



```
00.01: Language: English  
00.02: Password: ****  
00.04: Description: 52-MP-20  
00.05: Plant Reference: 204-MF-02_rev.0  
00.06: Model Number: P241311B2M0600J  
00.08: Serial Number: 690927U  
00.09: Frequency: 60 Hz  
00.0A: Comms Level: 2  
00.0B: Relay Address: 1  
00.0C: Plant Status: 0000000000000010  
00.0D: Control Status: 0000000000000000  
00.0E: Active Group: 1  
00.10: CB Trip/Close: No Operation  
00.11: Software Ref. 1: P241 60C  
00.20: Opto I/P Status: 00000001  
00.21: Relay O/P Status: 00000000  
00.22: Alarm Status 1: 10000000000000000000000001000000100  
00.50: Alarm Status 1: 10000000000000000000000001000000100  
00.51: Alarm Status 2: 0000000000000000000000000000000000  
00.52: Alarm Status 3: 0000000000000000000000000000000000  
00.D0: Access Level: 2  
00.D1: Password Control: 2  
00.D2: Password Level 1: ****  
00.D3: Password Level 2: ****
```

07.01: CB Control by: Disabled

```
08.01: Date/Time:      2019-08-15 11:57:01.636
08.06: Battery Status: Healthy
08.07: Battery Alarm:  Enabled
08.20: LocalTime Enable: Fixed
08.21: LocalTime Offset: 0 min
08.22: DST Enable:     Enabled
08.23: DST Offset:     60.00 min
08.24: DST Start:Last
08.25: DST Start Day:  Sunday
08.26: DST Start Month: March
08.27: DST Start Mins: 60.00 min
08.28: DST End: Last
08.29: DST End Day:    Sunday
08.2A: DST End Month:  October
08.2B: DST End Mins:   60.00 min
```

09.01:	Restore Defaults:	No Operation
09.02:	Setting Group:	Select via Menu
09.03:	Active Settings:	Group 1
09.04:	Save Changes:	No Operation
09.05:	Copy From:	Group 1
09.06:	Copy To:	No Operation
09.07:	Setting Group 1:	Enabled
09.08:	Setting Group 2:	Disabled
09.0B:	Thermal Overload:	Enabled
09.0C:	Short Circuit:	Enabled
09.0D:	Sensitive E/F:	Enabled
09.0E:	Neg Seq O/C:	Enabled
09.0F:	3Ph Volt.Check:	Disabled
09.10:	Derived E/F:	Disabled
09.11:	Neg Seq O/V:	Disabled
09.14:	Stall Detection:	Enabled
09.16:	Residual O/V NVD:	Disabled



Relatório de ficheiro de definições
Subestação:
Ficheiro: P241_52-MP-20_2019-08-15.set

Número de modelo:

09.17: Limit nb Starts: Enabled
09.18: Loss of Load: Disabled
09.19: Out of Step: Disabled
09.1A: Reverse power: Disabled
09.1B: Antibackspin: Disabled
09.1C: Field Failure: Disabled
09.1D: Volt Protection: Enabled
09.1E: Under Frequency: Disabled
09.1F: RTD Inputs: Enabled
09.20: CB Fail: Enabled
09.21: Supervision: Disabled
09.24: System Config: Invisible
09.25: Input Labels: Visible
09.26: Output Labels: Visible
09.27: RTD Labels: Visible
09.28: CT & VT Ratios: Visible
09.29: Record Control: Invisible
09.2A: Disturb Recorder: Visible
09.2B: Measure't Setup: Visible
09.2C: Comms Settings: Visible
09.2D: Commission Tests: Visible
09.2E: Setting Values: Primary
09.2F: Control Inputs: Visible
09.35: Ctrl I/P Config: Invisible
09.36: Ctrl I/P Labels: Invisible
09.39: Direct Access: Enabled
09.FB: RP1 Read Only: Disabled

