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## RELAY SELECTION GUIDE- MICOM P921 VS MICOM P94V



SYSTEM CONTROLS & SWITCHGEARS



Online Solutions for Electrical Needs



# Overview

System controls & switchgears is one of the fastest growing companies in India. Established in 1983, a privately owned company has unrivalled experience in the distribution of electrical products. SCS business covers a broad range of Medium Voltage Switchgears, Low Voltage Switchgears, Power Capacitors, Internal wiring accessories, Lighting, Metal Detectors, Energy Management Products and other products. Over the last 3 decades history, we've developed strong relationships with customers. Our strength lives in all of our people, who have extended our tradition of service and integrity to customers in every location and situation, and who take pride in making us one of the most resilient resources in the products we deal.

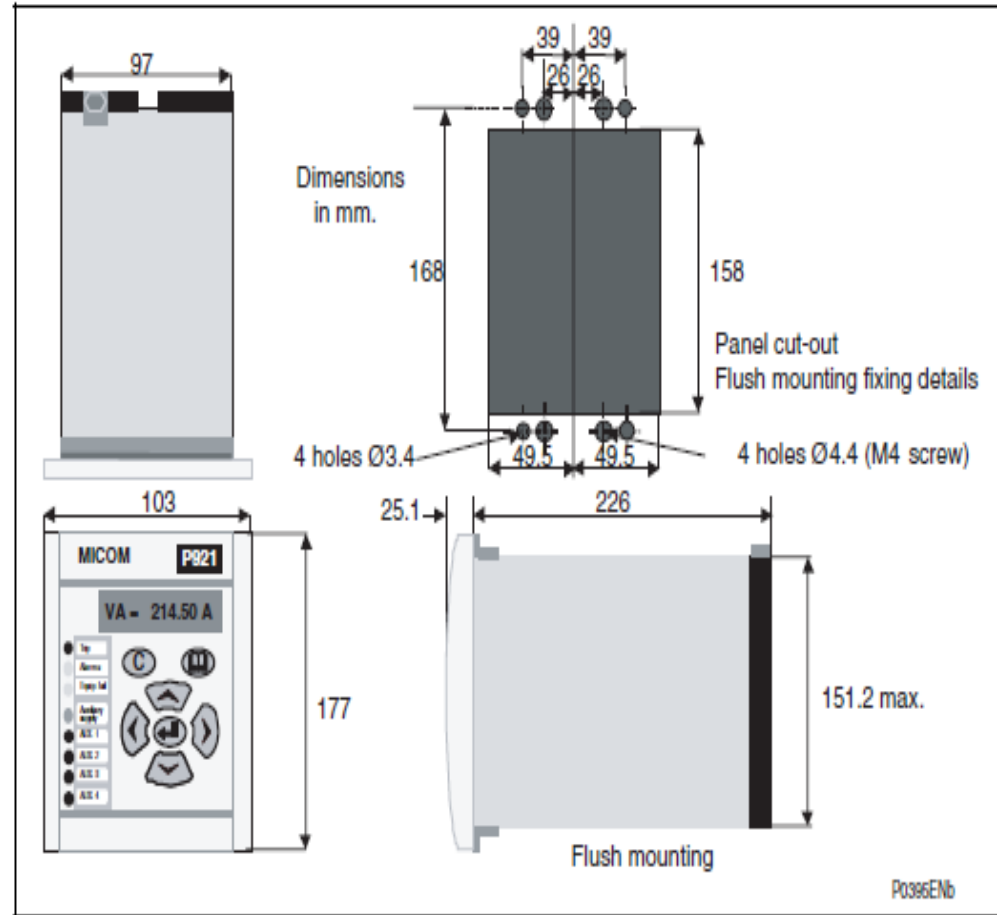
## OLD RELAY- MICOM P921



### DIMENSIONS:-

Case size of the different models:  
HEIGHT - 4U (177mm) DEPTH- 230mm WIDTH-20 TE

