

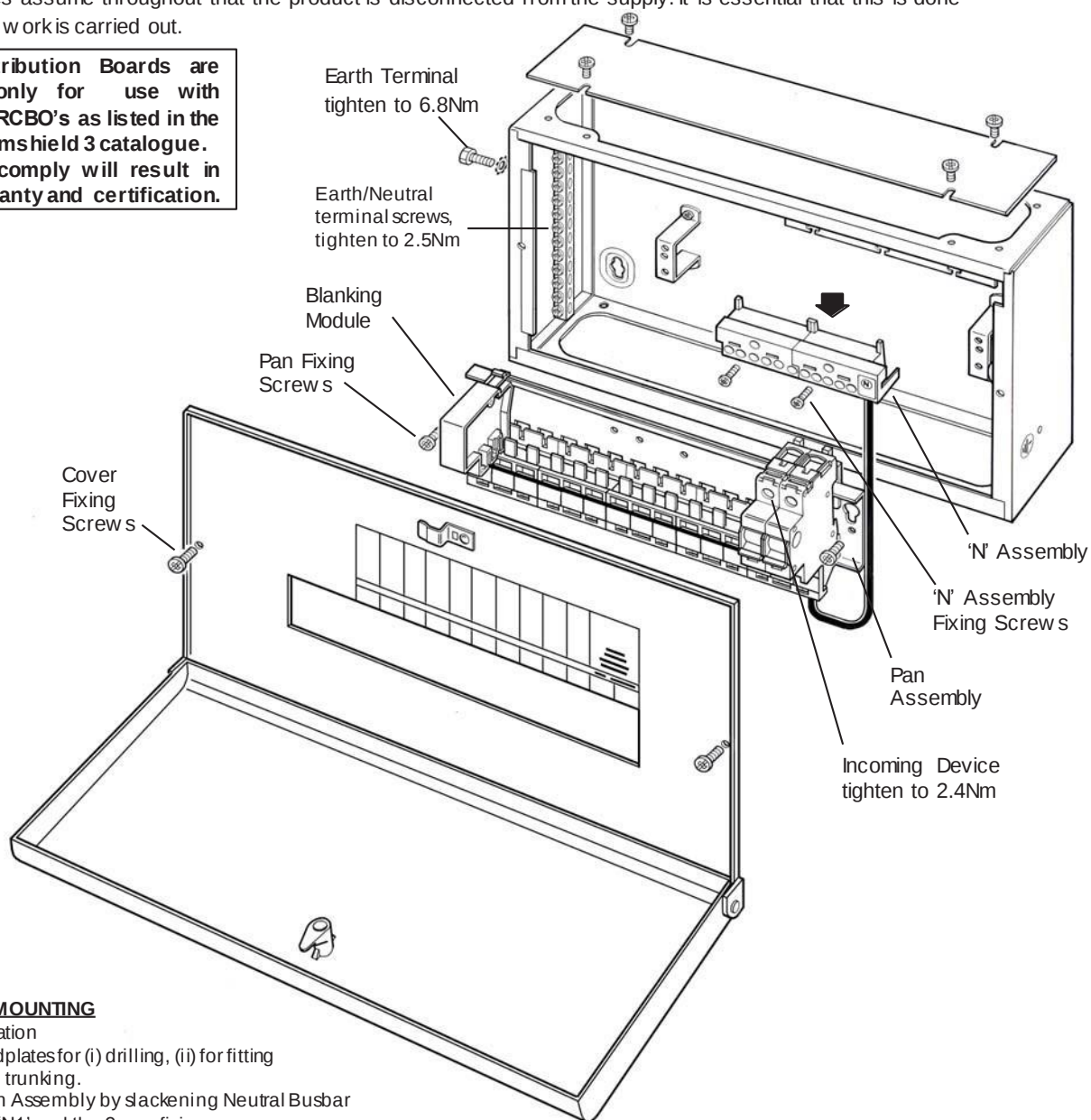
MEMSHIELD 3 TYPE A SPN DISTRIBUTION BOARD

Instruction leaflet LT1181 (01/21)

IMPORTANT NOTES

1. This product should be installed, commissioned and maintained by or under the supervision of a competent electrician in accordance with current electrical engineering Codes of Practice, Regulations for the Electrical equipment of Buildings (BS7671), CDM2007 - Construction (Design and Management) Regulations 2007, HSG150 - Health and Safety in Construction, Statutory requirements and any Specific instruction issued by the Company.
2. After completing the installation and testing of this product it is essential that this leaflet is drawn to the attention of the person responsible for its future operation and maintenance, and is at all times available for ready reference.
3. These notes assume throughout that the product is disconnected from the supply. It is essential that this is done before any work is carried out.

