

M-6283A Configuration Record Forms

Rev. 06

M-6283A-IB-06

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M-6283A Three Phase Digital Capacitor Bank Control Configuration Record Forms

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NOTES:

This document supplies a set of forms to record and document the settings required for the proper operation of the M-6283A. The pdf form may be opened in Adobe Reader or Acrobat. The form may be completed in either program and then saved for reference.

The file is "Read Only" so that the original will not be overwritten. The "Save As" dialog screen will open when saving the document.

Up to 8 Settings Profiles may be configured for the M-6283A. Entering a Profile Number in the "Setpoint Profile" text field on the first page of the Setpoints, will automatically add this Profile Number to the top of each Profile Setpoint page in the document.

Bookmarks have been added to aid document navigation. It is also helpful to ensure that the Forward/Backward buttons are activated in the Adobe Reader or Acrobat toolbar:



M-6283A Configuration Settings			
SETTING	RANGE	DEFAULT	CUSTOMER SETTING
SYSTEM TYPE – FACTORY SETTINGS			
Firmware Version	–	–	
Nominal Frequency	50 Hz or 60 Hz	–	
Neutral Rating	200 mA/ 5 A/ Line Post Sensor	–	
VAr Option	Enable/Disable	–	☐ Enable ☐ Disable
Independent Phase Switching	Enable/Disable	–	☐ Enable ☐ Disable
Switch Control Type	Solenoid Driven/ Motor Driven	–	
CAP BANK SETTINGS			
3 Phase Cap Bank Size	75 to 4800 (kVArS)	1200	
Primary Nominal Voltage	1000 to 65535 (V)	7200	
Control Phase Selection	Phase A/ Phase B/ Phase C/ Average/ Independent Phase	Phase A	
Terminal (1 2 3) Phase Assignment	ABC/ ACB/ BAC/ BCA/ CAB/ CBA	ABC	
High Energy Switch	Enable/Disable	Disable	☐ Enable ☐ Disable
Emergency Mode	Enable/Disable	Disable	☐ Enable ☐ Disable
Control/Switch Power	Phase A/ Phase B/ Phase C	Phase A	
Voltage Loss EM Activate Level	85-115 (Volts)	85	
Voltage Loss EM Time Delay	3-60 (Min)	10	
Voltage Restore EM De-Activate Level*	85-120 (Volts)	90	
* Must be >= Activate Level			
Voltage Restore EM Time Delay	1-60 (Min)	5	
VT Setup			
Phase A Voltage Multiplier	0.1 to 10000.0 (X)	1400.0	
Phase B Voltage Multiplier	0.1 to 10000.0 (X)	1400.0	
Phase C Voltage Multiplier	0.1 to 10000.0 (X)	1400.0	

Configuration Settings Record Form (1 of 4)

M-6283A Configuration Settings			
SETTING	RANGE	DEFAULT	CUSTOMER SETTING
VT Correction A	-15.0 to 15.0 (V)	0.0	
VT Correction B	-15.0 to 15.0 (V)	0.0	
VT Correction C	-15.0 to 15.0 (V)	0.0	
CT Setup			
Phase A Current Multiplier	1.00 to 500.00 (X)	60.00	
Phase B Current Multiplier	1.00 to 500.00 (X)	60.00	
Phase C Current Multiplier	1.00 to 500.00 (X)	60.00	
Neutral Current Multiplier	1.0 to 150.0 (X)	24.0	
Phase Shift Compensation			
Phase Shift 1	0.0 to 359.0 (°)	0.0	
Phase Shift 2	0.0 to 359.0 (°)	0.0	
Phase Shift 3	0.0 to 359.0 (°)	0.0	
Phase Shift N	0.0 to 359.0 (°)	0.0	
Save Block Auto			
Save Block Auto at Power Off	Enable/Disable	Disable	☐ Enable ☐ Disable
Primary Power Metering Units			
Units	Kilo/Mega	Mega	
BANK/SWITCH STATUS			
Bank/Switch Failed Level 2			
Level 2	Enable/Disable	Enable	☐ Enable ☐ Disable
Bank/Switch Failed Level 2	1.0 to 200.0 (A)	2.0	
Time Delay	10 to 300 (Sec)	60	
Failed Level 2 Prior Operation			
Action Taken	Retry Operation/ Reverse Operation & Block/Reset Block	Reverse Operation & Block	
Number of Attempts	1 to 9	1	
Block Reset Time Delay	1 to 72 (hrs)	24	

Configuration Settings Record Form (2 of 4)

