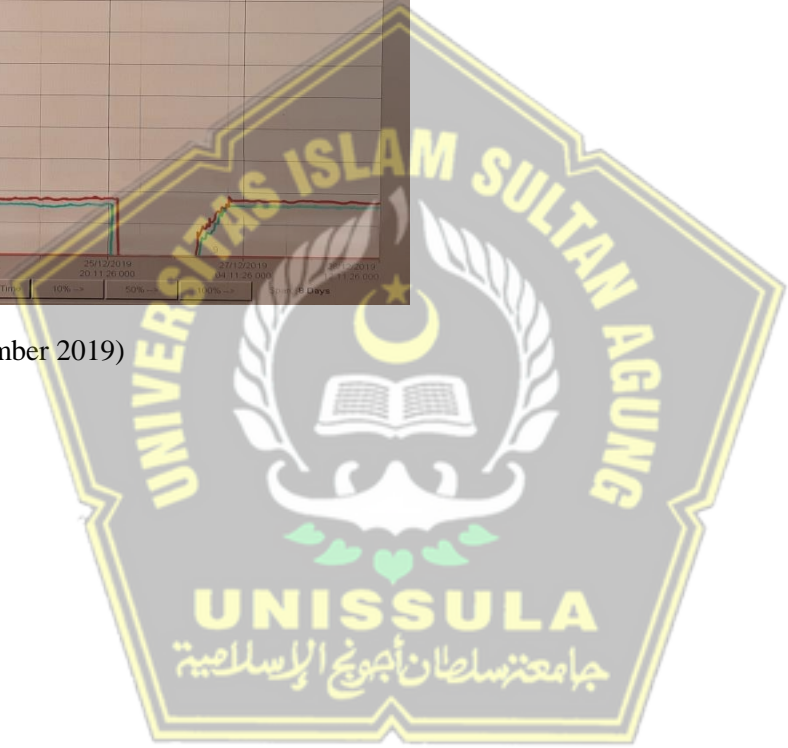
(6 Agustus – 14 Agustus 2019)