CT AND VT RATIOS

0A.01: Main VT Primary: 13.80 kV
0A.02: Main VT Sec'y: 120.0 V
0A.07: Phase CT Primary: 150.0 A
0A.08: Phase CT Sec'y: 5.000 A
0A.0B: SEF CT Primary: 50.00 A
0A.0C: SEF CT Secondary: 5.000 A
0A.11: VT Connect. Mode: 2 VT + Residual
0A.12: NVD VT Primary: 110.0 V
0A.13: NVD VT Secondary: 110.0 V

DISTURB RECORDER

0C.01: Duration: 10.00 s
0C.02: TriggerPosition: 30.00 %
0C.03: TriggerMode: Extended
0C.04: AnalogChannel1: IN
0C.05: AnalogChannel2: IN
0C.06: AnalogChannel3: IN
0C.07: AnalogChannel4: IA
0C.08: AnalogChannel5: IB
0C.09: AnalogChannel6: IC
0C.0A: AnalogChannel7: IN
0C.0B: AnalogChannel8: IN
0C.0C: DigitalInput1: Strt in Progress
0C.0D: Input1Trigger: Trigger L/H
0C.0E: DigitalInput2: Trip V<2
0C.0F: Input2Trigger: Trigger L/H
0C.10: DigitalInput3: Relay Label 03
0C.11: Input3Trigger: Trigger L/H
0C.12: DigitalInput4: Relay Label 04
0C.13: Input4Trigger: No trigger
0C.14: DigitalInput5: Relay Label 05
0C.15: Input5Trigger: No trigger
0C.16: DigitalInput6: Relay Label 06
0C.17: Input6Trigger: No trigger



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Número de modelo:

OC.18:	DigitalInput7:	Relay Label 07
OC.19:	Input7Trigger:	No trigger
OC.1A:	DigitalInput8:	Unused
OC.1C:	DigitalInput9:	Unused
OC.1E:	DigitalInput10:	Unused
OC.20:	DigitalInput11:	Unused
OC.22:	DigitalInput12:	Unused
OC.24:	DigitalInput13:	Unused
OC.26:	DigitalInput14:	Unused
OC.28:	DigitalInput15:	Unused
OC.2A:	DigitalInput16:	Unused
OC.2C:	DigitalInput17:	Unused
OC.2E:	DigitalInput18:	Unused
OC.30:	DigitalInput19:	Unused
OC.32:	DigitalInput20:	Unused
OC.34:	DigitalInput21:	Unused
OC.36:	DigitalInput22:	Unused
OC.38:	DigitalInput23:	Unused
OC.3A:	DigitalInput24:	Unused
OC.3C:	DigitalInput25:	Unused
OC.3E:	DigitalInput26:	Unused
OC.40:	DigitalInput27:	Unused
OC.42:	DigitalInput28:	Unused
OC.44:	DigitalInput29:	Unused
OC.46:	DigitalInput30:	Unused
OC.48:	DigitalInput31:	Unused
OC.4A:	DigitalInput32:	Unused
MEASURET SETUP		
OD.01:	Default Display:	3Ph + N Current
OD.02:	Local Values:	Primary
OD.03:	Remote Values:	Primary
OD.04:	Measurement Ref:	VA
OD.06:	Demand Interval:	30.00 min
OD.07:	Alarm Fix Dem.:	Invisible
OD.0A:	Alarm Energies:	Invisible
OD.0F:	Motor Hour Run>1:	Disabled
OD.11:	Motor Hour Run>2:	Disabled
COMMISSION TESTS		
OF.01:	Opto I/P Status:	00000001
OF.02:	Relay O/P Status:	00000000
OF.03:	Test Port Status:	00000000
OF.04:	LED Status:	00000000
OF.05:	Monitor Bit 1:	Relay Label 01
OF.06:	Monitor Bit 2:	Relay Label 02
OF.07:	Monitor Bit 3:	Relay Label 03
OF.08:	Monitor Bit 4:	Relay Label 04
OF.09:	Monitor Bit 5:	Relay Label 05
OF.0A:	Monitor Bit 6:	Relay Label 06
OF.0B:	Monitor Bit 7:	Relay Label 07
OF.0C:	Monitor Bit 8:	Opto Label 01
OF.0D:	Test Mode:	Disable
OF.0E:	Test Pattern:	00000000
OF.0F:	Contact Test:	No operation
OF.10:	Test LEDs:	No operation
OF.30:	DDB 543 - 512:	00000000000000000000000000000000
OF.31:	DDB 575 - 544:	00000000000000000000000000000000
OF.32:	DDB 607 - 576:	00000000000000000000000000000000
OF.33:	DDB 639 - 608:	00000000000000000000000000000000
OF.34:	DDB 671 - 640:	00000000000000000000000000000000
OF.35:	DDB 703 - 672:	00000000000000000000000000000000
OF.36:	DDB 735 - 704:	00000000000000000000000000000000