M-6283A Configuration Settings			
SETTING	RANGE	DEFAULT	CUSTOMER SETTING
Failed Level 2 No Prior Operation			
Level 2 – No Prior Operation	Enable/Disable	Enable	☐ Enable ☐ Disable
Open and Lockout Time Delay	1 to 4320 (mins)	120	
Reset Lockout	Checked/Unchecked	Unchecked	☐ Checked
Lockout Reset Time Delay	1 to 72 (hrs)	24	
Bank/Switch Failed Level 1			
Level 1	Enable/Disable	Enable	☐ Enable ☐ Disable
Bank/Switch Failed Level 1	1.0 to 200.0 (A)	1.0	
Bank Status			
Bank Status	Enable/Disable	Disable	☐ Enable ☐ Disable
Bank Status Closed	0.10 to 100.00 (A)	0.20	
Bank Status Open	0.10 to 100.00 (A)	0.10	
Neutral Overcurrent Pickup	80.0 to 200.0 %	110.0	
Neutral Undercurrent Pickup	20.0 to 100.0 %	90.0	
Bank Switch Detect	Enable/Disable	Disable	☐ Enable ☐ Disable
Switch Type	52A / 52B	52A	
Time Delay	10 to 300 (Sec)	60	
Action Taken	Retry Operation/None	None	
COUNTERS			
Operation Counter Configuration	Close Only/ Open or Close	Close Only	
Operation Counter Preset Phase A	0 to 999,999	0	
Operation Counter Preset Phase B	0 to 999,999	0	
Operation Counter Preset Phase C	0 to 999,999	0	
Resettable Counter Alarm Limit	0 to 999,999	0	
Daily Operation Configuration	Auto/Remote/Manual	Auto	
Daily Operation Counter Limit	2 to 99	99	

Configuration Settings Record Form (3 of 4)

M-6283A Configuration Settings			
SETTING	RANGE	DEFAULT	CUSTOMER SETTING
DELAYS			
Minimum Time Between Operations	0 to 3600 (Sec)	0	
Close Warning Delay	0 to 90 (Sec)	30	
Enable in	Auto/Remote/Manual	Manual	
Open Warning Delay	0 to 90 (Sec)	0	
Enable in	Auto/Remote/Manual	Manual	
Re-Close Delay	300 to 600 (Sec)	300	
Switch Control Type	Solenoid Driven/ Motor Driven	Solenoid Driven	
Close/Open Pulse Duration (Individual Phase Switching Not Purchased)			
Solenoid Driven	50 to 100 (msec)	100	
Motor Driven	5 to 15 (Sec)	7	
Close/Open Pulse Duration (Individual Phase Switching Purchased – Six Output Board)			
Solenoid Driven	50 to 300 (msec)	100	
Motor Driven	5 to 30 (Sec)	7	
TEMPERATURE UNIT			
Temperature Unit	Fahrenheit/Celsius	Fahrenheit	
VAR AND POWER FACTOR ALARM			
Leading VAr Alarm	-4800 to -150 (KVAR)	-300	
Lagging VAr Alarm	150 to 4800 (KVAR)	900	
Leading Power Factor	-0.990 to -0.850	-0.990	
Lagging Power Factor	0.800 to 0.980	0.950	
VAr and PF Alarm Time Delay	0 to 3600 (Sec)	0	
Minimum Current Threshold for PF Alarms	5 to 150 (A)	20	

Configuration Settings Record Form (4 of 4)

Profile

M-6283A Setpoints			
SETTING	RANGE	DEFAULT	CUSTOMER SETTING
SETPOINT PROFILE			
Setpoint Profile	1 to 8	1	Profile
Profile Name (Max 16 characters)			
SETTINGS PROFILE TRIGGERS			
Default Active Profile	1 to 8	1	
SCADA*	N/A	Enabled/ #1 Priority	
Season 1	N/A	Disabled/ #2	
Season 2	N/A	Disabled/ #3	
Season 3	N/A	Disabled/ #4	
Season 4	N/A	Disabled/ #5	
Below Temperature	N/A	Disabled/ #6	
Above Temperature	N/A	Disabled/ #7	
Reverse Power	N/A	Disabled/ #8	
* SCADA is the enabled trigger for ALL profiles and #1 Priority by Default			
Season 1 Trigger			
Start Date	N/A	January 05	
Start Time	N/A	12:00:00 AM	
End Date	N/A	February 25	
End Time	N/A	12:00:00 AM	
Duration	0.0 to 24.0 (Hrs)	0.0	
Recurrence Pattern	Daily/Weekly	Daily	
Weekly Days	S, M, T, W, T, F, S	M, T, W, T, F	

