

# INT69 PYF Diagnose



## Parameter table 20 A 721 P081

Parameters can be read using Function code 3 (Read Holding Register)

### INT69 PYF Diagnose

| Parameter                                | Range   | Default     | Unit     | Modbus  |                         | Multiplier | Divisor |
|--|---|-------------|----------|---------|-------------------------|------------|---------|
|  |   |             |          | Address | Data type               |            |         |
| Device                                   |   |             |          |         |                         |            |         |
| Password parameterization via DP         | 0=Disabled...65535  | 0=Disabled  |          |         |                         |            |         |
| Engine temperature                       |   |             |          |         |                         |            |         |
| Sensor type                              | Disabled; Pt100; Pt1000; PTC; Bimetal; External relay contact | PTC         |          | 9096    | Enumeration             | 1          | 1       |
| Motor temperature trip point temperature | -100...300  | 140         | °C       | 8862    | s 16offset              | 1          | 100     |
| Warning temperature                      | -100...300  | 110         | °C       | 8863    | s 16offset              | 1          | 100     |
| Hysteresis                               | 0...300   | 30          | K        | 8864    | s 16offset              | 1          | 100     |
| Trip delay                               | 00:00.1...59:59.9   | 00:00.1     | mm:ss.f  | 8851    | u 16bit                 | 1          | 10      |
| Reset delay                              | 00:00:00...18:12:14; locked                                   | locked      | hh:mm:ss | 8852    | u 16bit; 65535 = locked | 1          | 1       |
| Line correction                          | 0.0...100.0   | 0.0         | Ω        | 8865    | u 16bit                 | 1          | 10      |
| Designation external relay contact       | 0...40 character  | Bezeichnung |          | 9097    | Text                    | 1          | 1       |
| Temperature 1                            |   |             |          |         |                         |            |         |
| Sensor type                              | Disabled; Pt100; Pt1000; PTC                                  | Pt100       |          | 8866    | Enumeration             | 1          | 1       |
| Trip point temperature                   | -100...300  | 150         | °C       | 8878    | s 16offset              | 1          | 100     |
| Warning point temperature                | -100...300  | 130         | °C       | 8879    | s 16offset              | 1          | 100     |
| hysteresis                               | 0...300   | 30          | K        | 8880    | s 16offset              | 1          | 100     |
| Trip delay                               | 00:00.1...59:59.9   | 01:00.0     | mm:ss.f  | 8867    | u 16bit                 | 1          | 10      |
| Reset delay                              | 00:00:00...18:12:14; locked                                   | 00:00:00    | hh:mm:ss | 8868    | u 16bit; 65535 = locked | 1          | 1       |
| Line correction                          | 0.0...100.0   | 0.0         | Ω        | 8881    | u 16bit                 | 1          | 10      |
| Temperature 2                            |   |             |          |         |                         |            |         |
| Sensor type                              | Disabled; Pt100; Pt1000; PTC                                  | Pt100       |          | 8882    | Enumeration             | 1          | 1       |

