



### Main

Relay application	Motor
Range of product	Sepam series 40
Device short name	M40
Control and monitoring type	Latching/acknowledgement ANSI code: 86 Logic discrimination ANSI code: 68 ( option ) Switching of groups of settings Annunciation ANSI code: 30 Circuit breaker/contactors control ANSI code: 94/69 Logic equation editor 100 operators
Metering type	Phase current I1, I2, I3 RMS, residual current I0 Demand current I1, I2, I3, peak demand current IM1, IM2, IM3 Temperature ( option ) Voltage U21, U32, U13, V1, V2, V3, residual voltage V0 Frequency Positive sequence voltage Vd/rotation direction-negative sequence voltage Vi Active, reactive, apparent power P,Q,S-peak demand power PM, QM, power factor Calculated active and reactive energy (+/- W.h, +/- VAR.h) Active and reactive energy by pulse counting (+/- W.h, +/- VAR.h) ( option )
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 Starting current and time Start inhibit time, number of starts before inhibition Tripping context Phase displacement
Switchgear diagnosis type	Trip circuit supervision ( option ) Number of operations, operating time charging time ( option ) CT/VT supervision ANSI code: 60FL Cumulative breaking current

### Complementary

Type of measurement	Current Energy Frequency Peak demand power Power (P,Q) Power factor Temperature
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Voltage

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Protection type	Overvoltage protection ANSI code: 59 Temperature monitoring (8 or 16 RTDs) ( option ) ANSI code: 38/49T Positive sequence undervoltage ANSI code: 27D Earth fault/sensitive earth fault ANSI code: 50N/51N Earth fault/sensitive earth fault ANSI code: 50G/51G Negative sequence/unbalance ANSI code: 46 Remanent undervoltage ANSI code: 27R Breaker failure ANSI code: 50BF Excessive starting time, locked rotor ANSI code: 48/51LR/14 Phase overcurrent ANSI code: 50/51 Phase undercurrent ANSI code: 37 Starts per hour ANSI code: 66 Thermal overload protection ANSI code: 49RMS Undervoltage protection ANSI code: 27/27S
Communication port protocol	Measurement readout ( option ) : Modbus Remote control orders ( option ) : Modbus Remote indication and time tagging of events ( option ) : Modbus Remote protection setting ( option ) : Modbus Transfer of disturbance recording data ( option ) : Modbus
Input output max capacity	10 inputs + 8 outputs
Communication compatibility	Modbus RTU IEC 60870-5-103 DNP3 IEC 61850 Modbus TCP/IP
User machine interface type	Advanced Without Remote

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