



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.









- Models
- P14DG Small generator applications

(ANSI Code- 50,51,51N,50N,46,47,49,46BC,67,67N,68,37,CBFP,27,59,59N,81U,81O81DF/DT,86,80,60,25,32,95)

▶P342 Generator Protection

(ANSI Code- 50/51/67,50N/51N,67N,64,51V,21,59N,27/59,81U/O, 32R,40,46T,47,49,24,50BF,37,25,)

>P343 Generator Protection with 87G/T, 78, 27/59TN,(27/50)

(ANSI Code- P342 + 87G +78 Pole slipping + 27/59TN100% stator Earth fault through 3rd Harmonic.+27/50 Unintentional energisation at standstill)

► P344 Generator Protection, as P343 with 2nd neutral voltage (59N) input (ANSI Code- P343 + Extra DI/DO + 5 PT input)

*Manufacturing for this product has been discontinued. As an alternative, please refer to P345

▶P345 Generator Protection as P344 with 100% Stator Earth Fault via low frequency injection (64S) (ANSI Code- P344 + 9CT and 6PT, 100% stator Earth fault through Frequency injection principle)

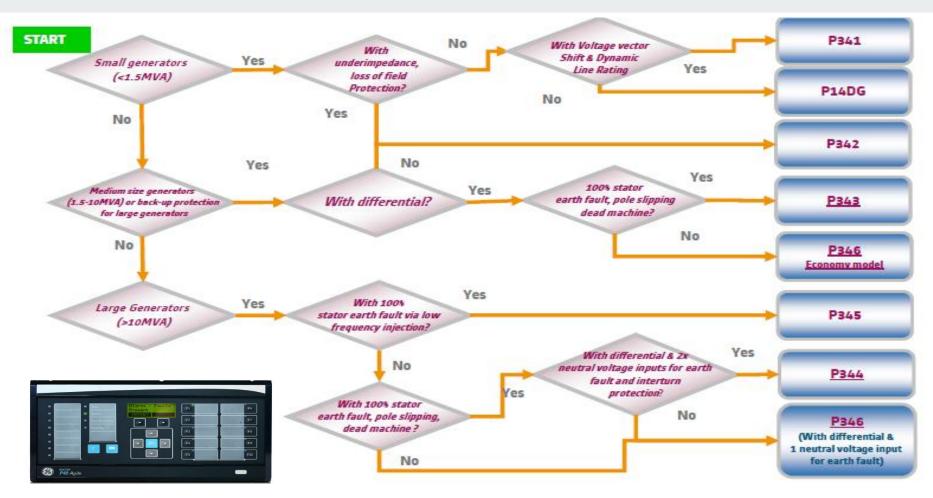
▶P346 Generator Protection, as P343 with 100% SEF (27/59TN), pole slipping (78), Dead Machine (27/50) removed

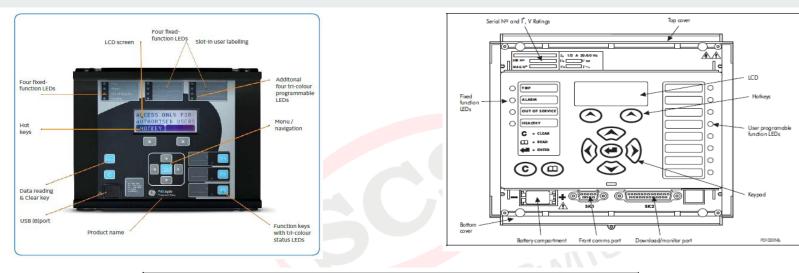
(ANSI Code- 87,50/51/67,50N/51N,67N,64,51V,21,59N,27/59,81U/O,32R,40,46T,47,49,24,50BF,37,25,)

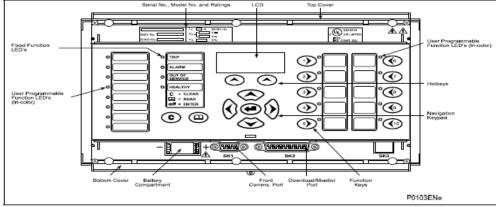
>P391 Rotor earth fault coupling unit

(ANSI Code-64R)