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|------------------------|---|------------------|----------|---------|--------------------------|------------|---------|
|                        |   |                  |          | Address | Data type                |            |         |
| trip point temperature | -100...300                                      | 150              | °C       | 8894    | s 16offset               | 1          | 100     |
| warning temperature    | -100...300                                      | 130              | °C       | 8895    | s 16offset               | 1          | 100     |
| hysteresis             | 0...300   | 30               | K        | 8896    | s 16offset               | 1          | 100     |
| Trip delay             | 00:00.1...59:59.9                               | 01:00.0          | mm:ss.f  | 8883    | u 16bit                  | 1          | 10      |
| Reset delay            | 00:00:00...18:12:14; locked                     | 00:00:00         | hh:mm:ss | 8884    | u 16bit; 65535 = locked  | 1          | 1       |
| Line correction        | 0.0...100.0                                     | 0.0              | Ω        | 8897    | u 16bit                  | 1          | 10      |
| Leakage 1              |   |                  |          |         |                          |            |         |
| Operating mode         | Disabled; Exceed resistance; Resistance below   | Resistance below |          | 8898    | Enumeration              | 1          | 1       |
| Trip point value       | 10...1000                                       | 60               | kΩ       | 8901    | u 16bit                  | 1          | 1       |
| Warning value          | 10...1000                                       | 75               | kΩ       | 8902    | u 16bit                  | 1          | 1       |
| hysteresis             | 10...999  | 10               | kΩ       | 8903    | u 16bit                  | 1          | 1       |
| Trip delay             | 00:00.1...59:59.9                               | 01:00.0          | mm:ss.f  | 8899    | u 16bit                  | 1          | 10      |
| Reset delay            | 00:00:00...18:12:14; locked                     | 00:00:00         | hh:mm:ss | 8900    | u 16bit; 65535 = locked  | 1          | 1       |
| Switching input 1      |   |                  |          |         |                          |            |         |
| Operating mode         | Disabled; Normally closed; Normally open; Reset | Normally closed  |          | 9098    | Enumeration              | 1          | 1       |
| Reset delay            | 00:00:00...18:12:14; locked                     | 00:00:00         | hh:mm:ss | 9099    | u 16bit; 65535 = locked  | 1          | 1       |
| Designation            | 0...40 character                                | Bezeichnung      |          | 9101    | Text                     | 1          | 1       |
| Analog input 1         |   |                  |          |         |                          |            |         |
| Operation mode         | Disabled; Exceed; Falling below                 | Disabled         |          | 8946    | Enumeration              | 1          | 1       |
| Base current           | 0=Disabled...19.9                               | 4.0              | mA       | 8947    | u 16bit; 0 = deactivated | 1          | 10      |
| Trip point value       | 0.1...19.9                                      | 15.2             | mA       | 8950    | u 16bit                  | 1          | 10      |
| Warning value          | 0.1...19.9                                      | 12.8             | mA       | 8951    | u 16bit                  | 1          | 10      |
| Hysteresis             | 0.1...19.9                                      | 2.0              | mA       | 8952    | u 16bit                  | 1          | 10      |
| Trip delay             | 00:00.1...59:59.9                               | 02:00.0          | mm:ss.f  | 8948    | u 16bit                  | 1          | 10      |
| Reset delay            | 00:00:00...18:12:14; locked                     | 00:00:00         | hh:mm:ss | 8949    | u 16bit; 65535 = locked  | 1          | 1       |
| Conversion value min   | -500.0...5999.9                                 | 0.0              |          | 8953    | s 500,0offset            | 1          | 10      |
| Conversion value max   | -499.9...6000.0                                 | 20.0             |          | 8983    | s 500,0offset            | 1          | 10      |

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|--|---|------------------------|----------|---------|-------------------------|------------|---------|
|  |   |                        |          | Address | Data type               |            |         |
| Conversion unit                        | 0..8 character  | mm/s                   |          | 9173    | Text                    | 1          | 1       |
| Time to surveillance                   | 00:00.5...49:13.5                                       | 00:03.0                | mm:ss.f  | 8995    | u 16bit                 | 1          | 10      |
| Voltage monitoring                     |   |                        |          |         |                         |            |         |
| Phase shape operation mode             | Sinusoidal operation; FC operation                      | Sinusoidal operation   |          | 9121    | Enumeration             | 1          | 1       |
| Operating mode                         | Disabled; Monitoring of 3 phases; Monitoring of 1 phase | Monitoring of 3 phases |          | 9140    | Enumeration             | 1          | 1       |
| Missing phase operation mode           | Disabled; Active  | Active                 |          | 8918    | Enumeration             | 1          | 1       |
| Phase failure reset point value        | 0...100   | 75                     | %        | 8919    | u 16bit                 | 1          | 1       |
| Phase failure reset delay              | 00:00:00...18:12:14; locked                             | 00:00:00               | hh:mm:ss | 8921    | u 16bit; 65535 = locked | 1          | 1       |
| Voltage imbalance operation mode       | Disabled; Active  | Active                 |          | 8927    | Enumeration             | 1          | 1       |
| Voltage imbalance trip point - alarm   | 1...100   | 15                     | %        | 8928    | u 16bit                 | 1          | 1       |
| Voltage imbalance trip point - warning | 1...100   | 10                     | %        | 8929    | u 16bit                 | 1          | 1       |
| Phase asymmetry hysteresis             | 1...99  | 5                      | %        | 8930    | u 16bit                 | 1          | 1       |
| Phase asymmetry trip delay             | 00:00.1...59:59.9                                       | 00:00.3                | mm:ss.f  | 9174    | u 16bit                 | 1          | 10      |
| Phase asymmetry reset delay            | 00:00:00...18:12:14; locked                             | 00:00:00               | hh:mm:ss | 8931    | u 16bit; 65535 = locked | 1          | 1       |
| FC monitoring operation mode           | Disabled; Active  | Active                 |          | 9122    | Enumeration             | 1          | 1       |
| FC monitoring trip delay               | 00:00.1...59:59.9                                       | 00:00.3                | mm:ss.f  | 9175    | u 16bit                 | 1          | 10      |
| Phase sequence operation mode          | Disabled; Active  | Active                 |          | 8923    | Enumeration             | 1          | 1       |
| FC reset delay                         | 0:00:00...18:12:14; locked                              | 0:00:00                | h:mm:ss  | 9127    | u 16bit; 65535 = locked | 1          | 1       |
| Undervoltage monitoring                |   |                        |          |         |                         |            |         |
| Operating mode                         | Disabled; Limit 1 Warning; Limit 1 shutdown             | Limit 1 Warning        |          | 8982    | Enumeration             | 1          | 1       |
| Undervoltage limit 1                   | 1...400   | 207                    | V        | 8941    | u 16bit                 | 1          | 1       |
| Undervoltage limit 2                   | 1...400   | 195                    | V        | 8940    | u 16bit                 | 1          | 1       |
| Undervoltage hysteresis                | 1...399   | 20                     | V        | 8942    | u 16bit                 | 1          | 1       |
| Undervoltage trip delay limit 1        | 00:00.1...59:59.9                                       | 00:03.0                | mm:ss.f  | 9177    | u 16bit                 | 1          | 10      |
| Undervoltage trip delay limit 2        | 00:00.1...59:59.9                                       | 00:03.0                | mm:ss.f  | 9178    | u 16bit                 | 1          | 10      |
| Undervoltage reset delay               | 00:00:00...18:12:14; locked                             | 00:00:00               | hh:mm:ss | 8943    | u 16bit; 65535 = locked | 1          | 1       |
| Overvoltage monitoring                 |   |                        |          |         |                         |            |         |

