

SIL-G

Line, Feeder & Generator Protection Relay

ANSI CODE PROTECTIONS	
50	Instantaneous phase overcurrent
67	Inverse Time Directional Phase Overcurrent
50N	Instantaneous calculated neutral overcurrent
50G	Instantaneous measured neutral overcurrent
67N	Inverse Time Directional Calculated Neutral Overcurrent
67G	Inverse Time Directional Measured Neutral Overcurrent
SOTF	Switch On To Fault
46	Phase balance current protection
46BC	Broken Conductor Detection
37	Instantaneous phase undercurrent
49	Thermal overload
SHB	Second Harmonic Blocking
59	Instantaneous phase overvoltage
59N/G	Instantaneous Calculated/ Measured neutral overvoltage
59L	Instantaneous Line overvoltage
47	Phase Balance voltage protection
27	Instantaneous Phase undervoltage
27L	Instantaneous Line undervoltage
27V1	Instantaneous Positive sequence undervoltage
32	Directional Overpower
81O/U	Under/Overfrequency
81R	Rate of change of Frequency (ROCOF)
78	Out of Step (Vector Shift)
24	Overfluxing
CLP	Cold Load pickup
79	AC Reclosing device
52	Breaker Wear Monitoring
25	Synchro Check
50BF	Circuit Breaker Failure
74TCS	Trip Circuit Supervision
60CTS	Phase CT Supervision
60VTS	Phase VT Supervision
AFD	Arc Flash detection
86	Trip Lockout
68	Zone selection interlocking
PGC	Programmable logic control



IEC 61850



Feeder & Generator Protection Relay Protection for Primary and Secondary Distribution

- The SIL-G is a feeder relay with current, voltage and frequency functions for primary and secondary distribution with auxiliary power supply of 24-230 Vdc/ac, 48-230 Vdc/ac or 24-48 Vdc(depending on model).
- Capability of measuring up to 1.000 volts when it is connected directly to the low voltage line.
- Metallic box with high electromagnetic compatibility level (EMC) and wide range of operating temperature.
- Protection of decoupling, load shedding and loss of main (islanding). Loss of Main (islanding) occurs when part of the public utility network loses connection with the rest of the system. If this situation is not detected, then the generator could remain connected, causing a safety hazard within the network. Automatic reconnection of the generator to the network may occur causing damage to the generator and the network. SIL-G protection relay detects this situation thanks to its voltage and frequency functions focused on the Rate of change of frequency (ROCOF) method.
- Signalling/control of the circuit breaker (52 function) and the recloser (79 function).
- Arc Flash detection (AFD) with 4 AFD inputs and 4 high-speed outputs available depending on model. This functionality, along with the possibility of having WIFI communication, allows the users to set and configure the relay through Fanox free software and to operate the relay without being present in the installation prioritizing the security.
- Zone selection interlocking - ZSI (68 function) is available through configurable inputs and outputs thanks to the programmable logic (PGC).

- In case a CB is manually closed, a switch on to an existing fault may occur. This fault condition is critical if the overcurrent protection does not clear the fault until the adjusted time delay is finished. It is necessary, in those cases, to clear the fault quickly by means of SOTF function.

- To allow the communication, relays are provided with a local micro USB front port and with remote communication with different options (ports and protocols) on the rear side:

- Rear RS485 Port: IEC60870-5-103, Modbus RTU or DNP3.0 Serial.
- Rear RJ45 Port: Modbus TCP/IP, DNP3.0 TCP/IP or IEC61850 + Web Server.
- Rear FO-LC: IEC61850 and Redundancy (PRP or HSR).

- Synchronization through IRIG-B optional depending on model.

- The SIL-G is provided with (depending on model):

- 8 configurable inputs and 7 configurable outputs.
- 24 configurable inputs and 7 configurable outputs.
- 8 configurable inputs and 18 configurable outputs.
- 16 configurable inputs and 11 configurable outputs.
- 8 configurable inputs, 7 configurable outputs, 4 AFD inputs and 4 High-Speed outputs.

- SIL-G is fitted with the demand of power (Load Data Profiling) with the following characteristics:

