Settings File Report
Substation:
File: P220 223-MP-01B.set

Model Number:

- OP PARAMETERS
  - 0000: TYPE =: P220-2
  - 010A: REFERENCE =: MF09
  - 0005: SOFTWARE VERSION: 6.A
  - 0104: FREQUENCY =: 60Hz
- CONFIGURATION
  - CONFIG. SELECT
    - 0118: Change Group Input: EDGE
    - 0109: SETTING GROUP: 1
    - 0105: DEFAULT DISPLAY: IB RMS
    - 0106: START DETECTION: 52A
    - 0107: ANALOG OUTPUT: 4-20 mA
    - 0108: DATA TYPE ANALOG: IB RMS
  - CT RATIO
    - 0120: PRIM PH =: 100
    - 0121: SEC PH =: 5
    - 0122: PRIM E =: 50
    - 0123: SEC E =: 5
  - LED 5
    - 0150: LED 5: No
      - ☐ teta ALARM ?
      - ☐ THERM OVERLOAD ?
      - ☐ tI0> ?
      - ☐ tI0>> ?
      - ☐ tI>> ?
      - ☐ tI2> ?
      - ☐ tI2>> ?
      - ☐ tI< ?
      - ☐ EXCES LONG START ?
      - ☐ tIstall ?
      - ☐ LOCKED ROTOR ?
      - ☐ EMERG RESTART ?
      - ☐ FORBIDDEN START ?
      - ☐ EXT 1 ?
      - ☐ EXT 2 ?
      - ☐ MOTOR STOPPED ?
      - ☐ MOTOR RUNNING ?
      - ☐ SUCCESFUL START ?
  - LED 6
    - 0152: LED 6:
      - ☐ teta ALARM ?
      - ☐ THERM OVERLOAD ?
      - ☐ tI0> ?
      - ☐ tI0>> ?
      - ☐ tI>> ?
      - ☐ tI2> ?
      - ☐ tI2>> ?
      - ☐ tI< ?
      - ☐ EXCES LONG START ?
      - ☐ tIstall ?
      - ☐ LOCKED ROTOR ?
      - ☐ EMERG RESTART ?
      - ☒ FORBIDDEN START ?
      - ☐ EXT 1 ?
      - ☐ EXT 2 ?
      - ☐ MOTOR STOPPED ?
      - ☐ MOTOR RUNNING ?
      - ☐ SUCCESFUL START ?
  - LED 7
    - 0154: LED 7: No
      - ☐ teta ALARM ?
      - ☐ THERM OVERLOAD ?
      - ☐ tI0> ?
      - ☐ tI0>> ?

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Model Number:

- ☐ tI>> ?
- ☐ tI2> ?
- ☐ tI2>> ?
- ☐ tI< ?
- ☐ EXCES LONG START ?
- ☐ tIstall ?
- ☐ LOCKED ROTOR ?
- ☐ EMERG RESTART ?
- ☐ FORBIDDEN START ?
- ☐ EXT 1 ?
- ☐ EXT 2 ?
- ☐ MOTOR STOPPED ?
- ☐ MOTOR RUNNING ?
- ☐ SUCCESFUL START ?

LED 8

0156: LED 8:

- ☐ teta ALARM ?
- ☐ THERM OVERLOAD ?
- ☐ tI0> ?
- ☒ tI0>> ?
- ☐ tI>> ?
- ☐ tI2> ?
- ☐ tI2>> ?
- ☐ tI< ?
- ☐ EXCES LONG START ?
- ☐ tIstall ?
- ☐ LOCKED ROTOR ?
- ☐ EMERG RESTART ?
- ☐ FORBIDDEN START ?
- ☐ EXT 1 ?
- ☐ EXT 2 ?
- ☐ MOTOR STOPPED ?
- ☐ MOTOR RUNNING ?
- ☐ SUCCESFUL START ?