Setpoints Record Form (1 of 5)

M-6283A Setpoints			
SETTING	RANGE	DEFAULT	CUSTOMER SETTING
Season 2 Trigger			
Start Date	N/A	February 26	
Start Time	N/A	12:00:00 AM	
End Date	N/A	June 30	
End Time	N/A	12:00:00 AM	
Duration	0.0 to 24.0 (Hrs)	0.0	
Recurrence Pattern	Daily/Weekly	Daily	
Weekly Days	S, M, T, W, T, F, S	M, T, W, T, F	
Season 3 Trigger			
Start Date	N/A	July 01	
Start Time	N/A	12:00:00 AM	
End Date	N/A	September 30	
End Time	N/A	12:00:00 AM	
Duration	0.0 to 24.0 (Hrs)	0.0	
Recurrence Pattern	Daily/Weekly	Daily	
Weekly Days	S, M, T, W, T, F, S	M, T, W, T, F	
Season 4 Trigger			
Start Date	N/A	October 01	
Start Time	N/A	12:00:00 AM	
End Date	N/A	December 31	
End Time	N/A	12:00:00 AM	
Duration	0.0 to 24.0 (Hrs)	0.0	
Recurrence Pattern	Daily/Weekly	Daily	
Weekly Days	S, M, T, W, T, F, S	M, T, W, T, F	
Below Temperature Trigger			
Below Temperature	(F) -40° to 185° (C) -40° to 85°	0 (F)	
Above Temperature Trigger			
Above Temperature	(F) -40° to 185° (C) -40° to 85°	0 (F)	

Setpoints Record Form (2 of 5)

Profile

M-6283A Setpoints			
SETTING	RANGE	DEFAULT	CUSTOMER SETTING
AUTO CONTROL MODE – VOLTAGE CONTROL (CLASSIC)			
Control Open Voltage	95.0 to 140.0 (V)	123.0 V	
Control Close Voltage	95.0 to 140.0 (V)	117.0 V	
Close Definite Time	0 to 600 (Sec)	30 sec	
Open Definite Time	0 to 600 (Sec)	30 sec	
Time Delay Selection	Definite Time/ Inverse Time	Definite Time	
Basic Timer Type	Integrating/ Instant Reset	Instant Reset	
AUTO CONTROL MODE – VAR CONTROL			
Control Open VARs	-100 to 100 (%)	20	
Control Close VARs	0 to 100 (%)	60	
Close Definite Time	0 to 600 (Sec)	30	
Open Definite Time	0 to 600 (Sec)	30	
Time Delay Selection	Definite	Definite	Definite
Basic Timer Type	Integrating/ Instant Reset	Instant Reset	
AUTO CONTROL MODE – CURRENT CONTROL			
Control Open Current	10 to 600 (A)	50	
Control Close Current	10 to 600 (A)	100	
Close Definite Time	0 to 600 (Sec)	30	
Open Definite Time	0 to 600 (Sec)	30	
Time Delay Selection	Definite	Definite	Definite
Basic Timer Type	Integrating/ Instant Reset	Instant Reset	

Setpoints Record Form (3 of 5)

M-6283A Setpoints			
SETTING	RANGE	DEFAULT	CUSTOMER SETTING
AUTO CONTROL MODE – TEMPERATURE OVERRIDE			
Temperature Override	Enable/Disable	Disable	☐ Enable ☐ Disable
Above Temperature	(F) -40° to 185° (C) -40° to 85°	95 (F)	
Operation	Close/Open/None	None	
Below Temperature	(F) -40° to 185° (C) -40° to 85°	32 (F)	
Operation	Close/Open/None	None	
AUTO CONTROL MODE – TIME OVERRIDE			
Time Override Option	Classic/Enhanced	Classic	
Time Override	Enable/Disable	Disable	☐ Enable ☐ Disable
Start Date	N/A	01/01/2010	
Start Time	N/A	12:00:00 AM	
End Date	N/A	01/02/2010	
End Time	N/A	12:00:00 AM	
Operation	Close/Open	Open	
Duration	0.0 to 24.0 (Hrs)	0.0	
Recurrence Pattern	Daily/Weekly	Daily	
Weekly Days	S, M, T, W, T, F, S	M, T, W, T, F	
Range of Occurrence	No End Date/ End After	No End Date	
End After Occurrences	N/A	1	
Time Override Enhanced			
Override 2 Start Time	N/A	1:00:00 AM	
Override 2 End Time	N/A	1:00:00 AM	
Override 2 Operation	Close/Open	Open	
Override 2 Duration	0.0 to 24.0 (Hrs)	0.0	