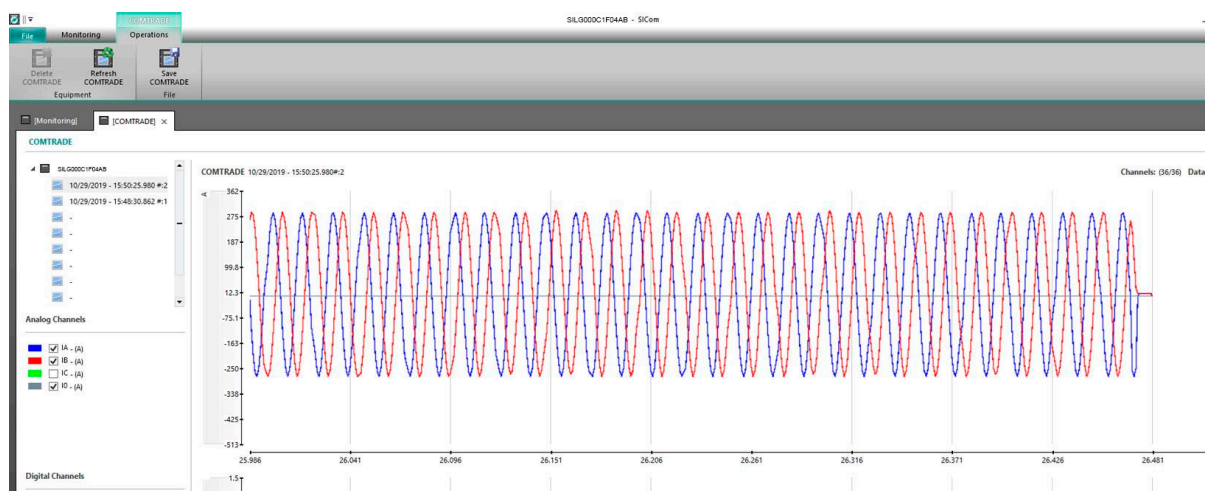
- Number of records: 2160.
- Recording mode circular.
- Sampling rate (interval): configurable through communications (1-60 min).

- Alarms panel is available.

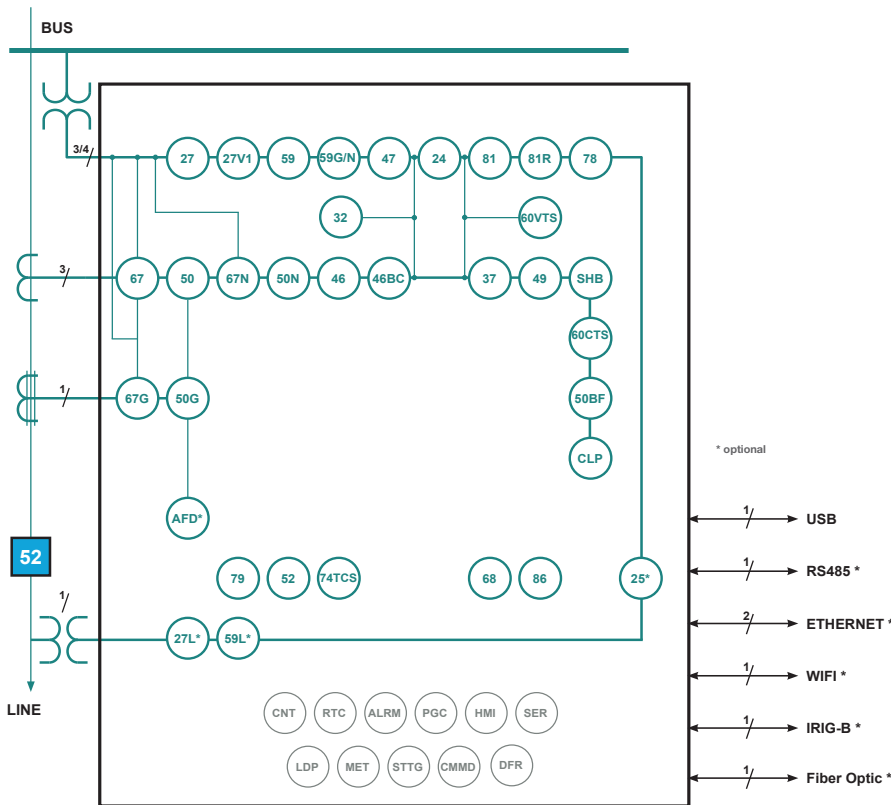
- SIL-G is provided with non-volatile RAM memory in order to store up to 3072 events and disturbance fault recording (DFR), maintaining date & time thanks to its internal RTC (real Time Clock).

- 5 records in data and COMTRADE format (260 cycles each record): 1 to 8 pre-fault cycles + 252 to 259 postfault cycles.
- 25 records in data and COMTRADE format (60 cycles each record): 1 to 8 pre-fault cycles + 52 to 59 postfault cycles.
- 50 records in data and COMTRADE format (30 cycles each record): 1 to 8 pre-fault cycles + 22 to 29 postfault cycles.
- 100 records in data and COMTRADE format (15 cycles each record): 1 to 8 pre-fault cycles + 7 to 14 postfault cycles.)

- The oscillography is downloaded by communications port. The SCom communications program allows the oscillography record to be downloaded and saved in COMTRADE format (IEEE C37.111-1991).



