



Gambar Lift dan bagian dalam





Gambar Panel Distribusi





Gambar Motor Listrik





Gambar Saat Pengukuran





Gambar Peneliti Saat Penelitian



VIEW		DMM		USB		2016/01/28	
SET		3P4W	500A	380V	49.81Hz	12:24:55	
U	rms [V]	peak+[V]	peak-[V]	THD [%]			
ch1	238.3	347.3	-347.4	3.1			
ch2	235.8	337.8	-337.9	3.3			
ch3	237.2	342.6	-342.9	3.7			
I	rms [A]	peak+[A]	peak-[A]	ITHD [%]			
ch1	6.7	0.025k	-0.024k	129.1			
ch2	7.1	0.025k	-0.025k	106.9			
ch3	8.4	0.026k	-0.026k	110.2			
ch4	14.2	0.051k	-0.051k				
P	[W]	S	[VA]	Q	[var]	PF	
ch1	0.5k	1.6k	-1.5k	-0.327			
ch2	1.1k	1.7k	1.3k	0.658			
ch3	0.5k	2.0k	1.9k	0.249			
sum	2.1k	5.3k	4.8k	0.402			
Uave	[V]	Iave	[A]	Uunb [%]			
	237.1	7.4	0.7				
KF		ITHD		HOLD			

VIEW		DMM		USB		2016/01/28	
SET		3P4W	500A	380V	49.83Hz	12:27:02	
U	rms [V]	peak+[V]	peak-[V]	THD [%]			
ch1	238.5	347.4	-347.4	3.0			
ch2	236.2	338.5	-338.6	3.3			
ch3	237.5	342.2	-342.7	3.7			
I	rms [A]	peak+[A]	peak-[A]	ITHD [%]			
ch1	0.0	0.020k	-0.019k	126.2			
ch2	6.4	0.023k	-0.024k	100.4			
ch3	7.4	0.023k	-0.023k	100.3			
ch4	12.9	0.046k	-0.048k				
P	[W]	S	[VA]	Q	[var]	PF	
ch1	0.0k	0.0k	-0.0k	-1.000			
ch2	1.0k	1.5k	1.1k	0.682			
ch3	0.3k	1.7k	1.7k	0.191			
sum	1.4k	3.3k	3.0k	0.418			
Uave	[V]	Iave	[A]	Uunb [%]			
	237.4	4.6	0.4				
KF		ITHD		HOLD			

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VIEW		DMM		USB		2016/01/28	
SET		3P4W	500A	380V	49.85Hz	12:28:21	
U	rms [V]	peak+[V]	peak-[V]	THD [%]			
ch1	238.4	348.4	-348.2	3.1			
ch2	236.1	339.4	-339.3	3.2			
ch3	237.3	343.4	-343.6	3.6			
I	rms [A]	peak+[A]	peak-[A]	ITHD [%]			
ch1	12.8	0.040k	-0.042k	120.3			
ch2	13.5	0.041k	-0.042k	106.7			
ch3	14.1	0.043k	-0.042k	108.4			
ch4	27.1	0.082k	-0.084k				
P	[W]	S	[VA]	Q	[var]	PF	
ch1	0.9k	3.1k	-2.9k	-0.298			
ch2	2.1k	3.2k	2.4k	0.669			
ch3	1.0k	3.3k	3.2k	0.285			
sum	4.0k	9.6k	8.7k	0.416			
Uave	[V]	Iave	[A]	Uunb [%]			
	237.3	13.4	0.7				
KF		ITHD		HOLD			

VIEW		DMM		USB		2016/01/28	
SET		3P4W	500A	380V	49.83Hz	12:24:22	
U	rms [V]	peak+[V]	peak-[V]	THD [%]			
ch1	237.5	346.1	-346.7	3.2			
ch2	235.0	337.0	-337.3	3.3			
ch3	236.1	341.2	-341.3	3.6			
I	rms [A]	peak+[A]	peak-[A]	ITHD [%]			
ch1	15.3	0.044k	-0.044k	115.2			
ch2	16.2	0.045k	-0.045k	107.8			
ch3	16.3	0.045k	-0.046k	105.5			
ch4	32.4	0.089k	-0.092k				
P	[W]	S	[VA]	Q	[var]	PF	
ch1	1.1k	3.6k	-3.5k	-0.294			
ch2	2.5k	3.8k	2.8k	0.667			
ch3	1.2k	3.9k	3.7k	0.308			
sum	4.8k	11.3k	10.2k	0.425			
Uave	[V]	Iave	[A]	Uunb [%]			
	236.2	15.9	0.8				
KF		ITHD		HOLD			