Relatório de ficheiro de definições
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Número de modelo:

0F.37:	DDB 767 - 736:	00000000000000000000000000000000
0F.38:	DDB 799 - 768:	00000000000000000000000000000000
0F.39:	DDB 831 - 800:	00000000000000000000000000000000
0F.3A:	DDB 863 - 832:	00000000000000000000000000000000
0F.3B:	DDB 895 - 864:	00000000000000000000000000000000
0F.3C:	DDB 927 - 896:	00100000000000000000000000000000
0F.3D:	DDB 959 - 928:	00000000000000000000000000000000
0F.3E:	DDB 991 - 960:	00000000000000000000000000000000
0F.3F:	DDB 1023 - 992:	00000000000000000000000000000000
0F.40:	DDB 1055 - 1024:	00000000000000000000000000000000
0F.41:	DDB 1087 - 1056:	00000000000000000000000000000000
0F.42:	DDB 1119 - 1088:	00000000000000000000000000000000
0F.43:	DDB 1151 - 1120:	00000000000000000000000000000000
0F.44:	DDB 1183 - 1152:	00000000000000000000000000000000
0F.45:	DDB 1215 - 1184:	00000000000000000000000000000000
0F.46:	DDB 1247 - 1216:	00000000000000000000000000000000
0F.47:	DDB 1279 - 1248:	00000000000000000000000000000000
0F.48:	DDB 1311 - 1280:	00000000000000000000000000000000
0F.49:	DDB 1343 - 1312:	00000000000000000000000000000000
0F.4A:	DDB 1375 - 1344:	00000000000000000000000000000000
0F.4B:	DDB 1407 - 1376:	00000000000000000000000000000000
0F.4C:	DDB 1439 - 1408:	00000000000000000000000000000000
0F.4D:	DDB 1471 - 1440:	00000000000000000000000000000000
0F.4E:	DDB 1503 - 1472:	00000000000000000000000000000000
0F.4F:	DDB 1535 - 1504:	00000000000000000000000000000000
0F.50:	DDB 1567 - 1536:	00000000000000000000000000000000
0F.51:	DDB 1599 - 1568:	00000000000000000000000000000000
0F.52:	DDB 1631 - 1600:	00000000000000000000000000000000
0F.53:	DDB 1663 - 1632:	00000000000000000000000000000000
0F.54:	DDB 1695 - 1664:	00000000000000000000000000000000
0F.55:	DDB 1727 - 1696:	00000000000000000000000000000000
0F.56:	DDB 1759 - 1728:	00000000000000000000000000000000
0F.57:	DDB 1791 - 1760:	00000000000000000000000000000000
0F.58:	DDB 1823 - 1792:	00000000000000000000000000000000
0F.59:	DDB 1855 - 1824:	00000000000000000000000000000000
0F.5A:	DDB 1887 - 1856:	00000000000000000000000000000000
0F.5B:	DDB 1919 - 1888:	00000000000000000000000000000000
0F.5C:	DDB 1951 - 1920:	00000000000000000000000000000000
0F.5D:	DDB 1983 - 1952:	00000000000000000000000000000000
0F.5E:	DDB 2015 - 1984:	00000000000000000000000000000000
0F.5F:	DDB 2047 - 2016:	00000000000000000000000000000000
CB MONITOR SETUP		
10.01:	Broken I^:	2.000
10.02:	I^ Maintenance:	Disabled
10.06:	No CB Ops Maint:	Disabled
10.0A:	CB Time Maint:	Disabled
OPTO CONFIG		
11.01:	Global Nominal V:	110/125V
11.50:	Opto Filter Cntl:	11111111
11.80:	Characteristic:	Standard 60%-80%
Group 1		
GROUP 1 THERMAL OVERLOAD		
30.01:	Ith Current Set:	88.50 A
30.02:	K Coefficient:	3
30.03:	Thermal Const T1:	18.00 min
30.04:	Thermal Const T2:	18.00 min
30.05:	Cooling Const Tr:	198.0 min
30.06:	Thermal Trip:	Enabled
30.07:	Thermal Alarm:	Enabled
30.08:	Alarm Threshold:	93.00 %
30.09:	Thermal Lockout:	Enabled



