

INT69 PYF Diagnose



Parameter table 20 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	Modbus		Multiplier	Divisor
				Address	Data type		
Engine temperature							
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
Temperature 1							
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
Temperature 2							
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

INT69 PYF Diagnose

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

INT69 PYF Diagnose

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
Voltage monitoring							
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
Undervoltage monitoring							
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
Overvoltage monitoring							
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

INT69 PYF Diagnose

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
Current monitoring							
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
Cosφ							
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
Underload monitoring							
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

INT69 PYF Diagnose

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
Overload monitoring							
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
Switching frequency overstepping							
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
Service interval							
Status	Disabled, restart, Active	Disabled		8988	Enumeration	1	1
Service interval duration	100...26280	24000	h	8989	unsigend 16bit	1	1
Relay 1							
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					

INT69 PYF Diagnose

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		Multiplier	Divisor
				Address	Data type		
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						

INT69 PYF Diagnose

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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