VIEW		DMM		USB		2016/01/28	
SET		3P4W	500A	380V	49.83Hz		
U	rms [V]	peak+[V]	peak-[V]	THD [%]			
ch1	238.4	347.9	-348.2	3.1			
ch2	236.0	339.0	-339.3	3.3			
ch3	237.1	342.9	-343.4	3.7			
I	rms [A]	peak+[A]	peak-[A]	ITHD [%]			
ch1	12.1	0.038k	-0.037k	120.3			
ch2	12.6	0.038k	-0.039k	108.1			
ch3	13.2	0.039k	-0.039k	109.5			
ch4	25.4	0.077k	-0.078k				
P	[W]	S	[VA]	Q	[var]	PF	
ch1	0.8k	2.9k	-2.8k	-0.294			
ch2	2.0k	3.0k	2.2k	0.664			
ch3	0.9k	3.1k	3.0k	0.288			
sum	3.7k	9.0k	8.2k	0.415			
Uave	[V]	Iave	[A]	Uunb [%]			
	237.2	12.6	0.4				
KF	ITHD		HOLD				

VIEW		DMM		USB		2016/01/28	
SET		3P4W	500A	380V	49.79Hz		
U	rms [V]	peak+[V]	peak-[V]	THD [%]			
ch1	237.1	346.8	-346.9	3.0			
ch2	234.7	337.3	-337.8	3.3			
ch3	235.9	341.3	-341.2	3.6			
I	rms [A]	peak+[A]	peak-[A]	ITHD [%]			
ch1	19.3	0.054k	-0.054k	111.1			
ch2	19.7	0.057k	-0.056k	105.9			
ch3	21.5	0.055k	-0.055k	101.6			
ch4	39.5	0.113k	-0.112k				
P	[W]	S	[VA]	Q	[var]	PF	
ch1	1.6k	4.6k	-4.3k	-0.351			
ch2	3.1k	4.6k	3.5k	0.667			
ch3	1.6k	5.1k	4.8k	0.313			
sum	6.3k	14.3k	12.8k	0.440			
Uave	[V]	Iave	[A]	Uunb [%]			
	235.9	20.2	0.4				
KF	ITHD		HOLD				

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VIEW		DMM		USB		2016/01/28	
SET		3P4W	500A	380V	49.83Hz		
U	rms [V]	peak+[V]	peak-[V]	THD [%]			
ch1	237.3	346.6	-346.7	3.1			
ch2	235.2	337.5	-337.8	3.4			
ch3	236.1	341.1	-341.4	3.6			
I	rms [A]	peak+[A]	peak-[A]	ITHD [%]			
ch1	13.2	0.040k	-0.040k	118.4			
ch2	14.0	0.043k	-0.043k	110.3			
ch3	14.8	0.043k	-0.043k	111.8			
ch4	28.1	0.087k	-0.086k				
P	[W]	S	[VA]	Q	[var]	PF	
ch1	1.0k	3.1k	-3.0k	-0.312			
ch2	2.2k	3.3k	2.5k	0.654			
ch3	1.0k	3.5k	3.4k	0.282			
sum	4.1k	9.9k	9.0k	0.415			
Uave	[V]	Iave	[A]	Uunb [%]			
	236.2	14.0	0.3				
KF	ITHD		HOLD				

VIEW		DMM		USB		2016/01/28	
SET		3P4W	500A	380V	49.83Hz		
U	rms [V]	peak+[V]	peak-[V]	THD [%]			
ch1	237.4	346.0	-346.4	3.1			
ch2	235.1	337.6	-337.2	3.3			
ch3	236.1	340.9	-341.4	3.7			
I	rms [A]	peak+[A]	peak-[A]	ITHD [%]			
ch1	13.5	0.040k	-0.039k	118.3			
ch2	14.3	0.040k	-0.039k	107.3			
ch3	14.5	0.041k	-0.040k	106.5			
ch4	28.6	0.080k	-0.080k				
P	[W]	S	[VA]	Q	[var]	PF	
ch1	0.9k	3.2k	-3.1k	-0.294			
ch2	2.2k	3.4k	2.5k	0.667			
ch3	1.0k	3.4k	3.3k	0.297			
sum	4.2k	10.0k	9.1k	0.420			
Uave	[V]	Iave	[A]	Uunb [%]			
	236.2	14.1	0.7				
KF	ITHD		HOLD				

