

NEW ELEC

MOTOR PROTECTION & CONTROL TECHNOLOGY

GA PLUS

Ordering Information

Earth Leakage Motor Protection Relay Kits



About

The NewElec GA Earth Leakage relay provides earth leakage protection also known as ground fault protection designed to protect personnel and equipment by rapid disconnection of main supply to faulted equipment a unique feature is the integrated distinguishing between Earth leakage and Earth fault routing trips to incoming circuit breaker rather than the fault level limited main circuit contactor. Pioneers of the harmonic suppression circuit characteristics, the GA Earth Leakage protection relay enables more sensitive earth leakage protection of high kilowatt motors started direct-on-line as well as variable speed drive applications without nuisance tripping, this is achieved utilising band pass filters as well as incorporation of a screen winding on the CBCT to ensure even flux distribution under high starting current conditions

The GA Plus comes fitted with an integrated earth leakage test push button connected to the test winding on the CBCT allowing one to test functionality of GA Plus and trip circuits a rear accessed RS232 interface allowing customers to configure output trip relay configuration options, including Latched or Non-latching main trip contact, Fail-safe or Non Fail-safe options, as well as 110V-220V or 380V-525V A.C. auxiliary supply voltages.

The trip contact current rating is a sturdy 6A at 220V and 3A at 525V A.C. A latched 'contactor trip' change-over contact can only be reset by pressing the control panel mounted pushbutton.

Sensitivities range from 30mA to 1000mA with user selectable instantaneous or IDMT curve selection while using the same earth leakage core.

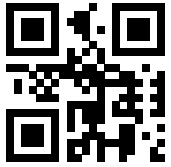
Features Include:

- Fail-safe or non fail-safe option
- Earth Leakage Protection
- Earth Fault Protection
- 110V / 220V A.C.or 380V / 525V A.C. supply
- Latching or non-latching trip contact
- Instantaneous or IDMT curve selection
- Latched 'contactor trip' C/O contact
- Harmonic Suppression
- Adaptor plate to fit 71 x 94mm cut-out
- Intergrated Earth Leakage Test Push button
- User programmable options
(MA selection, Latching or Non-Latching, Failsafe or Non-Failsafe, 110/220V or 380/525V)



A South African Company to be Proud of





Ordering Details

GA 1 - P L U S - 0 2 5 0 - 3 - 4 - 5

1 - Model

GA Standard = 0
 GA ELX Model = A

2 - Range

0030 = 030mA sensitivity
 0250 = 250mA sensitivity
 0375 = 375mA sensitivity
 0500 = 500mA sensitivity
 1000 = 1000mA sensitivity