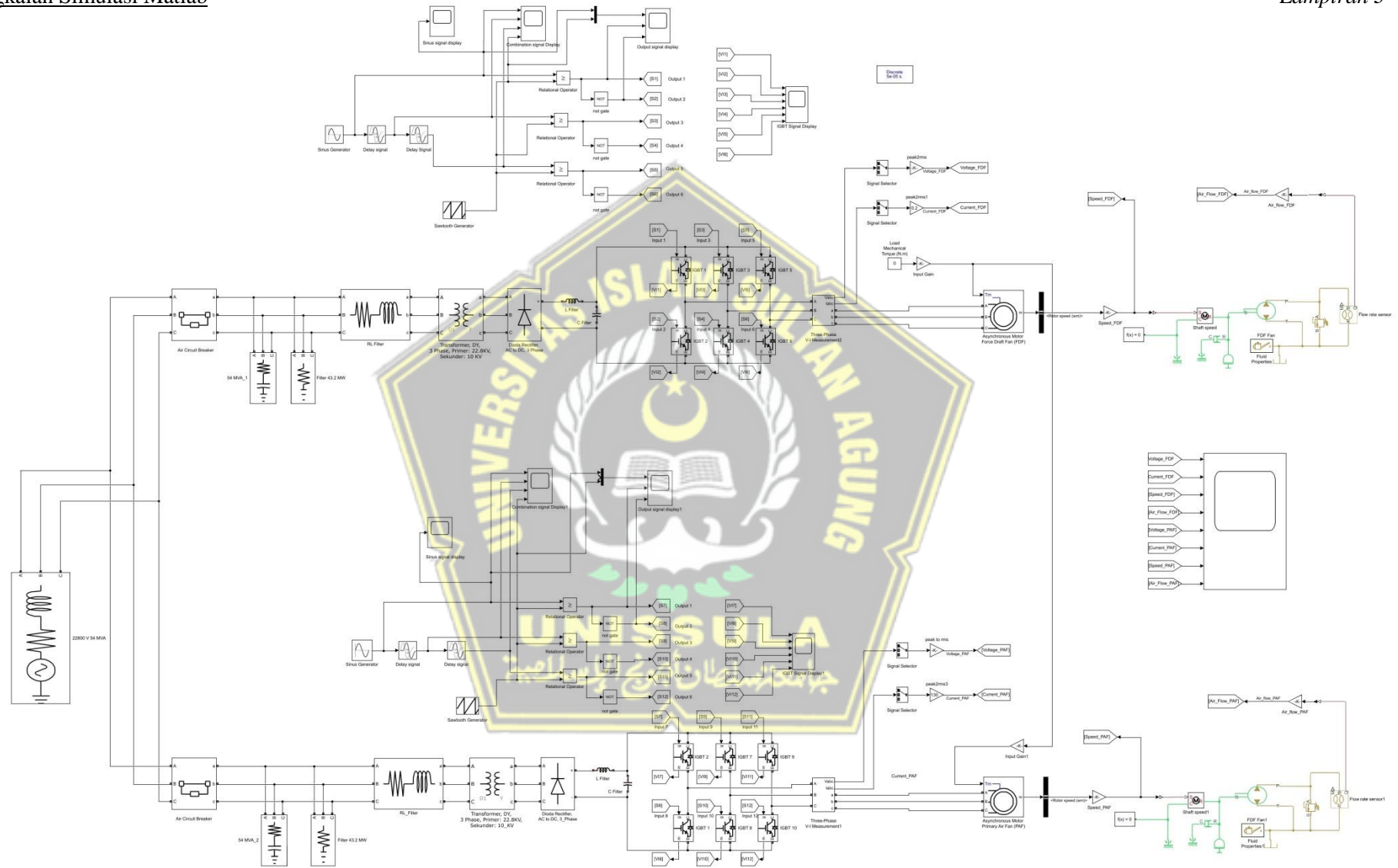


(23 September – 1 Oktober 2019)



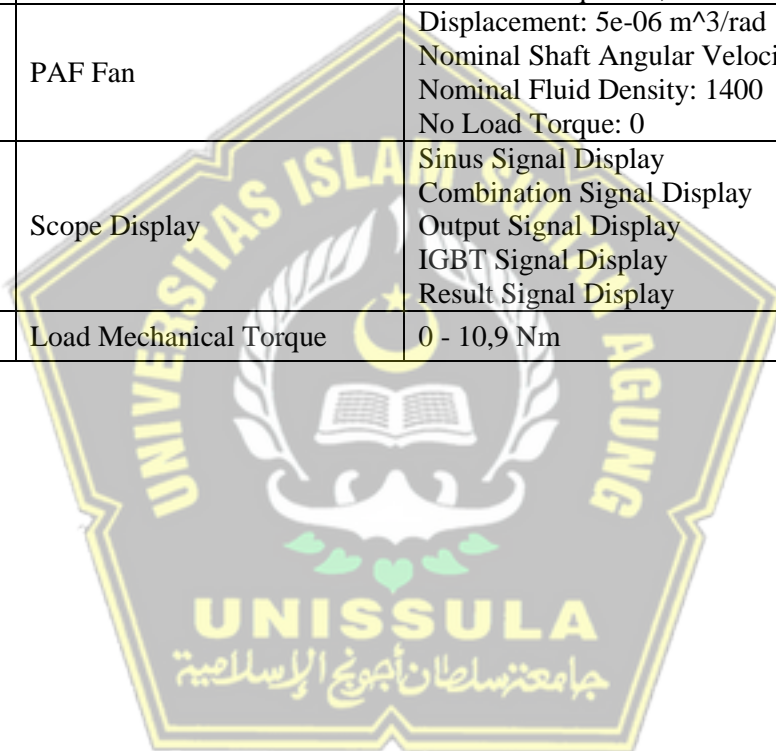
(20 Desember – 28 Desember 2019)