VIEW		DMM		USB		2016/01/28	
SET		3P4W	500A	380V	49.81Hz		
U	rms [V]	peak+[V]	peak-[V]	THD [%]			
ch1	237.4	346.3	-346.5	3.0			
ch2	235.0	337.3	-337.3	3.2			
ch3	236.1	341.2	-341.2	3.6			
I	rms [A]	peak+[A]	peak-[A]	ITHD [%]			
ch1	12.8	0.040k	-0.040k	120.1			
ch2	13.4	0.041k	-0.041k	108.8			
ch3	14.1	0.040k	-0.041k	109.0			
ch4	26.9	0.083k	-0.082k				
P	[W]	S [VA]	Q [var]	PF			
ch1	0.9k	3.0k	-2.9k	-0.294			
ch2	2.1k	3.1k	2.4k	0.659			
ch3	1.0k	3.3k	3.2k	0.295			
sum	4.0k	9.5k	8.7k	0.415			
Uave [V]	Iave [A]	Uunb [%]					
236.2	13.4	0.4					
KF	ITHD	HOLD					

VIEW		DMM		USB		2016/01/28	
SET		3P4W	500A	380V	49.83Hz		
U	rms [V]	peak+[V]	peak-[V]	THD [%]			
ch1	238.3	347.2	-347.2	3.0			
ch2	236.1	338.4	-338.3	3.4			
ch3	237.1	342.4	-342.3	3.5			
I	rms [A]	peak+[A]	peak-[A]	ITHD [%]			
ch1	11.8	0.037k	-0.037k	121.7			
ch2	12.2	0.037k	-0.037k	108.3			
ch3	12.9	0.037k	-0.038k	111.1			
ch4	24.5	0.074k	-0.074k				
P	[W]	S [VA]	Q [var]	PF			
ch1	0.8k	2.8k	-2.7k	-0.292			
ch2	1.9k	2.9k	2.2k	0.659			
ch3	0.9k	3.0k	2.9k	0.285			
sum	3.6k	8.7k	8.0k	0.411			
Uave [V]	Iave [A]	Uunb [%]					
237.2	12.3	0.6					
KF	ITHD	HOLD					

Hasil Pengukuran

VIEW		DMM		USB		2016/01/28	
SET		3P4W	500A	380V	49.82Hz		
U	rms [V]	peak+[V]	peak-[V]	THD [%]			
ch1	237.3	346.2	-346.2	3.0			
ch2	235.0	337.5	-337.5	3.3			
ch3	236.1	341.2	-341.5	3.7			
I	rms [A]	peak+[A]	peak-[A]	ITHD [%]			
ch1	16.1	0.044k	-0.044k	114.6			
ch2	17.0	0.046k	-0.045k	109.6			
ch3	16.9	0.046k	-0.046k	104.8			
ch4	34.1	0.092k	-0.091k				
P	[W]	S [VA]	Q [var]	PF			
ch1	1.1k	3.8k	-3.7k	-0.295			
ch2	2.6k	4.0k	3.0k	0.658			
ch3	1.3k	4.0k	3.8k	0.315			
sum	5.0k	11.8k	10.7k	0.424			
Uave [V]	Iave [A]	Uunb [%]					
236.1	16.7	0.4					
KF	ITHD	HOLD					

VIEW		DMM		USB		2016/01/28	
SET		3P4W	500A	380V	49.80Hz		
U	rms [V]	peak+[V]	peak-[V]	THD [%]			
ch1	237.8	346.8	-346.4	3.0			
ch2	235.4	337.5	-338.0	3.2			
ch3	236.5	341.2	-341.6	3.6			
I	rms [A]	peak+[A]	peak-[A]	ITHD [%]			
ch1	11.5	0.036k	-0.036k	120.7			
ch2	12.0	0.036k	-0.036k	107.8			
ch3	12.7	0.037k	-0.037k	109.6			
ch4	24.1	0.073k	-0.073k				
P	[W]	S [VA]	Q [var]	PF			
ch1	0.8k	2.7k	-2.6k	-0.293			
ch2	1.9k	2.8k	2.1k	0.661			
ch3	0.9k	3.0k	2.9k	0.288			
sum	3.5k	8.6k	7.8k	0.413			
Uave [V]	Iave [A]	Uunb [%]					
236.6	12.1	0.5					
KF	ITHD	HOLD					

