



<https://www.gevernova.com/grid-solutions/protection-relays.htm>

GE VERNOVA

GRID SOLUTIONS



PROLINE
ENGINEERS

Selection Guide & Case Dimensions of MiCOM/Agile Series



Authorized Channel
Partner

Sr. No	Model of relay	Protocol	Input (Min / Max)	Outputs (Min / Max)	CT INPUTS	VT INPUTS	ANSI Code
A	Agile P153	Modbus/IEC103	4	4	4	0	50, 50N, 51, 51N, 68, 49, 37, 46, 46BC, 50BF, CLP, 86, 74
B	Agile P154	Modbus/DNP3.0/ IEC103	6	6	4	0	50, 51, 50N, 51N, 46, 49, 50 BF, 64R, 86, 68, 37, 46BC, CLP
C	Agile P14NB	Modbus / IEC103	3 / 13	4 / 12	4	0	50, 51, 50N, 51N, 50/51SEF, 50SOTF, 68, 46, 46BC, 49, 50BF, 86, 64N, 37, 87B
		IEC 61850	8 / 13	8 / 12	4	0	
D	Agile Enhanced P14NBE	Modbus / IEC 103	5 / 14	5 / 11	4	0	50, 50N/G, 51, 51N/G, 50/51SEF, 68, 46, 46 BC, 37, 49, 64N, 50BF, 64N, 86, CTS, DCS, CB Monitoring, Pole Discrepancy, cold load Pick Up
		IEC 61850	11 / 14	11 / 9	4	0	
E	Agile P14NZ	Modbus / IEC103	3 / 13	4 / 12	4	0	P14NB + 79, HIF, Without 64N & 87B
		IEC 61850	8 / 13	8 / 12	4	0	
F	Agile Enhanced P14NLE	Modbus / IEC103	5 / 14	5 / 11	4	0	P14NBE + 79
		IEC 61850	11 / 14	11 / 9	4	0	
G	Agile P14DA	Modbus / IEC103	3 / 8	4 / 8	4	4	50, 51, 51N, 50N, 50/51SEF, 51V, 50SOTF, 46, 47, 49, 46BC, 67, 67N, 50BF, 68, 37, 27/59, 59N, 86, 64N, 87B, CTS, VTS, DCS, CB Monitoring
H	Agile P14DH	Modbus / IEC103	6 / 13	8 / 12	4	4	50, 50N, 51, 51N, 51V, 50SOTF, 68, 46, 46BC, 67, 67N, 37, 32, 49, 50BF, 27/59, 27V/59V, 59N, 47, 81O, 81U, 81V, 81df/dt, 64N, 86, CLP, VTS, CTS, DCS, CB Monitoring
		IEC 61850	8 / 13	8 / 12	4	4	
I	Agile P14DB	Modbus / IEC103	6 / 13	8 / 12	4	4	P14DA + 81U, 81O, 81V, 81df/dt
		IEC 61850	8 / 13	8 / 12	4	4	

J	Agile Enhanced P14DBE	Modbus / IEC103	5 / 14	5 / 11	4	4	50, 50N/G, 51, 51N/G, 50/51SEF, 68, 46, 46 BC, 37, 49, 64N, 50BF, 86, 67, 67 N/G, 67_2, 27/59, 27V/59V, 59N, 47, 81O, 81U, 81V, VTS, CTS, DCS, CB Monitoring, Pole Discrepancy, cold load Pick Up
		IEC 61850	11 / 14	9 / 11	4	4	
K	Agile P14DZ	Modbus / IEC103	6 / 13	8 / 12	4	4	P14DB+ 32, 21FL, 79, 25, 81Rf, 81RAV, 81R, dv/dt, Load Encroachment Supervision, HIF, Without 64N, 87B
		IEC 61850	8 / 13	8 / 12	4	4	
L	Agile Enhanced P14DLE	Modbus / IEC103	5 / 14	5 / 11	4	4	50, 50N/G, 51, 51N/G, 50/51SEF, 68, 46, 46 BC, 37, 49, 64N, 50BF, 64N, 86, 67, 67 N/G, 67_2, 27/59, 27V/59V, 59N, 47, 81O, 81U, 81V, 32, 21FL, 79, 25, 81df/dt, VTS, CTS, DCS, CB Monitoring, Pole Discrepancy, cold load Pick Up
		IEC 61850	11 / 14	9 / 11	4	4	
M	Agile P141	K-Bus/IEC103/DNP3.0	8	7 / 8	5	3	50/51P,50/51N,67P,67N, 67W, 64,51V,46,49, 37, 27/59, 59N, DV/DT, 47,46BC, 81O, 81U, 81R, 86, 32, 50BF, 46BC, 21FL,87B, VTS, CTS, SOTF, TCS + Function key/Hotkeys (0/2)
		IEC 61850	8	7 / 8	5	3	
N	Agile P142	Modbus / IEC103	8 / 16	7/ 15	5	3	P141 + 79 + Extra DI/DO + Function key/Hotkeys (0/2)
		IEC 61850	8 / 16	7 / 15	5	3	
O	Agile P143	K-Bus / IEC103	16 / 48	14 / 32	5	4	P142 + 25 + Extra DI/DO+ Function key/Hotkeys (0/2)
		61850	16 / 48	14 / 32	5	4	
P	Agile P144	Modbus/IEC103/IEC 61850	8 / 16	7 / 15	5	4	P142+ TGFD + Function key/Hotkeys (0/2)
Q	Agile P145	K-bus/IEC103/IEC 61850	12 / 32	12 / 32	5	4	P143 + Function key/Hotkeys (10/2)