Weight approx. 1.7 Kg



## NEW RELAY- MICOM P94V

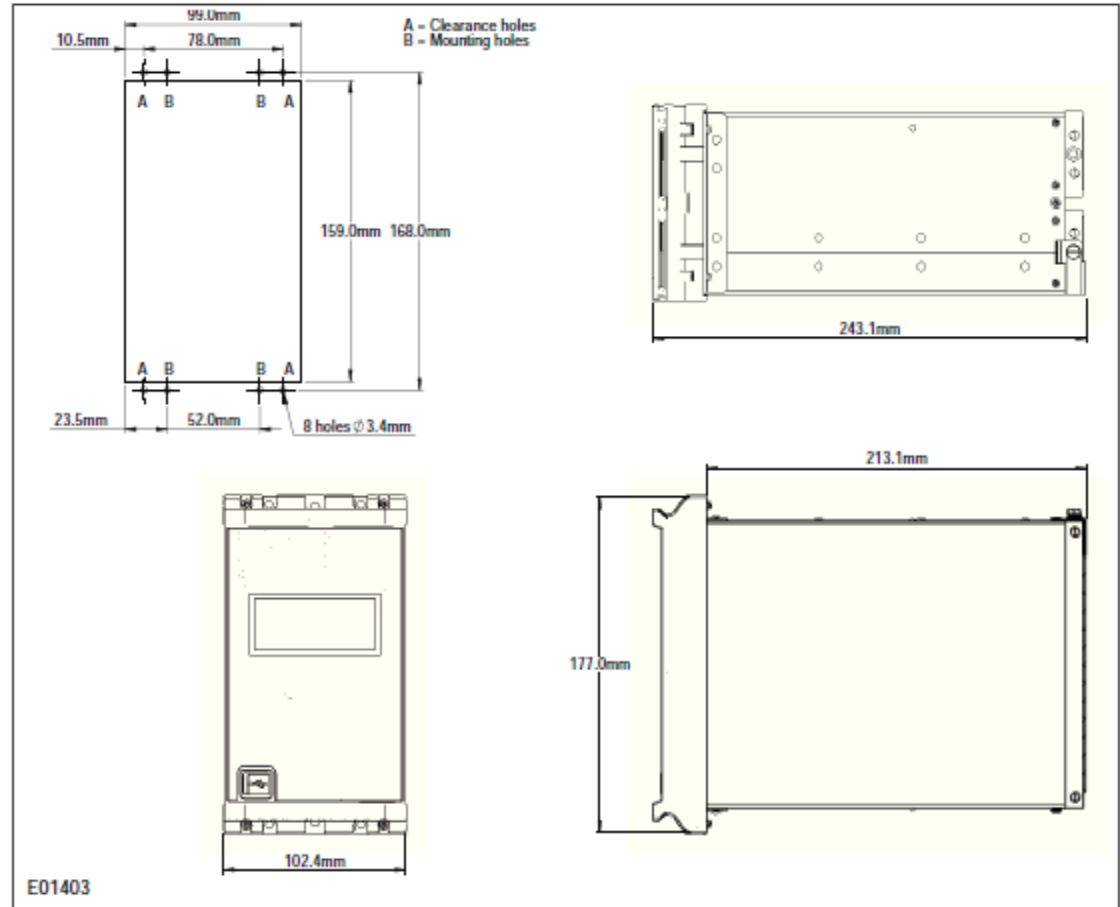


### P94V case dimensions (20TE case)

Weight (20TE case) 2 kg – 3 kg  
(depending on chosen options)

