

# INT69 PYF Diagnose



## Parameter table 22 A 721 P081

Parameters can be read with function code 3 (Read Holding Register) and written with function code 6 (Write single register).

### INT69 PYF Diagnose

Parameter	Range	Default	Unit	Address	Data type	Modbus	Multiplier	Divisor
<b>Engine temperature</b>								
Sensor type	Disabled, Pt100, Pt1000, PTC, Bimetal, External relay contact	PTC		9096	Enumeration		1	1
Designation	0...40 character	Designation		8301	Text		1	1
Motor temperature trip point temperature	-100...300	140	°C	8862	signed 16bit, offset		1	100
Warning temperature	-100...300	110	°C	8863	signed 16bit, offset		1	100
Hysteresis	0...300	30	K	8864	signed 16bit, offset		1	100
Trip delay	00:00.1...59:59.9	00:00.1	mm:ss.f	8851	unsigend 16bit		1	10
Reset delay	00:00:00...18:12:14, locked	locked	hh:mm:ss	8852	unsigned 16bit, 65535 = locked		1	1
Line correction	0.0...100.0	0.0	‰	8865	unsigend 16bit		1	10
Designation external relay contact	0...40 character	Designation external relay contact		9097	Text		1	1
<b>Temperature 1</b>								
Sensor type	Disabled, Pt100, Pt1000, PTC	Pt100		8866	Enumeration		1	1
Designation	0...40 character	Designation		8303	Text		1	1
Trip point temperature	-100...300	150	°C	8878	signed 16bit, offset		1	100
Warning point temperature	-100...300	130	°C	8879	signed 16bit, offset		1	100
hysteresis	0...300	30	K	8880	signed 16bit, offset		1	100
Trip delay	00:00.1...59:59.9	01:00.0	mm:ss.f	8867	unsigend 16bit		1	10
Reset delay	00:00:00...18:12:14, locked	00:00:00	hh:mm:ss	8868	unsigned 16bit, 65535 = locked		1	1
Line correction	0.0...100.0	0.0	‰	8881	unsigend 16bit		1	10
<b>Temperature 2</b>								
Sensor type	Disabled, Pt100, Pt1000, PTC	Pt100		8882	Enumeration		1	1
Designation	0...40 character	Designation		8307	Text		1	1
trip point temperature	-100...300	150	°C	8894	signed 16bit, offset		1	100

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Parameter	Range	Default	Unit	Modbus		Multiplier	Divisor
				Address	Data type		
warning temperature	-100...300	130	°C	8895	signed 16bit, offset	1	100
hysteresis	0...300	30	K	8896	signed 16bit, offset	1	100
Trip delay	00:00.1...59:59.9	01:00.0	mm:ss.f	8883	unsigend 16bit	1	10
Reset delay	00:00:00...18:12:14, locked	00:00:00	hh:mm:ss	8884	unsigned 16bit, 65535 = locked	1	1
Line correction	0.0...100.0	0.0	⊘	8897	unsigend 16bit	1	10

### Leakage 1

Operating mode	Disabled, Exceed resistance, Resistance below	Resistance below		8898	Enumeration	1	1
Designation	0...40 character	Designation		8305	Text	1	1
Trip point value	5...1500	60	k⊘	8901	unsigend 16bit	1	1
Warning value	5...1500	75	k⊘	8902	unsigend 16bit	1	1
hysteresis	1...999	10	k⊘	8903	unsigend 16bit	1	1
Trip delay	00:00.1...59:59.9	01:00.0	mm:ss.f	8899	unsigend 16bit	1	10
Reset delay	00:00:00...18:12:14, locked	00:00:00	hh:mm:ss	8900	unsigned 16bit, 65535 = locked	1	1

### Switching input 1

Operating mode	Disabled, Normally closed, Normally open, Reset	Normally closed		9098	Enumeration	1	1
Designation	0...40 character	Designation		9101	Text	1	1
Reset delay	00:00:00...18:12:14, locked	00:00:00	hh:mm:ss	9099	unsigned 16bit, 65535 = locked	1	1