DAFTAR PARAMETER VFD		
No	Nama Komponen	Input Parameter
1	Power Source	3 Phase Configuration: Yg Vrms: 22800 Frequency (Hz): 50
2	Air Circuit Breaker 1, 2	3 Phase Breaker resistance: 0.01 Ohm
3	RL Load 1,2	Configuration: Y (grounded) Vrms: 22800 Frequency: 50 Active Power: 54e6
4	R Load 1,2	Configuration: Y (grounded) Vrms: 22800 Frequency: 50 Active Power: 43,2e6
5	RL Filter 1,2	Branch type: RL Resistance: 0.1e-3 Inductance: 20e8
6	Transformer 1,2	Connection: DY Nominal Power: 6e6 Primary Voltage: 22,8e6 Secondary Voltage: 10e6
7	Dioda Rectifier	Bridge Arms: 3 Device: IGBT/Dioda
8	L Filter 1,2	Inductance: 800 H
9	C Filter 1,2	Capacitance: 75000 F
10	Sinus Generator 1,2	Sine Type: Time Based Amplitudo: 1 Frequency: $2 \cdot \pi \cdot 50$ (0 – 50 Hz) Phase: 120 rad Phase: 0
11	Delay Signal 1,3	Time Delay: 0,0067 Initial Buffer Size: 1024
12	Delay Signal 2,4	Time Delay: 0,013 Initial Buffer Size: 1024
13	Sawtooth Generator 1,2	Frequency: 1e3 Phase: 120
14	Relational Operator 1,2,3,4,5,6	Relational: >= Output Data Type: Boolean
15	Not Gate 1,2,3,4,5,6	Operator: Not Output Data Type: Boolean
16	IGBT 1,2,3,4,5,6,7,8,9,10,11,12	Internal Resistance: 1e-3 Snubber Resistance: 1e5
17	V-I Measurement 1,2	Measurement: Phase to Phase Current Measurement: Yes
18	RC Filter 1,2	Resistance: 0,5 Ohm Capacitance: 0,1 F
19	Asynchronous Motor FDF	Rotor type: Squirrel cage Mechanical input: Torque Tm, Value 0 Nm Nominal Power: 2052220 W Voltage: 10000 V

		Frequency: 50 Hz Pole: 8 Slip: 0,0133
20	Asynchronous Motor PAF	Rotor type: Squirrel cage Mechanical input: Torque Tm, Value 0 Nm Nominal Power: 1467630 W Voltage: 10000 V Frequency: 50 Hz Pole: 4 Slip: 0,0133
21	Bus Selector 1,2	Mechanical Motor Speed (Wm)
22	Shaft Speed 1,2	Velocity source, Torque Sensor
23	FDF Fan	Displacement: 5e-06 m ³ /rad Nominal Shaft Angular Velocity: 750 Nominal Fluid Density: 14000000 No Load Torque: 10,9
24	PAF Fan	Displacement: 5e-06 m ³ /rad Nominal Shaft Angular Velocity: 1446 Nominal Fluid Density: 1400 No Load Torque: 0
25	Scope Display	Sinus Signal Display Combination Signal Display Output Signal Display IGBT Signal Display Result Signal Display
26	Load Mechanical Torque	0 - 10,9 Nm



REFERENSI HARGA VFD FDF

<http://market.drivemotor.biz/2-mv-frequency-inverter/413-mv-vfd-3250kw-10kv.html>

Manufacture: **Advanced Electric System**

Country: Ukraine

Type: **JD-BP38-3250F (3250 KW, 10 KV)**



Price: \$190,800.00 incl. tax

Availability: In Stock

Quantity: 1 pcs

Medium voltage variable frequency drive 3250 kW, 10 kV for general industrial solutions

Multilevel Medium Voltage Variable Frequency Drive:

Output Power: 3250 kW;
 Input/ Output Voltage: 10 kV;
 Output Current: 235 A;
 Dimensions: 4400x2420x1700 mm;
 Weight: 17300 kg.

The JD-BP series medium voltage variable frequency drive designed and manufactured by Advanced Electric Systems LLC. has prominent performance and high reliability with low cost. It is of AC-DC-AC voltage type inverter with main loop of multi-level topology circuit. The control mode adopts SPWM technology. And the input uses isolated transformer of multiple technology, while the output is fulfilled by the solution of phase-shifting tandem multi-unit and medium voltage to medium voltage direct conversion.