LOGIQ INPUTS

0114: Pulse up:

- ☒ Input 1
- ☒ Input 2
- ☒ Input 3
- ☒ Input 4
- ☒ Input 5

PROTECTION G1

[49] THERMAL OVERLOAD

0200: THERMAL OVERLOAD FUNCT ?: YES
0201: teta INHIBIT ?: NO
0202: Iteta> =: 0.64In
0203: Ke =: 3
0204: Te1 =: 29mn
0205: Te2 =: 29mn
0206: Tr =: 234mn
0208: teta ALARM ?: YES
0209: teta ALARM =: 90%
020A: teta FORBID START ?: YES
020B: teta FORBID START =: 80%

[50/51] SHORT-CIRCUIT

0210: I>> FUNCTION ?: YES
0211: I>> =: 5.5In
0212: tI>> =: 0.00s

[50N/51N] EARTH FAULT

0220: I0> FUNCTION ?: NO
0223: I0>> FUNCTION ?: YES
0224: I0>> =: 0.300Ien
0225: tI0>> =: 0.05s

[46] UNBALANCE

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Model Number:

- 0230: I2> FUNCTION ?: YES
- 0231: I2> =: 0.125In
- 0232: tI2> =: 3.00s
- 0233: I2>> FUNCTION: NO
- [48] EXCES LONG START
  - 0240: EXCES LONG START FUNCT ?: YES
  - 0241: Istart DETECTION =: 2.0Ith
  - 0242: tIstart =: 4s
- [51LR-51S] BLOCK ROTOR
  - 0244: BLOCKED ROTOR FUNCT ?: YES
  - 0245: tIstall =: 2.0s
  - 0246: STALLED ROTOR ?: YES
  - 0247: Istall DETECTION =: 2.0Ith
  - 0248: LOCK ROTOR AT START ?: NO
- [37] LOSS OF LOAD
  - 0250: I< FUNCTION ?: NO

PROTECTION G2

- [49] THERMAL OVERLOAD
  - 0300: THERMAL OVERLOAD FUNCT ?: NO
- [50/51] SHORT-CIRCUIT
  - 0310: I>> FUNCTION ?: NO
- [50N/51N] EARTH FAULT
  - 0320: I0> FUNCTION ?: NO
  - 0323: I0>> FUNCTION ?: NO
- [46] UNBALANCE
  - 0330: I2> FUNCTION ?: NO
  - 0333: I2>> FUNCTION: NO
- [48] EXCES LONG START
  - 0340: EXCES LONG START FUNCT ?: NO
- [51LR-51S] BLOCK ROTOR
  - 0344: BLOCKED ROTOR FUNCT ?: NO
- [37] LOSS OF LOAD
  - 0350: I< FUNCTION ?: NO

AUTOMAT. CTRL

- [66] START NUMBER
  - 01D3: START NB LIMITAT FUNCT ?: YES
  - 01D4: Treference =: 60mn
  - 01D5: HOT START NB =: 2
  - 01D6: COLD START NB =: 3
  - 01D7: Tinterdiction =: 30mn
- MIN TIME BETW 2 START
  - 01D8: TIME BETW START FUNCT ?: NO
- REACCEL AUTHORIZ
  - 01DA: REACCEL AUTHORIZ FUNCT ?: NO
- INPUTS
  - 0160: INPUT 3 =: No
    - ☐ EMERG_ST.
    - ☐ SET GROUP
    - ☐ VOLT._DIP
    - ☐ DIST TRIG
    - ☐ EXT RESET
    - ☐ EXT 1
    - ☐ EXT 2
    - ☐ EXT 3
    - ☐ EXT 4
  - 0161: INPUT 4 =: No
    - ☐ EMERG_ST.
    - ☐ SET GROUP
    - ☐ VOLT._DIP
    - ☐ DIST TRIG
    - ☐ EXT RESET
    - ☐ EXT 1

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Model Number:

