



### Main

Relay application	Capacitor
Range of product	Sepam series 80 Sepam series 80 NPP
Device short name	C86
Control and monitoring type	Circuit breaker/contactors 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 Logipam programming (ladder language) (option) Logic equation editor 200 operators Capacitor step control (option)
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 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) Measured residual current I0, calculated I'0Σ
Network and machine diagnosis type	Unbalance ratio/negative sequence current Ii 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 Apparent positive sequence impedance Zd Apparent phase-to-phase impedances Z21, Z32, Z13 Capacitor unbalance current and capacitance Phase displacement Datalog (DLG)

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

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)
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## Complementary

Type of measurement	Peak demand power Voltage Temperature Current Frequency Energy Power (P,Q) Power factor
Protection type	Neutral voltage displacement ANSI code: 59N Breaker failure ANSI code: 50BF Overvoltage (L-L or L-N) ANSI code: 59 Temperature monitoring (16 RTDs) ANSI code: 38/49T (option) Thermal overload for capacitors ANSI code: 49RMS Capacitor bank unbalance ANSI code: 51C Negative sequence/unbalance ANSI code: 46 Overfrequency ANSI code: 81H Underfrequency ANSI code: 81L Remanent undervoltage ANSI code: 27R Negative sequence overvoltage ANSI code: 47 Phase overcurrent ANSI code: 50/51 Earth fault/sensitive earth fault ANSI code: 50N/51N Earth fault/sensitive earth fault ANSI code: 50G/51G Positive sequence undercurrent ANSI code: 27D Undervoltage (L-L or L-N) ANSI code: 27
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	DNP3 Modbus TCP/IP IEC 61850 IEC 60870-5-103 IEC 61850 goose message Modbus RTU
User machine interface type	Advanced Remote Without Mimic-based

## Packing Units

Package 1 Weight	2.826 kg
Package 1 Height	2.840 dm
Package 1 width	1.900 dm
Package 1 Length	3.650 dm