Many years of technical experience enabled Advanced Electric Systems LLC. and its staff to have developed inverters with low harmonic content, which is in a leading level in domestic. Perfect output voltage sine wave provides the inverter with stability of motor's operation during the whole speed regulation range. The low input current harmonics almost has no any disturbance to the grid and this ensures the operation reliability of the surrounding electric equipments.

This series inverter can drive and regulate the medium voltage motor in almost all kinds of application area. The speed regulation is smooth, and the efficiency and power factor is enviable. In

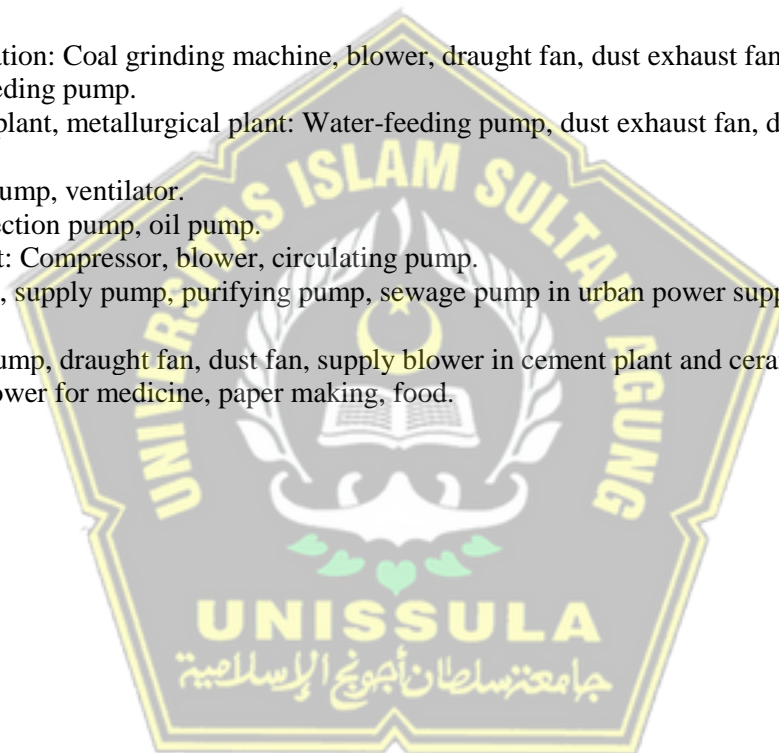
particular, nowadays the world is in short of energy. JD-BP variable frequency drive can bring great economic effect when used for blowers and pumps.

This series inverter consists of three main parts, transformer cabinet is on the left, and power unit cabinet is in the middle, while control cabinet is on the right. To improve the stability of the control circuit and to make the debugging more convenient, the control cabinet door was put on the right of the machine. This series product adopts cabinet structure with forced air cooling. And the big capacity machine adopts the cooling mode of water-cooled, air-closed circulation. The wiring terminal of input and output of the complete machine was placed on the lower left back. It is easy for connection.

Application area

JD-BP medium voltage frequency variable frequency drive has been widely used for the medium voltage motor's speed regulation, energy saving, soft starting and intelligent control in the area of power supply, iron and steel, HVAC, oil, construction, mine and etc.

- *Heat power station: Coal grinding machine, blower, draught fan, dust exhaust fan, circulating pump, water-feeding pump.
- *Iron and steel plant, metallurgical plant: Water-feeding pump, dust exhaust fan, draught fan, oxygenator.
- *Mine: Slurry pump, ventilator.
- *Oil: Water injection pump, oil pump.
- *Chemical plant: Compressor, blower, circulating pump.
- *draw off pump, supply pump, purifying pump, sewage pump in urban power supply and sewage disposal:
- *The grinder, pump, draught fan, dust fan, supply blower in cement plant and ceramic plant
- *others: The blower for medicine, paper making, food.



