

# electrium



Panel Boards  
& Devices



electrium

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2013-RTL-L4-75  
2013-RTL-L4-36



Testing Laboratory No. 1460  
Testing Laboratory No. 2003

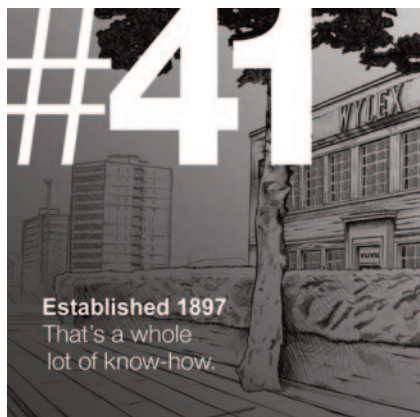


WHY CHOOSE ANYTHING LESS?

As a leading manufacturer of electrical installation equipment,  
Wylex is committed to the continual improvement of all quality assurance  
procedures and performance.

# GOOD REASONS TO CHOOSE WYLEX

(THERE'S NO END OF THEM)



UK Based development teams design Wylex products from scratch and look after every stage of the design and performance validation process.

As part of the Siemens family Wylex benefits from the Siemens global manufacturing network by sourcing circuit protection devices 'in house' meaning you can be sure of the quality and the performance of the product.



The Wylex test laboratory in Manchester is accredited by the United Kingdom Accreditation Service (UKAS). This ensures everyone from specifiers, purchasers and users can have complete confidence in the standards of goods and in the provision of services at every stage of the supply chain.

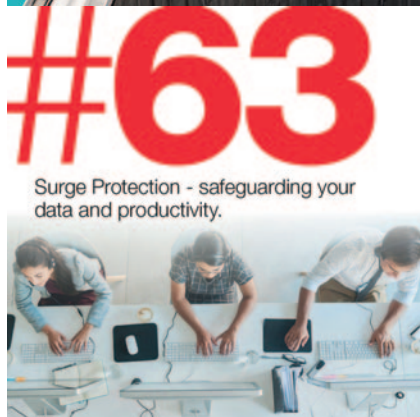
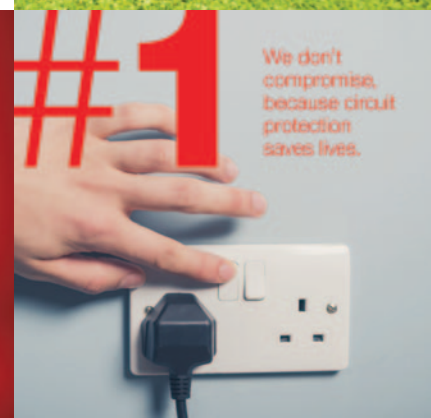
With an extensive range of commercial circuit protection products made in the UK, for the UK, finding the right product for your needs from the catalogue should be easy.



Wylex offers specifiers & installers a comprehensive range of commercial and industrial circuit protection products with three phase MCB distribution boards and MCCB panelboards and devices for commercial and industrial applications.

There is also a range of fuse switch combination units and enclosed isolators in TP&N or SP&N configurations.

Devices, including surge protection devices, contactors, timers, meters and switch disconnectors alongside MCCBs, MCBs, RCBOs and AFDDs complete the range.



WHY CHOOSE ANYTHING LESS?

# NH VM160 MCCB PANELBOARDS & DEVICES

## Devices

- MCCBs 16A - 250A
- Single and Triple Pole
- $I_{CU} = 16 - 55kA @ 415V$  in accordance with BS EN 60947-2
- Complete range of accessories eg. shunt trip, UVR
- Extension terminals to accommodate oversized cables

## System

- Form 3b Type 2 (TPN Version)
- $I_{CU}$  values up to 65kA for 1 second
- Cableways with fully removable side walls to facilitate access for cabling
- Keyhole fixings easily accessible with power tools
- Complete range of enclosure accessories eg. Add-on TPN Distribution Board
- Easy wire metering solutions
- Optional Overvoltage Protection Units and Outgoing Earth Leakage Protection
- RAL 7035 Grey Powder Coat Finish
- Designed and manufactured in the UK, in accordance with BS EN 61439-2
- Factory Built Options Available







