

# FULMEN

## Test Before Commissioning Metering Equipment

### Energy Meter

Manufacture : *SOCOMEK*

Type : *A40*

Serial No : *051834039*

Test Equipments : *OMICRON CMC 256-6*

Read Values & Process Errors :



		Reading Value by A40	Phase Angle	Error Calculated by OMICRON	Error Value in Catalogue	Deviation
CT Ratio	500/5	R= 499.5	0	0.18%	0.2%	+0.1
		S= 499.5	-120	0.18%	0.2%	+0.1
		T= 499.5	120	0.18%	0.2%	+0.1
VT Ratio	230KV/100V	R= 229.1	0	0.3%	0.2%	-0.5
		S= 229.1	-120	0.3%	0.2%	-0.5
		T= 229.1	120	0.3%	0.2%	-0.5

$\theta = 60^\circ$

	Calculated	Reading by A40	Error Calculated by OMICRON	Error Value in Catalogue	Deviation
S	199.2 MVA	197.9 MVA	0.65%	0.5%	-0.3
P	99.59 MW	99.52 MW	0.07%	0.5%	+0.86
PF	0.5	0.499	0.2%	0.1%	-0.1

$\theta = 30^\circ$

	Calculated	Reading by A40	Error Calculated by OMICRON	Error Value in Catalogue	Deviation
Q	99.59 MVAR	98.52 MVAR	1.07%	0.5	-1.14

Frequency	Actual	Measured	Error Calculated by OMICRON	Error Value in Catalogue	Deviation
	50 Hz	49.99 Hz	0.02%	0.1%	+0.8

Manufacture : *SOCOMEK*

Type : *A40*

Serial No : *051834039*

Test Equipments : *OMICRON CMC 256-6*

Read Values & Process Errors :



		Reading Value by A40	Phase Angle	Error Calculated by OMICRON	Error Value in Catalogue	Deviation
CT Ratio	500/5	R= 499.6	0	0.08%	0.2%	+0.6
		S= 499.6	-120	0.08%	0.2%	+0.6
		T= 499.6	120	0.08%	0.2%	+0.6
VT Ratio	100V	R= 99.74	0	0.26%	0.2%	-0.3
		S= 99.74	-120	0.26%	0.2%	-0.3
		T= 99.74	120	0.26%	0.2%	-0.3

$\theta = 60^\circ$

	Calculated	Reading by A40	Error Calculated by OMICRON	Error Value in Catalogue	Deviation
S	199.2 MVA	197.9 MVA	0.49%	0.5%	+0.02
P	99.59 MW	99.52 MW	0.09%	0.5%	+0.82
PF	0.5	0.499	0.2%	0.1%	-0.1

$\theta = 30^\circ$

	Calculated	Reading by A40	Error Calculated by OMICRON	Error Value in Catalogue	Deviation
Q	99.59 MVAR	98.52 MVAR	1.2%	0.5	-1.4

Frequency	Actual	Measured	Error Calculated by OMICRON	Error Value in Catalogue	Deviation
	50 Hz	49.99 Hz	0.02%	0.1%	+0.8

Manufacture : *SOCOMEK*  
 Type : *A20*  
 Serial No : *06252310132*  
 Test Equipments : *OMICRON CMC 256-6*  
 Read Values & Process Errors :



		Reading Value by A20	Phase Angle	Error Calculated by OMICRON	Error Value in Catalogue	Deviation
CT Ratio	500/5	R=499.5	0	0.18%	0.2%	+0.1
		S=499.5	-120	0.18%	0.2%	+0.1
		T=499.5	120	0.18%	0.2%	+0.1
VT Ratio	100V	R=99.97	0	0.06%	0.2%	+0.7
		S=99.97	-120	0.06%	0.2%	+0.7
		T=99.97	120	0.06%	0.2%	+0.7

$\theta = 60^\circ$

	Calculated	Reading by A20	Error Calculated by OMICRON	Error Value in Catalogue	Deviation
S	86.60 KVA	86.48 KVA	0.1%	0.5%	+0.8
P	43.30 MW	43.27 MW	0.06%	0.5%	+0.88
PF	0.5	0.499	0.2%	0.1%	-0.1

$\theta = 30^\circ$

	Calculated	Reading by A20	Error Calculated by OMICRON	Error Value in Catalogue	Deviation
Q	43.30 KVAR	43.19 KVAR	0.25%	0.5	+0.5

Frequency	Actual	Measured	Error Calculated by OMICRON	Error Value in Catalogue	Deviation
	50 Hz	49.99 Hz	0.02%	0.1%	+0.8