

medium**VOLTAGE**

ORMAZABAL
velatia



ekorsys units:
automation, control, protection, metering and communications
of the electrical network

ekor.rpa

Multifunctional protection unit

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Reliable innovation. Personal solutions.

www.ormazabal.com

Technical characteristics

ekor.rpa				ekor.rpa-110		ekor.rpa-120	
General characteristics							
24/48/125 V _{ac}				●		●	
Current analog inputs				4 + I ₀ ⁽¹⁾		4 + I ₀ ⁽¹⁾	
Voltage analog inputs ⁽²⁾						3 + V ₀ ⁽¹⁾	
Configurable digital inputs/outputs				9/4		9/4	
Setting groups				1		1	
Protection functions							
50-51[1]-51[2]		50N-51N[1]-51N[2]		50Ns-51Ns		●	
46		46BC				●	
67		67N ⁽³⁾		67Ns ⁽³⁾		●	
49						●	
27		59		59N		●	
Measurements							
Current				●		●	
Voltage		Active/Reactive/Apparent power				●	
Energy P+, P-, Q1, ..., Q4		Phi angle (φ)				●	
Control and supervision							
Circuit Breaker control & operation		Lock-out (86)		●		●	
Trip coil supervision (TCS)		Voltage presence/absence		●		●	
Events record				4000		4000	
Fault record				10		10	
LEDs/Configurable LEDs				4/0		4/0	
Trip blocked by 2 nd harmonic				●		●	
Recloser (79)				●		●	
Configuration through software				●		●	
Configuration through web				●		●	
Front communication ports				● miniusb		● miniusb	
Rear communication ports				● RS-485		● RS-485	
Communications: Serial⁽⁴⁾							
MODBUS-RTU		PROCOME		●		●	
Communications: IP⁽⁵⁾							
MODBUS-TCP		DNP3 TCP		○		○	
IEC 60870-5-104		IEC 61850		○		○	

Notes:

⁽¹⁾ Calculated

⁽²⁾ Voltage sensing capabilities according to model features

⁽³⁾ Angular and Wattmetric

⁽⁴⁾ Check with **Ormazabal** other protocols

⁽⁵⁾ Check with **Ormazabal** your IP protocol needs

Configuration:

● Standard

○ Optional



ANSI functions

- 27 - Undervoltage relay
- 46 - Negative sequence / unbalance relay
- 46BC - Broken conductor detection
- 49 - Machine or transformer thermal relay
- 50 - Instantaneous overcurrent relay
- 50N - Instantaneous earth overcurrent relay
- 50NS - Instantaneous sensitive earth overcurrent relay
- 51 - Inverse time overcurrent relay
- 51N - Inverse time earth overcurrent relay
- 51NS - Inverse time sensitive earth overcurrent relay
- 59 - Overvoltage relay
- 59N - Residual overvoltage relay
- 67 - Directional overcurrent relay
- 67N - Directional earth fault relay
- 67NS - Directional sensitive earth fault relay
- 79 - Reclosing relay (auto reclosing)
- 86 - Lockout relay

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