Dimensions in mm (w x h x l) (20TE case)  
W: 102.4mm H: 177.0mm D: 243.1mm

Mounting Panel, rack, or retrofit

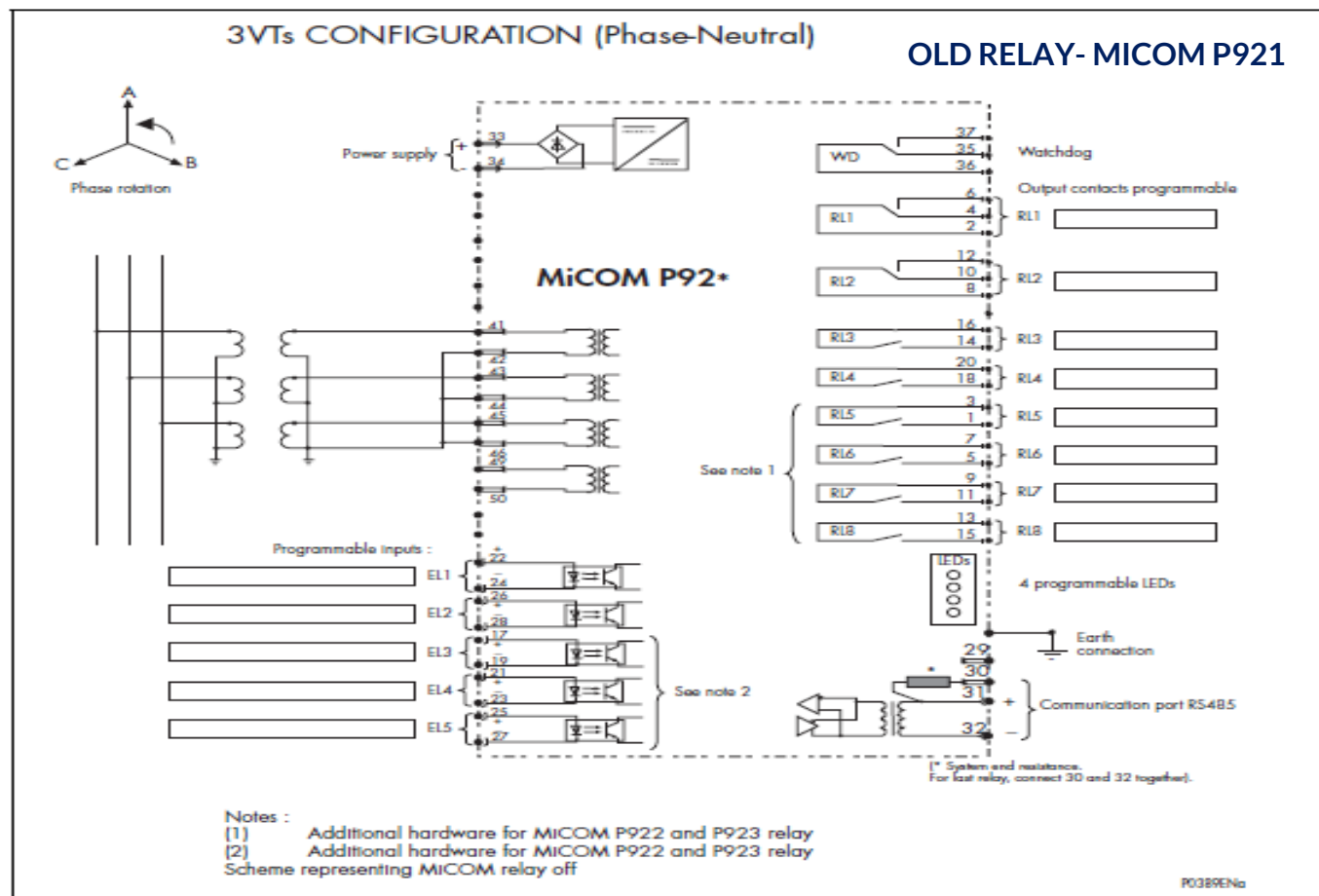


PROTECTION FUNCTIONS OVERVIEW		P921	P922	P923
	Configuration depending on the number and type of voltage transformers	x	x	x
	Phase-to-neutral or phase-to-phase voltage protection	x	x	x
27	Phase under voltage (AND/OR logic)	x	x	x
59	Phase over voltage (AND/OR logic)	x	x	x
	Settable hysteresis	x	x	x
59N	Zero-sequence over voltage	x	x	x
47	Negative sequence over voltage	-	x	x
27D	Positive sequence under voltage	-	x	x
81U/81O	Under/over frequency	-	x	x
81R	Rate of change of Frequency	-	-	x
	Inhibition of voltage & frequency protection functions	-	-	-
	Inhibition of timers (instantaneous forcing)	-	-	-
	Blocking logic	x	x	x
	Under voltage Blocking (settable for P923)	-	x	x
	Digital inputs	2	5	5
	Output relays	4	8	8
	Remote communication (RS485 port)	x	x	x
	Local communication (RS232 port)	x	x	x

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ANSI	IEC 61850	Protection Function	P94VB	P94VP
25		Check synchronising	No	Yes
27	VtpPhsPTUV	Undervoltage	3 stages	3 stages
47		Negative sequence overvoltage	Yes	Yes
59	VtpPhsPTOV	Overvoltage	3 stages	3 stages
59N	VtpResPTOV	Residual Overvoltage	3 stages	3 stages
81O	FrqPTOF	Overfrequency	Yes	Yes
81U	FrqPTUF	Underfrequency	Yes	Yes
81df/dt		Rate of change of frequency (df/dt)	Yes	Yes
81RF	DfpPFRC	Frequency supervised rate of change of frequency	No	Yes
81RAV	DfpPFRC	Frequency supervised average rate of change of frequency	No	Yes
81R		Load Restoration	No	Yes
81V	DfpPFRC	Undervoltage blocking of frequency protection	Yes	Yes
		Rate of change of voltage (dv/dt)	No	Yes
		Programmable curves	Yes	Yes
		CB Monitoring	Yes	Yes
86		Latching output contacts (Lockout)	Yes	Yes









## SYSTEM CONTROLS & SWITCHGEARS

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