Sr. No	Model of relay	Protocol	Input (Min / Max)	Outputs (Min / Max)	CT INPUTS	VT INPUTS	ANSI Code
A	Agile P253	Modbus/IEC103	6	6	4	0	50 , 51 , 50N , 51N , 46 , 49 , 50 BF , 64R , 86, 68, 37, 14, 48, 51S, 51LR, 66, 74
B	Agile P241	Modbus/ IEC103 /IEC 61850	8 / 12	7 / 11	4	3	50/51, 50N/51N/67N, 64N/32N, 50S/51LR/51S, 27LV, 66/48/51, 50BF, 37,37P/37N, 30/46/86, 46OC, 38/49, 32R, 47, 40, 27/59, 47, 59N, 81U, 55, 14, 27ABS, TCS
C	Agile P242	Modbus/ IEC103/ IEC 61850	16	16	4	3	P241 + Function Keys (10 No's) + Extra DI/DO
D	Agile P243	Modbus/ IEC103/ IEC 61850	16	16	7	3	P242 + 87M
E	Agile P24NM	Modbus/ IEC103	3 / 13	4 / 12	4	0	50,50N,51,51N,50/51SEF,68,46,37,49, 48/51 LR, 66, 64N, 14, 50BF, 86, DCS.
		IEC 61850	8 / 13	8 / 12	4	0	
F	Agile P24DM	Modbus/ IEC103 IEC 61850	3 / 13	4 / 12	4	4	P24NM+ 67,67N,32R,27,27V,59,59V,59N,47, 27LV, 27Abs,81O,81U, 81V,81df/dt,81RF,81RAV,81R, VTS,CTS
		IEC 61850	8 / 13	8 / 12	4	4	

Sr. No	Model of relay	Protocol	Input (Min / Max)	Outputs (Min / Max)	CT INPUTS	VT INPUTS	ANSI Code
A	Agile P14DG	Modbus / IEC103	6 / 13	8 / 12	4	4	25, 50/51P, 50/51N, 67P, 67N, 64, 51V, 46, 49, 37, 27/59, 59N, 47, 86, 32, 50BF, 46BC, VTS, CTS, SOTF, TCS
		IEC 61850	8 / 13	8 / 12	4	4	
B	Agile P341	Modbus / IEC103 / IEC 61850	8 / 24	7 / 24	4	4	32, 64, 50/51P, 67P, 50N/51N, 67N, 64N/32N, 46OC, 38/49, 27/59, 59N, 47, 81U, 81O, 81R, 50BF, 49DLR TCS, LoL, Voltage vector shift,
C	Agile P343	Modbus / IEC103 / IEC 61850	16 / 32	11 / 32	8	4	P341 + 87G/T, 25, 50DT, 21, 78, 40, 27TN/59TN, 24, 50/27, 51V, 64R, 46T, 81AB, 100% Stator Earth Fault (3 rd Harmonics), Without Vector Shift & 49DLR –
D	Agile P345	Modbus / IEC103 / IEC 61850	16 / 32	16 / 32	9	6	P343 + 64S [100% Stator Earth Fault (Low Freq. Injection method)]

Sr. No	Model of relay	Protocol	Input (Min / Max)	Outputs (Min / Max)	CT INPUTS	VT INPUTS	ANSI Code
A	Agile P14DL	Modbus / IEC103	6 / 13	8 / 12	4	4	50, 51, 51N, 50N, 50/51SEF, 51V, 50SOTF, 46, 47, 49, 46BC, 67, 67N, 68, 37, 27/59, 59N, 86, 64N, 81U, 81O, 81V, 81df/dt, 32, 25, 50BF, dv/dt, 79, 81R, 81Rf, 81RAV, 21FL, CTS, VTS, DCS, CB Monitoring, Load Encroachment,
		61850	8 / 13	8 / 12	4	4	
B	Agile Enhanced P14DLE	Modbus / IEC103	5 / 14	5 / 11	4	4	50, 50N/G, 51, 51N/G, 50/51SEF, 68, 46, 46 BC, 37, 49, 64N, 50BF, 64N, 86, 67, 67 N/G, 27/59, 27V/59V, 59N, 47, 81O, 81U, 81V, 32, 21FL, 79, 25, 81df/dt, VTS, CTS, DCS, CB Monitoring, Pole Discrepancy, CLP.
		61850	11 / 14	9 / 11	4	4	
C	Agile P442	Modbus/ IEC103/ DNP3/IEC 61850	16	18 / 21	4	4	21/21N, 21P, 21G (Only Quad), 79(1/3 Pole), 78, 68, 25/50/27, 50/51P, 67P, 50/51N, 67N, 46, 46/67, 49, 27/59, 37, 59N, 81U/O, 50BF, 46BC, 50ST, 85, VTS, CTS, CVTS, TCS.
D	Agile P443	K-Bus/ IEC103/ DNP3/ IEC 61850	16 / 32	8 / 32	5	4	P442+81R without CVTS
E	Agile P444	Modbus/ IEC103/ DNP3/ IEC 61850	24	32 / 46	4	4	P442 + IEC 61850 - 9-2 (Sampled Values) process bus
F	Agile P445	K-Bus/IEC103/ DNP3/ IEC 61850	8 / 16	8 / 16	4	4	21/21N, 21P (Mho) , 21G (Mho/Quad) , 79 (3 Pole), 78, 25, 50/27, 50/51P, 67P, 50/51N,67N, 46, 46/67, 49, 27/59, 59N, 81U/O, 81R, 50BF, 46BC, 50ST, 85 VTS/CTS, TCS
G	Agile P446	K-Bus/IEC103/ DNP3/ IEC 61850	24	8 / 32	8	5	P444 + 21P (Mho) , 21G (Mho), 81R, Delta Direction Comparison Without CVTS

