

CC61080 – Reversing Starter EExd IIB T5

**Reversing Starter in
Flameproof Enclosure for
Zone 1 and 21**



INSTRUCTIONS

Important Safety Instructions

The Exd Certified starter panel is designed for use in Zones 1, 2, 21 and 22 for use in a variety of Flammable atmospheres and can be used in the Oil and Gas, PetChem, Food and Drink, and process industries containing where IIA or IIB flammable gases or vapours, or dusty environments may be present.

Opening and closing of enclosures

Do not open while energized or in presence of explosive atmosphere.

Replace and fully tighten all cover fixing bolts before turning on the mains supply.

It was built in accordance with the valid standards, it was tested and it left the factory in a perfect condition in terms of meeting safety requirements.

To ensure that this product operates perfectly and safely, the user must take notice of all the instructions and warnings contained in these operating instructions.

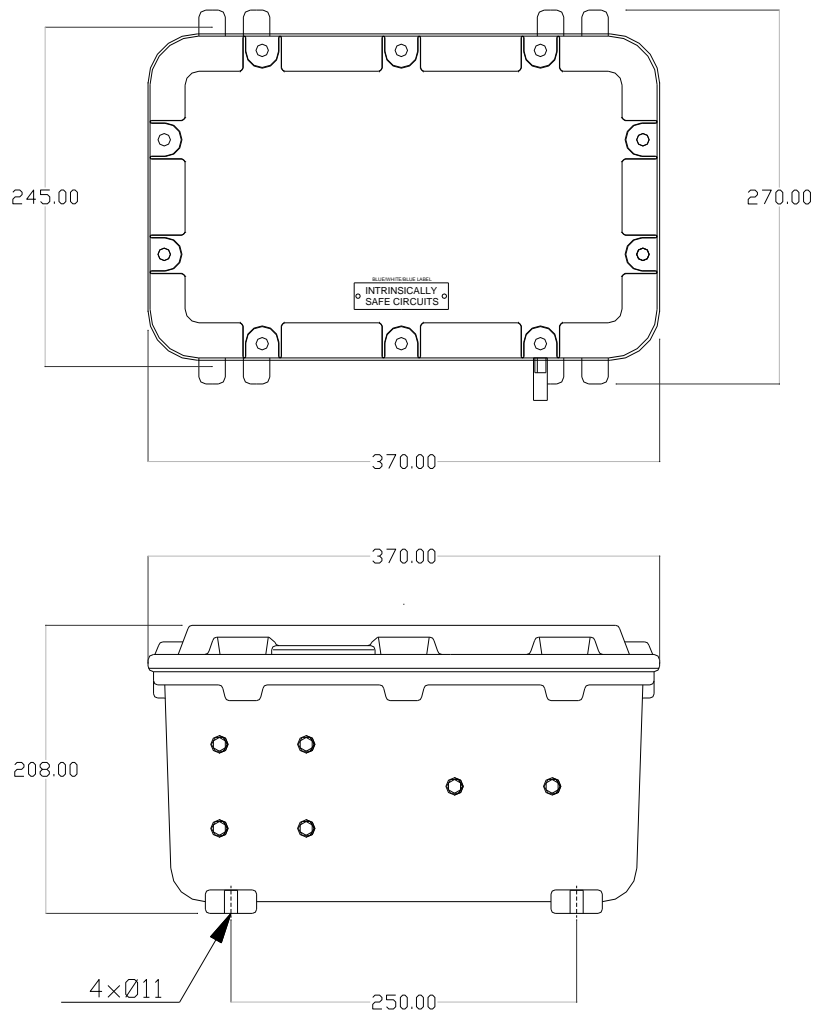
Any work relating to assembly, commissioning, maintenance and repairs must only be done by qualified specialists. As a basic rule, only electricians may work on electrical systems. They must be able to evaluate the work assigned to them, recognise possible sources of danger and be capable of taking suitable safety measures.