Setpoints Record Form (4 of 5)

Profile

M-6283A Setpoints			
SETTING	RANGE	DEFAULT	CUSTOMER SETTING
REMOTE CONTROL MODE			
Remote Limits	Enable/Disable	Enable	
Overvoltage Limit	95.0 to 140.0 (V)	126.0	
Undervoltage Limit	95.0 to 140.0 (V)	114.0	
Definite Voltage Limits Timer	0 to 600 (Sec)	30	
Time Delay Selection	Definite Time/ Inverse Time	Definite Time	
Basic Timer Type	Integrating/ Instant Reset	Instant Reset	
CONTROL MODE LIMITS			
Maximum Voltage Limit	95.0 to 140.0 (V)	128.0	
Minimum Voltage Limit	95.0 to 140.0 (V)	110.0	
Definite Time	0 to 60 (Sec)	10	
Enable Limits	Disable All/ Enable in Auto/ Enable in Remote/ Enable in Manual	Enable in Auto	

Setpoints Record Form (5 of 5)

M-6283A Alarms		
SETTING	DEFAULT	CUSTOMER SETTING
PROGRAMMABLE ALARM RELAY		
Maximum Voltage Limit	☐ Enabled	☐ Enable
Remote Overvoltage Limit	☐ Enabled	☐ Enable
Neutral Magnitude Unbalance	☐ Disabled	☐ Enable
Resettable Counter Limit	☐ Disabled	☐ Enable
Voltage Harmonics	☐ Disabled	☐ Enable
Remote Manual	☐ Disabled	☐ Enable
Current THD Lockout	☐ Disabled	☐ Enable
Leading VAR	☐ Disabled	☐ Enable
Leading Power Factor	☐ Disabled	☐ Enable
Minimum Voltage Limit	☐ Enabled	☐ Enable
Remote Undervoltage Limit	☐ Enabled	☐ Enable
Neutral Phase Unbalance	☐ Disabled	☐ Enable
Daily Operation Counter Limit	☐ Enabled	☐ Enable
Current Harmonics	☐ Disabled	☐ Enable
Self Test	☐ Disabled	☐ Enable
Voltage THD Lockout	☐ Disabled	☐ Enable
Lagging VAR	☐ Disabled	☐ Enable
Lagging Power Factor	☐ Disabled	☐ Enable

M-6283A Data Logging			
SETTING	RANGE	DEFAULT	CUSTOMER SETTING
DATA LOGGING TIMER			
Data Log Interval	0, 1, 2, 5, 10, 15, 30, 60, 120 Minutes	5	
Duration	Calculated	347 Day 05:20:00	

Programmable Alarms and Data Logging Record Forms

M-6283A Wakeup Screens

SETTING	DEFAULT	CUSTOMER SETTING
Phase Voltage (A,B,C)	☐ Enabled	☐ Enable
Delta Voltage (A,B,C)	☐ Enabled	☐ Enable
Primary Voltage (A,B,C)	☐ Enabled	☐ Enable
Operation Counter (A,B,C)	☐ Enabled	☐ Enable
Daily Operation Counter (A,B,C)	☐ Enabled	☐ Enable
Active Profile	☐ Enabled	☐ Enable
Date & Time	☐ Enabled	☐ Enable
Frequency	☐ Disabled	☐ Enable
Neutral Current	☐ Disabled	☐ Enable
Voltage % THD (A,B,C)	☐ Disabled	☐ Enable
Resettable Operation Counter (A,B,C)	☐ Disabled	☐ Enable
Temperature	☐ Disabled	☐ Enable
Power Factor 3ph	☐ Disabled	☐ Enable
Phase Current (A,B,C)	☐ Disabled	☐ Enable
Primary Watts 3ph	☐ Disabled	☐ Enable
Primary VArS 3ph	☐ Disabled	☐ Enable
Primary VA 3ph	☐ Disabled	☐ Enable
Current % THD (A,B,C)	☐ Disabled	☐ Enable
Power Factor Ph A	☐ Disabled	☐ Enable
Power Factor Ph B	☐ Disabled	☐ Enable
Power Factor Ph C	☐ Disabled	☐ Enable
Primary Watts Ph A	☐ Disabled	☐ Enable
Primary Watts Ph B	☐ Disabled	☐ Enable
Primary Watts Ph C	☐ Disabled	☐ Enable
Primary VArS Ph A	☐ Disabled	☐ Enable
Primary VArS Ph B	☐ Disabled	☐ Enable
Primary VArS Ph C	☐ Disabled	☐ Enable
Primary VA Ph A	☐ Disabled	☐ Enable
Primary VA Ph B	☐ Disabled	☐ Enable
Primary VA Ph C	☐ Disabled	☐ Enable
Control Phase Selection	☐ Disabled	☐ Enable
Active Emergency Control	☐ Disabled	☐ Enable