- ☐ EXT 2
- ☐ EXT 3
- ☐ EXT 4

0162: INPUT 5 =: No

- ☐ EMERG_ST.
- ☐ SET GROUP
- ☐ VOLT._DIP
- ☐ DIST TRIG
- ☐ EXT RESET
- ☐ EXT 1
- ☐ EXT 2
- ☐ EXT 3
- ☐ EXT 4

01E5: EXT 1 =: 0.00s
01E6: EXT 2 =: 0.00s
01EA: EXT 3 =: 0.00s
01EB: EXT 4 =: 0.00s

AND LOGIC EQUAT

01A0: THERM OV.: No

- ☐ And logic equation A
- ☐ And logic equation B
- ☐ And logic equation C
- ☐ And logic equation D

01A1: teta ALARM: No

- ☐ And logic equation A
- ☐ And logic equation B
- ☐ And logic equation C
- ☐ And logic equation D

01A2: teta FORBID. START: No

- ☐ And logic equation A
- ☐ And logic equation B
- ☐ And logic equation C
- ☐ And logic equation D

01A7: I>>: No

- ☐ And logic equation A
- ☐ And logic equation B
- ☐ And logic equation C
- ☐ And logic equation D

01A8: tI>>: No

- ☐ And logic equation A
- ☐ And logic equation B
- ☐ And logic equation C
- ☐ And logic equation D

01A3: I0>: No

- ☐ And logic equation A
- ☐ And logic equation B
- ☐ And logic equation C
- ☐ And logic equation D

01A4: tI0>: No

- ☐ And logic equation A
- ☐ And logic equation B
- ☐ And logic equation C
- ☐ And logic equation D

01A5: I0>>: No

- ☐ And logic equation A
- ☐ And logic equation B
- ☐ And logic equation C
- ☐ And logic equation D

01A6: tI0>>: No

- ☐ And logic equation A
- ☐ And logic equation B
- ☐ And logic equation C
- ☐ And logic equation D

01A9: tI2>: No

- ☐ And logic equation A

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Substation:
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Model Number:

- ☐ And logic equation B
- ☐ And logic equation C
- ☐ And logic equation D

01AA: tI2>>: No
- ☐ And logic equation A
- ☐ And logic equation B
- ☐ And logic equation C
- ☐ And logic equation D

01AB: EXCEX LG START: No
- ☐ And logic equation A
- ☐ And logic equation B
- ☐ And logic equation C
- ☐ And logic equation D

01AC: tIstall: No
- ☐ And logic equation A
- ☐ And logic equation B
- ☐ And logic equation C
- ☐ And logic equation D

01AD: LOCKED ROTOR: No
- ☐ And logic equation A
- ☐ And logic equation B
- ☐ And logic equation C
- ☐ And logic equation D

01AE: tI<: No
- ☐ And logic equation A
- ☐ And logic equation B
- ☐ And logic equation C
- ☐ And logic equation D

01AF: START NB LIMIT: No
- ☐ And logic equation A
- ☐ And logic equation B
- ☐ And logic equation C
- ☐ And logic equation D

01B0: Tbetw 2 start: No
- ☐ And logic equation A
- ☐ And logic equation B
- ☐ And logic equation C
- ☐ And logic equation D

01BF: EXT 1: No
- ☐ And logic equation A
- ☐ And logic equation B
- ☐ And logic equation C
- ☐ And logic equation D

01C0: EXT 2: No
- ☐ And logic equation A
- ☐ And logic equation B
- ☐ And logic equation C
- ☐ And logic equation D

01C2: EXT 3: No
- ☐ And logic equation A
- ☐ And logic equation B
- ☐ And logic equation C
- ☐ And logic equation D

01C3: EXT 4: No
- ☐ And logic equation A
- ☐ And logic equation B
- ☐ And logic equation C
- ☐ And logic equation D

01C1: SUCCESS START: No
- ☐ And logic equation A
- ☐ And logic equation B
- ☐ And logic equation C
- ☐ And logic equation D