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|----------------------------------|---|-----------------|----------|---------|-------------------------|------------|---------|
|                                  |   |                 |          | Address | Data type               |            |         |
| Operating mode                   |   |                 |          |         |                         |            |         |
| Operating mode                   | Disabled; Limit 1 Warning; Limit 1 shutdown | Limit 1 Warning |          | 8933    | Enumeration             | 1          | 1       |
| Overvoltage limit 1              | 1...400                                     | 253             | V        | 8935    | u 16bit                 | 1          | 1       |
| Overvoltage limit 2              | 1...400                                     | 265             | V        | 8934    | u 16bit                 | 1          | 1       |
| Overvoltage hysteresis           | 1...399                                     | 20              | V        | 8936    | u 16bit                 | 1          | 1       |
| Overvoltage trip delay limit 1   | 00:00.1...59:59.9                           | 00:03.0         | mm:ss.f  | 9179    | u 16bit                 | 1          | 10      |
| Overvoltage trip delay limit 2   | 00:00.1...59:59.9                           | 00:03.0         | mm:ss.f  | 9180    | u 16bit                 | 1          | 10      |
| Overvoltage reset delay          | 00:00:00...18:12:14; locked                 | 00:00:00        | hh:mm:ss | 8937    | u 16bit; 65535 = locked | 1          | 1       |
| Current transformer input 1      |   |                 |          |         |                         |            |         |
| Operating mode                   | Disabled; Exceed; Falling below             | Exceed          |          | 9102    | Enumeration             | 1          | 1       |
| Trip point                       | 1.00...250.00                               | 10.00           | A        | 9103    | u 16bit                 | 1          | 100     |
| warning value                    | 1.00...250.00                               | 8.00            | A        | 9104    | u 16bit                 | 1          | 100     |
| Hysteresis                       | 0.10...50.00                                | 2.00            | A        | 9105    | u 16bit                 | 1          | 100     |
| Trip delay                       | 00:00.1...59:59.9                           | 00:00.1         | mm:ss.f  | 9138    | u 16bit                 | 1          | 10      |
| Reset delay                      | 00:00:00...18:12:14; locked                 | locked          | hh:mm:ss | 9139    | u 16bit; 65535 = locked | 1          | 1       |
| Transmission ratio transformer   | 500...12500                                 | 2500            |          | 9109    | u 16bit                 | 1          | 1       |
| Windings through transformer     | 1...10                                      | 5               |          | 9128    | u 16bit                 | 1          | 1       |
| Start-up delay time              | 00:00.5...59:59.9                           | 00:00.5         | mm:ss.f  | 9181    | u 16bit                 | 1          | 10      |
| cosφ monitoring                  |   |                 |          |         |                         |            |         |
| Operating mode                   | Disabled; Exceed; Falling below             | Disabled        |          | 9112    | Enumeration             | 1          | 1       |
| Trip point                       | 0.01...1.00                                 | 0.60            |          | 9113    | u 16bit                 | 1          | 100     |
| Warning value                    | 0.01...1.00                                 | 0.80            |          | 9114    | u 16bit                 | 1          | 100     |
| Hysteresis                       | 0.01...0.99                                 | 0.20            |          | 9115    | u 16bit                 | 1          | 100     |
| Trip delay                       | 00:00.1...59:59.9                           | 01:00.0         | mm:ss.f  | 9117    | u 16bit                 | 1          | 10      |
| Reset delay                      | 00:00:00...18:12:14; locked                 | 00:00:00        | hh:mm:ss | 9116    | u 16bit; 65535 = locked | 1          | 1       |
| Start-up override                | 00:00.5...59:59.9                           | 00:00.5         | mm:ss.f  | 9182    | u 16bit                 | 1          | 10      |
| Switching frequency overstepping |   |                 |          |         |                         |            |         |
| Operating mode                   | Disabled; Warning; Alarm                    | Disabled        |          | 8991    | Enumeration             | 1          | 1       |