Wakeup Screen Selections Record Form

M-6283A Harmonics

SETTING	RANGE	DEFAULT	CUSTOMER SETTING
Voltage Alarm Threshold V Percent	0.0 to 30.0 (%)	10.0	
Current Alarm Threshold I Percent	0 to 100 (%)	10	
Min. Fundamental I Threshold	Enable/Disable	Enable	☐ Enable ☐ Disable
Min. Fundamental I Threshold	0.0 to 150.0 (A)	15.0	
Delay	1 to 300 (Sec)	10	

VOLTAGE HARMONICS SELECTION

HARMONIC	DEFAULT	SETTING	HARMONIC	DEFAULT	SETTING	HARMONIC	DEFAULT	SETTING
2nd	☐	☐ Select	12th	☐	☐ Select	22nd	☐	☐ Select
3rd	☐	☐ Select	13th	☐	☐ Select	23rd	☐	☐ Select
4th	☐	☐ Select	14th	☐	☐ Select	24th	☐	☐ Select
5th	☐	☐ Select	15th	☐	☐ Select	25th	☐	☐ Select
6th	☐	☐ Select	16th	☐	☐ Select	26th	☐	☐ Select
7th	☐	☐ Select	17th	☐	☐ Select	27th	☐	☐ Select
8th	☐	☐ Select	18th	☐	☐ Select	28th	☐	☐ Select
9th	☐	☐ Select	19th	☐	☐ Select	29th	☐	☐ Select
10th	☐	☐ Select	20th	☐	☐ Select	30th	☐	☐ Select
11th	☐	☐ Select	21st	☐	☐ Select	31st	☐	☐ Select

CURRENT HARMONICS SELECTION

HARMONIC	DEFAULT	SETTING	HARMONIC	DEFAULT	SETTING	HARMONIC	DEFAULT	SETTING
2nd	☐	☐ Select	12th	☐	☐ Select	22nd	☐	☐ Select
3rd	☐	☐ Select	13th	☐	☐ Select	23rd	☐	☐ Select
4th	☐	☐ Select	14th	☐	☐ Select	24th	☐	☐ Select
5th	☐	☐ Select	15th	☐	☐ Select	25th	☐	☐ Select
6th	☐	☐ Select	16th	☐	☐ Select	26th	☐	☐ Select
7th	☐	☐ Select	17th	☐	☐ Select	27th	☐	☐ Select
8th	☐	☐ Select	18th	☐	☐ Select	28th	☐	☐ Select
9th	☐	☐ Select	19th	☐	☐ Select	29th	☐	☐ Select
10th	☐	☐ Select	20th	☐	☐ Select	30th	☐	☐ Select
11th	☐	☐ Select	21st	☐	☐ Select	31st	☐	☐ Select

Harmonics Record Form (1 of 2)

M-6283A Harmonics			
SETTING	RANGE	DEFAULT	CUSTOMER SETTING
THD TRIP AND LOCKOUT SETTINGS			
Maximum THD Lockout/Reset Operations	1 to 5	3	
Maximum Time for THD Lockout/Reset Operations	5 to 3600 (Min)	60	
Voltage			
Voltage THD Trip and Lockout	Enable/Disable	Disable	☐ Enable ☐ Disable
Voltage THD Trip Pickup	1 to 100 (%)	20	
Voltage THD Trip Lockout Reset	1 to 100 (%)	10	
Voltage THD Trip Time Delay	1 to 3600 (Sec)	60	
Voltage THD Lockout Reset Delay	1 to 3600 (Sec)	50	
Current			
Current THD Trip and Lockout	Enable/Disable	Disable	☐ Enable ☐ Disable
Current THD Trip Pickup	1 to 100 (%)	20	
Current THD Trip Lockout Reset	1 to 100 (%)	10	
Current THD Trip Time Delay	1 to 3600 (Sec)	60	
Current THD Lockout Reset Delay	1 to 3600 (Sec)	50	

Harmonics Record Form (2 of 2)