Functions diagram SIL-G



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SOTF	Switch On To Fault
46	Phase balance current protection
46BC	Broken Conductor Detection
37	Instantaneous phase undercurrent
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59	Instantaneous phase overvoltage
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27V1	Instantaneous Positive sequence undervoltage
32	Directional Overpower
81O/U	Under/Overfrequency
81R	Rate of change of Frequency (ROCOF)
78	Out of Step (Vector Shift)
24	Overfluxing
CLP	Cold Load pickup
79	AC Reclosing device
52	Breaker Wear Monitoring
25	Synchro Check
50BF	Circuit Breaker Failure
74TCS	Trip Circuit Supervision
60CTS	Phase CT Supervision
60VTS	Phase VT Supervision
AFD	Arc Flash detection
86	Trip Lockout
68	Zone selection interlocking
PGC	Programmable logic control

ADDITIONAL FUNCTIONS	
CNT	Counters
RTC	Real Time Clock
ALRM	Alarm panel
PGC	Programmable Logic Control
HMI	Human Machine Interface
SER	Sequential Event Recording
DFR	Disturbance Fault Recording
LDP	Load Data Profiling
MET	Metering
STTG	Settings Groups
CMMD	Commands

Technical parameters SIL-G

Function 50-1	Function enable: No/Alarm/Trip/SHB Trip	Function enable: No/Alarm/Trip/SHB Trip
	Current tap: 0.010 to 30.000 xIn (step 0.001xIn)	
Function 50-2	Time delay: 0.000 to 300.000 s (step 0.001 s)	Curve Type: IEC 60255-151 and IEEE curves.
	Activation level: 100%	
Function 50N-1	Deactivation level: 95%	IEC (Definite time, standard inverse, very inverse, extremely inverse, long time inverse, short time inverse) and IEEE (Moderately inverse, very inverse, extremely inverse).
	Instantaneous deactivation	
Function 50G-1	Timing accuracy: $\pm 0.5\%$ or ± 35 ms (greater of both)	Time delay: 0.000 to 300.000 s (step 0.001 s)
	Function enable: No/Alarm/Trip/SHB Trip	
Function 67-1	Current tap: 0.010 to 30.000 xIn (step 0.001xIn)	Time dial (TMS): 0.05 to 25.00 (step 0.01)
	Time delay: 0.000 to 300.000 s (step 0.001 s)	
Function 67-2	Activation level: 100%	If Curve type IEC: 0.05 to 1.00 (step 0.01)
	Deactivation level: 95%	
Function 67-3	Instantaneous deactivation	If Curve type IEEE: 0.10 to 25.00 (step 0.01)
	Timing accuracy: $\pm 0.5\%$ or ± 35 ms (greater of both)	
Function 67-4	Function enable: No/Alarm/Trip/SHB Trip	Current tap: 0.010 to 20.000 xIn (step 0.001xIn)
	Curve Type: IEC 60255-151 and IEEE curves.	
Function 67N-1	IEC (Definite time, standard inverse, very inverse, extremely inverse, long time inverse, short time inverse) and IEEE (Moderately inverse, very inverse, extremely inverse).	Directionality: No/Forward/Reverse
	Time delay: 0.000 to 300.000 s (step 0.001 s)	
Function 67N-2	Time dial (TMS): 0.05 to 25.00 (step 0.01)	Polarization voltage: 0.08 to 2.00 xUn (step 0.01xUn)
	If Curve type IEC: 0.05 to 1.00 (step 0.01)	
Function 67-1	If Curve type IEEE: 0.10 to 25.00 (step 0.01)	Operating angle: 0 to 359° (step 1°)
	Current tap: 0.010 to 20.000 xIn (step 0.001xIn)	
Function 67-2	Directionality: No/Forward/Reverse	Halfcone angle: 10 to 170° (step 1°)
	Polarization voltage: 0.08 to 2.00 xUn (step 0.01xUn)	
Function 67-3	Operating angle: 0 to 359° (step 1°)	Curve, current activation level: 110%
	Halfcone angle: 10 to 170° (step 1°)	
Function 67-4	Curve, current activation level: 110%	Curve, current deactivation level: 100%
	Curve, current deactivation level: 100%	
Function 67-1	Defined time, current activation level: 100%	Defined time, current deactivation level: 95%
	Defined time, current deactivation level: 95%	
Function 67-2	Voltage activation level: 100%	Voltage deactivation level: 95%
	Voltage deactivation level: 95%	
Function 67-3	Instantaneous deactivation	Timing accuracy for IEC and IEEE curves selection: ± 30 ms or $\pm 5\%$ (greater of both)
	Timing accuracy for IEC and IEEE curves selection: ± 30 ms or $\pm 5\%$ (greater of both)	
Function 67-4	Timing accuracy for defined time curve selection: ± 35 ms or $\pm 0.5\%$ (greater of both)	Timing accuracy for defined time curve selection: ± 35 ms or $\pm 0.5\%$ (greater of both)
	Timing accuracy for defined time curve selection: ± 35 ms or $\pm 0.5\%$ (greater of both)	