These Distribution Boards are designed only for use with MCB's and RCBO's as listed in the current Memshield 3 catalogue. Failure to comply will result in invalid warranty and certification.



ENCLOSURE MOUNTING

To assist installation

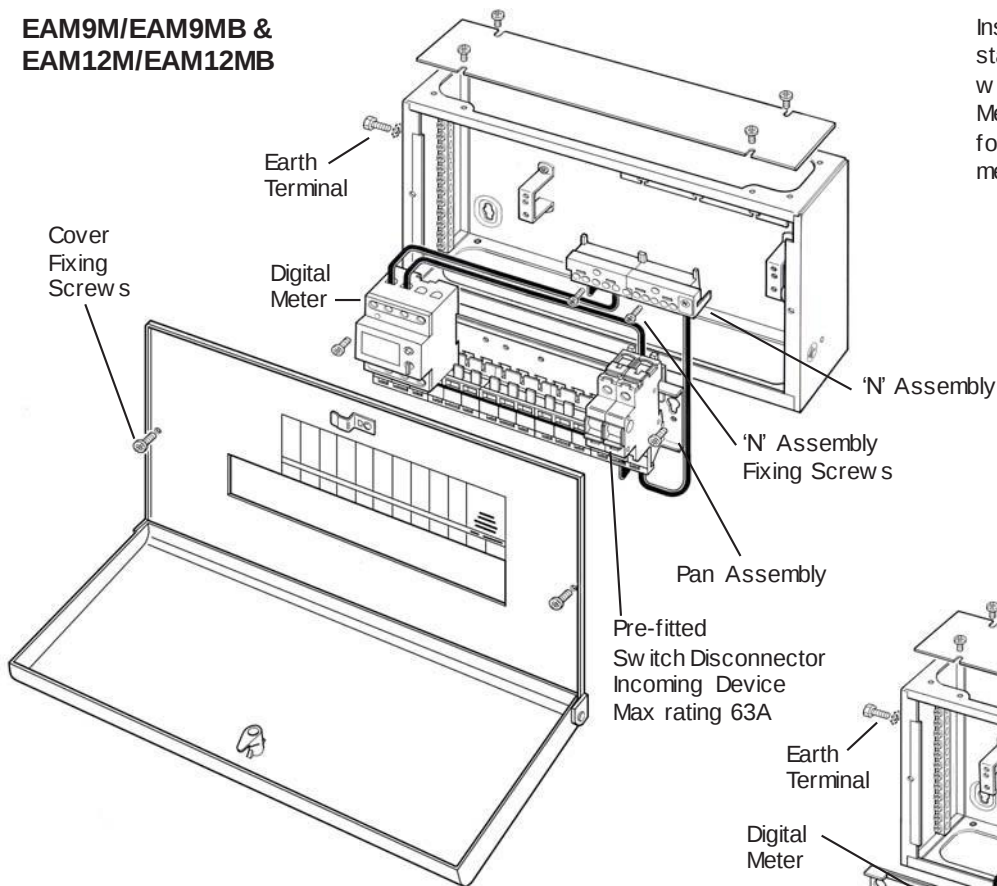
- a. Remove endplates for (i) drilling, (ii) for fitting enclosure to trunking.
 - b. Remove Pan Assembly by slackening Neutral Busbar Connection 'N1' and the 2 pan fixing screws.
 - c. Fix enclosure to wall
- N.B. Endplate fixing screws are of a special type provided to ensure the endplates are electrically bonded to the enclosure. Do not replace with screws of another type. After refitting Pan Assembly ensure Neutral link is connected to 'N1' and all fixing screws are tight. **RECOMMENDED TORQUE 2.4Nm.**

NOTE

To ease fitting of incoming cable the Neutral Terminal is removable.