M-6283A Oscilloscope

SETTING	RANGE	DEFAULT	CUSTOMER SETTING
Number of Partitions	1 to 16	5	
Samples/Cycle	16, 32, 64	32	
Post Trigger delay	5 to 95 (%)	5	
Front Panel Scroll Message	Enable/Disable	Enable	

OSCILLOGRAPH PICKUP/DROPOUT SELECTION

PICKUP	DEFAULT	SETTING	DROPOUT	DEFAULT	SETTING
Close Command	☐	☐ Select	Close Command	☐	☐ Select
Open Command	☐	☐ Select	Open Command	☐	☐ Select
Maximum Voltage Limit	☐	☐ Select	Maximum Voltage Limit	☐	☐ Select
Minimum Voltage Limit	☐	☐ Select	Minimum Voltage Limit	☐	☐ Select
Remote Overvoltage Limit	☐	☐ Select	Remote Overvoltage Limit	☐	☐ Select
Remote Undervoltage Limit	☐	☐ Select	Remote Undervoltage Limit	☐	☐ Select
Neutral Magnitude Unbalance	☐	☐ Select	Neutral Magnitude Unbalance	☐	☐ Select
Neutral Phase Unbalance	☐	☐ Select	Neutral Phase Unbalance	☐	☐ Select
SCADA Heart Beat	☐	☐ Select	SCADA Heart Beat	☐	☐ Select
Voltage Harmonics	☐	☐ Select	Voltage Harmonics	☐	☐ Select
CBEMA 1	☐	☐ Select	CBEMA 1	☐	☐ Select
CBEMA 2	☐	☐ Select	CBEMA 2	☐	☐ Select
CBEMA 3	☐	☐ Select	CBEMA 3	☐	☐ Select
CBEMA 4	☐	☐ Select	CBEMA 4	☐	☐ Select
Delta Voltage Alarm	☐	☐ Select	Delta Voltage Alarm	☐	☐ Select
Bank Failed Level 2	☐	☐ Select	Bank Failed Level 2	☐	☐ Select
Current Harmonics	☐	☐ Select	Current Harmonics	☐	☐ Select
Phase Overcurrent	☐	☐ Select	Phase Overcurrent	☐	☐ Select
Leading VAr	☐	☐ Select	Leading VAr	☐	☐ Select
Lagging VAr	☐	☐ Select	Lagging VAr	☐	☐ Select
Leading Power Factor	☐	☐ Select	Leading Power Factor	☐	☐ Select
Lagging Power Factor	☐	☐ Select	Lagging Power Factor	☐	☐ Select

Oscilloscope Record Form

M-6283A Sequence of Events

SETTING	RANGE	DEFAULT	CUSTOMER SETTING
SOE Final Gate	OR/AND	OR	

SEQUENCE OF EVENTS PICKUP/DROPOUT SELECTION (EDGE SENSITIVE)

PICKUP	DEFAULT	SETTING	DROPOUT	DEFAULT	SETTING
Close Command	☐	☐ Select	Close Command	☐	☐ Select
Open Command	☐	☐ Select	Open Command	☐	☐ Select
Maximum Voltage Limit	☐	☐ Select	Maximum Voltage Limit	☐	☐ Select
Minimum Voltage Limit	☐	☐ Select	Minimum Voltage Limit	☐	☐ Select
Remote Overvoltage Limit	☐	☐ Select	Remote Overvoltage Limit	☐	☐ Select
Remote Undervoltage Limit	☐	☐ Select	Remote Undervoltage Limit	☐	☐ Select
Neutral Magnitude Unbalance	☐	☐ Select	Neutral Magnitude Unbalance	☐	☐ Select
Neutral Phase Unbalance	☐	☐ Select	Neutral Phase Unbalance	☐	☐ Select
SCADA Heart Beat	☐	☐ Select	SCADA Heart Beat	☐	☐ Select
Voltage Harmonics	☐	☐ Select	Voltage Harmonics	☐	☐ Select
CBEMA 1	☐	☐ Select	CBEMA 1	☐	☐ Select
CBEMA 2	☐	☐ Select	CBEMA 2	☐	☐ Select
CBEMA 3	☐	☐ Select	CBEMA 3	☐	☐ Select
CBEMA 4	☐	☐ Select	CBEMA 4	☐	☐ Select
Delta Voltage Alarm	☐	☐ Select	Delta Voltage Alarm	☐	☐ Select
Bank Failed Level 2	☐	☐ Select	Bank Failed Level 2	☐	☐ Select
Current Harmonics	☐	☐ Select	Current Harmonics	☐	☐ Select
Phase Overcurrent	☐	☐ Select	Phase Overcurrent	☐	☐ Select
HMI Active	☐	☐ Select	HMI Active	☐	☐ Select
Leading VAr	☐	☐ Select	Leading VAr	☐	☐ Select
Lagging VAr	☐	☐ Select	Lagging VAr	☐	☐ Select
Leading Power Factor	☐	☐ Select	Leading Power Factor	☐	☐ Select
Lagging Power Factor	☐	☐ Select	Lagging Power Factor	☐	☐ Select