Contents

INSTRUCTIONS	1
Important Safety Instructions	1
External view and dimensions	3
Control Overview.....	3
General Wiring Layout.....	4
Intrinsically Safe Circuits	5
Motor Overload Relay.....	5
Starter Schematic Drawings.....	6
Mains Supply and Motor Connection.....	7
Connection Drawings.....	7
Motor Limit Switch Connections	8
Push Button Connections	9
Shoot Bolt Isolator Switches.....	10

Control Overview

External view and dimensions



Enclosure

ATEX certificate	LCIE02ATEX6057X
IECEX certificate	IECEX LCI 08.0023X
Certification coding	Ex d IIB T5 / Ex tD A21 T95°C
Ambient temp. range	-40°C ... 55°C
IP rating	IP66
Enclosure material	ALUMINIUM
Finish	RAL 7038 GREY
Max voltage	415V
Max. power dissipation	95W

There are 6 M20 pre-drilled and tapped cable entries in the bottom face of the enclosure fitted with M20 Ex d brass stopping plugs.

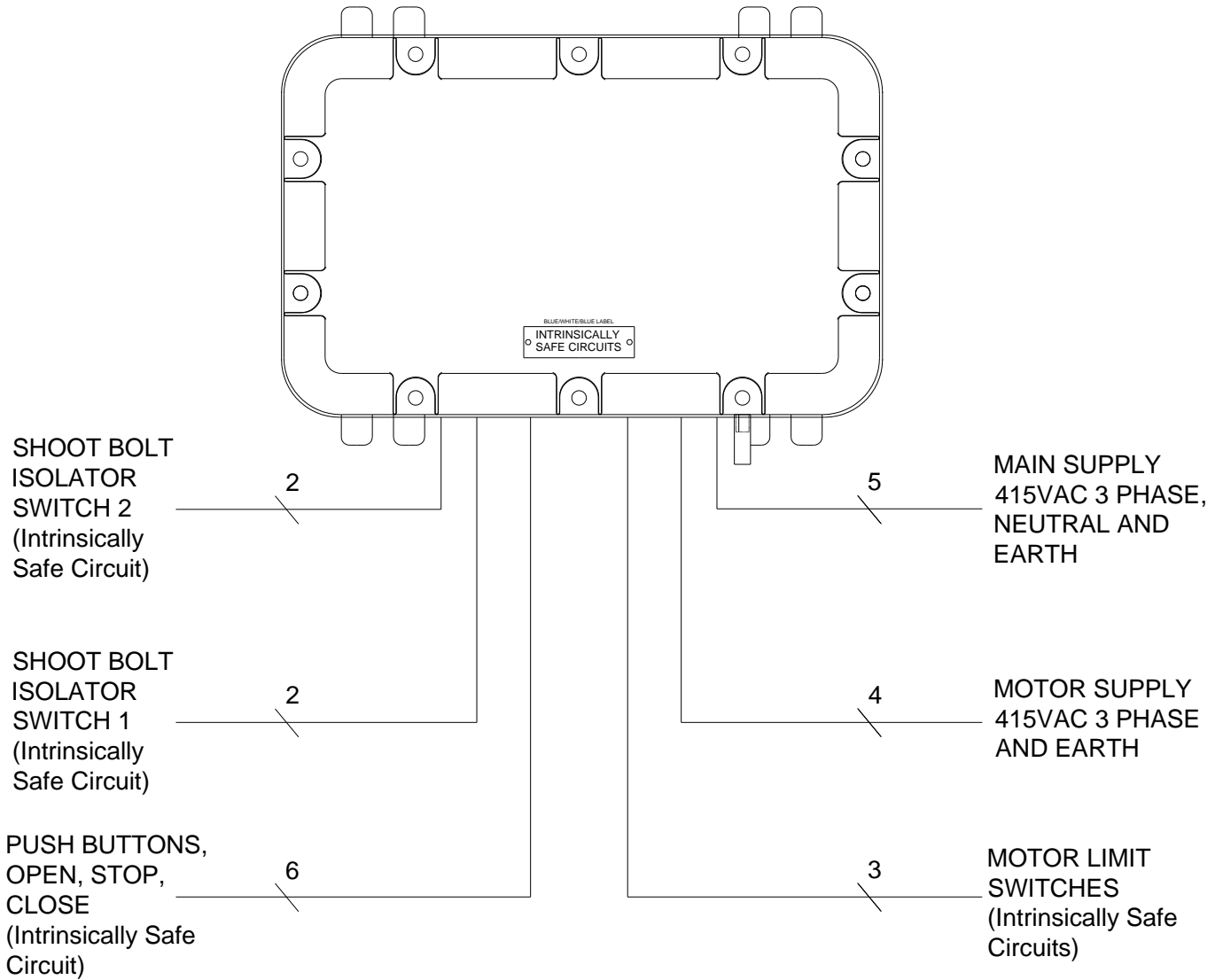
Cables must enter the enclosure through suitable approved Ex d cable glands.