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| Parameter                 | Range                                     | Default                   | Unit     | Modbus  |                         | Multiplier | Divisor |
|---------------------------|---|---------------------------|----------|---------|-------------------------|------------|---------|
|                           |   |                           |          | Address | Data type               |            |         |
| Time window               | 00:00:01...12:00:00                       | 00:00:30                  | hh:mm:ss | 8994    | u 16bit                 | 1          | 1       |
| Switching per time window | 2...10                                    | 3                         |          | 8993    | u 16bit                 | 1          | 1       |
| Reset delay               | 00:00:00...18:12:14; locked               | locked                    | hh:mm:ss | 8992    | u 16bit; 65535 = locked | 1          | 1       |
| Service interval          |   |                           |          |         |                         |            |         |
| Status                    | Disabled; restart; Active; Expired        | Disabled                  |          | 8988    | Enumeration             | 1          | 1       |
| Service interval duration | 100...26280                               | 24000                     | h        | 8989    | u 16bit                 | 1          | 1       |
| Warning relay             |   |                           |          |         |                         |            |         |
| Operating mode            | Disabled; all warnings; selected warnings | all warnings              |          | 9110    | Enumeration             | 1          | 1       |
|                           | Bit 00: Engine temperature;               | Engine temperature        |          |         |                         |            |         |
|                           | Bit 01: Temperature 1;                    | Temperature 1             |          |         |                         |            |         |
|                           | Bit 02: Temperature 2;                    | Temperature 2             |          |         |                         |            |         |
|                           | Bit 03: Leakage;                          | Leakage                   |          |         |                         |            |         |
|                           | Bit 04: Free;                             | -                         |          |         |                         |            |         |
|                           | Bit 05: Asymmetry;                        | Asymmetry                 |          |         |                         |            |         |
|                           | Bit 06: Undervoltage;                     | Undervoltage              |          |         |                         |            |         |
|                           | Bit 07: Overvoltage;                      | Overvoltage               |          |         |                         |            |         |
|                           | Bit 08: FC monitoring;                    | -                         |          |         |                         |            |         |
|                           | Bit 09: Current transformer input;        | Current transformer input |          |         |                         |            |         |
|                           | Bit 10: Analog input;                     | Analog input              |          |         |                         |            |         |
|                           | Bit 11: Switching frequency;              | -                         |          |         |                         |            |         |
|                           | Bit 12: Relay bypass;                     | -                         |          |         |                         |            |         |
|                           | Bit 13: Cosφ monitoring;                  | -                         |          |         |                         |            |         |
| Selection                 | Bit 14: Service interval;                 | -                         |          | 9111    | Enumeration             | 1          | 1       |
| Modbus                    |   |                           |          |         |                         |            |         |
| Address                   | 1...247                                   | 1                         |          | 9042    | u 16bit                 | 1          | 1       |
| Baudrate                  | 9600; 19200; 38400; 57600                 | 19200                     |          | 9043    | Enumeration             | 1          | 1       |
| Stop bit                  | one; two                                  | two                       |          | 9045    | Enumeration             | 1          | 1       |

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| Parameter | Range           | Default | Unit | Modbus  |             | Multiplier | Divisor |
|-----------|-----------------|---------|------|---------|-------------|------------|---------|
|           |                 |         |      | Address | Data type   |            |         |
| Parity    | none; even; odd | none    |      | 9044    | Enumeration | 1          | 1       |

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