Sr. No	Model of relay	Protocol	Input (Min / Max)	Outputs (Min / Max)	CT INPUTS	VT INPUTS	ANSI Code
A	Agile P541	Modbus/ IEC103/ DNP 3	8	7	4	0	87P, 50/51P, 50/51N, 49, 50BF, TCS
B	Agile P542	Modbus/ IEC103/ DNP 3	16	14	4	0	P541 + 79 (3 Pole)
C	Agile P543	K-Bus/IEC103/ DNP 3/ IEC 61850	16	11 / 14	5	4	P542 + 87N, 67P, 67N, 64, 21, 78, 25, 46, 81U/O, 79(1/3 Pole), 27/59, CTS
D	Agile P545	K- Bus/ IEC103/ DNP 3/ IEC 61850	24 / 32	24 / 32	5	4	P543 + Extra DI/DO
E	Agile P546	K- Bus/ IEC103/DNP3 / IEC 61850	24	8 / 32	8	5	87P, 87N, 50/51P, 67P, 50/51N, 67N, 64W, 21, 78, 46, 49, 81U/O, 50BF, 27/59, TCS, CTS, IEC 61850-9-2 Process Bus + Extra DI/DO
F	Agile P54A	K-Bus/ IEC103/ DNP 3/ IEC 61850	8	8	4	0	87P, 50/51, 50N/51N, 46, 46BC, 49, 50BF, CTS.
G	Agile P54B	K-Bus / IEC103/ DNP 3/ IEC 61850	8	8	5	4	P54A+ 67P, 67N, 27, 59, 59N, 81O, 81U, 81R, 79, 25, FL, VTS

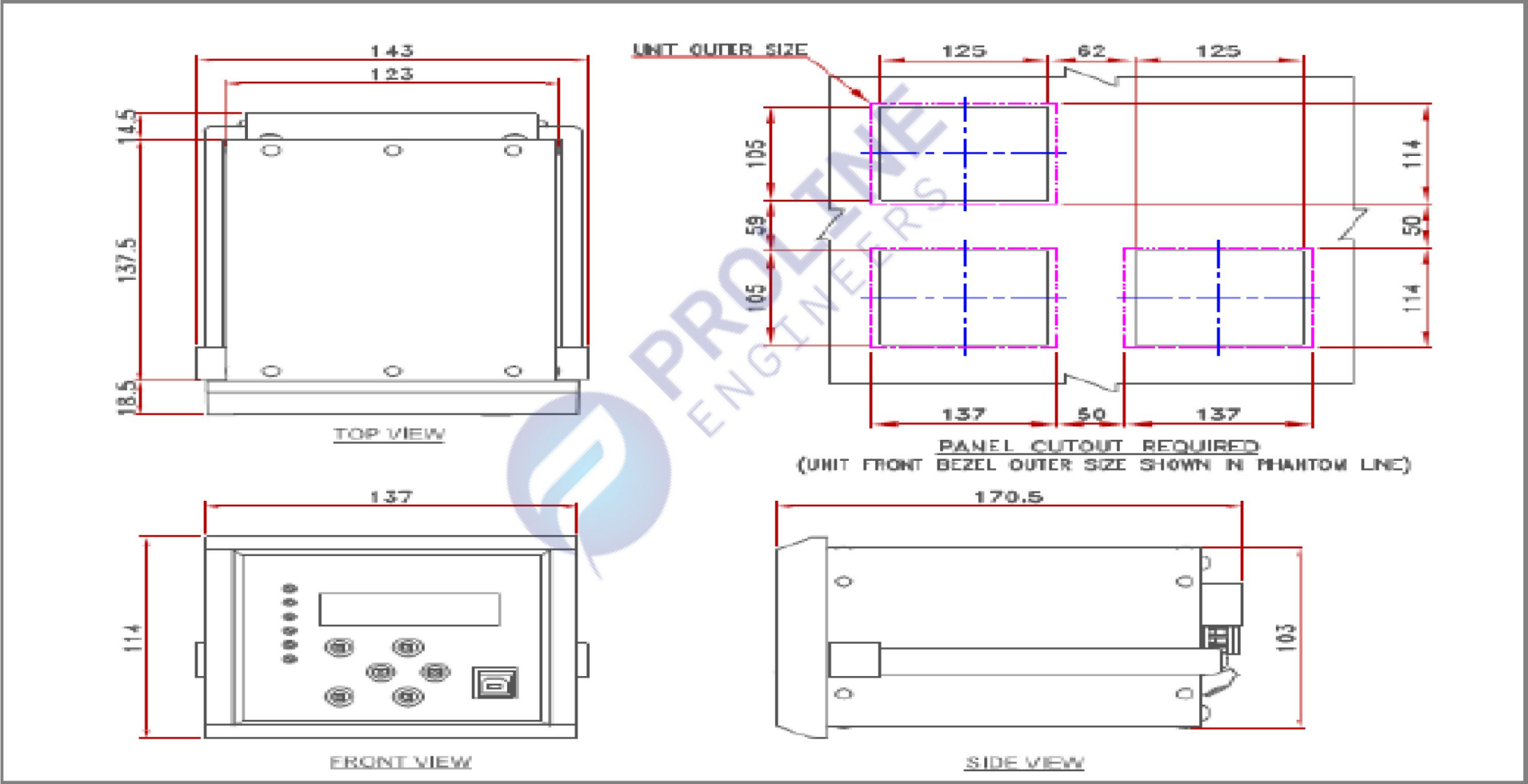
H	Agile P54C	K-Bus / IEC103/ DNP 3/ IEC 61850	16	16	5	4	P54B + 51N/67N/SEF, 64,
I	Agile P54E	K-Bus / IEC103/ DNP 3/ IEC 61850	24 / 32	32	5	4	P54C + Extra DI/DO