AND LOGIC EQUAT T DELAY

01F0: EQU. A Toperat =: 0.0s

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Substation:
File: P220 223-MP-01B.set

Model Number:

- 01F1: EQU. A Treset =: 0.0s
- 01F2: EQU. B Toperat =: 0.0s
- 01F3: EQU. B Treset =: 0.0s
- 01F4: EQU. C Toperat =: 0.0s
- 01F5: EQU. C Treset =: 0.0s
- 01F6: EQU. D Toperat =: 0.0s
- 01F7: EQU. D Treset =: 0.0s

AUX OUTPUT RLY

- 0170: THERM OV.: No
  - ☐ Logical output 2
  - ☐ Logical output 3
  - ☐ Logical output 4
  - ☐ Logical output 5
- 0171: teta ALARM: No
  - ☐ Logical output 2
  - ☐ Logical output 3
  - ☐ Logical output 4
  - ☐ Logical output 5
- 0172: teta FORBID. START:
  - ☐ Logical output 2
  - ☒ Logical output 3
  - ☐ Logical output 4
  - ☐ Logical output 5
- 0177: I>>:
  - ☐ Logical output 2
  - ☐ Logical output 3
  - ☒ Logical output 4
  - ☒ Logical output 5
- 0178: tI>>: No
  - ☐ Logical output 2
  - ☐ Logical output 3
  - ☐ Logical output 4
  - ☐ Logical output 5
- 0173: I0>: No
  - ☐ Logical output 2
  - ☐ Logical output 3
  - ☐ Logical output 4
  - ☐ Logical output 5
- 0174: tI0>: No
  - ☐ Logical output 2
  - ☐ Logical output 3
  - ☐ Logical output 4
  - ☐ Logical output 5
- 0175: I0>>:
  - ☐ Logical output 2
  - ☐ Logical output 3
  - ☒ Logical output 4
  - ☒ Logical output 5
- 0176: tI0>>: No
  - ☐ Logical output 2
  - ☐ Logical output 3
  - ☐ Logical output 4
  - ☐ Logical output 5
- 0179: tI2>: No
  - ☐ Logical output 2
  - ☐ Logical output 3
  - ☐ Logical output 4
  - ☐ Logical output 5
- 017A: tI2>>: No
  - ☐ Logical output 2
  - ☐ Logical output 3
  - ☐ Logical output 4
  - ☐ Logical output 5
- 017B: EXCES LG START: No
  - ☐ Logical output 2

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Model Number:

- ☐ Logical output 3
- ☐ Logical output 4
- ☐ Logical output 5

017C: tIstall: No
- ☐ Logical output 2
- ☐ Logical output 3
- ☐ Logical output 4
- ☐ Logical output 5

017D: LOCKED ROTOR: No
- ☐ Logical output 2
- ☐ Logical output 3
- ☐ Logical output 4
- ☐ Logical output 5

017E: tI<: No
- ☐ Logical output 2
- ☐ Logical output 3
- ☐ Logical output 4
- ☐ Logical output 5

017F: START NB LIMIT:
- ☐ Logical output 2
- ☒ Logical output 3
- ☐ Logical output 4
- ☐ Logical output 5

0180: T betw 2 start: No
- ☐ Logical output 2
- ☐ Logical output 3
- ☐ Logical output 4
- ☐ Logical output 5

018F: EXT 1: No
- ☐ Logical output 2
- ☐ Logical output 3
- ☐ Logical output 4
- ☐ Logical output 5

0190: EXT 2: No
- ☐ Logical output 2
- ☐ Logical output 3
- ☐ Logical output 4
- ☐ Logical output 5

019D: EXT 3: No
- ☐ Logical output 2
- ☐ Logical output 3
- ☐ Logical output 4
- ☐ Logical output 5