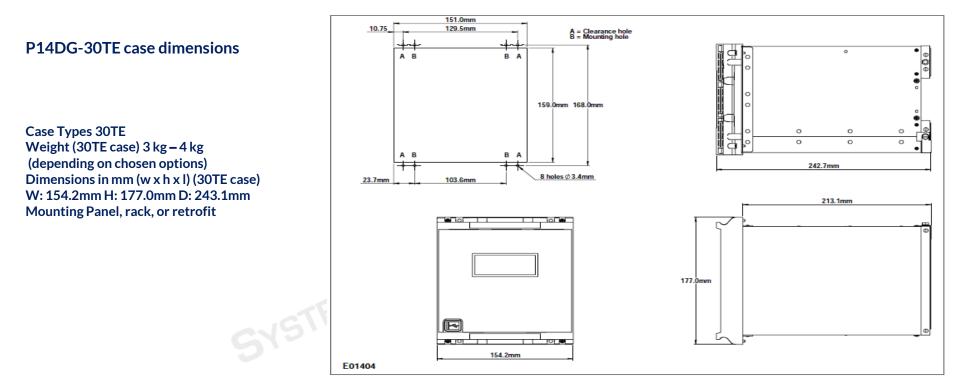
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Sr. No	Model of relay	Protocol	Input (Min / Max)	Outputs (Min / Max	CT INPUTS	VT INPUTS	ANSI Code
а		Modbus / IEC103/61850	8/13	8/12	4		50,51,51N,50N,46,47,49,46BC,67,67N,68,37, CBFP,27,59,59N,81U,81O81DF/DT,86,80,60,25, 32,95



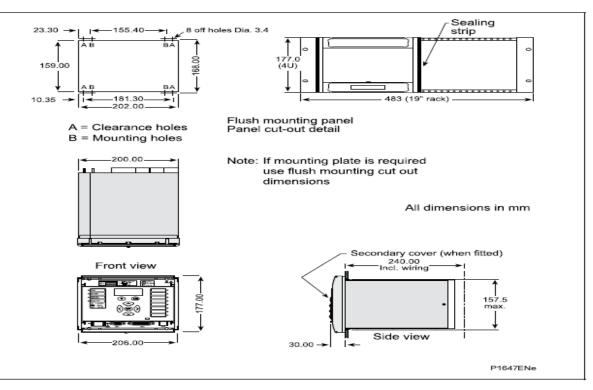
Sr. No	Model of relay	Protocol	Input (Min / Max)	Outputs (Min / Max	CT INPUTS	VT INPUTS	ANSI Code
b	Agile P342	Modbus / IEC103/61850	16/32	14/32	5		50/51/67,50N/51N,67N,64,51V,21,59N,27/59,81U/O, 32R,40,46T,47,49,24,50BF,37,25,



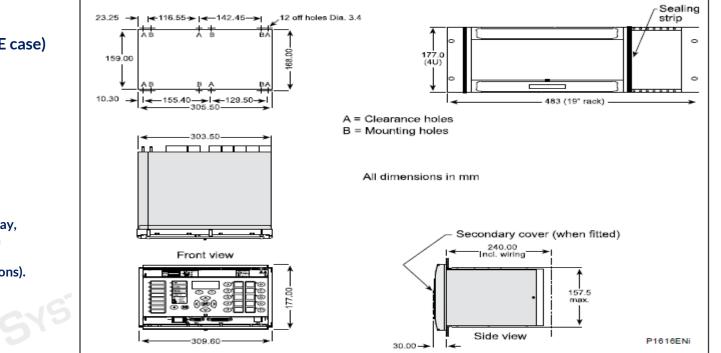
DESIGN Modular MiCOM Px40 platform relay, P342 in 40TE Mounting is front of panel flush mounting, or 19" rack mounted (ordering options).

SYSTE

WEIGHT P342 40TE): 7.9kg



Sr. No	Model of relay	Protocol	Input (Min / Max)	Outputs (Min / Max	CT INPUTS	VT INPUTS	ANSI Code
d	Agile P343	Modbus / IEC103/61850	16/32	14/32	8		P342 + 87G + Pole slipping + 100% stator Earth fault through 3rd Harmonic+27/50

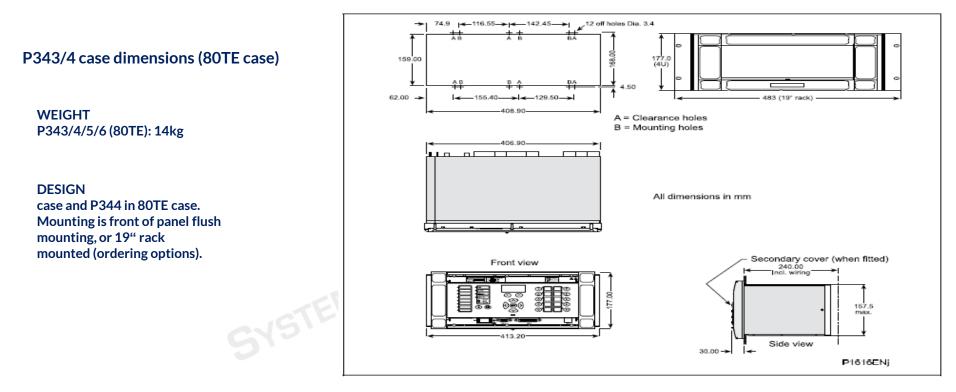


P342/3/6 case dimensions(60TE case)