Sr. No	Model of relay	Protocol	Input (Min / Max)	Outputs (Min / Max)	CT INPUTS	VT INPUTS	ANSI Code
A	Micom P 652	Modbus/ IEC103/DNP3	6	6	8	0	87, 64, 50, 50N, 51, 51N, 68, 49, 46, 50BF, 86, TCS
B	Agile P642 (2-Winding)	K-Bus / IEC103/ DNP3 IEC 61850	8 / 12	8 / 12	8	1 / 2	87T, 87G/64, 24, 50/51P, 67P, 50/51N, 67N, 46, 49, LOL, 81U/O, 50BF, CTS, TCS
C	Agile P643 (3-Winding)	K-Bus / IEC103/ DNP3/ IEC 61850	16 / 40	8 / 24	12	1 / 4	P642 + 27/59
D	Agile P645 (5-Winding)	K-Bus / IEC103/ DNP3/ IEC 61850	16 / 40	8 / 24	18	1 / 4	P643 + IEC 61850-9-2 Process Bus, Extra DI/DO

Sr. No	Model of relay	Protocol	Input (Min / Max)	Outputs (Min / Max)	CT INPUTS	VT INPUTS	ANSI Code
A	Agile P 94 VB	Modbus / IEC103	3 / 13	4 / 12	0	4	27/59, 27V/51V, 59N, 47, 81O, 81U, 81V, 81df/dt, 86, DCS
		IEC61850	3 / 13	4 / 12	0	4	
B	Agile Enhanced P94VBE	Modbus / IEC103	5 / 14	5 / 11	0	4	27/59, 27V/59V, 59N, 47, 81O, 81U, 81V, 86, DCS
		IEC 61850	11 / 14	9 / 11	0	4	
C	Agile P 94 VP	Modbus / IEC103	3 / 13	4 / 12	0	4	P94VB + dv/dt, 25, 81Rf/ 81RAV, 81R
		IEC 61850	8 / 13	8 / 12	0	4	
D	Agile Enhanced P94VPE	Modbus / IEC103	5 / 14	5 / 11	0	4	P94VBE + 79, 25, 81df/dt
		IEC 61850	11 / 14	9 / 11	0	4	
E	Agile P 94 VR	Modbus / IEC103	3 / 13	4 / 12	0	4	P94VP + 79 without 81V
		IEC 61850	8 / 13	8 / 12	0	4	

