Protection Reyrolle

Product description	Variants	Order No.

		1	2	3	4	5	6	7		8	9	10	11	12		13	14	15	16
		7	S	R	1	9	1	□	-	□	□	A	1	2	-	□	C	A	0

Capa

Capacitor Bank protection relay

Protection Product
Miscellaneous Protection — 9
Relay Type
Capacitor Protection — 1

Housing I/O and Fascia
E4 housing, 4 CT, 3 Binary Inputs / 5 Binary Outputs, 10 LEDs — 2
E4 housing, 4 CT, 6 Binary Inputs / 8 Binary Outputs, 10 LEDs — 3
E4 housing, 4 CT, 3VT, 3 Binary Inputs / 5 Binary Outputs,10 LEDs — 5
E4 housing, 4 CT, 3VT, 6 Binary Inputs / 8 Binary Outputs, 10 LEDs — 6

Measuring Input
1/5 A, 50/60Hz [1], 40-160V [2] — 1

Auxiliary Voltage
80 to 250V DC / 115V AC, binary input threshold 19V DC — G
80 to 250V DC, binary input threshold 88V DC — H
24 to 60V DC, binary input threshold 19V DC — J

Communication Interface
Standard version – included in all models, USB front port, RS485 rear port — 1

Protocol
IEC 60870-5-103, Modbus RTU and DNP3 (user selectable) — 2

Relay Cover
Standard Version – No push buttons — 1
Push Buttons – Down and Right Arrows — 2

Protection Function Packages
Standard version — C
37	Undercurrent
46M	Phase unbalance
46	Negative phase sequence overcurrent
49	Thermal overload
50	Instantaneous phase fault overcurrent
50BF	Circuit breaker fail
50N	Instantaneous earth fault
51	Time delayed phase fault overcurrent
51c	Cold load pickup
51N	Time delayed earth fault
59C	Overvoltage by current integration
60C	Unbalance Overcurrent
60CTS	CT supervision
87REF	High Impedance REF
74T/CCS	Trip & Close circuit supervision
	Re-energisation Blocking
	Programmable Logic

For variants with 3 x VT inputs, as above plus:
27/59	Under/overvoltage
47	Negative phase sequence voltage
59N	Neutral voltage displacement
60VTS	VT Supervision
67/50	Directional instantaneous phase fault overcurrent
67/50N	Directional instantaneous earth fault
67/51	Directional time delayed phase fault overcurrent
67/51N	Directional time delayed earth fault
81U/0	Under/Over Frequency

Additional Functionality
No Additional Functionality — A

[1] 4CT is configured by user setting as: 3PF + 1 Unbalance OR 1PF +3 Unbalance.
[2] Voltage rating applies to models with optional VT inputs only.