Relatório de ficheiro de definições
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Número de modelo:

.....	30.0A: Lockout Thresh.:	85.00 %
.....	30.0B: Inh.Trip dur St.:	Disabled
.....	30.0C: Thermal Overload:	Thermal Model
.....	GROUP 1 SHORT CIRCUIT	
.....	31.01: I>1 Function:	DT
.....	31.02: I>1 Current Set:	690.0 A
.....	31.03: I>1 Time Delay:	40.00 ms
.....	31.11: I>2 Function:	Disabled
.....	31.21: I>3 Function:	Disabled
.....	31.31: I>4 Function:	Disabled
.....	GROUP 1 SENSITIVE E/F	
.....	32.01: ISEF>1 Function:	DT
.....	32.02: ISEF>1 Direction:	Non Directional
.....	32.03: ISEF>1 Current:	15.00 A
.....	32.04: ISEF>1 T. Delay:	40.00 ms
.....	32.09: ISEF>2 Function:	Disabled
.....	32.10: GROUP 1 WATTMETRIC SEF:	
.....	32.11: P0> Function:	Disabled
.....	GROUP 1 NEG SEQ O/C	
.....	33.01: I2>1 Status:	DT
.....	33.02: I2>1 Current Set:	18.75 A
.....	33.03: I2>1 Time Delay:	3.000 s
.....	33.04: I2>2 Status:	Disabled
.....	GROUP 1 STALL DETECTION	
.....	39.01: Prolonged Start:	Enabled
.....	39.02: Start Criteria:	52a
.....	39.03: Starting Current:	225.0 A
.....	39.04: Prol. Start Time:	5.000 s
.....	39.05: Stall Rotor-strrt:	Disabled
.....	39.06: Stall Detection:	Enabled
.....	39.07: Stall Setting:	225.0 A
.....	39.08: Stall Time:	3.000 s
.....	39.09: Reacceleration:	Enabled
.....	39.0A: Reac. Low V Set:	11.50 kV
.....	39.0B: LV Ride Thru:	Disabled
.....	GROUP 1 LIMIT NB STARTS	
.....	3C.01: Hot Start Status:	Enabled
.....	3C.02: Hot Start Nb.:	1
.....	3C.03: Cold Start Stat.:	Enabled
.....	3C.04: Cold Start Nb.:	3
.....	3C.05: Supervising Time:	60.00 min
.....	3C.06: T.Betw.St.Status:	Disabled
.....	3C.08: Inhib.Start Time:	30.00 min
.....	GROUP 1 VOLT PROTECTION	
.....	42.01: GROUP 1 UNDER VOLTAGE:	
.....	42.02: V< Measur't Mode:	Phase-Phase
.....	42.03: V< Operate Mode:	Three Phase
.....	42.04: V<1 Function:	DT
.....	42.05: V<1 Voltage Set:	3450 V
.....	42.06: V<1 Time Delay:	500.0 ms
.....	42.09: V<2 Status:	DT
.....	42.0A: V<2 Voltage Set:	12.42 kV
.....	42.0B: V<2 Time Delay:	250.0 ms
.....	42.0C: Inhib.During St.:	Disabled
.....	42.0D: GROUP 1 OVERVOLTAGE:	
.....	42.0E: V> Measur't Mode:	Phase-Phase
.....	42.0F: V> Operate Mode:	Any Phase
.....	42.10: V>1 Status:	Disabled
.....	42.14: V>2 Status:	Disabled
.....	GROUP 1 RTD PROTECTION	
.....	44.01: Select RTD:	0000111111