## 250A NH VM160 Panelboard



NHVM32512

### 250A PANELBOARD

| Outgoing Ways | H      | W     | D     | List No          |
|---------------|--------|-------|-------|------------------|
| 6 way         | 902mm  | 700mm | 198mm | <b>NHVM32506</b> |
| 12 way        | 1132mm | 700mm | 198mm | <b>NHVM32512</b> |
| 18 way        | 1361mm | 700mm | 198mm | <b>NHVM32518</b> |

- 250A rated
- Type tested & ASTA certified to IEC 61439-2; Ed 2 2011-08
- 25kA for 1s Short Circuit Withstand Strength
- 3b Type 2 Form of Separation
- IP3X (door closed)
- Compatible with MCCBs from 16A to 160A SP & TP Only



NHVA4250SW

### 250A PANELBOARD INCOMERS

| Description                          | List No           |
|--------------------------------------|-------------------|
| 250A TP Switch Disconnecter          | <b>NHVA3250SW</b> |
| 250A 4P Switch Disconnecter          | <b>NHVA4250SW</b> |
| 250A Direct Connection Coppers       | <b>NHVA4250DC</b> |
| Incoming Device Interconnections TP* | <b>NHVA3250CK</b> |
| Incoming Device Interconnections 4P* | <b>NHVA4250CK</b> |

\* Inter connections are necessary when selecting a switch disconnecter

- Max cable lug connection/busbar 24mm wide

#### Switch Disconnectors:

- Fixed Short Circuit Release

### 250A INCOMER TERMINAL EXTENSIONS

#### TP Incomer Kits

|                                                |                       |
|------------------------------------------------|-----------------------|
| 50 - 185mm Box Terminal                        | <b>NHVA9253-0JA12</b> |
| 50 - 240mm Cable Terminal inc Ext Shield       | <b>NHVA9213-0JJ13</b> |
| Extended Front Terminal inc PhaseBarriers      | <b>NHVA9253-0QB00</b> |
| Ext Spreaded Front Terminal inc Phase Barriers | <b>NHVA9253-0QC00</b> |
| Extended Terminal Shield (1pc)                 | <b>NHVA9211-0WF30</b> |
| Extended Spreaded Terminal Shield (1pc)        | <b>NHVA9211-0WG30</b> |

#### 4P Incomer Kits

|                                                |                       |
|------------------------------------------------|-----------------------|
| 50 - 185mm Box Terminal                        | <b>NHVA9254-0JA12</b> |
| 50 - 240mm Cable Terminal inc Ext Shield       | <b>NHVA9214-0JJ13</b> |
| Extended Front Terminal inc Phase Barriers     | <b>NHVA9254-0QB00</b> |
| Ext Spreaded Front Terminal inc Phase Barriers | <b>NHVA9254-0QC00</b> |
| Extended Terminal Shield (1pc)                 | <b>NHVA9211-0WF40</b> |
| Extended Spreaded Terminal Shield (1pc)        | <b>NHVA9211-0WG40</b> |



## 250A NH VM160 Panelboard Incoming Options



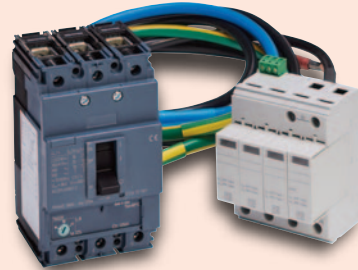
NHVA250IMKMID

### INTEGRAL INCOMING METERING

#### Incomer Metering

| Standard       | List No       |
|----------------|---------------|
| 250A Meter Kit | NHVA250IMKSTD |
| <b>MID</b>     |               |
| 250A Meter Kit | NHVA250IMKMID |

- Contains Digital Meter offering amps, volts, kWh readout, block current transformer for standard solutions or 3 x single current transformers for MID solutions, mounting plates & cable looms. The latter supplied loose for connection by installer
- Only one of the above options is possible per panelboard
- Voltage supply loom kit required for any metering option



NHVMTPNSA

### INTEGRAL SURGE PROTECTION

#### Incoming Surge Protection

| 250A & 400A Panelboards                        | List No     |
|------------------------------------------------|-------------|
| Lightning Arrester Kit (Type 1)                | NHVMTPNLA   |
| Surge Arrester Kit (Type 2)                    | NHVMTPNSA   |
| Combo Lightning & Surge Arrester Kit (Type1/2) | NHVMTPNCLSA |