### Analog input 1

Operation mode	Disabled, Exceed, Falling below	Disabled		8946	Enumeration	1	1
Designation	0...40 character	Designation		8306	Text	1	1
Base current	0=Disabled...19.9	4.0	mA	8947	unsigned 16bit, 0 = disabled	1	10
Trip point value	0.1...19.9	15.2	mA	8950	unsigend 16bit	1	10
Warning value	0.1...19.9	12.8	mA	8951	unsigend 16bit	1	10
Hysteresis	0.1...19.9	2.0	mA	8952	unsigend 16bit	1	10
Trip delay	00:00.1...59:59.9	02:00.0	mm:ss.f	8948	unsigend 16bit	1	10
Reset delay	00:00:00...18:12:14, locked	00:00:00	hh:mm:ss	8949	unsigned 16bit, 65535 = locked	1	1
Conversion value min	-500.0...5999.9	0.0		8953	signed 16 bit, offset 500,0	1	10

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Parameter	Range	Default	Unit	Modbus		Multiplier	Divisor
				Address	Data type		
Conversion value max	-499.9...6000.0	20.0		8983	signed 16 bit, offset 500,0	1	10
Conversion unit	0...5 character	Conversion unit		9173	Text	1	1
Time to surveillance	00:00.5...49:13.5	00:03.0	mm:ss.f	8995	unsigend 16bit	1	10
<b>Voltage monitoring</b>							
Operating mode	Disabled, Monitoring of 3 phases	Monitoring of 3 phases		9140	Enumeration	1	1
Attitude	Sinusoidal operation, FC operation	Sinusoidal operation		9121	Enumeration	1	1
Phase sequence operation mode	Disabled, Active	Active		8923	Enumeration	1	1
Missing phase operation mode	Disabled, Active	Active		8918	Enumeration	1	1
Phase failure reset point value	0...100	75	%	8919	unsigend 16bit	1	1
Phase failure reset delay	00:00:03...18:12:14, locked	00:00:10	hh:mm:ss	8921	unsigned 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	unsigend 16bit	1	1
Voltage imbalance trip point - warning	1...100	10	%	8929	unsigend 16bit	1	1
Phase asymmetry hysteresis	1...99	5	%	8930	unsigend 16bit	1	1
Phase asymmetry trip delay	00:00.1...59:59.9	00:00.3	mm:ss.f	9174	unsigend 16bit	1	10
Phase asymmetry reset delay	00:00:03...18:12:14, locked	00:00:10	hh:mm:ss	8931	unsigned 16bit, 65535 = locked	1	1
<b>Undervoltage monitoring</b>							
Operating mode	Disabled, Limit 1 Warning, Limit 1 shutdown	Limit 1 Warning		8982	Enumeration	1	1
Undervoltage limit 1	60...690	207	V	8941	unsigend 16bit	1	1
Undervoltage limit 2	60...690	195	V	8940	unsigend 16bit	1	1
Undervoltage hysteresis	1...600	20	V	8942	unsigend 16bit	1	1
Undervoltage trip delay limit 1	00:00.1...59:59.9	00:03.0	mm:ss.f	9177	unsigend 16bit	1	10
Undervoltage trip delay limit 2	00:00.1...59:59.9	00:03.0	mm:ss.f	9178	unsigend 16bit	1	10
Undervoltage reset delay	00:00:03...18:12:14, locked	00:00:10	hh:mm:ss	8943	unsigned 16bit, 65535 = locked	1	1
<b>Overvoltage monitoring</b>							
Operating mode	Disabled, Limit 1 Warning, Limit 1 shutdown	Limit 1 Warning		8933	Enumeration	1	1
Overvoltage limit 1	60...690	253	V	8935	unsigend 16bit	1	1
Overvoltage limit 2	60...690	265	V	8934	unsigend 16bit	1	1
Overvoltage hysteresis	1...600	20	V	8936	unsigend 16bit	1	1