The stopping plugs must not be removed from unused holes.

No metal should be removed from the enclosure i.e. extra cable entries or mounting points should not be made.

Control Overview

General Wiring Layout



$\frac{(\quad)}{\diagup \diagdown}$ Number of Cable Cores

Intrinsically Safe Circuits must be run separately from other non-intrinsically safe circuits. Cables of intrinsically safe circuits must be protected from mechanical damage, identified light blue and enter the enclosure through light blue cable glands.

Mains Supply and Motor Supply cables must be sized to suit the Motor being connected.

Intrinsically Safe Circuits

The Motor Limit Switches, Push Buttons and Shoot Bolt Isolator Switch Circuits are Intrinsically Safe therefore these devices do not need to be Explosion Proof or EX rated components. The wiring to these devices must be run separately from any non-intrinsically safe circuits. i.e. the motor limits cannot be run in the same cable, conduit or trunking as the motor supply cables.

Intrinsically safe circuit wiring cable should be identified in light blue and should enter the enclosures through blue glands.

Motor Overload Relay

It is essential that the correct overload relay is fitted and adjusted to suit the size of motor connected.

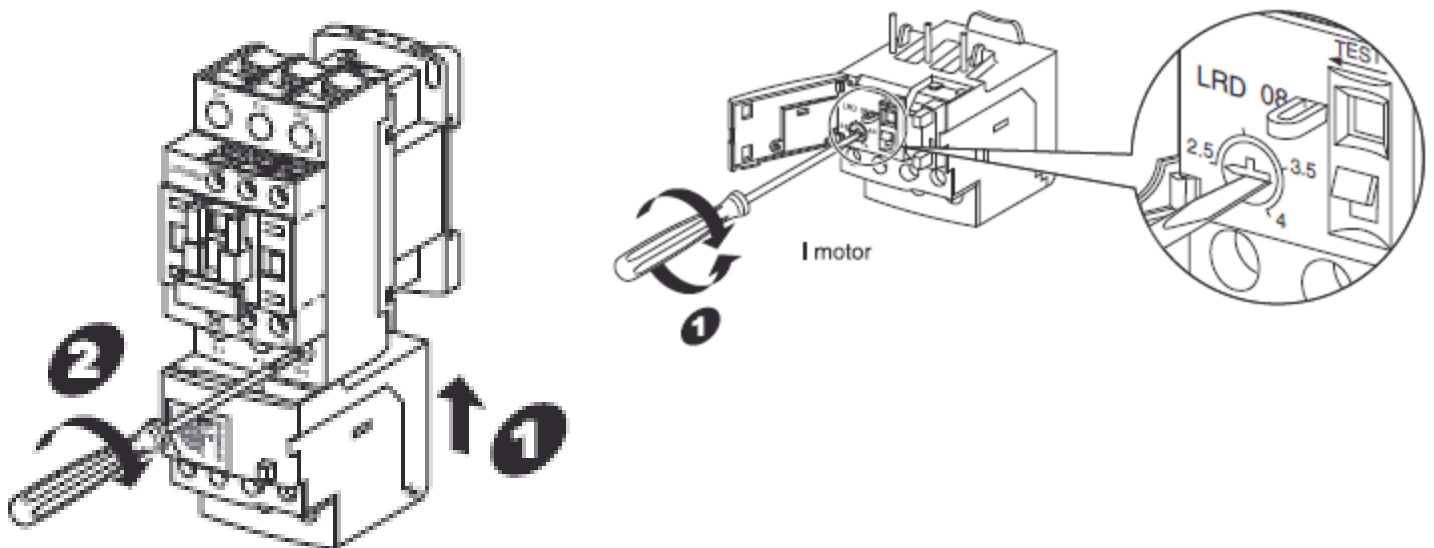
Refer to the specific drive instruction booklet or motor rating plate and fit the overload that covers the range suitable for the motor.