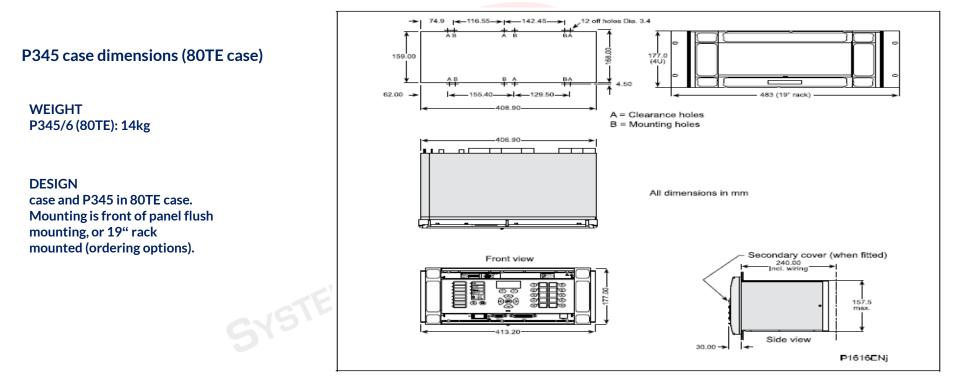
WEIGHT P342 (60TE): 9.2kg P343 (60TE): 11.5kg P343 (80TE): 14kg

DESIGN Modular MiCOM Px40 platform relay, P342 in 40TE or 60TE case, P343 in 60TE or 80TE or 19" rack mounted (ordering options).

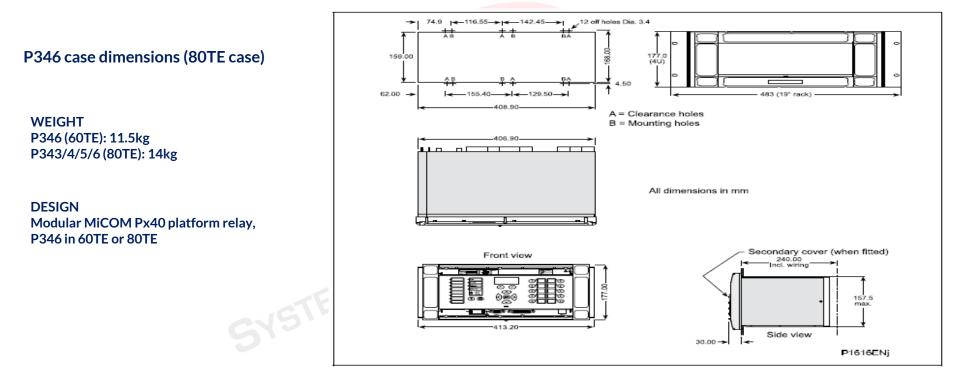
Sr. No	Model of relay	Protocol	Input (Min / Max)	Outputs (Min / Max	CT INPUTS	VT INPUTS	ANSI Code
е	Agile P344	Modbus / IEC103/61850	24/32	24/32	8	5	P343 + Extra DI/DO + 5 PT input



Sr. No	Model of relay	Protocol	Input (Min / Max)	Outputs (Min / Max	CT INPUTS	VT INPUTS	ANSI Code
F	Agile P345	Modbus / IEC103/61850	24/32	24/32	9		P344 + 9CT and 6PT, 100% stator Earth fault through Frequency injection principle.