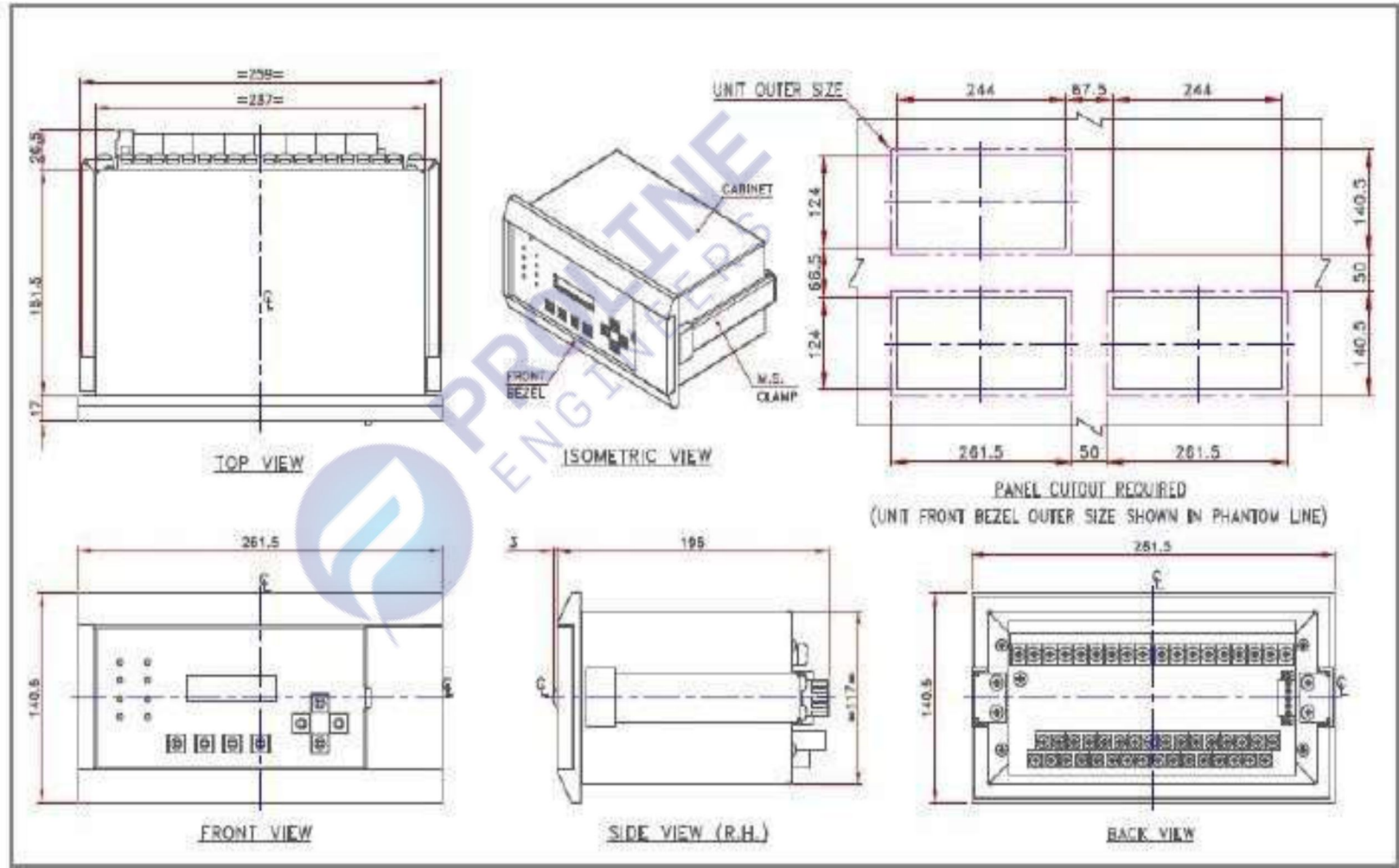
P50 Agile P153 CASE DIMENSIONS



P50 Agile P154/P252/P652 CASE DIMENSIONS

Design Flush mounting case

Weight 3.50 Kg
approximate

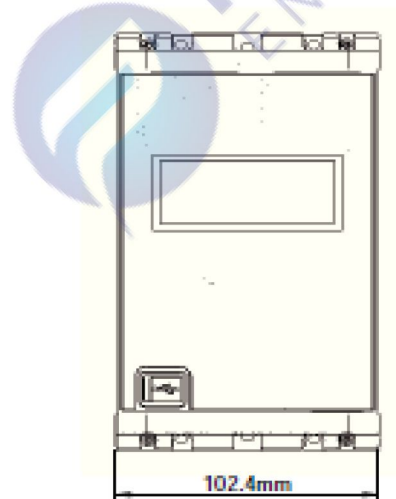
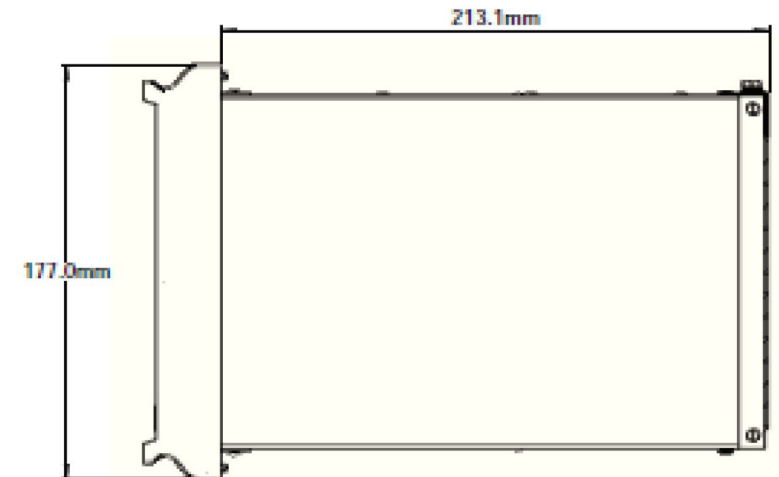
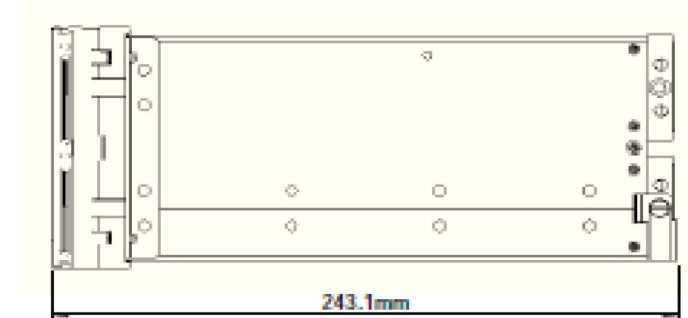
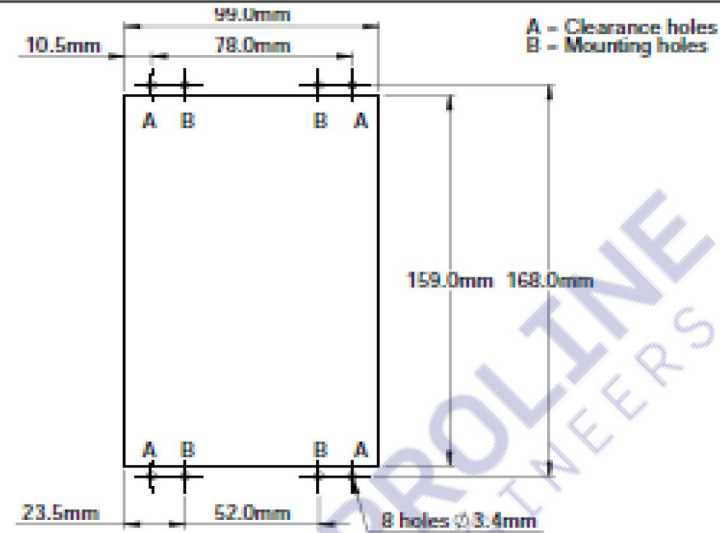