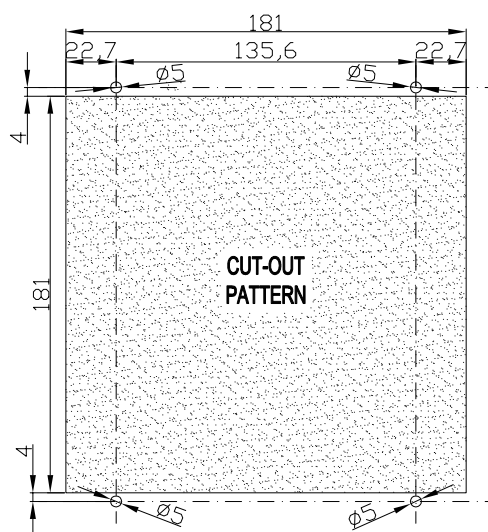
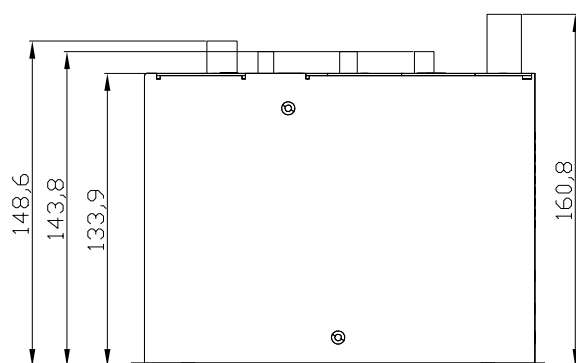
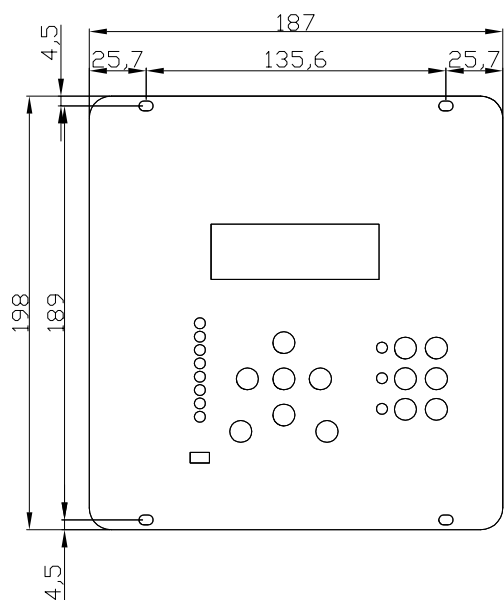
Technical parameters SIL-G

Function 27V1	Function enable: No/Alarm/Trip	Function 59L (*)	Function enable: No/Alarm/Trip	
	Voltage tap: 0.15 to 2.00 xUn (step 0.01xUn)		Voltage tap: 0.08 to 2.00 xUn (step 0.01xUn)	
	Minimum level: 0.00 to 1.00 xUn (step 0.01xUn)		Time delay: 0.020 to 300.000 s (step 0.001 s)	
	Time delay: 0.060 to 300.000 s (step 0.001 s)		Reset time: 0.020 to 300.000 s (step 0.001 s)	
	Reset time: 0.020 to 300.000 s (step 0.001 s)		Activation level: 100%	
	Activation level: 100%		Deactivation level: 95%	
	Deactivation level: 105%		Temporized deactivation	
	Temporized deactivation		Timing accuracy: $\pm 0.5\%$ or ± 30 ms (greater of both)	
Function 27L (*)	Function enable: No/Alarm/Trip	Function 32-1	Function enable: No/Alarm/Trip	
	Voltage tap: 0.08 to 2.00 xUn (step 0.01xUn)		Activation level: 0.08 to 2.00 xSn (step 0.01xSn)	
	Minimum level: 0.00 to 1.00 xUn (step 0.01xUn)		Operating angle: 0 to 359° (step 1°)	
	Time delay: 0.060 to 300.000 s (step 0.001 s)		Function 32-2	Time delay: 0.020 to 300.000 s (step 0.001 s)
	Reset time: 0.020 to 300.000 s (step 0.001 s)		Function 32-3	Activation level: 100%
	Activation level: 100%		Function 32-4	Deactivation level: 95%
	Deactivation level: 105%		Instantaneous deactivation	Timing accuracy: $\pm 0.5\%$ or ± 30 ms (greater of both)
	Temporized deactivation			
Function 59-1 Function 59-2	Function enable: No/Alarm/Trip	Function 81-1	Function enable: No/Alarm/Trip	
	Voltage tap: 0.08 to 2.00 xUn (step 0.01xUn)		Type: Underfrequency or overfrequency	
	Time delay: 0.020 to 300.000 s (step 0.001 s)		Activation level: 45.000 a 65.000 Hz (step 0.001 Hz)	
	Reset time: 0.020 to 300.000 s (step 0.001 s)		Time delay: 0.020 a 300.000 s (step 0.001 s)	
	Activation level: 100%		Reset time: 0.020 a 300.000 s (step 0.001 s)	
	Deactivation level: 95%		Function blocked if phase B voltage is lower than 20 volts	
	Temporized deactivation		Function 81-2	Activation level: 100%
	Timing accuracy: $\pm 0.5\%$ or ± 30 ms (greater of both)		Function 81-3	Underfrequency reset level: activation level + 50mHz
Function 59N/G-1 Function 59N/G-2	Function enable: No/Alarm/Trip	Function 81-4	Overfrequency reset level: activation level - 50 mHz	
	Voltage tap: 0.08 to 2.00 xUn (step 0.01xUn)		Temporized deactivation	
	Time delay: 0.020 to 300.000 s (step 0.001 s)		The frequency measurement is an average value of the frequency measured during 8 cycles. The accuracy of the Time Delay is the adjusted value plus the necessary time to achieve the measurement during 8 cycles.	
	Reset time: 0.020 to 300.000 s (step 0.001 s)			
	Activation level: 100%			
	Deactivation level: 95%			
	Temporized deactivation			
	Timing accuracy: $\pm 0.5\%$ or ± 30 ms (greater of both)			
Function 47	Function enable: No/Alarm/Trip	Function 81R-1	Function enable: No/Alarm/Trip	
	Voltage tap: 0.08 to 2.00 xUn (step 0.01xUn)		Type: Increase/Decrease	
	Time delay: 0.020 to 300.000 s (step 0.001 s)		Activation level: 0.100 to 5.000 Hz/s (step 0.001 Hz/s)	
	Reset time: 0.020 to 300.000 s (step 0.001 s)		Time delay: 0.060 to 40.000 s (step 0.001 s)	
	Activation level: 100%		Reset time: 0.020 to 300.000 s (step 0.001 s)	
	Deactivation level: 95%		Function 81R-2	Function blocked if phase B voltage is lower than 20 volts
	Temporized deactivation		Function 81R-3	Activation level: 100%
	Timing accuracy: $\pm 0.5\%$ or ± 30 ms (greater of both)		Function 81R-4	Temporized deactivation
		The frequency measurement is an average value of the frequency measured during 8 cycles. The accuracy of the Time Delay is the adjusted value plus the necessary time to achieve the measurement during 8 cycles.		