Sequence of Events Record Form (1 of 2)

SEQUENCE OF EVENTS PICKUP/DROPOUT SELECTION (LEVEL SENSITIVE)					
PICKUP	DEFAULT	SETTING	DROPOUT	DEFAULT	SETTING
Close Command	☐	☐ Select	Close Command	☐	☐ Select
Open Command	☐	☐ Select	Open Command	☐	☐ Select
Maximum Voltage Limit	☐	☐ Select	Maximum Voltage Limit	☐	☐ Select
Minimum Voltage Limit	☐	☐ Select	Minimum Voltage Limit	☐	☐ Select
Remote Overvoltage Limit	☐	☐ Select	Remote Overvoltage Limit	☐	☐ Select
Remote Undervoltage Limit	☐	☐ Select	Remote Undervoltage Limit	☐	☐ Select
Neutral Magnitude Unbalance	☐	☐ Select	Neutral Magnitude Unbalance	☐	☐ Select
Neutral Phase Unbalance	☐	☐ Select	Neutral Phase Unbalance	☐	☐ Select
SCADA Heart Beat	☐	☐ Select	SCADA Heart Beat	☐	☐ Select
Voltage Harmonics	☐	☐ Select	Voltage Harmonics	☐	☐ Select
CBEMA 1	☐	☐ Select	CBEMA 1	☐	☐ Select
CBEMA 2	☐	☐ Select	CBEMA 2	☐	☐ Select
CBEMA 3	☐	☐ Select	CBEMA 3	☐	☐ Select
CBEMA 4	☐	☐ Select	CBEMA 4	☐	☐ Select
Delta Voltage Alarm	☐	☐ Select	Delta Voltage Alarm	☐	☐ Select
Bank Failed Level 2	☐	☐ Select	Bank Failed Level 2	☐	☐ Select
Current Harmonics	☐	☐ Select	Current Harmonics	☐	☐ Select
Phase Overcurrent	☐	☐ Select	Phase Overcurrent	☐	☐ Select
HMI Active	☐	☐ Select	HMI Active	☐	☐ Select
Leading VAr	☐	☐ Select	Leading VAr	☐	☐ Select
Lagging VAr	☐	☐ Select	Lagging VAr	☐	☐ Select
Leading Power Factor	☐	☐ Select	Leading Power Factor	☐	☐ Select
Lagging Power Factor	☐	☐ Select	Lagging Power Factor	☐	☐ Select

Sequence of Events Record Form (2 of 2)

M-6283A CBEMA Settings			
SETTING	RANGE	DEFAULT	CUSTOMER SETTING
Normal Voltage	100.0 to 130.0 (V)	120	
CBEMA EVENT 1			
Event 1	Enable/Disable	Enable	☐ Enable ☐ Disable
Sag/Swell Pickup	50 to 130 (%)	70	
Sag/Swell Dropout	50 to 130 (%)	95	
Sag/Swell Minimum Duration	1 to 60 (Cycles)	1	
CBEMA EVENT 2			
Event 2	Enable/Disable	Enable	☐ Enable ☐ Disable
Sag/Swell Pickup	50 to 130 (%)	80	
Sag/Swell Dropout	50 to 130 (%)	95	
Sag/Swell Minimum Duration	1 to 120 (Cycles)	1	
CBEMA EVENT 3			
Event 3	Enable/Disable	Enable	☐ Enable ☐ Disable
Sag/Swell Pickup	50 to 130 (%)	90	
Sag/Swell Dropout	50 to 130 (%)	95	
Sag/Swell Minimum Duration	60 to 60000 (Cycles)	60	
CBEMA EVENT 4			
Event 4	Enable/Disable	Enable	☐ Enable ☐ Disable
Sag/Swell Pickup	50 to 130 (%)	110	
Sag/Swell Dropout	50 to 130 (%)	109	
Sag/Swell Minimum Duration	1 to 60 (Cycles)	1	