- Each kit contains: Arrester, MCCB, mounting base & cables
- Kits will utilise the bottom right hand outgoing way for MCCB connection
- Only one of the above options is possible per panelboard



# 400A NH VM160 Panelboard



NHVM34012

## 400A PANELBOARD

| Outgoing Ways | H      | W     | D     | List No          |
|---------------|--------|-------|-------|------------------|
| 6 way         | 1132mm | 700mm | 198mm | <b>NHVM34006</b> |
| 12 way        | 1361mm | 700mm | 198mm | <b>NHVM34012</b> |
| 18 way        | 1591mm | 700mm | 198mm | <b>NHVM34018</b> |

- 400A rated
- Type tested & ASTA certified to IEC 61439-2; Ed 2 2011-08
- 35kA for 1s Short Circuit Withstand Strength
- 3b Type 2 Form of Separation
- IP3X (door closed)
- Compatible with MCCBs from 16A to 160A SP & TP Only

## ADD ON OPTION

| Description                                | List No           |
|--------------------------------------------|-------------------|
| Add-on 2 way 250A TP Outgoing MCCB Housing | <b>NHVM3P2502</b> |

- For use with 400A Panelboards
- Includes all interconnections
- Accepts 200A & 250A TP MCCBs only
- Busbar 25kA for 1s Short Circuit Withstand Strength
- Dims: 230mm high x 1198mm wide x 198mm deep

## 36kA $I_{cu}$ @ 415V AC ADJUSTABLE THERMAL & FIXED SHORT CIRCUIT PROTECTION MCCBs

### For use in above Add-on Unit

| Rated Current | TP                 |
|---------------|--------------------|
| 200A          | <b>NHVSPCB2003</b> |
| 250A          | <b>NHVSPCB2503</b> |



NHVA3400MCCB

## 400A PANELBOARD INCOMERS

| Description                          | List No             |
|--------------------------------------|---------------------|
| 400A TP Switch Disconnecter          | <b>NHVA3400SW</b>   |
| 400A 4P Switch Disconnecter          | <b>NHVA4400SW</b>   |
| 400A TP MCCB                         | <b>NHVA3400MCCB</b> |
| 400A 4P MCCB                         | <b>NHVA4400MCCB</b> |
| 400A Direct Connection Coppers       | <b>NHVA4400DC</b>   |
| Incoming Device Interconnections TP* | <b>NHVA3400CK</b>   |
| Incoming Device Interconnections 4P* | <b>NHVA4400CK</b>   |

\* Inter connections are necessary when selecting a switch disconnecter or MCCB incoming device

- Max cable lug connection/busbar 32mm wide

### MCCBs:

- Electronic Trip Unit LI for System Protection

### Switch Disconnectors:

- Fixed Short Circuit Release

## 400A INCOMER TERMINAL EXTENSIONS

### TP Incomer Kits

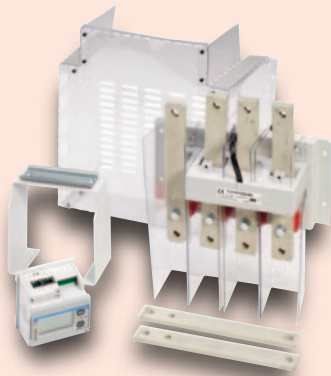
|                                                |                       |
|------------------------------------------------|-----------------------|
| 35 - 300mm Box Terminal                        | <b>NHVA9483-0JA13</b> |
| Extended Front Terminal inc Phase Barriers     | <b>NHVA9483-0QB00</b> |
| Ext Spreaded Front Terminal inc Phase Barriers | <b>NHVA9483-0QC00</b> |
| Extended Terminal Shield (1pc)                 | <b>NHVA9481-0WF30</b> |
| Extended Spreaded Terminal Shield (1pc)        | <b>NHVA9401-0WG30</b> |

### 4P Incomer Kits

|                                                |                       |
|------------------------------------------------|-----------------------|
| 35 - 300mm Box Terminal                        | <b>NHVA9484-0JA13</b> |
| Extended Front Terminal inc Phase Barriers     | <b>NHVA9484-0QB00</b> |
| Ext Spreaded Front Terminal inc Phase Barriers | <b>NHVA9484-0QC00</b> |
| Extended Terminal Shield (1pc)                 | <b>NHVA9481-0WF40</b> |
| Extended Spreaded Terminal Shield (1pc)        | <b>NHVA9401-0WG40</b> |