Technical parameters SIL-G

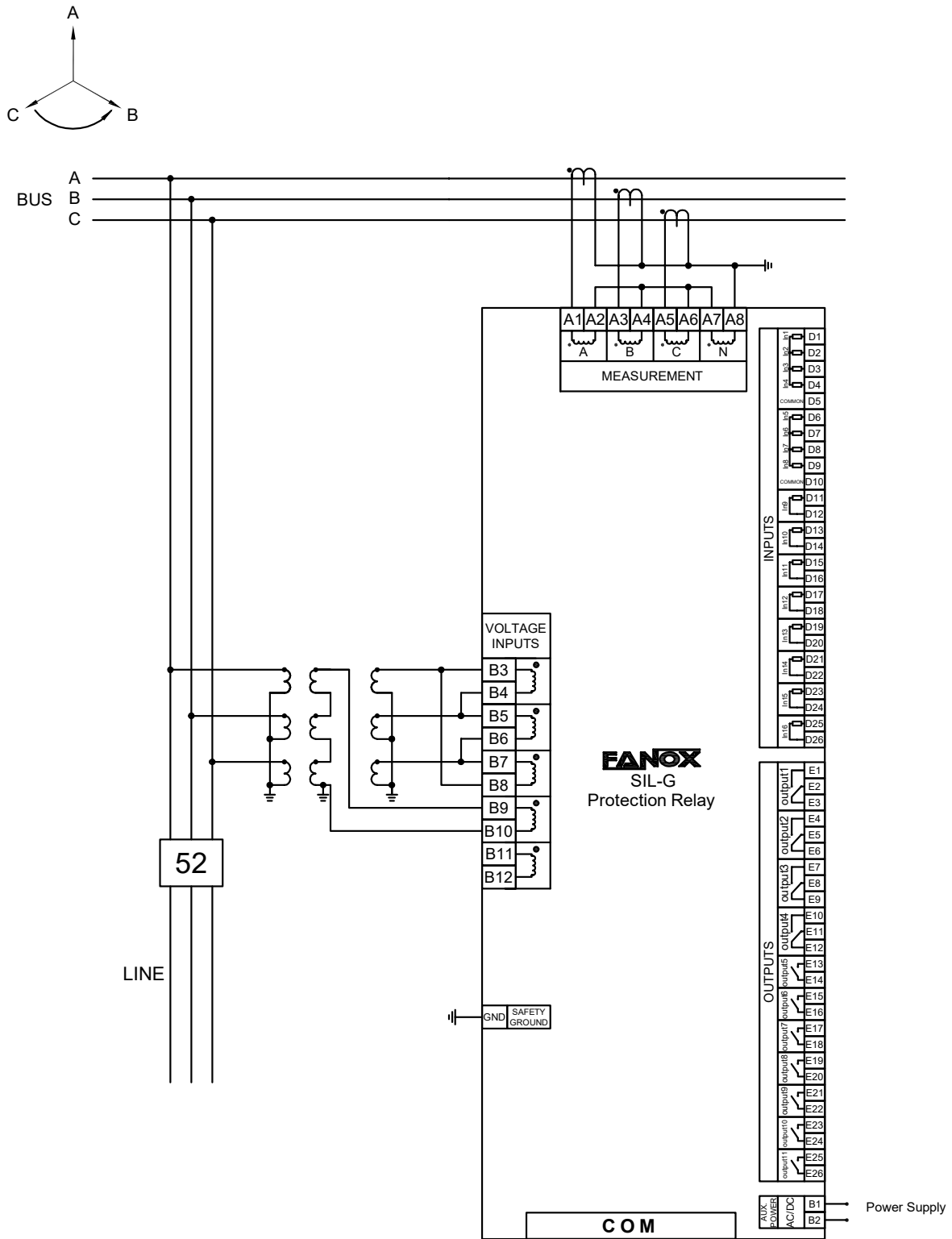
Function 78	Function enable: No/Alarm/Trip	Function 60CTS	Function enable: No/Yes	
	Activation level: 1 to 25° (step 1°)		Time delay: 0.020 to 300.000 s (step 0.001 s)	
	Reset time: 0.020 to 300.000 s (step 0.001 s)		Timing accuracy: ± 30 ms or ± 0.5% (greater of both)	
	Function blocked if phase B voltage is lower than 20 volts		Open breaker activation and reset threshold: 0.8% In	
	Temporized deactivation		Detection of the loss of one phase CT	
Function 24-1	Measurement accuracy: ±1° or 10% (greater of both)	Function 60VTS	Function enable: No/Yes	
	Function enable: No/Alarm/Trip		Time delay: 0.020 to 300.000 s (step 0.001 s)	
	Curve Type: Inverse A, Inverse B, Inverse C and Defined Time.		V1, V2 and VP Tap: 0.08 to 2.00 xUn (step 0.001xUn)	
	Time delay: 0.020 to 300.000 s (step 0.001 s)		I1, I2 and 3I0 Tap: 0.010 to 20.000 xIn (step 0.001xIn)	
	Time dial (TMS): 0.10 to 25.00 (step 0.01)		Timing accuracy: ± 30 ms or ± 0.5% (greater of both)	
	Function 24-2	Activation level: 0.50 to 2.00 xUn/Fn (step 0.01 xUn/Fn)	Function 50BF	Function enable: No/Yes
		Time delay: 0.020 to 300.000 s (step 0.001 s)		Time delay: 0.020 to 1.000 s (step 0.001 s)
	Function 24-1	Reset Time: 0.020 to 300.000 s (step 0.001 s)	Function AFD (*)	Open breaker activation and reset threshold: 0.8% In
		Curve, activation level: 110%		Function enable: No/Alarm/Trip
		Curve, deactivation level: 100%	Current tap: 1 to 20xIn (step 1xIn)	Function 86
Defined time, activation level: 100%		Function 68	It allows to latch (lock out) the contact trip due to programmable logic (PGC: RSFF).	
Defined time, deactivation level: 95%			Programmable logic control (PGC)	Available through configurable inputs and outputs thanks to the programmable logic (PGC).
Temporized deactivation		OR, OR_1PULSE, OR_PULSES, OR_BLINKING, OR_TIMER UP, OR_TIMER DOWN		
Timing accuracy for curves selection:		NOR, NOR_1PULSE, NOR_PULSES, NOR_BLINKING, NOR_TIMER UP, NOR_TIMER DOWN		
± 30 ms or ± 5% (greater of both)		AND, AND_1PULSE, AND_PULSES, AND_BLINKING, AND_TIMER UP, AND_TIMER DOWN		
Timing accuracy for defined time curve selection:		NAND, NAND_1PULSE, NAND_PULSES, NAND_BLINKING, NAND_TIMER UP, NAND_TIMER DOWN		