019E: EXT 4: No
- ☐ Logical output 2
- ☐ Logical output 3
- ☐ Logical output 4
- ☐ Logical output 5

0191: CLOSE ORDER: No
- ☐ Logical output 2
- ☐ Logical output 3
- ☐ Logical output 4
- ☐ Logical output 5

0192: TRIP ORDER: No
- ☐ Logical output 2
- ☐ Logical output 3
- ☐ Logical output 4
- ☐ Logical output 5

0193: ORDER 1: No
- ☐ Logical output 2
- ☐ Logical output 3
- ☐ Logical output 4
- ☐ Logical output 5

0194: ORDER 2: No
- ☐ Logical output 2

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Model Number:

- ☐ Logical output 3
- ☐ Logical output 4
- ☐ Logical output 5

0195: SUCCESS START: No
- ☐ Logical output 2
- ☐ Logical output 3
- ☐ Logical output 4
- ☐ Logical output 5

0196: t EQU.A: No
- ☐ Logical output 2
- ☐ Logical output 3
- ☐ Logical output 4
- ☐ Logical output 5

0197: t EQU.B: No
- ☐ Logical output 2
- ☐ Logical output 3
- ☐ Logical output 4
- ☐ Logical output 5

0198: t EQU.C: No
- ☐ Logical output 2
- ☐ Logical output 3
- ☐ Logical output 4
- ☐ Logical output 5

0199: t EQU.D: No
- ☐ Logical output 2
- ☐ Logical output 3
- ☐ Logical output 4
- ☐ Logical output 5

019A: SW OPER TIME: No
- ☐ Logical output 2
- ☐ Logical output 3
- ☐ Logical output 4
- ☐ Logical output 5

019B: SW OPER NB: No
- ☐ Logical output 2
- ☐ Logical output 3
- ☐ Logical output 4
- ☐ Logical output 5

019C: SAn: No
- ☐ Logical output 2
- ☐ Logical output 3
- ☐ Logical output 4
- ☐ Logical output 5

016F: Active group: No
- ☐ Logical output 2
- ☐ Logical output 3
- ☐ Logical output 4
- ☐ Logical output 5

TRIP OUTPUT RLY

01D0: TRIP RLY SETTINGS:
- ☐ tI>> ?
- ☐ tI0> ?
- ☒ tI0>> ?
- ☒ tI2> ?
- ☐ tI< ?
- ☒ THERM OVERLOAD ?
- ☒ EXCES LONG START ?
- ☒ tIbloq ?
- ☐ LOCKED ROTOR ?

01D1: TRIP RLY SETTINGS 2: No
- ☐ tI2>> ?
- ☐ EXT 1 ?
- ☐ EXT 2 ?
- ☐ EQUATION A ?
- ☐ EQUATION B ?

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- ☐ EQUATION C ?
- ☐ EQUATION D ?

LATCH TRIP ORDER
- 01D2: LATCH TRIP ORDER: No
- ☐ LATCH tI>>
- ☐ LATCH tI0>>
- ☐ LATCH tI2>>
- ☐ LATCH EQU. A?
- ☐ LATCH EQU. B?
- ☐ LATCH EQU. C?
- ☐ LATCH EQU. D?

SW SUPERVISION
- 01DC: SW OPERATING TIME ?: NO
- 01DE: SW OPERATION NB ?: YES
- 01DF: SW OPERATION NB =: 20
- 01E0: SAn ?: NO
- 01E3: TRIP T =: 1.00s
- 01E4: CLOSE T =: 1.00s

LATCH OUTPUT RLY
- 0115: Latch: No
- ☐ Output 2
- ☐ Output 3
- ☐ Output 4
- ☐ Output 5

RECORD

FAULT RECORD
- 010C: FAULT NUMBER: 5

DISTURB RECORD
- 01E7: PRE-TIME =: 2.5s
- 01E8: POST-TIME =: 0.5s
- 01E9: DISTURB REC TRIG =: ON TRIP