CBEMA Settings Record Form

M-6283A Phase Overcurrent

SETTING	RANGE	DEFAULT	CUSTOMER SETTING
Pickup	10 to 20000 (A)	100	
Time Delay	1 to 8160 (Cycles)	10	

M-6283A Delta Voltage Offset Buffer

SETTING	RANGE	DEFAULT	CUSTOMER SETTING
Offset Buffer	0 to 100 (%)	20	

M-6283A Voltage Loss Trip

SETTING	RANGE	DEFAULT	CUSTOMER SETTING
Voltage Loss Trip	Enable/Disable	Disable	☐ Enable ☐ Disable

Phase Overcurrent, Delta Voltage Offset Buffer, and Voltage Loss Trip Settings Record Forms

M-6283A Communication Settings			
SETTING	RANGE	DEFAULT	CUSTOMER SETTING
RS-232 / RS-485 / FIBER			
Comm Port Type	RS-232/RS-485/Fiber	RS-485	
Protocol	DNP3/MODBUS®	DNP3	
Baud Rate	300/ 600/ 1200/ 2400/ 4800/ 9600/ 19200/ 38400/ 57600/ 115200	9600	
Parity	None/Even/Odd	None	
Stop Bit	1/2	1	
Sync Time	1 to 5000 (ms)	2	
TX Delay	1 to 50 (ms)	10	
RS-232 MODULE			
Protocol	MODBUS/DNP3	MODBUS	
Baud Rate	300/ 600/ 1200/ 2400/ 4800/ 9600/ 19200/ 38400/ 57600/ 115200	115200	
Parity	None/Even/Odd	None	
Stop Bit	1/2	2	
Sync Time	1 to 5000 (ms)	50	
TX Delay	1 to 50 (ms)	10	
MODEM IP ADDRESS			
Static IP Address	Enable/Disable	Disable	☐ Enable ☐ Disable
IP Address	N/A	0.0.0.0	
CHANGE COMMUNICATION ADDRESS			
DNP Address	1 to 65519	1	
MODBUS Address	N/A	1	
Substation DNP Address	1 to 65519	0	
Feeder DNP Address	1 to 65519	0	

Communication Settings Record Form (1 of 3)

M-6283A Communication Settings			
SETTING	RANGE	DEFAULT	CUSTOMER SETTING
COMMUNICATION ACCESS SECURITY			
Communication Access and Timeout			
Communication Access	Enable/Disable	Disable	☐ Enable ☐ Disable
Communication Access Timeout	1 to 50000 (Sec)	60	
COMMUNICATION SECURITY			
Radius Configuration			
Radius Configuration	Enable/Disable	Disable	
Secret Key	N/A	N/A	
Primary Server			
IP Address	N/A	0.0.0.0	
Authentication Port	N/A	1812	
Accounting Port	N/A	1813	
Secondary Server			
IP Address	N/A	0.0.0.0	
Authentication Port	N/A	1814	
Accounting Port	N/A	1815	
IPsec Configuration			
IPsec Configuration	Enable/Disable	Disable	
SCADA HEARTBEAT SETTINGS			
Heart Beat Method	Disable/Standard/ Direct	Disable	
SCADA Heart Beat	1 to 300 (Min)	30	

Communication Settings Record Form (2 of 3)

M-6283A Communication Settings			
SETTING	RANGE	DEFAULT	CUSTOMER SETTING
BLUETOOTH® SETTINGS			
Protocol	MODBUS/DNP3	MODBUS	
Mode	MODE0/MODE1	MODE0	
Friendly Name	N/A	M6283A	
Bluetooth Enable	Enable/Disable	Enable	☐ Enable ☐ Disable
Authentication	Enable/Disable	Disable	☐ Enable ☐ Disable
Set Password	N/A	None	
ETHERNET SETTINGS			
Auto Negotiation	Enable/Disable	Disable	☐ Enable ☐ Disable
DHCP Protocol	Enable/Disable	Disable	☐ Enable ☐ Disable
IP Address (DHCP Disabled)	N/A	0.0.0.0	
Net Mask (DHCP Disabled)	N/A	0.0.0.0	
Gateway (DHCP Disabled)	N/A	0.0.0.0	
Keepalive Time	1 to 50000 (Sec)	120	
MODBUS Port	0 to 65535	502	
DNP3.0 Port	0 to 65535	20000	
Network Time Synchronization			
Simple Network Time Protocol	Enable/Disable	Disable	
SNTP Server			
Server Name	N/A	N/A	
IP Address	N/A	N/A	
Time Zone	N/A	GMT -5	

Communication Settings Record Form (3 of 3)



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