0.6 – 1.0A Overload Relay – LRD05

1.0 – 1.6A Overload Relay – LRD06

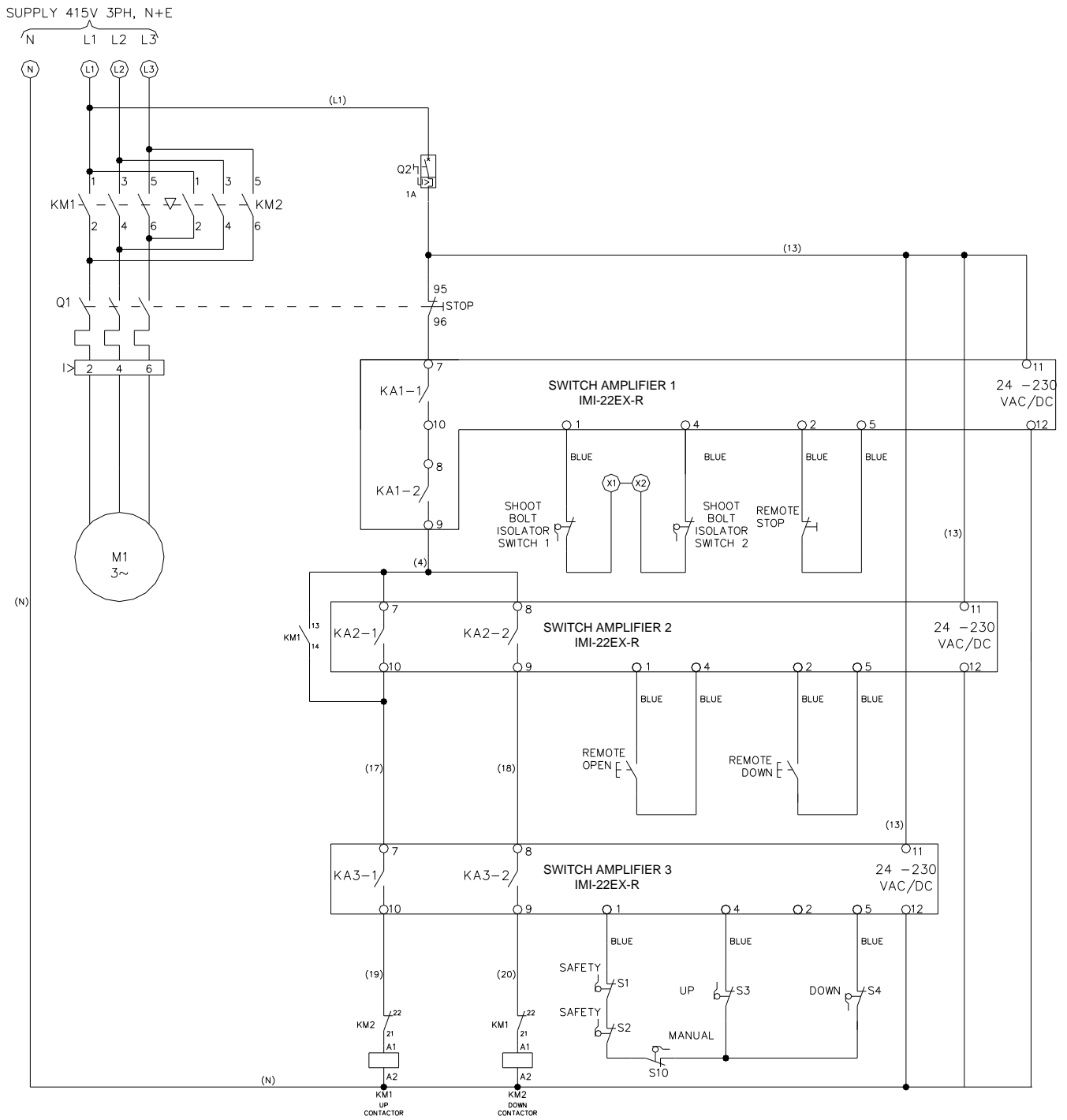
1.6 – 2.5A Overload Relay – LRD07