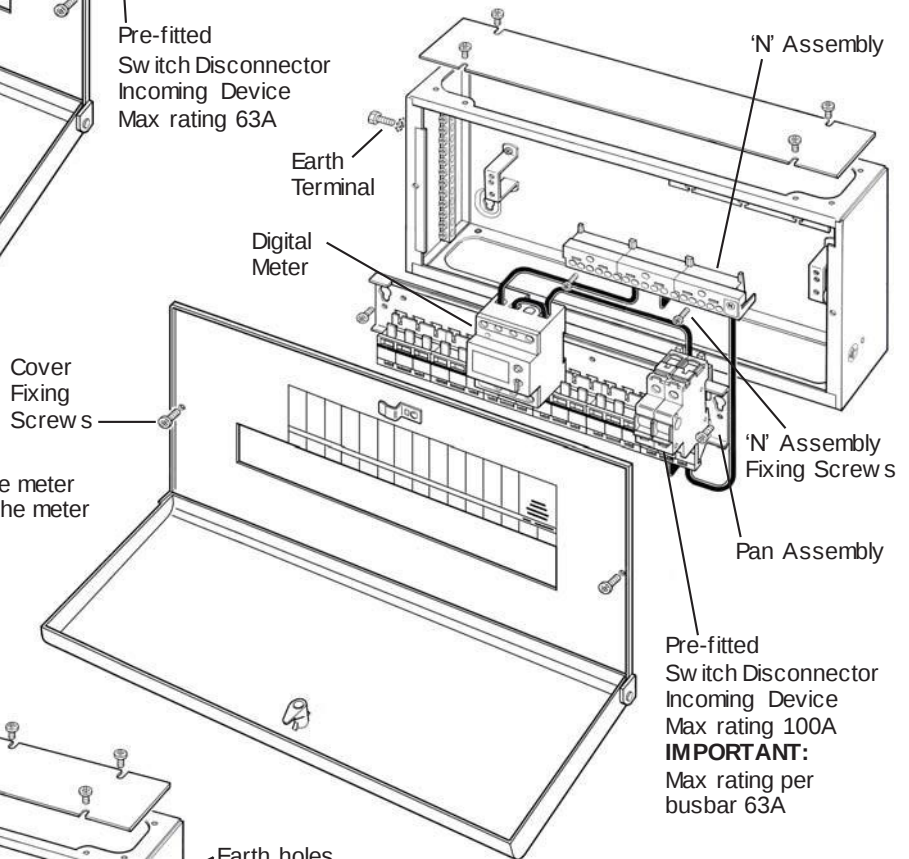
1. Remove Pan assembly.
2. Remove 'N' assembly by slackening 'N' assembly fixing screw(s) and pull in direction of arrow.

**EAM9M/EAM9MB &
EAM12M/EAM12MB**



Installation instructions as per the standard Memshield 3 Type A Boards w here applicable.
Meter operating instructions can be found on leaflet provided with digital meter.