Sr. No	Model of relay	Protocol	Input (Min / Max)	Outputs (Min / Max	CT INPUTS	VT INPUTS	ANSI Code
d	Agile P346	Modbus / IEC103/61850	16/32	14/32	8		87,50/51/67,50N/51N,67N,64,51V,21,59N,27/59,81U/O, 32R,40,46T,47,49,24,50BF,37,25, 64Rotor ground fault (available with CLIO option and P391)

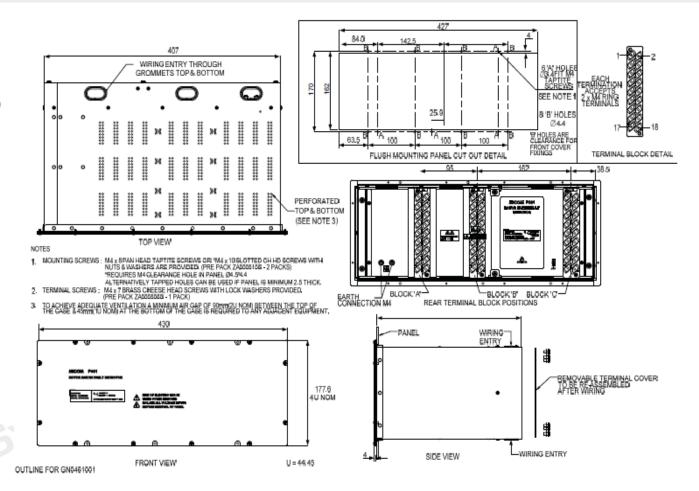


P391 case dimensions (80TE case)

P391 (80TE): 5kg 80TE case.

WEIGHT

Mounting options are, wall mounting, front of panel flush mounting, or 19" rack mounted (ordering options)



P391 ROTOR EARTH FAULT UNIT (REFU) MOUNTING

The P391 unit is dispatched either individually or as part of a panel/rack/wall assembly. Sufficient airflow must be maintained around the P391 at all times. For this reason it is essential that a minimum clearance from other equipment of 2U (89 mm) above and 1U (44.5 mm) below the P391 is maintained. The REFU is normally supplied with an outline diagram showing the dimensions for panel cut-outs and hole centers. This information can also be found in the product publication.

8.1 Rack mounting

The P391 unit can be rack mounted into a rack with M6 x16 slotted pan head screws provided.

8.2 Panel mounting

The P391 unit can be flush mounted into panels using M4 x 8 Pan head Taptite self-tapping screws provided. These fastenings are available in packs of 5 (our part number ZA0005104).

Alternatively tapped holes can be used if the panel has a minimum thickness of 2.5 mm.

8.3 Wall mounting

The P391 unit can be wall mounted using M6 anchor bolts or similar (not provided).

Power Supply

Auxiliary Voltage (Vx)60-250 V dc, or 100-230 V ac (rms) 50/60 Hz

Operating Range

48-300 V dc, or 85-253 V ac (rms) 50/60 Hz With a tolerable ac ripple of up to 12% for a dc supply, per IEC 60255-11: 1979.

Nominal Burden

Auxiliary Supply Input burden: 11 W or 24 VA.

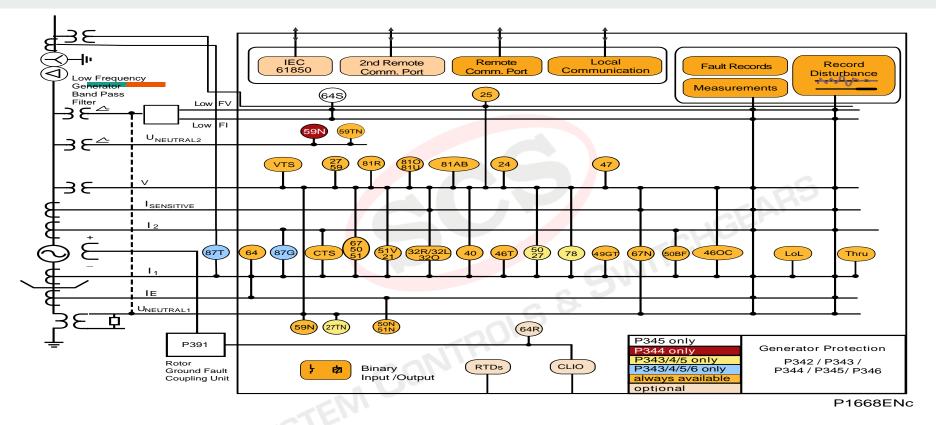
Power Supply Interruption

Per IEC 60255-11: 1979 The relay will withstand a 20 ms interruption in the DC auxiliary supply, without De-energizing. Per IEC 61000-4-11: 2004 The relay will withstand a 20 ms interruption in an AC auxiliary supply, without de-energizing.

Output Contacts

Watchdog Contacts

Non-programmable contacts for relay healthy/relay fail indication: Breaking capacity:



*Disclaimer:-

Info given herein is for ease of understanding. Customized tech info is for specific purpose SCS suggests you to take confirmation on technical details from GE experts SCS does not take responsibility or claim this will suit your needs.



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