3 - Main Trip Contact

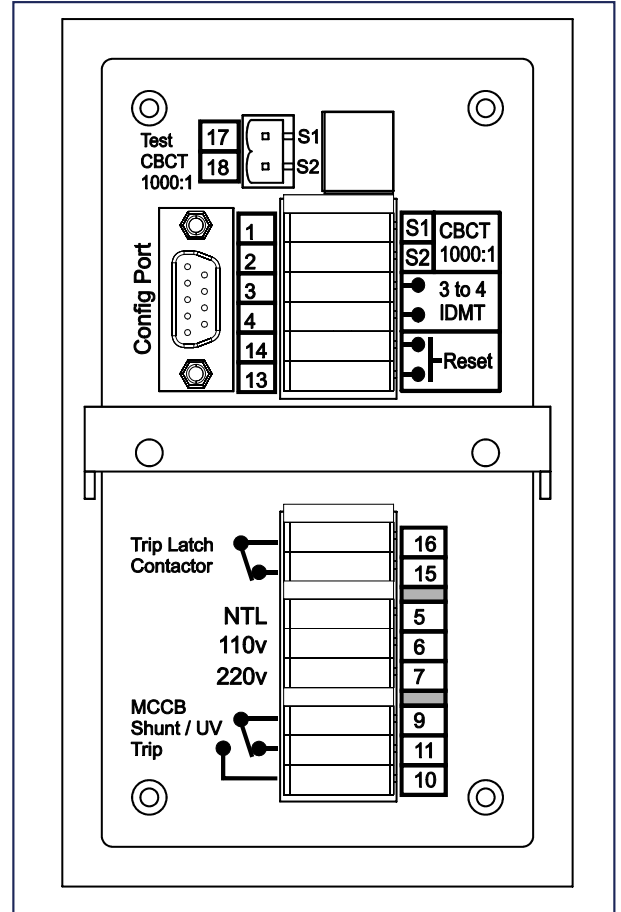
Non fail-safe = 0
 Fail-safe = B

4 - Latching or Non-Latching Main Trip

Non-latching = 0
 Latching = C

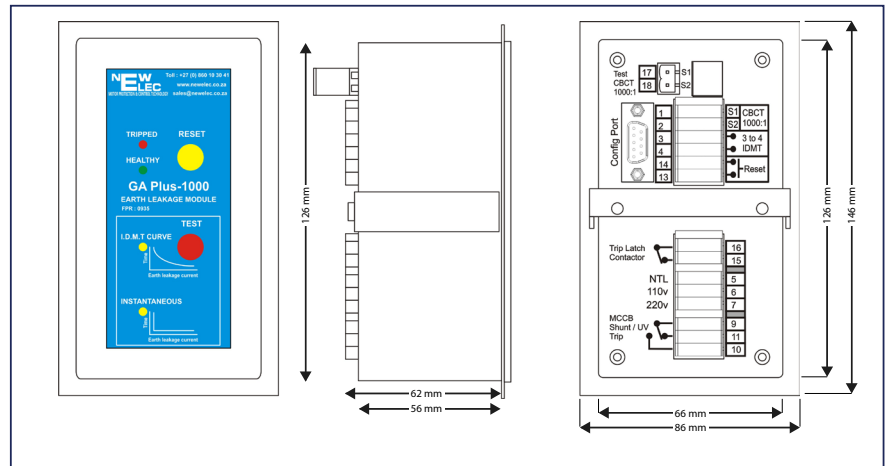
5 - Auxiliary Supply Voltage

110V / 220V A.C. = 0
 380V / 525V A.C. = D



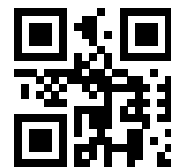
Example:

GA-A-0500-B-0-D

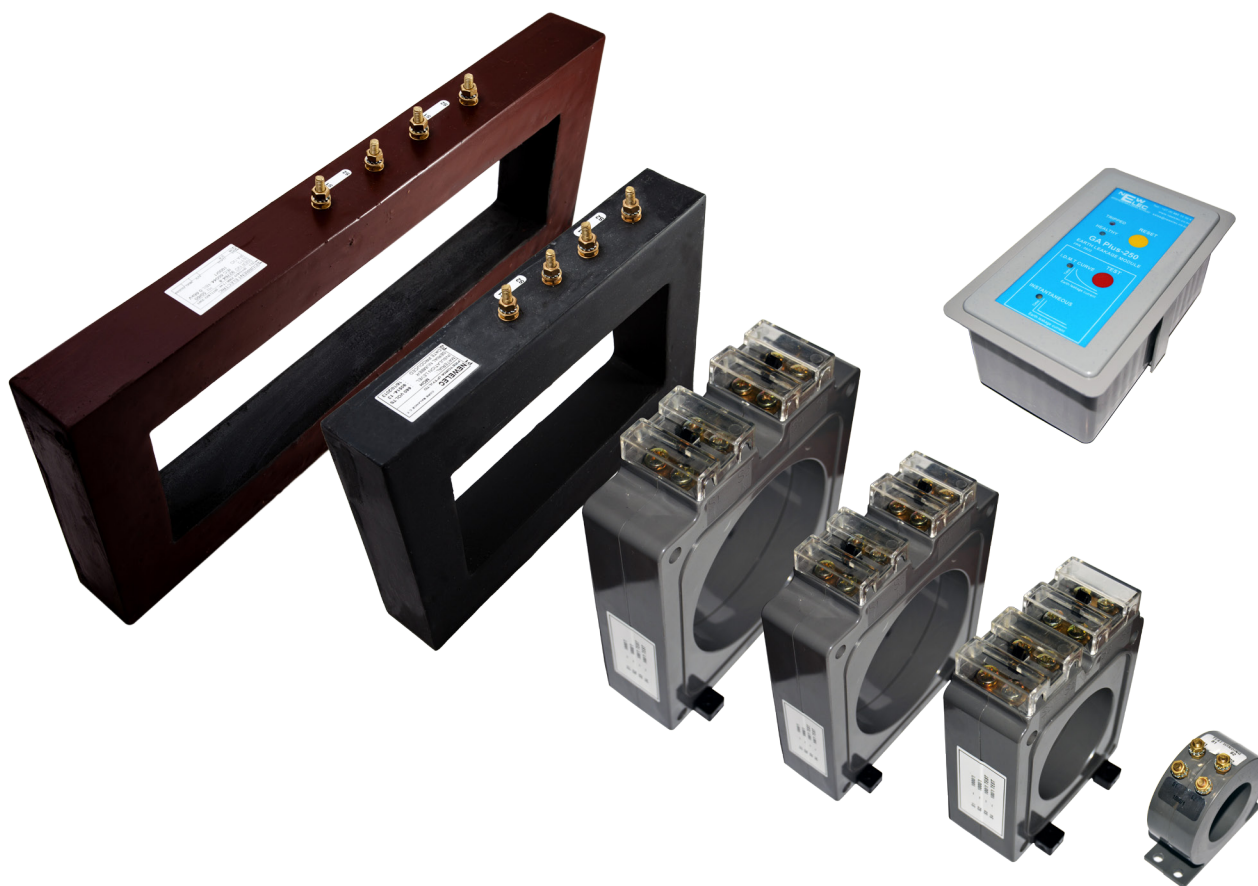


The GA Plus comes fitted with an integrated earth leakage test push button connected to the test winding on the CBCT allowing one to test functionality of GA Plus and trip circuits a rear accessed RS232 interface allowing customers to configure output trip relay configuration options, including Latched or Non-latching main trip contact, Fail-safe or Non Fail-safe options, as well as 110V-220V or 380V-525V A.C. auxiliary supply voltages.





C.B.C.T Selection



BTX0015 C.B.C.T 400

BTX0014 C.B.C.T 200

BTX0013 C.B.C.T 190 mm

BTX0012 C.B.C.T 150 mm

BTX0011 C.B.C.T 63 mm ID

BTX0010 C.B.C.T 43 mm

Standard Kit

Product Code

FPR0932

BTXxxxx

Description

GA0-PLUS-0250-0-0-0

The GA Plus comes fitted with an integrated earth leakage test push button connected to the test winding on the CBCT allowing one to test functionality of GA Plus and trip circuits a rear accessed RS232 interface allowing customers to configure output trip relay configuration options, including Latched or Non-latching main trip contact, Fail-safe or Non Fail-safe options, as well as 110V-220V or 380V-525V A.C. auxiliary supply voltages.





Earth Leakage Motor Protection Solution to Suite:

30mA Sensitivity



Standard Kit

Product Code	Description
FPR0931	GA0-PLUS-0030-0-0-0
BTX0010	C.B.C.T. 1100/1 GA PLUS 43mm ID

Ordering Information:

GA - - - - -

1 - Model

GA Standard	= 0
GA ELX Model	= A

2 - Range

0030	= 030mA sensitivity
0250	= 250mA sensitivity
0375	= 375mA sensitivity
0500	= 500mA sensitivity
1000	= 1000mA sensitivity

3 - Main Trip Contact

Non fail-safe	= 0
Fail-safe	= B

4 - Latching or Non-Latching Main Trip

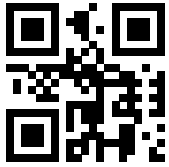
Non-latching	= 0
Latching	= C

5 - Auxiliary Supply Voltage

110V / 220V A.C.	= 0
380V / 525V A.C.	= D

The GA Plus comes fitted with an integrated earth leakage test push button connected to the test winding on the CBCT allowing one to test functionality of GA Plus and trip circuits a rear accessed RS232 interface allowing customers to configure output trip relay configuration options, including Latched or Non-latching main trip contact, Fail-safe or Non Fail-safe options, as well as 110V-220V or 380V-525V A.C. auxiliary supply voltages.





Earth Leakage Motor Protection Solution to Suite:

250mA Sensitivity



Standard Kit

Product Code	Description
FPR0932	GA0-PLUS-0250-0-0-0
BTX0010	C.B.C.T. 1100/1 GA PLUS 43mm ID

Ordering Information:

GA - - - -

1 - Model

GA Standard	= 0
GA ELX Model	= A

2 - Range

0030	= 030mA sensitivity
0250	= 250mA sensitivity
0375	= 375mA sensitivity
0500	= 500mA sensitivity
1000	= 1000mA sensitivity

3 - Main Trip Contact

Non fail-safe	= 0
Fail-safe	= B

4 - Latching or Non-Latching Main Trip

Non-latching	= 0
Latching	= C

5 - Auxiliary Supply Voltage

110V / 220V A.C.	= 0
380V / 525V A.C.	= D

The GA Plus comes fitted with an integrated earth leakage test push button connected to the test winding on the CBCT allowing one to test functionality of GA Plus and trip circuits a rear accessed RS232 interface allowing customers to configure output trip relay configuration options, including Latched or Non-latching main trip contact, Fail-safe or Non Fail-safe options, as well as 110V-220V or 380V-525V A.C. auxiliary supply voltages.