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Parameter	Range	Default	Unit	Modbus		Multiplier	Divisor
				Address	Data type		
Overvoltage trip delay limit 1	00:00.1...59:59.9	00:03.0	mm:ss.f	9179	unsigend 16bit	1	10
Overvoltage trip delay limit 2	00:00.1...59:59.9	00:03.0	mm:ss.f	9180	unsigend 16bit	1	10
Overvoltage reset delay	00:00:03...18:12:14, locked	00:00:10	hh:mm:ss	8937	unsigned 16bit, 65535 = locked	1	1
<b>Current monitoring</b>							
Operating mode	Disabled, Active, Inverse Active	Active		9102	Enumeration	1	1
Trip point	1.00...250.00	10.00	A	9103	unsigend 16bit	1	100
warning value	1.00...250.00	8.00	A	9104	unsigend 16bit	1	100
Hysteresis	0.10...50.00	2.00	A	9105	unsigend 16bit	1	100
Trip delay	00:00.1...59:59.9	00:00.1	mm:ss.f	9138	unsigend 16bit	1	10
Reset delay	00:00:00...18:12:14, locked	locked	hh:mm:ss	9139	unsigned 16bit, 65535 = locked	1	1
Transmission ratio transformer	500...12500	2500		9109	unsigend 16bit	1	1
Windings through transformer	1...10	5		9128	unsigend 16bit	1	1
Start-up delay time	00:00.5...59:59.9	00:00.5	mm:ss.f	9181	unsigend 16bit	1	10
<b>Cosφ</b>							
Operating mode	Disabled, Inverse Active, Active	Disabled		9112	Enumeration	1	1
Trip point	000.01...001.00	000.60		9113	unsigend 16bit	1	100
Warning value	000.01...001.00	000.80		9114	unsigend 16bit	1	100
Hysteresis	000.01...000.99	000.20		9115	unsigend 16bit	1	100
Trip delay	00:00.1...59:59.9	01:00.0	mm:ss.f	9117	unsigend 16bit	1	10
Reset delay	00:00:00...18:12:14, locked	00:00:00	hh:mm:ss	9116	unsigned 16bit, 65535 = locked	1	1
Start-up override	00:00.5...59:59.9	00:00.5	mm:ss.f	9182	unsigend 16bit	1	10
<b>Underload monitoring</b>							
Operating mode underload	Disabled, Limit 1 warning, Limit 1 warning, limit 2 alarm, Limit 1 alarm, limit 2 alarm, Limit 2 alarm	Disabled		9311	Enumeration	1	1
Underload limit 1	0.00...3276.00	60.00	kW	9313	unsigend 16bit	50	1000
Underload limit 2	0.00...3276.00	50.00	kW	9314	unsigend 16bit	50	1000
underload hysteresis	0.05...3275.95	25.00	kW	9315	unsigend 16bit	50	1000
Underload limit 1 trip delay	00:00.0...59:59.9	01:00.0	mm:ss.f	9316	unsigend 16bit	1	10

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Parameter	Range	Default	Unit	Modbus		Multiplier	Divisor
				Address	Data type		
Underload limit 2 trip delay	00:00.0...59:59.9	01:00.0	mm:ss.f	9317	unsigend 16bit	1	10
Underload limit 1 restart delay	00:00:00...18:12:14, locked	00:00:00	hh:mm:ss	9318	unsigned 16bit, 65535 = locked	1	1
Underload limit 2 restart delay	00:00:00...18:12:14, locked	00:00:00	hh:mm:ss	9319	unsigned 16bit, 65535 = locked	1	1
Start-up override for running detection	0.1...3599.9	0.5	s	9312	unsigend 16bit	1	10
<b>Overload monitoring</b>							
Operating mode overload	Disabled, Limit 1 warning, Limit 1 warning, limit 2 alarm, Limit 1 alarm, limit 2 alarm, Limit 2 alarm	Disabled		9300	Enumeration	1	1
Overload limit 1	0.00...3276.00	90.00	kW	9302	unsigend 16bit	50	1000
Overload limit 2	0.00...3276.00	100.00	kW	9303	unsigend 16bit	50	1000
Overload hysteresis	0.05...3275.95	25.00	kW	9304	unsigend 16bit	50	1000
Overload limit 1 trip delay	00:00.0...59:59.9	01:00.0	mm:ss.f	9305	unsigend 16bit	1	10
Overload limit 2 trip delay	00:00.0...59:59.9	01:00.0	mm:ss.f	9306	unsigend 16bit	1	10
Overload limit 1 restart delay	00:00:00...18:12:14, locked	00:00:00	hh:mm:ss	9307	unsigned 16bit, 65535 = locked	1	1
Overload limit 2 restart delay	00:00:00...18:12:14, locked	00:00:00	hh:mm:ss	9308	unsigned 16bit, 65535 = locked	1	1
Start-up override for running detection	0.1...3599.9	0.5	s	9301	unsigend 16bit	1	10
<b>Switching frequency overstepping</b>							
Operating mode	Disabled, Warning, Alarm	Disabled		8991	Enumeration	1	1
Time window	00:00:01...12:00:00	00:00:30	hh:mm:ss	8994	unsigend 16bit	1	1
Switching per time window	2...10	3		8993	unsigend 16bit	1	1
Reset delay	00:00:00...18:12:14, locked	locked	hh:mm:ss	8992	unsigned 16bit, 65535 = locked	1	1
<b>Service interval</b>							
Status	Disabled, restart, Active	Disabled		8988	Enumeration	1	1
Service interval duration	100...26280	24000	h	8989	unsigend 16bit	1	1
<b>Relay 1</b>							
Selection of alarms 1	Bit 00: Engine temperature	Engine temperature		9205	Multi-field selection	1	1
	Bit 01: Temperature 1	Temperature 1					
	Bit 02: Temperature 2	Temperature 2					