**EAMSL66M/EAM66MB &
EAMSL93M/EAM93MB**

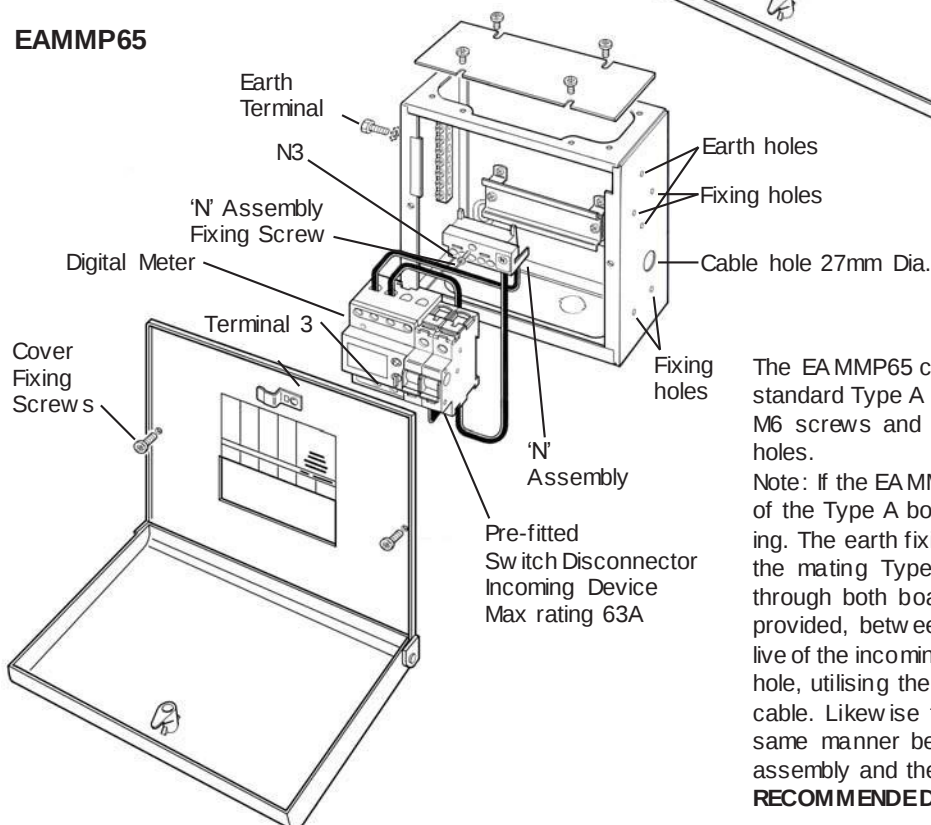


NOTE

LOAD 1 is the bank to the left of the meter
LOAD 2 is the bank to the right of the meter

**RECOMMENDED TERMINAL SCREW
TIGHTENING TORQUE 2.4 Nm.**

EAMMP65



The EAMMP65 can be bolted to the left or right side of any standard Type A Board. Connect boards together using 4 x M6 screws and nuts provided and fit grommets in cable holes.

Note: If the EAMMP65 board is to be bolted to the right side of the Type A board, then the earth terminal needs removing. The earth fixing holes (2 x 7.0) need to be machined in the mating Type A board and the earth terminal refitted through both boards. Terminate the live connecting cable provided, between terminal 3 of the digital meter and the live of the incoming device, routing it through the grommetted hole, utilising the crimps on both ends of the 'L' connecting cable. Likewise terminate the 'N' connecting cable in the same manner between terminal N3 on the EAMMP65 'N' assembly and the 'N' of the incoming device.

RECOMMENDED TORQUE 2.4 Nm.

FITTING INCOMING DEVICE

CAUTION:

WHEN FITTING INCOMING DEVICES ONTO BUSBAR ENSURE BUSBAR STAB IS LOCATED INSIDE TERMINAL CLAMP AND NOT UNDERNEATH.

Max Ratings:

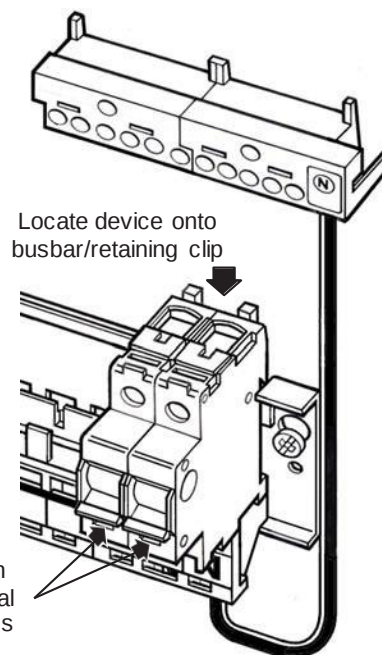
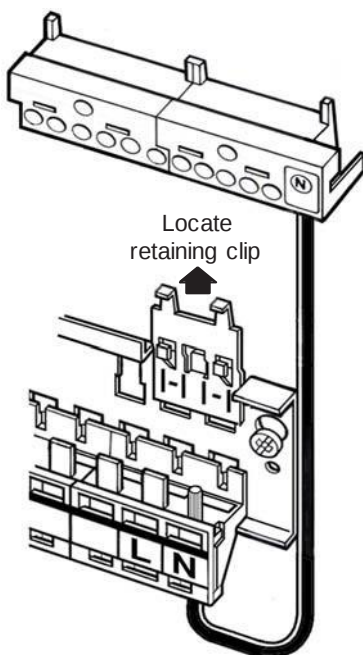
Switch Disconnector - 125A

RCCB - 90A

Direct Connection - 100A

Important

Fit rating label supplied to cover.



Tighten Terminal Screws

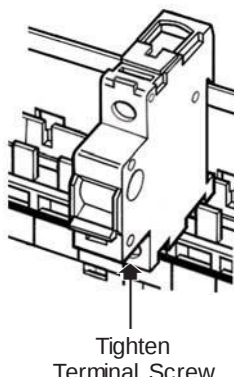
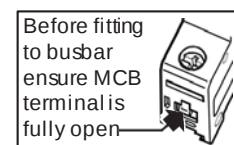
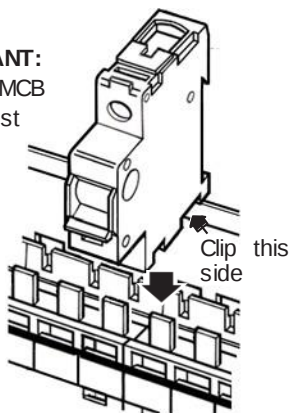
RECOMMENDED TERMINAL SCREW TIGHTENING TORQUE 2.4 Nm.