VIEW		DMM		USB		2016/01/28	
SET		3P4W	500A	380V	49.84Hz		
U	rms [V]	peak+[V]	peak-[V]	THD [%]			
ch1	238.4	347.3	-347.4	3.1			
ch2	236.0	337.8	-338.3	3.4			
ch3	237.1	341.1	-341.7	3.6			
I	rms [A]	peak+[A]	peak-[A]	ITHD [%]			
ch1	10.8	0.035k	-0.035k	119.7			
ch2	11.0	0.035k	-0.036k	107.0			
ch3	12.3	0.036k	-0.036k	111.2			
ch4	22.2	0.070k	-0.072k				
P	[W]	S [VA]	Q [var]	PF			
ch1	0.8k	2.6k	-2.4k	-0.325			
ch2	1.7k	2.6k	1.9k	0.664			
ch3	0.8k	2.9k	2.8k	0.280			
sum	3.4k	8.1k	7.4k	0.418			
Uave [V]		Iave [A]	Uunb [%]				
237.2		11.4	0.7				
KF	ITHD	HOLD					

VIEW		DMM		USB		2016/01/28	
SET		3P4W	500A	380V	49.82Hz		
U	rms [V]	peak+[V]	peak-[V]	THD [%]			
ch1	238.1	347.3	-347.4	3.1			
ch2	235.9	338.4	-338.6	3.4			
ch3	236.9	341.4	-342.4	3.6			
I	rms [A]	peak+[A]	peak-[A]	ITHD [%]			
ch1	15.0	0.046k	-0.046k	116.8			
ch2	15.6	0.046k	-0.047k	109.1			
ch3	16.5	0.047k	-0.047k	109.2			
ch4	31.2	0.093k	-0.094k				
P	[W]	S [VA]	Q [var]	PF			
ch1	1.1k	3.6k	-3.4k	-0.318			
ch2	2.4k	3.7k	2.8k	0.660			
ch3	1.1k	3.9k	3.7k	0.293			
sum	4.7k	11.2k	10.1k	0.422			
Uave [V]		Iave [A]	Uunb [%]				
237.0		15.7	0.3				
KF	ITHD	HOLD					

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VIEW		DMM		USB		2016/01/28	
SET		3P4W	500A	380V	49.86Hz		
U	rms [V]	peak+[V]	peak-[V]	THD [%]			
ch1	238.5	347.9	-349.2	3.1			
ch2	236.1	339.1	-339.7	3.3			
ch3	237.2	343.0	-344.2	3.6			
I	rms [A]	peak+[A]	peak-[A]	ITHD [%]			
ch1	17.2	0.048k	-0.048k	115.6			
ch2	18.1	0.050k	-0.051k	110.6			
ch3	18.0	0.049k	-0.051k	107.0			
ch4	36.4	0.100k	-0.103k				
P	[W]	S [VA]	Q [var]	PF			
ch1	1.2k	4.1k	-3.9k	-0.295			
ch2	2.8k	4.3k	3.2k	0.660			
ch3	1.3k	4.3k	4.1k	0.313			
sum	5.4k	12.7k	11.5k	0.424			
Uave [V]		Iave [A]	Uunb [%]				
237.3		17.8	0.7				
KF	ITHD	HOLD					

VIEW		DMM		USB		2016/01/28	
SET		3P4W	500A	380V	49.84Hz		
U	rms [V]	peak+[V]	peak-[V]	THD [%]			
ch1	238.6	347.1	-348.1	3.1			
ch2	236.2	338.2	-338.8	3.3			
ch3	237.3	341.8	-342.2	3.6			
I	rms [A]	peak+[A]	peak-[A]	ITHD [%]			
ch1	11.2	0.036k	-0.036k	122.6			
ch2	11.6	0.037k	-0.036k	108.0			
ch3	12.4	0.037k	-0.037k	111.6			
ch4	23.3	0.075k	-0.073k				
P	[W]	S [VA]	Q [var]	PF			
ch1	0.8k	2.7k	-2.5k	-0.296			
ch2	1.8k	2.7k	2.0k	0.663			
ch3	0.8k	2.9k	2.8k	0.281			
sum	3.4k	8.3k	7.6k	0.411			
Uave [V]		Iave [A]	Uunb [%]				
237.3		11.7	0.7				
KF	ITHD	HOLD					