± 30 ms or ± 0.5% (greater of both)		XOR, OR_1PULSE, XOR_PULSES, XOR_BLINKING, XOR_TIMER UP, XOR_TIMER DOWN		
Function 25 (*)	Dead tap: 0.08 to 2.00 xUn (step 0.01xUn)	SRFF, SRFF_1PULSE, SRFF_PULSES, SRFF_BLINKING, SRFF_TIMER UP, SRFF_TIMER DOWN		
	Live tap: 0.08 to 2.00 xUn (step 0.01xUn)	RSFF, RSFF_1PULSE, RSFF_PULSES, RSFF_BLINKING, RSFF_TIMER UP, RSFF_TIMER DOWN		
	Voltage supervision time: 0.060 to 300.000 s (step 0.001 s)	R_EDGE, R_EDGE_1PULSE		
	Voltage difference: 0.05 to 2.00 xUn (step 0.01xUn)	F_EDGE, F_EDGE_1PULSE		
	Phase difference: 2 to 90 ° (step 1°)	Settings tables	4 settings groups	
	Frequency difference: 0.060 to 10.000 Hz (step 0.001 Hz)		Selectable by input or general setting.	
	Synchro check time: 0.020 to 300.000 s (step 0.001 s)	SER	3072 events	
Function 79	Number of recloses: 0 to 4 (step 1)		Disturbance fault recording (DFR)	32 samples/cycle
	Reclose time 1, 2, 3, 4: 0.020 to 2000.000 s (step 0.001 s)	Fault start configurable		
	Hold Enable: No/Yes/No Time	Configurable number of records depending on the size:		
	Hold time: 0.000 to 2000.000 s (step 0.001 s)	5 records in data and COMTRADE format (260 cycles each record): 1 to 8 pre-fault cycles + 252 to 259 postfault cycles.		
	Reset time: 0.000 to 2000.000 s (step 0.001 s)	25 records in data and COMTRADE format (60 cycles each record): 1 to 8 pre-fault cycles + 52 to 59 postfault cycles.		
	Safe time: 0.020 to 2000.000 s (step 0.001 s)	50 records in data and COMTRADE format (30 cycles each record): 1 to 8 pre-fault cycles + 22 to 29 postfault cycles.		
	Locking possibilities: pulse inputs, level inputs, commands.	100 records in data and COMTRADE format (15 cycles each record): 1 to 8 pre-fault cycles + 7 to 14 postfault cycles.)		
Function 52	Maximum number of openings: 1 a 100,000 (step 1)	COMTRADE IEEE C37.111-1991 - 9 analog channels and 96 digital channels		
	Maximum accumulated amperes: 1 to 100,000 M(A2) (step 1)			
	Repetitive number of openings: 1 to 100,000 (step 1)			
	Time for repetitive number of openings: 1 to 300 min (step 1 min)			
	Maximum opening time: 0.020 to 300.000 s (step 0.001 s)			
	Maximum closing time: 0.020 to 300.000 s (step 0.001 s)			
Function 74TCS	Function enable: No/Yes			
	Time delay: 0.020 to 300.000 s (step 0.001 s)			
	Continuity in circuits A and B			