FITTING AN MCB/RCBO

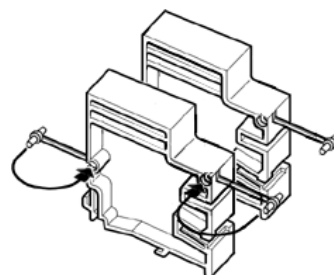
When fitting an RCBO, trim RCBO 'N' cable to length and connect to 'N' busbar terminal

IMPORTANT:

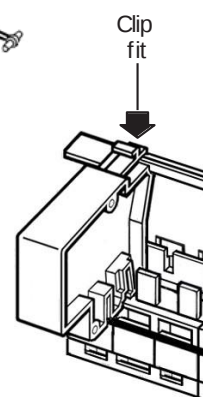
Oriente MCB clip nearest to busbar



FITTING BLANKING MODULE EMBP

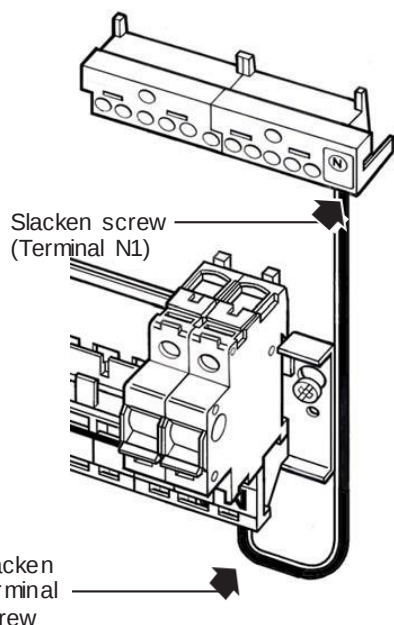


All unused ways must be fitted with a Blanking Module

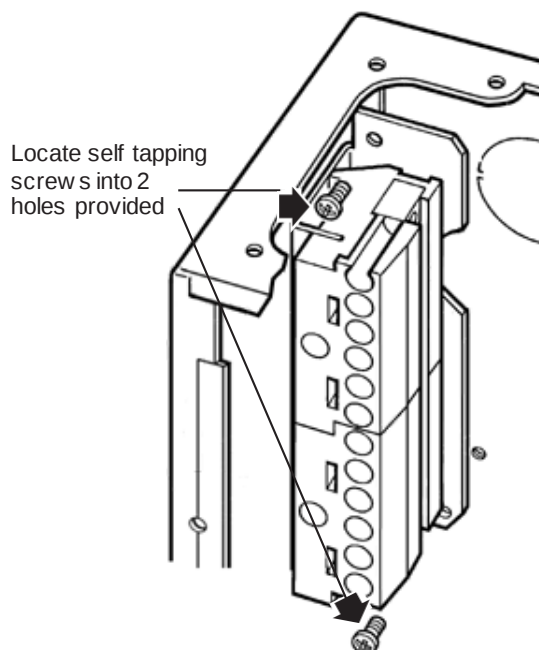


RECOMMENDED TERMINAL SCREW TIGHTENING TORQUE 2.4 Nm.