(20TE CASE) CASE DIMENSIONS

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

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

Mounting Panel, rack, or retrofit

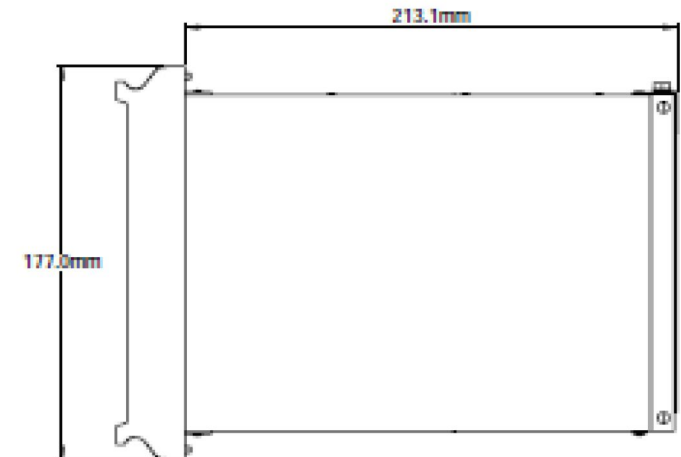
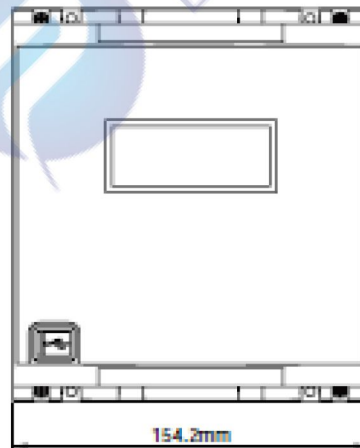
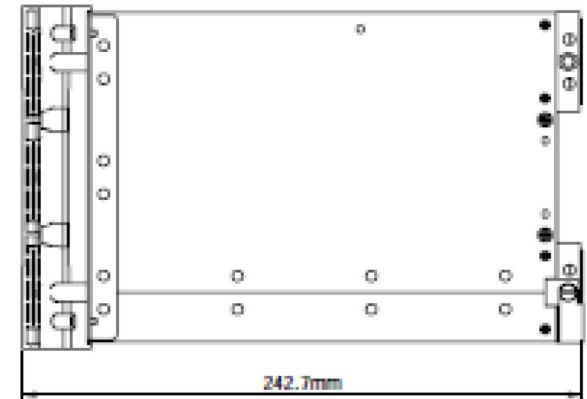
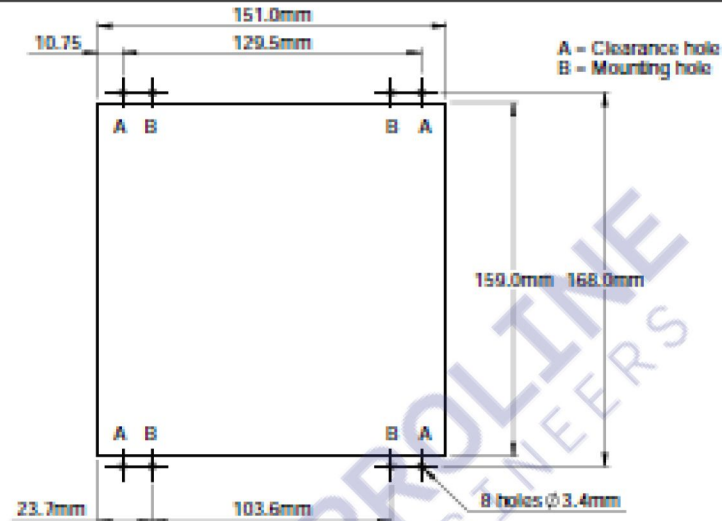


(30TE CASE) CASE DIMENSIONS

Dimensions in mm (w x h x l)
 (30TE case) W: 154.2mm
 H: 177.0mm D: 243.1mm

Weight (30TE case) 3 kg – 4 kg
 (depending on chosen options)