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Número de modelo:

.....	44.03: RTD 1 Alarm Set:	130.0 Cel
.....	44.04: RTD 1 Alarm Dly:	5.000 s
.....	44.05: RTD 1 Trip Set:	155.0 Cel
.....	44.06: RTD 1 Trip Dly:	3.000 s
.....	44.08: RTD 2 Alarm Set:	130.0 Cel
.....	44.09: RTD 2 Alarm Dly:	5.000 s
.....	44.0A: RTD 2 Trip Set:	155.0 Cel
.....	44.0B: RTD 2 Trip Dly:	3.000 s
.....	44.0D: RTD 3 Alarm Set:	130.0 Cel
.....	44.0E: RTD 3 Alarm Dly:	5.000 s
.....	44.0F: RTD 3 Trip Set:	155.0 Cel
.....	44.10: RTD 3 Trip Dly:	3.000 s
.....	44.12: RTD 4 Alarm Set:	130.0 Cel
.....	44.13: RTD 4 Alarm Dly:	5.000 s
.....	44.14: RTD 4 Trip Set:	155.0 Cel
.....	44.15: RTD 4 Trip Dly:	3.000 s
.....	44.17: RTD 5 Alarm Set:	130.0 Cel
.....	44.18: RTD 5 Alarm Dly:	5.000 s
.....	44.19: RTD 5 Trip Set:	155.0 Cel
.....	44.1A: RTD 5 Trip Dly:	3.000 s
.....	44.1C: RTD 6 Alarm Set:	130.0 Cel
.....	44.1D: RTD 6 Alarm Dly:	5.000 s
.....	44.1E: RTD 6 Trip Set:	155.0 Cel
.....	44.1F: RTD 6 Trip Dly:	3.000 s
.....	44.34: Ext.Temp.Influen:	Disabled
.....	44.50: RTD Type:	PT100
.....	44.51: RTD Unit: Celcius	
.....	GROUP 1 CB FAIL	
.....	45.01: GROUP 1 CB FAIL:	
.....	45.02: CB Fail 1 Status:	Disabled
.....	45.08: GROUP 1 UNDER CURRENT:	
.....	45.09: I< Current Set:	9.000 A
.....	GROUP 1 INPUT LABELS	
.....	4A.01: Opto Input 1:	52 Fechado
.....	4A.02: Opto Input 2:	52 Aberto
.....	4A.03: Opto Input 3:	OPTO 3
.....	4A.04: Opto Input 4:	OPTO 4
.....	4A.05: Opto Input 5:	OPTO 5
.....	4A.06: Opto Input 6:	OPTO 6
.....	4A.07: Opto Input 7:	OPTO 7
.....	4A.08: Opto Input 8:	OPTO 8
.....	GROUP 1 OUTPUT LABELS	
.....	4B.01: Relay 1:	50 BF
.....	4B.02: Relay 2:	Desliga sub tens
.....	4B.03: Relay 3:	Trip rele 86
.....	4B.04: Relay 4:	Sel Log 00-MF-24
.....	4B.05: Relay 5:	Sel Log MF-1C
.....	4B.06: Relay 6:	RELAY 6
.....	4B.07: Relay 7:	Bloq fech 52-02
.....	GROUP 1 RTD LABELS	
.....	4C.01: RTD 1:	RTD 1 - FASE R
.....	4C.02: RTD 2:	RTD 2 - FASE S
.....	4C.03: RTD 3:	RTD 3 - FASE T
.....	4C.04: RTD 4:	RTD 4 - FASE R
.....	4C.05: RTD 5:	RTD 5 - FASE S
.....	4C.06: RTD 6:	RTD 6 - FASE T