2.5 – 4.0A Overload Relay – LRD08



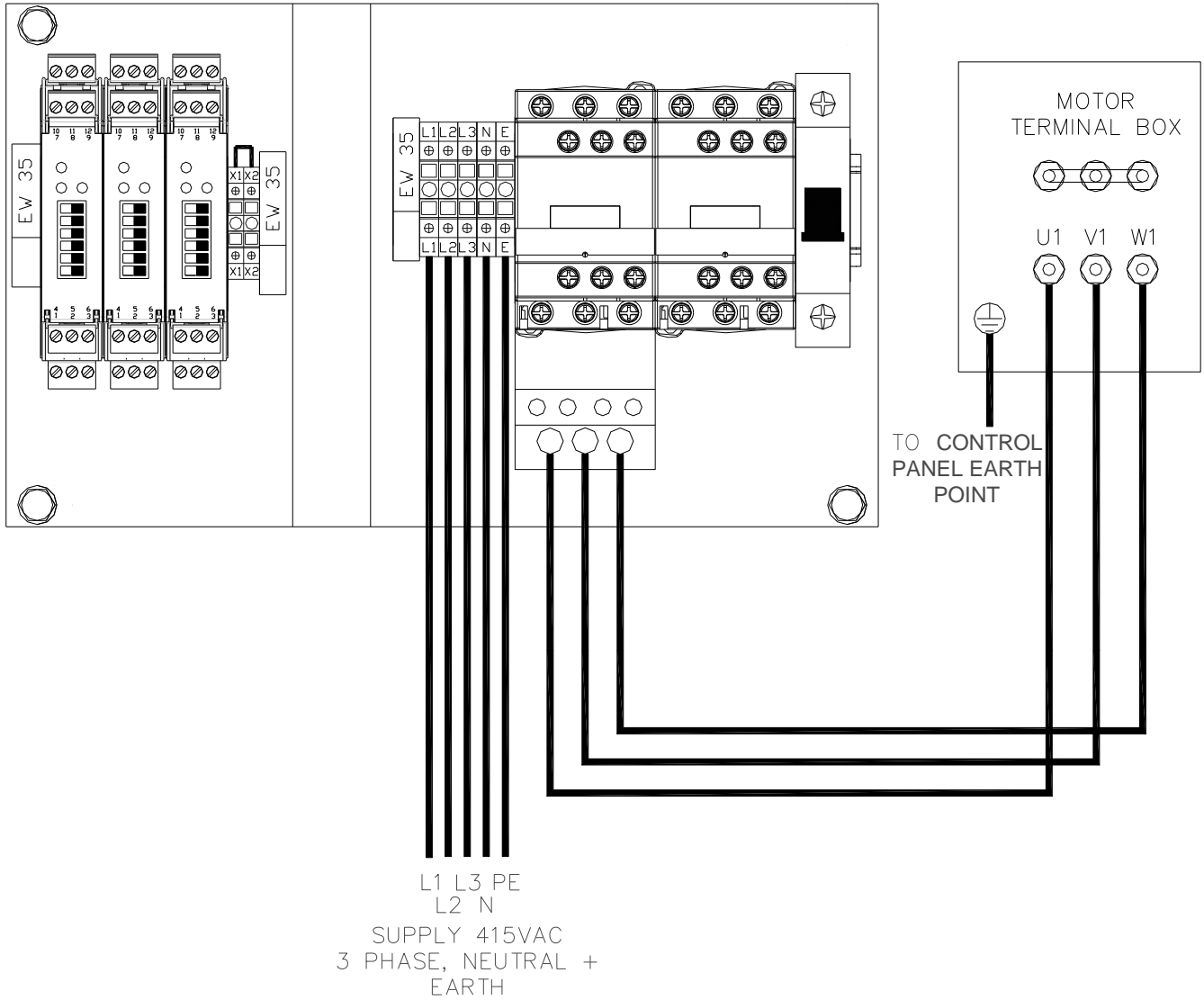
Adjust the overload to suit the motor current rating.