VIEW		DMM		USB		2016/01/28	
SET		3P4W	500A	380V	49.85Hz	12:28:50	
U	rms [V]	peak+[V]	peak-[V]	THD [%]			
ch1	238.1	347.7	-348.0	3.1			
ch2	235.7	339.0	-338.6	3.4			
ch3	236.9	342.3	-342.5	3.7			
I	rms [A]	peak+[A]	peak-[A]	ITHD [%]			
ch1	16.2	0.045k	-0.045k	117.5			
ch2	17.0	0.048k	-0.048k	107.7			
ch3	17.5	0.048k	-0.048k	106.9			
ch4	34.0	0.096k	-0.097k				
P	[W]	S	[VA]	Q	[var]	PF	
ch1	1.2k	3.9k	-3.7k	-0.313			
ch2	2.7k	4.0k	3.0k	0.666			
ch3	1.2k	4.2k	4.0k	0.295			
sum	5.1k	12.0k	10.9k	0.424			
Uave	[V]	Iave	[A]	Uunb	[%]		
	236.9	16.9	0.2				
KF	ITHD	HOLD					

VIEW		DMM		USB		2016/01/28	
SET		3P4W	500A	380V	49.81Hz	12:31:53	
U	rms [V]	peak+[V]	peak-[V]	THD [%]			
ch1	238.0	347.2	-348.0	3.1			
ch2	235.6	338.4	-338.7	3.5			
ch3	236.7	341.4	-342.1	3.5			
I	rms [A]	peak+[A]	peak-[A]	ITHD [%]			
ch1	26.7	0.069k	-0.068k	103.0			
ch2	28.5	0.070k	-0.070k	105.7			
ch3	27.8	0.069k	-0.070k	103.5			
ch4	57.0	0.140k	-0.139k				
P	[W]	S	[VA]	Q	[var]	PF	
ch1	1.9k	6.4k	-6.1k	-0.296			
ch2	4.5k	6.7k	5.0k	0.670			
ch3	2.2k	6.6k	6.2k	0.340			
sum	8.6k	19.7k	-17.7k	-0.439			
Uave	[V]	Iave	[A]	Uunb	[%]		
	236.8	27.7	0.7				
KF	ITHD	HOLD					

Hasil Pengukuran

VIEW		DMM		USB		2016/01/28	
SET		3P4W	500A	380V	49.84Hz	12:26:26	
U	rms [V]	peak+[V]	peak-[V]	THD [%]			
ch1	237.8	347.0	-347.3	3.1			
ch2	235.4	338.1	-338.4	3.4			
ch3	236.7	342.2	-342.1	3.8			
I	rms [A]	peak+[A]	peak-[A]	ITHD [%]			
ch1	30.0	0.076k	-0.075k	104.2			
ch2	32.1	0.078k	-0.078k	106.4			
ch3	31.5	0.078k	-0.078k	104.5			
ch4	64.1	0.156k	-0.155k				
P	[W]	S	[VA]	Q	[var]	PF	
ch1	2.1k	7.1k	-6.8k	-0.294			
ch2	5.1k	7.6k	-5.6k	-0.672			
ch3	2.6k	7.5k	7.0k	0.345			
sum	9.7k	22.1k	-19.9k	-0.440			
Uave	[V]	Iave	[A]	Uunb	[%]		
	236.6	31.2	0.3				
KF	ITHD	HOLD					

VIEW		DMM		USB		2016/01/28	
SET		3P4W	500A	380V	50.08Hz	12:49:23	
U	rms [V]	peak+[V]	peak-[V]	THD [%]			
ch1	236.7	345.5	-346.0	3.0			
ch2	234.2	337.0	-337.7	3.2			
ch3	235.2	340.2	-341.0	3.6			
I	rms [A]	peak+[A]	peak-[A]	ITHD [%]			
ch1	28.6	0.071k	-0.072k	105.7			
ch2	30.6	0.076k	-0.076k	107.5			
ch3	29.9	0.074k	-0.075k	106.5			
ch4	61.1	0.152k	-0.152k				
P	[W]	S	[VA]	Q	[var]	PF	
ch1	2.0k	6.8k	-6.5k	-0.292			
ch2	4.8k	7.2k	-5.3k	-0.673			
ch3	2.4k	7.0k	6.6k	0.347			
sum	9.2k	21.0k	-18.8k	-0.440			
Uave	[V]	Iave	[A]	Uunb	[%]		
	235.4	29.7	0.1				
KF	ITHD	HOLD					