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Parameter	Range	Default	Unit	Modbus		Multiplier	Divisor
				Address	Data type		
	Bit 03: Leakage 1	Leakage 1					
	Bit 04: Switching input	Switching input					
	Bit 05: Analog input	Analog input					
	Bit 06: Phase sequence	Phase sequence					
	Bit 07: Phase failure	Phase failure					
	Bit 08: Asymmetry	Asymmetry					
	Bit 09: Undervoltage	Undervoltage					
	Bit 10: Overvoltage	Overvoltage					
	Bit 11: Current transformer input	Current transformer input					
	Bit 12: switching frequency	switching frequency					
	Bit 13: Cosφ monitoring	Cosφ monitoring					
	Bit 14: Overload	Overload					
	Bit 15: Under load	Under load					
Selection alarms 2	Bit 00: self-monitoring	self-monitoring		9323	Multi-field selection		1 1
Select warnings	Bit 00: Engine temperature	-		9206	Multi-field selection		1 1
	Bit 01: Temperature 1	-					
	Bit 02: Temperature 2	-					
	Bit 03: Leakage 1	-					
	Bit 04: Asymmetry	-					
	Bit 05: Undervoltage	-					
	Bit 06: Overvoltage	-					
	Bit 07: Current transformer input	-					
	Bit 08: Analog input	-					
	Bit 09: switching frequency	-					
	Bit 10: Relay bypass	-					
	Bit 11: Cosφ monitoring	-					
	Bit 12: Service interval	-					
	Bit 13: Overload	-					
	Bit 14: Under load	-					

### Relay 2

## INT69 PYF Diagnose

Parameter	Range	Default	Unit	Modbus			
				Address	Data type	Multiplier	Divisor
Selection of alarms 1	Bit 00: Engine temperature	-		9208	Multi-field selection	1	1
	Bit 01: Temperature 1	-					
	Bit 02: Temperature 2	-					
	Bit 03: Leakage 1	-					
	Bit 04: Switching input	-					
	Bit 05: Analog input	-					
	Bit 06: Phase sequence	-					
	Bit 07: Phase failure	-					
	Bit 08: Asymmetry	-					
	Bit 09: Undervoltage	-					
	Bit 10: Overvoltage	-					
	Bit 11: Current transformer input	-					
	Bit 12: switching frequency	-					
	Bit 13: Cosφ monitoring	-					
	Bit 14: Overload	-					
	Bit 15: Under load	-					
Selection alarms 2	Bit 00: self-monitoring	self-monitoring		9326	Multi-field selection	1	1
Select warnings	Bit 00: Engine temperature	Engine temperature		9209	Multi-field selection	1	1
	Bit 01: Temperature 1	Temperature 1					
	Bit 02: Temperature 2	Temperature 2					
	Bit 03: Leakage 1	Leakage 1					
	Bit 04: Asymmetry	Asymmetry					
	Bit 05: Undervoltage	Undervoltage					
	Bit 06: Overvoltage	Overvoltage					
	Bit 07: Current transformer input	Current transformer input					
	Bit 08: Analog input	Analog input					
	Bit 09: switching frequency	switching frequency					
	Bit 10: Relay bypass	Relay bypass					
	Bit 11: Cosφ monitoring	Cosφ monitoring					
	Bit 12: Service interval	Service interval					
	Bit 13: Overload	Overload					

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Parameter	Range	Default	Unit	Address	Data type	Multiplier	Divisor
	Bit 14: Under load	Under load					

### Modbus

Address	1...247	1		9042	unsigned 16bit	1	1
Baudrate	9600, 19200, 38400, 57600	19200		9043	Enumeration	1	1
Stop bit	one, two	two		9045	Enumeration	1	1
Parity	none, even, odd	none		9044	Enumeration	1	1
Password parameterization via Modbus	0...65535	1968		9081	unsigned 16bit	1	1

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