Dimensions and cutout SIL-G



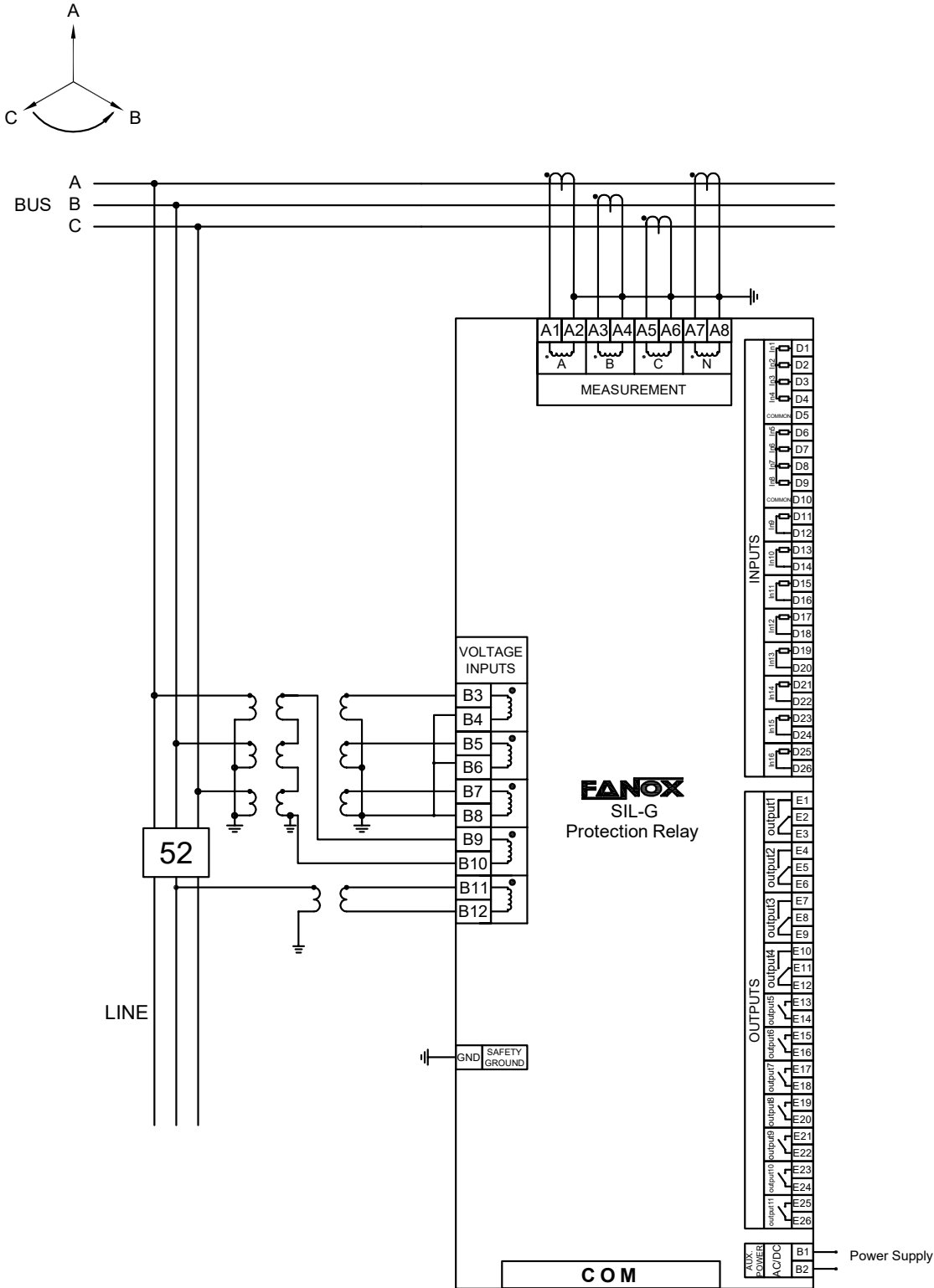
Connections diagram SIL-G

Phase-phase + residual voltage, 3 current transformers



Connections diagram SIL-G

3 VTs (Phase-neutral) + residual voltage + 1 VT for synchronism , 4 current transformers



Selection & Ordering data SIL-G

SIL-G											Feeder & Generator Protection Relay										
0											PHASE CURRENT MEASUREMENT 1 A or 5 A										
0											NEUTRAL CURRENT MEASUREMENT 1 A or 5 A										
0											VOLTAGE MEASUREMENT Up to 1000 V (direct connection) or 250 V (with VTs)										
A B C											POWER SUPPLY 24-48 Vdc 48-230 Vac/dc 24-230 Vac/dc (Only for communication models: A, B, F and G)										
0 1											ADDITIONAL FUNCTIONS - +25 + 27-L + 59-L										
A B C D E F G H I J K L											COMMUNICATIONS A: USB (Modbus RTU) + RS485 (Modbus RTU, IEC60870-5-103 or DNP3.0 Serial) B: USB (Modbus RTU) + RS485 (Modbus RTU, IEC60870-5-103 or DNP3.0 Serial) + RJ45 (Modbus TCP or DNP3.0 TCP) + Web Server + IRIG-B C: USB (Modbus RTU) + RJ45 (IEC 61850) + RJ45 (Modbus TCP or DNP3.0 TCP) + Web Server + IRIG-B D: USB (Modbus RTU) + HSR – FO (IEC 61850) + RJ45 (Modbus TCP or DNP3.0 TCP) + Web Server + IRIG-B E: USB (Modbus RTU) + PRP – FO (IEC 61850) + RJ45 (Modbus TCP or DNP3.0 TCP) + Web Server + IRIG-B F: USB (Modbus RTU) + WiFi + RS485 (Modbus RTU, IEC60870-5-103 or DNP3.0 Serial) G: USB (Modbus RTU) + WiFi + RS485 (Modbus RTU, IEC60870-5-103 or DNP3.0 Serial) + RJ45 (Modbus TCP or DNP3.0 TCP) + Web Server + IRIG-B H: USB (Modbus RTU) + WiFi + RJ45 (IEC 61850) + RJ45 (Modbus TCP or DNP3.0 TCP) + Web Server + IRIG-B I: USB (Modbus RTU) + WiFi + HSR – FO (IEC 61850) + RJ45 (Modbus TCP or DNP3.0 TCP) + Web Server + IRIG-B J: USB (Modbus RTU) + WiFi + PRP – FO (IEC61850) + RJ45 (Modbus TCP or DNP3.0 TCP) + Web Server + IRIG-B K: USB (Modbus RTU) + FO-LC (IEC 61850) + RJ45 (Modbus TCP or DNP3.0 TCP) + Web Server + IRIG-B L: USB (Modbus RTU) + WiFi + FO-LC (IEC 61850) + RJ45 (Modbus TCP or DNP3.0 TCP) + IRIG-B										
0 5 6 7 A											INPUTS AND OUTPUTS 8 Inputs + 7 Outputs 24 Inputs + 7 Outputs 8 Inputs + 18 Outputs 16 Inputs + 11 Outputs 8 Inputs + 7 Outputs + 4 AFD Inputs + 4 High-speed Outputs										
4											MECHANICAL ASSEMBLY Vertical Assembly										
A E											LANGUAGE English, Spanish, German and French English, Spanish, Turkish and Russian										
B											ADAPTATION Second generation. Default functions: (2) 50 + SOTF + 50G + 50N + (4) 67 + (2) 67G + (2) 67N + 46 + 46BC + 49 + 37 + (2) 27+ 27V1 + (2) 59 + (2) 59N/G + 47 + (4) 32 + (4) 81U/O + (4) 81R + 78 + (2) 24 + 79 + 74TCS + 60CTS + 60VTS + 50BF + SHB + CLP + 52 + 86										

Example of ordering code:

SIL-G	0	0	0	C	1	F	0	4	A	B	<i>SIL G 0 0 0 C 1 F 0 4 A B</i>									
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