Mounting Panel, rack, or retrofit



(40TE CASE) CASE DIMENSIONS

DESIGN

Modular MiCOM Px40 platform
relay,

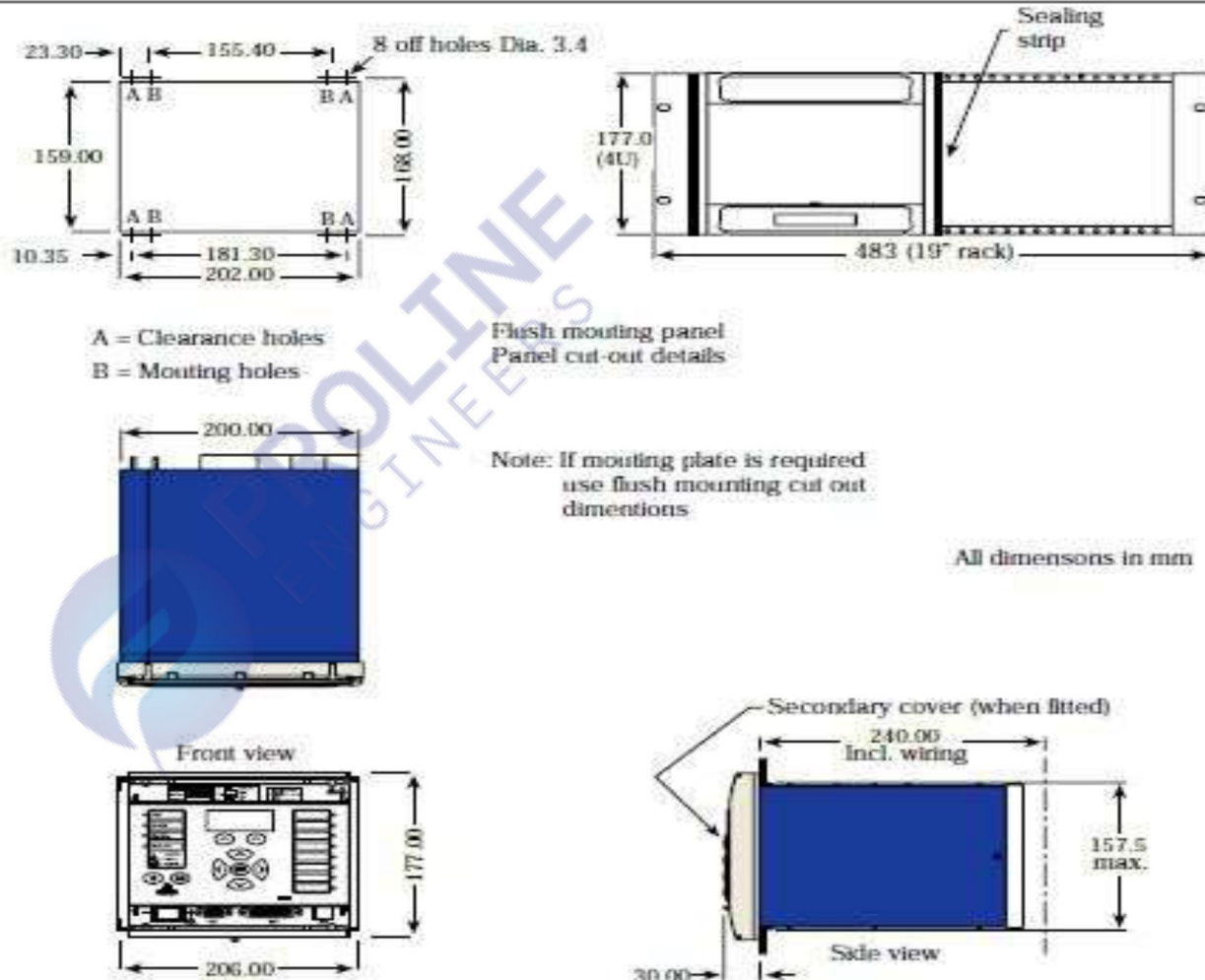
W: 206.0 mm H: 177.0 mm

D: 243.1 mm

40TE Mounting is front
of panel flush mounting, or 19" rack
mounted (ordering options).

WEIGHT

7 kg – 8 kg (depending on chosen
options)



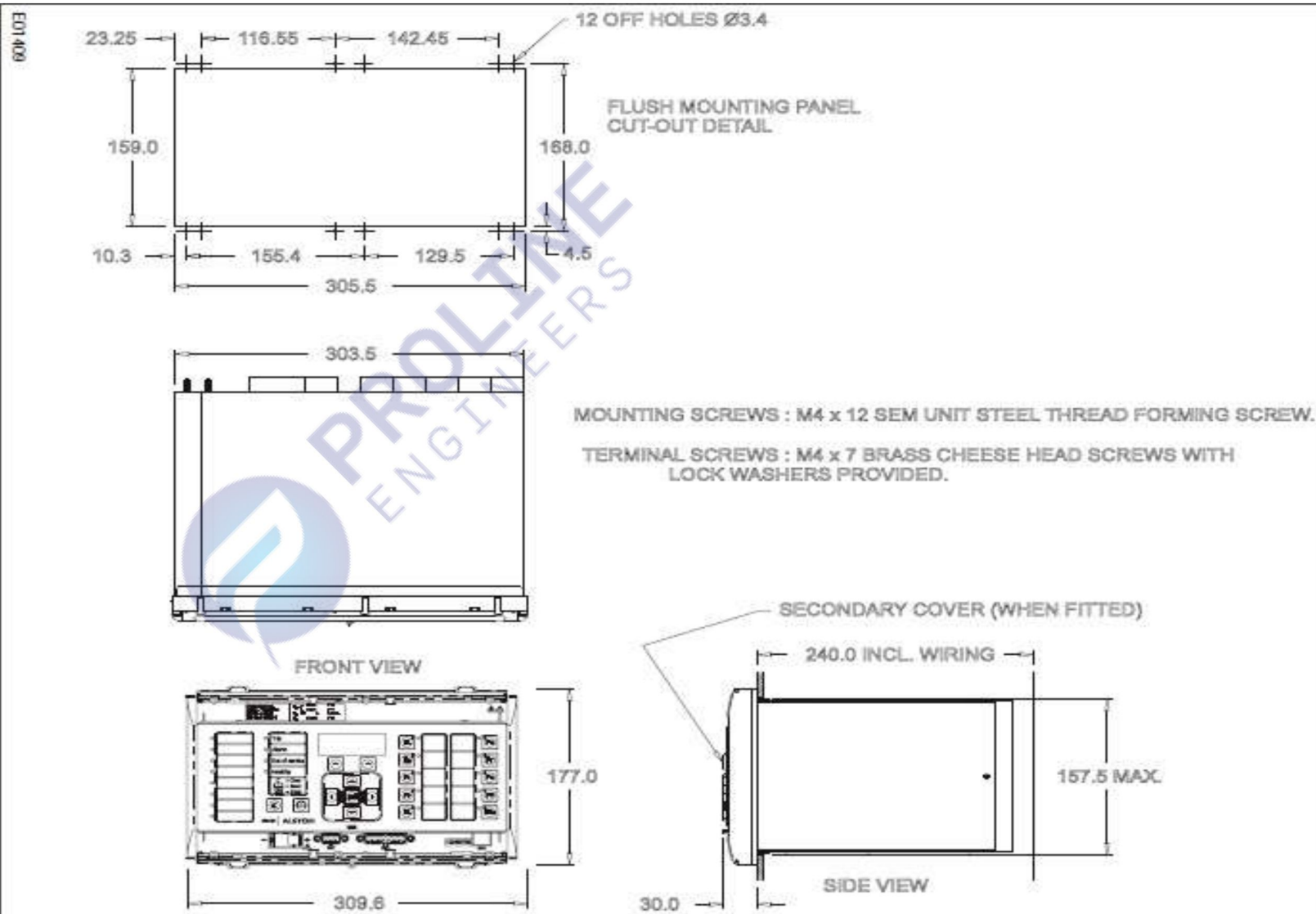
(60TE CASE) CASE DIMENSIONS

DESIGN

Modular MiCOM Px40 platform relay,
60TE W: 309.6 mm H: 177.0 mm D: 243.1 mm or 19" rack mounted (ordering options).