Earth Leakage Motor Protection Solution to Suite:

375mA Sensitivity



Standard Kit

Product Code	Description
FPR0933	GA0-PLUS-0375-0-0-0
BTX0011	C.B.C.T. 1000/1 GA PLUS 63mm ID

Ordering Information:

GA [1] - [P] [L] [U] [S] - [] [2] [] - [3] - [4] - [5]

1 - Model

GA Standard	= 0
GA ELX Model	= A

2 - Range

0030	= 030mA sensitivity
0250	= 250mA sensitivity
0375	= 375mA sensitivity
0500	= 500mA sensitivity
1000	= 1000mA sensitivity

3 - Main Trip Contact

Non fail-safe	= 0
Fail-safe	= B

4 - Latching or Non-Latching Main Trip

Non-latching	= 0
Latching	= C

5 - Auxiliary Supply Voltage

110V / 220V A.C.	= 0
380V / 525V A.C.	= D

The GA Plus comes fitted with an integrated earth leakage test push button connected to the test winding on the CBCT allowing one to test functionality of GA Plus and trip circuits a rear accessed RS232 interface allowing customers to configure output trip relay configuration options, including Latched or Non-latching main trip contact, Fail-safe or Non Fail-safe options, as well as 110V-220V or 380V-525V A.C. auxiliary supply voltages.





Earth Leakage Motor Protection Solution to Suite:

500mA Sensitivity



Standard Kit

Product Code	Description
FPR0934	GA0-PLUS-0500-0-0-0
BTX0011	C.B.C.T. 1000/1 GA PLUS 63mm ID

Ordering Information:

GA 1 - P L U S - 2 - 3 - 4 - 5

1 - Model

GA Standard	= 0
GA ELX Model	= A

2 - Range

0030	= 030mA sensitivity
0250	= 250mA sensitivity
0375	= 375mA sensitivity
0500	= 500mA sensitivity
1000	= 1000mA sensitivity

3 - Main Trip Contact

Non fail-safe	= 0
Fail-safe	= B

4 - Latching or Non-Latching Main Trip

Non-latching	= 0
Latching	= C

5 - Auxiliary Supply Voltage

110V / 220V A.C.	= 0
380V / 525V A.C.	= D

The GA Plus comes fitted with an integrated earth leakage test push button connected to the test winding on the CBCT allowing one to test functionality of GA Plus and trip circuits a rear accessed RS232 interface allowing customers to configure output trip relay configuration options, including Latched or Non-latching main trip contact, Fail-safe or Non Fail-safe options, as well as 110V-220V or 380V-525V A.C. auxiliary supply voltages.





Earth Leakage Motor Protection Solution to Suite:

1000mA Sensitivity



Standard Kit

Product Code	Description
FPR0935	GA0-PLUS-1000-0-0-0
BTX0012	C.B.C.T. 1000/1 GA PLUS 104mm ID

Ordering Information:

GA 1 - P L U S - 2 - 3 - 4 - 5

1 - Model

GA Standard	= 0
GA ELX Model	= A

2 - Range

0030	= 030mA sensitivity
0250	= 250mA sensitivity
0375	= 375mA sensitivity
0500	= 500mA sensitivity
1000	= 1000mA sensitivity

3 - Main Trip Contact

Non fail-safe	= 0
Fail-safe	= B

4 - Latching or Non-Latching Main Trip

Non-latching	= 0
Latching	= C

5 - Auxiliary Supply Voltage

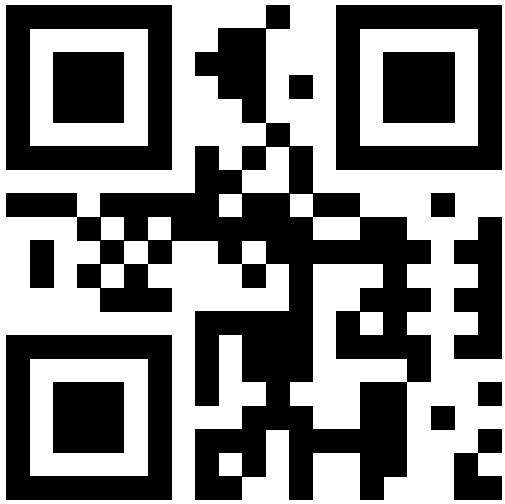
110V / 220V A.C.	= 0
380V / 525V A.C.	= D

The GA Plus comes fitted with an integrated earth leakage test push button connected to the test winding on the C.B.C.T. allowing one to test functionality of GA Plus and trip circuits a rear accessed RS232 interface allowing customers to configure output trip relay configuration options, including Latched or Non-latching main trip contact, Fail-safe or Non Fail-safe options, as well as 110V-220V or 380V-525V A.C. auxiliary supply voltages.



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