59742

generator - G88 - Sepam series 80



Main		
Relay application	Generator	
Range of product	Sepam series 80 NPP Sepam series 80	
Device short name	G88	
Control and monitoring type	Circuit breaker/contactor control ANSI code: 94/69 (option) Latching/acknowledgement ANSI code: 86 Logic discrimination ANSI code: 68 (option) Switching of groups of settings Annunciation ANSI code: 30 Automatic transfer (AT) (option) Logipam programming (ladder language) (option) Logic equation editor 200 operators	
Metering type	Positive sequence voltage Vd/rotation direction Frequency Calculated active and reactive energy (+/- W.h, +/- VAR.h) Active and reactive energy by pulse counting (+/- W.h, +/- VAR.h) (option) Phase current I1, I2, I3 RMS Demand current I1, I2, I3 Peak demand current IM1, IM2, IM3 Measured residual current I'0 Voltage U21, U32, U13, V1, V2, V3 Residual voltage V0 Negative sequence voltage Vi Active power P, P1, P2, P3 Reactive power Q, Q1, Q2, Q3 Apparent power S, S1, S2, S3 Peak demand power PM, QM Power factor Temperature (16 RTDs) (option) Phase current I'1, I'2, I'3 RMS Rotation speed (option) Neutral point voltage Vnt Measured residual current I0, calculated I'0∑ Calculated residual current I'0∑	
Network and machine diagnosis type Unbalance ratio/negative sequence current li Disturbance recording Thermal capacity used Remaining operating time before overload tripping Waiting time after overload tripping Running hours counter/operating time Tripping context Phase fault and earth fault trip counters Harmonic distortion (THD), current and voltage Ithd, Uthd		

Difference in amplitude, frequency and phase of voltages with synchro-check option
Apparent positive sequence impedance Zd
Apparent phase-to-phase impedances Z21, Z32, Z13
Differential current Idiff1, idiff2, Idiff3
Through current It1, It2, It3
Third harmonic voltage, neutral point residual
Current phase displacement θ
Phase displacement
Datalog (DLG)

Switchgear diagnosis type

Cumulative breaking current
CT/VT supervision ANSI code: 60FL
Trip circuit supervision ANSI code: 74 (option)
Auxiliary power supply monitoring
Nb of operations, operating time, charging time, nb of racking out operations (option)

Complementary

Complementary		
Type of measurement	Voltage Rotation speed Power factor Harmonic distorsion (I THD & U THD) Temperature Energy Frequency Current Peak demand power Power (P,Q)	
Protection type	Thermostat / buchholz ANSI code: 26/63 (option) Neutral voltage displacement ANSI code: 59N Breaker failure ANSI code: 50BF Directional earth fault ANSI code: 67N/67NC Directional phase overcurrent ANSI code: 67 Synchro-check ANSI code: 25 (option) Overvoltage (L-L or L-N) ANSI code: 59 Temperature monitoring (16 RTDs) ANSI code: 38/49T (option) Thermal overload for machines ANSI code: 49RMS Restricted earth fault ANSI code: 44REF Overfluxing (V/Hz) ANSI code: 24 Two-winding transformer differential ANSI code: 87T Field loss (underimpedance) ANSI code: 40 Pole slip ANSI code: 78PS Overspeed (2 set points) ANSI code: 12 (option) Underspeed (2 set points) ANSI code: 14 (option) Directional reactive overpower ANSI code: 32Q Underimpedance ANSI code: 21B Inadvertent energisation ANSI code: 50/27 Third harmonic undervoltage/100 % stator earth fault ANSI code: 27TN/64G2 Third harmonic undervoltage/100 % stator earth fault ANSI code: 64G Negative sequence/unbalance ANSI code: 47 Positive sequence undercurrent ANSI code: 27D Remanent undervoltage ANSI code: 27R Undervoltage (L-L or L-N) ANSI code: 27 Negative sequence overvoltage ANSI code: 27 Negative sequence undercurrent ANSI code: 47 Phase overcurrent ANSI code: 50/51 Earth fault/sensitive earth fault ANSI code: 50/510 Directional active overpower ANSI code: 32P Voltage-restrained overcurrent ANSI code: 50V/51V	
Communication port protocol	Measurement readout (option) : Modbus Remote indication and time tagging of events (option) : Modbus Remote control orders (option) : Modbus Remote protection setting (option) : Modbus Transfer of disturbance recording data (option) : Modbus	
Input output max capacity	42 inputs + 23 outputs	
Communication compatibility	IEC 61850 goose message Modbus RTU DNP3 IEC 61850 Modbus TCPIP IEC 60870-5-103	
User machine interface type	Mimic-based	

Advanced Without Remote

Packing Units

Package 1 Weight	0.001 kg	
Package 1 Height	0.010 dm	
Package 1 width	0.010 dm	
Package 1 Length	0.020 dm	