NEUTRAL DISCONNECTION

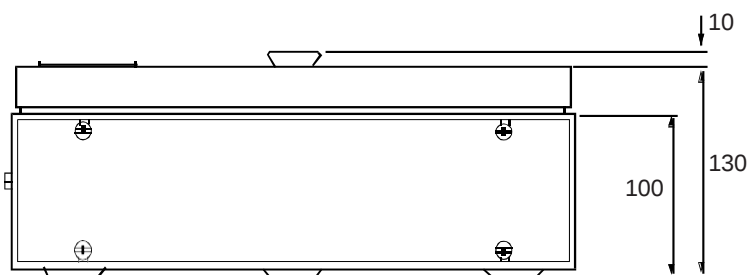
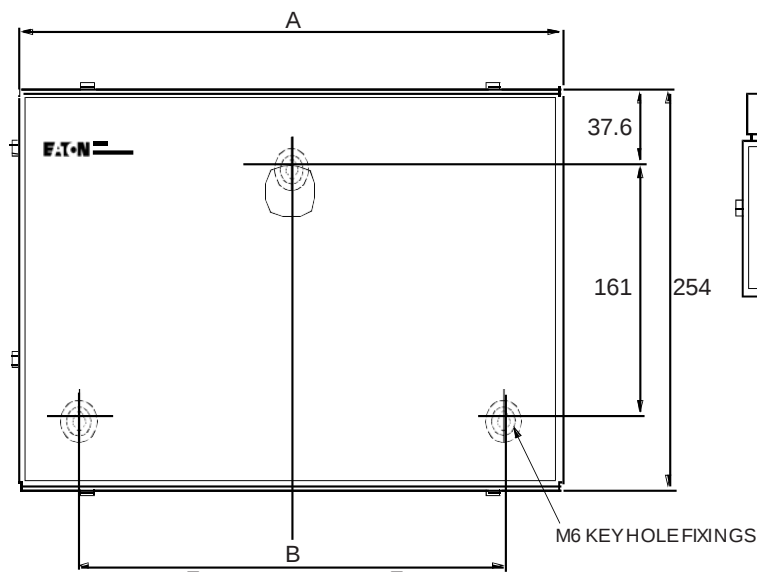


FITTING CLEAN EARTH KIT



ENSURE THAT NEUTRAL CONNECTOR IS CORRECTLY REFITTED AND THAT TERMINAL SCREWS ARE RE-TIGHTENED TO TORQUE 2.4 Nm.

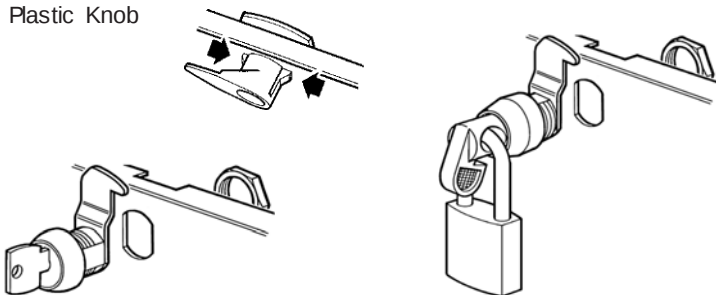
OVERALL DIMENSIONS



All dimensions in mm	A	B
EAM4	238	163
EAMMP65	238	163
EAM7	292	217
EAM10	346	271
EAM13	440	365
EAM9M/MB	440	365
EAM16	454	379
EAM12M/MB	454	379
EAMSL66M/MB	454	379
EAMSL93M/MB	454	379

FITTING DOOR LOCK EMDL & EMPL

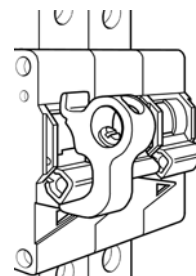
Remove
Plastic Knob



Insert Lock into hole tighten back nut

FITTING EMBL2

For extra security
fit padlock
List No. PD2



INTERFACE CHARACTERISTICS

Type A DBO to IEC/EN61439-3

Rated Voltage / Rated Operational voltage (U_n / U_e) : 240V a.c.
 Rated Impulse Withstand Voltage (U_{imp}) : 4kV
 Rated Insulation Voltage (U_i) : 415V
 Rated Conditional Short Circuit Current (I_{cc}) : 15kA
 Rated Current of the Assembly (I_n) : See DB Rating label (65A - 125A)
 Rated Diversity Factor(s) RDF : 0.7
 Rated Current of each Circuit (I_{nc}) :

RCCB (100A) = 90A Inc.

RCBO (6A-45A) = Rating as marked – subject to applicable RDF

MCB (2A – 50A) = Rating as marked, (63A) = 55A Inc. Subject to applicable RDF - per table 101, IEC/EN61439-3

Suitable for Indoor, Stationary applications
 Mechanical Protection : IK06
 IP Rating : IP3X
 EMC Classification : B
 Pollution Degree : 3
 Construction Type : Fixed
 Frequency (f_n) : 50Hz

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No responsibility can be accepted by us if these instructions are disregarded. Further copies of these instructions and information concerning the installation and proper use of this product can be obtained by contacting the:
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 Tel: +44(0)8700 545 333,
 email: ukcommorders@eaton.com