Starter Schematic Drawings



Connection Drawings

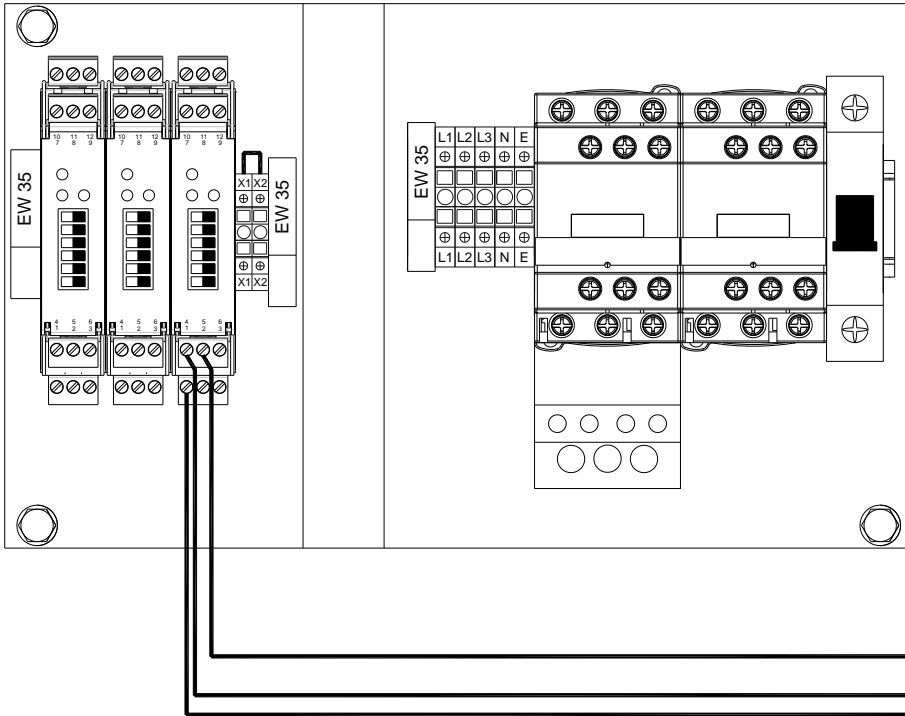
Mains Supply and Motor Connection



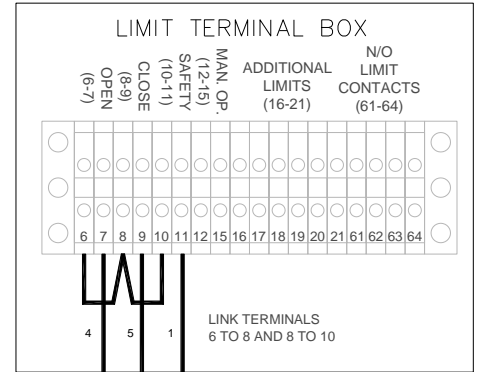
All cables must enter the enclosures through the pre-drilled and tapped holes using correctly fitted EExd rated cable glands.

