



### UNDER FREKUENSI RELE TEST

#### I. DATA PERALATAN

Relay Under Frequency	
Relay Name	:UFR_BUROKO
Merk	: SIEMENS
Type	: 7SJ82
No. Serie	:BM2103000991
Function	:UFR
CVT Ratio	:20.000 Volt/ 100 Volt

#### II. SETTING

Relay Under Frequency						LED
Stage 1	: 49.2	Hz	Time	:0	ms	LED 1.1
Stage 2	: 49.05	Hz	Time	:0	ms	LED 1.2
Stage 3	: 48.9	Hz	Time	:0	ms	LED 1.3
Stage 4	: 48.75	Hz	Time	:0	ms	LED 1.4
Stage 5	: 48.65	Hz	Time	:0	ms	LED 1.5
Stage 6	: 48.5	Hz	Time	:0	ms	LED 1.6
Stage 7	: 48.3	Hz	Time	:0	ms	LED 1.7
dt/dt 1	:					
dt/dt 2	:					
V Block	: 50.8	VAC	Sisi sekunder			

#### III. CHARACTERISTIC

UNDER FREQUENCY	Characteristic				V Block				Keterangan
	Hz	Pick Up	Reset	Time	Pick Up	Reset	LED	Delay	
	F1	49.20	49.19		79ms				
	F2	49.05	49.05		47ms				
	F3	48.90	48.88		52ms				
	F4	48.75	48.74		62ms				
	F5	48.65	48.65		63ms				
	F6	48.50	48.43		75ms				
	F7	48.30	48.29		54ms				
	dt/dt 1								
	dt/dt 2								

Note: Saat diinjeksitengangan<50.8 Volt, UFR tidakbekerja

**IV. METERING TEST**

	Input		Rele	
	Volt	Angle	Volt	Angle
V R-N	57.73	0°	11.537 kV	0°
V S-N	57.73	-120°	11.538 kV	-120°
V T-N	57.73	120°	11.537 kV	120°
Frekuensi	50.00	Hz	50.00	Hz

**V. ALAT YANG DIGUNAKAN**

Merk/Type : Omicron CMC-353

	Nama	Jabatan	Tanggal	Tanda Tangan
Pelaksana	Yudha Komara	Engineer / PT. KMU	26/08/2023	
Pelaksana	M. Asri Arifin	Pengawas/ PT. KMU	26/08/2023	
Diketahui	AlfiantoSangkop	SPV GI BUROKO	26/08/2023	
Diketahui	Maryo H. Nunumeta	UP2B SistemMinahasa	26/08/2023	