Specification		
Item	Specification	
Power input	Input frequency	50/60Hz±3%
	Input voltage	10 kV(-10% ~ +10%) continuous running at the low power of -15% ~ -35%
	Mains frequency tolerance	±5%
	Input power factor	In the event of rated load > 0.97
	Efficiency	In the event of rated load > 96 % (inverter part> 98%)
Control characteristics	control mode	SPWM; tandem unit; phase-shift superposed wave; ac-dc-ac; medium-voltage to medium-voltage; technology
	Output frequency	0 ~ 120Hz
	Output frequency precision	0.01Hz
	Overload capacity	130% 1minute, 150% 3s, 180% turning off
	Acceleration and deceleration time	0.1 ~ 6000s
	Analog input	4~20mA (3 ports)
	Analog output	4~20mA (4 ways)
	PID	Standard PID function build-in
	Host communication	RS-485 interface isolation
	Switching value, input/output	15 ways/15 ways
Protecting functions	Over-current of the motor, Over-voltage of the inverter, Under-voltage of the inverter, Over-current of the cell, Over-voltage of the cell, Over-heat of the cell, Lack phase of cell, Communication failure.	
Environment	Operating environment temperature	-10°C~+50°C, higher than 40°C, output power derated
	Storage temperature	-20~+65°C
	Cooling mode	Forced air cooling
	Environment humidity	20~90%RH, no condensation
	Altitude	< 1000 meters
	Protection level	IP31

REFERENSI HARGA VFD PAF

<http://market.drivemotor.biz/2-mv-frequency-inverter/376-mv-vfd-2250kw-10kv.html>

Manufacture: **Advanced Electric System**

Country: Ukraine

Type: **JD-BP38-2250F (2250 KW, 10 KV)**



Price: \$143,900.00 incl. tax

Availability: In Stock

Quantity: 1 pcs

Multilevel Medium Voltage Variable Frequency Drive:

Output Power: 2250 kW;
 Input/ Output Voltage: 10 kV;
 Output Current: 162 A;
 Dimensions: 4100x2420x1700 mm;
 Weight: 7900 kg.

The JD-BP series medium voltage variable frequency drive designed and manufactured by Advanced Electric Systems LLC. has prominent performance and high reliability with low cost. It is of AC-DC-AC voltage type inverter with main loop of multi-level topology circuit. The control mode adopts SPWM technology. And the input uses isolated transformer of multiple technology, while the output is fulfilled by the solution of phase-shifting tandem multi-unit and medium voltage to medium voltage direct conversion.

Many years of technical experience enabled Advanced Electric Systems LLC. and its staff to have developed inverters with low harmonic content, which is in a leading level in domestic. Perfect output voltage sine wave provides the inverter with stability of motor's operation during the whole speed regulation range. The low input current harmonics almost has no any disturbance to the grid and this ensures the operation reliability of the surrounding electric equipments.

This series inverter can drive and regulate the medium voltage motor in almost all kinds of application area. The speed regulation is smooth, and the efficiency and power factor is enviable. In particular, nowadays the world is in short of energy. JD-BP variable frequency drive can bring great economic effect when used for blowers and pumps.

This series inverter consists of three main parts, transformer cabinet is on the left, and power unit cabinet is in the middle, while control cabinet is on the right. To improve the stability of the control circuit and to make the debugging more convenient, the control cabinet door was put on the right of the machine. This series product adopts cabinet structure with forced air cooling. And the big capacity machine adopts the cooling mode of water-cooled, air-closed circulation. The wiring terminal of input and output of the complete machine was placed on the lower left back. It is easy for connection.

Application area

JD-BP medium voltage frequency variable frequency drive has been widely used for the medium voltage motor's speed regulation, energy saving, soft starting and intelligent control in the area of power supply, iron and steel, HVAC, oil, construction, mine and etc.

- *Heat power station: Coal grinding machine, blower, draught fan, dust exhaust fan, circulating pump, water-feeding pump.
- *Iron and steel plant, metallurgical plant: Water-feeding pump, dust exhaust fan, draught fan, oxygenator.
- *Mine: Slurry pump, ventilator.
- *Oil: Water injection pump, oil pump.
- *Chemical plant: Compressor, blower, circulating pump.
- *draw off pump, supply pump, purifying pump, sewage pump in urban power supply and sewage disposal:
- *The grinder, pump, draught fan, dust fan, supply blower in cement plant and ceramic plant
- *others: The blower for medicine, paper making, food.



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