WEIGHT

9 kg – 12 kg (depending on chosen options)

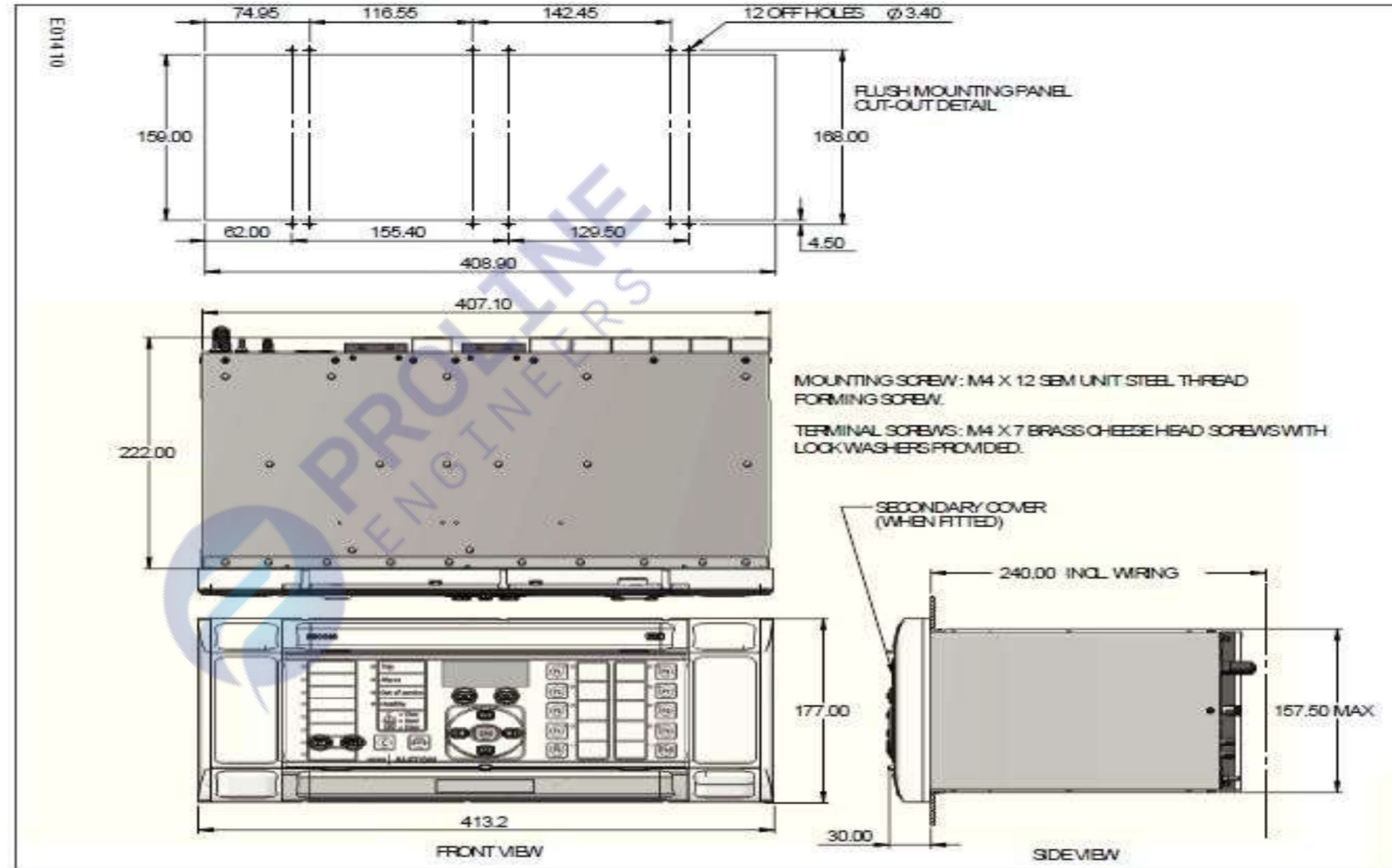


(80TE CASE) CASE DIMENSIONS

Dimensions in mm (w x h x l)
 (80TE case) W 413.2 mm
 H 177.0 mm D 243.1 mm

Mounting Panel, rack, or retrofit

Weight (80TE case) 13 kg - 16 kg
 (depending on chosen options)



Details mentioned in this leaflet is for ease of understanding. In case of any doubt or discrepancy, you may contact GE official for getting confirmation/clarification.



Office: 401, Fourth Floor, Raama Esquire, Near Tithi Heights, New Alkapuri, Gotri 390021, Vadodara



Godown: 06-12, Ground Floor, Raama Esquire, Near Tithi Heights, New Alkapuri, Gotri 390021, Vadodara



Sales Support: offer@prolineengineers.com; sales@prolineengineers.com



Product Execution: orderexecution@prolineengineers.com



Service Support: execution@prolineengineers.com; service1@prolineengineers.com



Sales Inquiries: 8141519192, 8141513137, 8141519162, 8141511137



Execution Support: 8141513129, 9409667840, 8141519262



Website: www.prolineengineers.com