Connection Drawings

Motor Limit Switch Connections

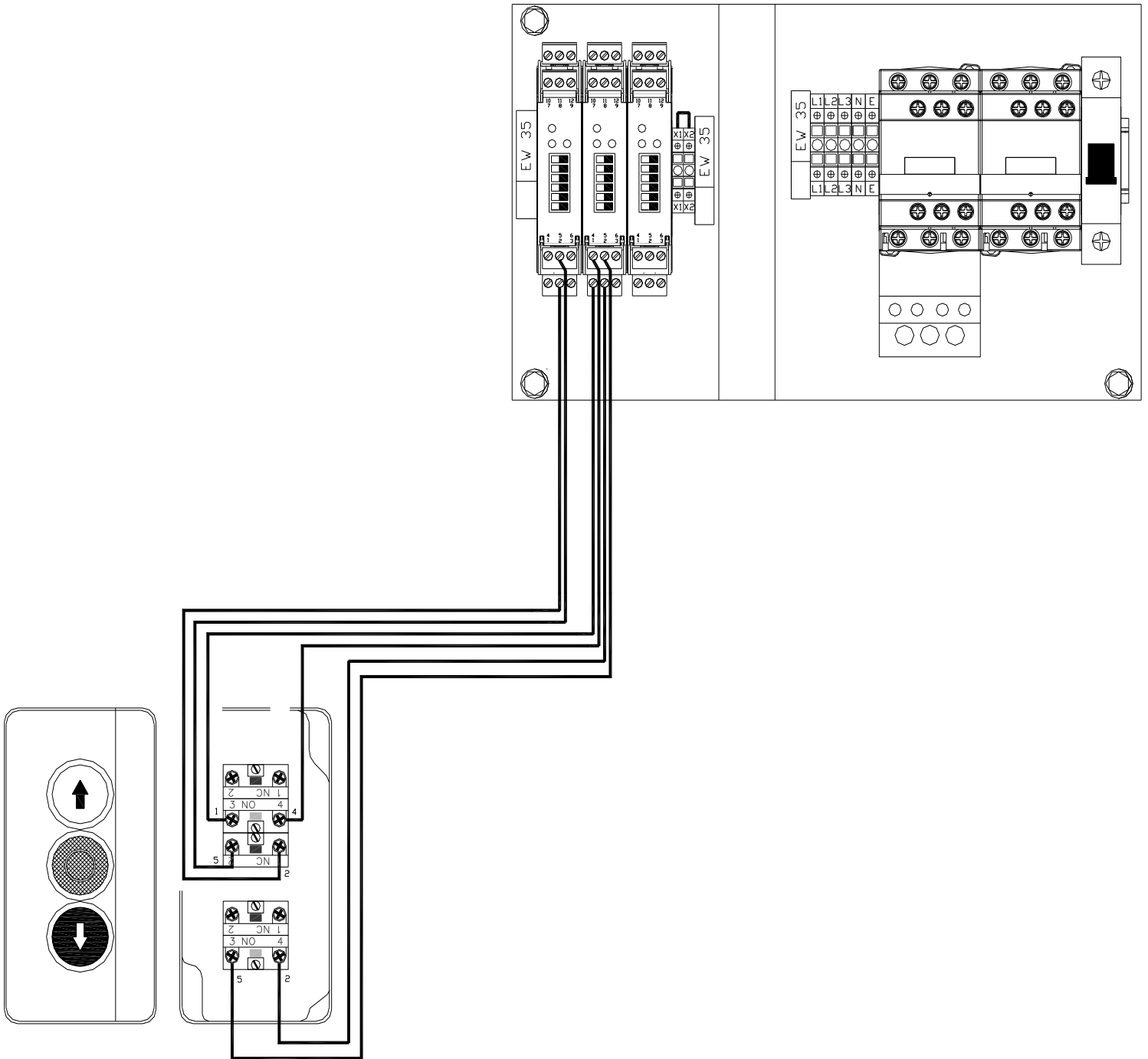


NOTE: REFER TO P18 ON GA25.15HXDT4 INSTRUCTION MANUAL FOR FULL LIMIT SWITCH DIAGRAM



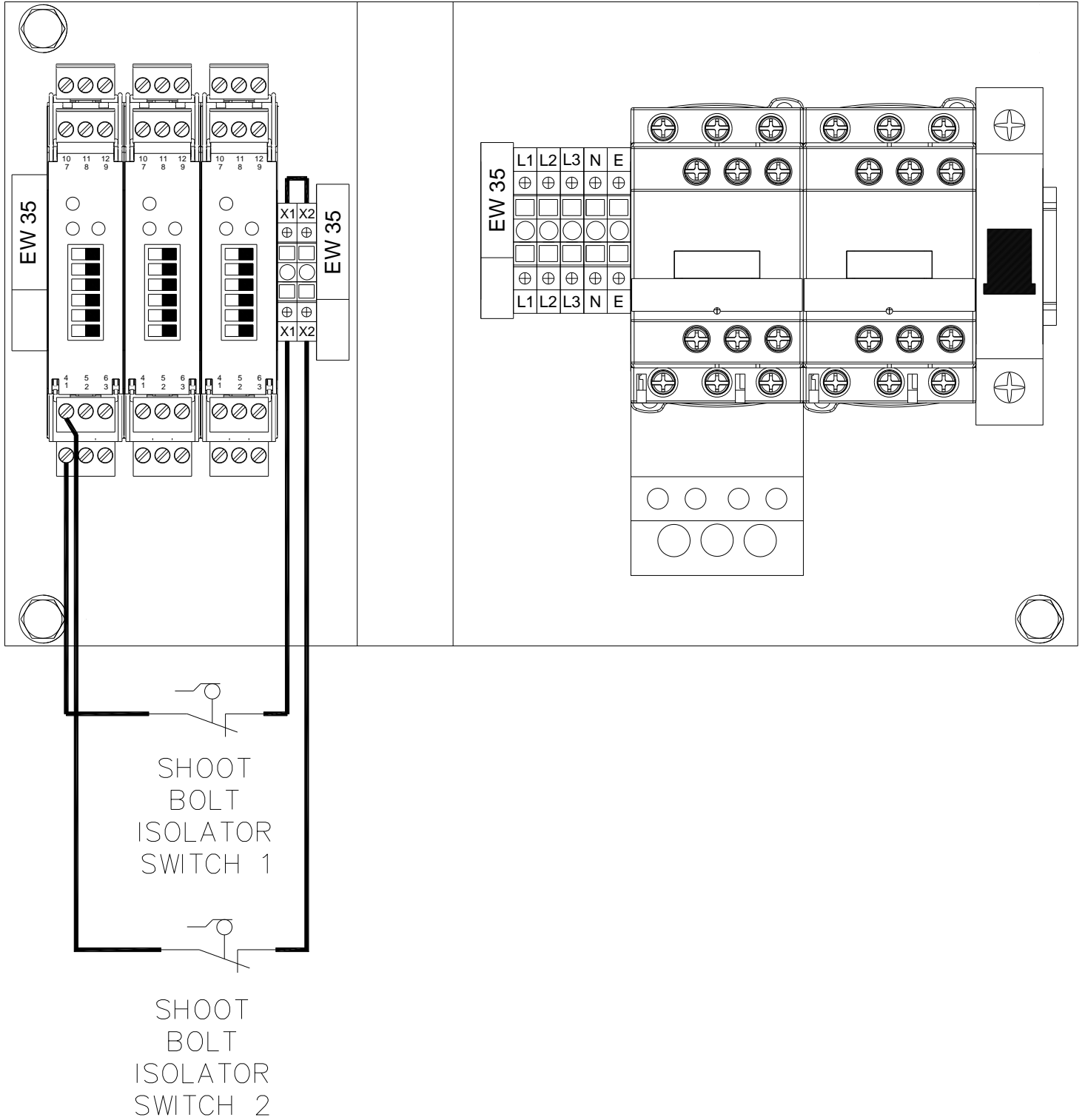
Connection Drawings

Push Button Connections



Connection Drawings

Shoot Bolt Isolator Switches



Supplied by:

GfA ELEKTROMATEN UK Ltd

Agincourt Road, Warwick,
CV34 6XZ, United Kingdom

Telephone: 01926 452452 Fax: 01926 336417

E-mail: sales@gfa-elektromaten.co.uk

Web Site: www.gfa-elektromaten.co.uk