# 400A NH VM160 Panelboard Incoming Options

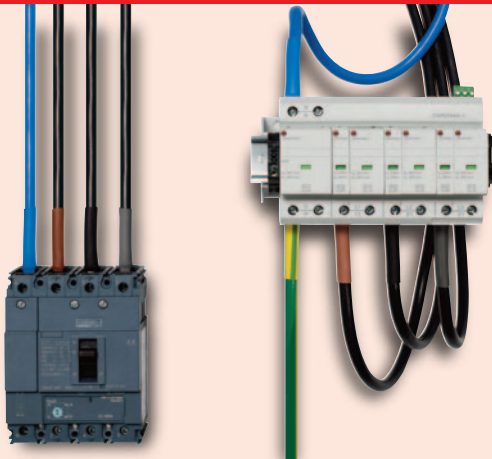


NHVA400IMKSTD

## INTEGRAL INCOMING METERING

| Incomer Metering |               |
|------------------|---------------|
| Standard         | List No       |
| 400A Meter Kit   | NHVA400IMKSTD |
| MID              |               |
| 400A Meter Kit   | NHVA400IMKMID |

- Contains Digital Meter offering amps, volts, kWh readout, block current transformer for standard solutions or 3 x single current transformers for MID solutions, mounting plates & cable looms. The latter supplied loose for connection by installer
- Only one of the above options is possible per panelboard
- Voltage supply loom kit **NHVMVSLK** required for any metering option



NHVMTPNCLSA

## INTEGRAL SURGE PROTECTION

| Incoming Surge Protection                      |             |
|------------------------------------------------|-------------|
| 250A & 400A Panelboards                        | List No     |
| Lightning Arrester Kit (Type 1)                | NHVMTPNLA   |
| Surge Arrester Kit (Type 2)                    | NHVMTPNSA   |
| Combo Lightning & Surge Arrester Kit (Type1/2) | NHVMTPNCLSA |

- Each kit contains: Arrester, MCCB, mounting base & cables
- Kits will utilise the bottom right hand outgoing way for MCCB connection
- Only one of the above options is possible per panelboard



# 630A NH VM160 Panelboard



NHVM36312

## 630A PANELBOARD

| Outgoing Ways | H      | W     | D     | List No          |
|---------------|--------|-------|-------|------------------|
| 6 way         | 1132mm | 700mm | 198mm | <b>NHVM36306</b> |
| 12 way        | 1361mm | 700mm | 198mm | <b>NHVM36312</b> |
| 18 way        | 1591mm | 700mm | 198mm | <b>NHVM36318</b> |

- 630A rated
- Type tested & ASTA certified to IEC 61439-2; Ed 2 2011-08
- 35kA for 1s Short Circuit Withstand Strength
- 3b Type 2 Form of Separation
- IP3X (door closed)
- Compatible with MCCBs from 16A to 160A SP & TP Only

## ADD ON OPTION

| Description                                | List No           |
|--------------------------------------------|-------------------|
| Add-on 2 way 250A TP Outgoing MCCB Housing | <b>NHVM3P2502</b> |

- For use with 630A Panelboards
- Includes all interconnections
- Accepts 200A & 250A TP MCCBs only
- Busbar 25kA for 1s Short Circuit Withstand Strength
- Dims: 230mm high x 1198mm wide x 198mm deep

## 36kA $I_{cu}$ @ 415V AC ADJUSTABLE THERMAL & FIXED SHORT CIRCUIT PROTECTION MCCBs

### For use in above Add-on Unit

| Rated Current | TP                 |
|---------------|--------------------|
| 200A          | <b>NHVSPCB2003</b> |
| 250A          | <b>NHVSPCB2503</b> |



NHVA3630MCCB

## 630A PANELBOARD INCOMERS

| Description                          | List No             |
|--------------------------------------|---------------------|
| 630A TP Switch Disconnecter          | <b>NHVA3630SW</b>   |
| 500A 4P Switch Disconnecter          | <b>NHVA4630SW</b>   |
| 630A TP MCCB                         | <b>NHVA3630MCCB</b> |
| 630A 4P MCCB                         | <b>NHVA4630MCCB</b> |
| 630A Direct Connection Coppers       | <b>NHVA4630DC</b>   |
| Incoming Device Interconnections TP* | <b>NHVA3630CK</b>   |
| Incoming Device Interconnections 4P* | <b>NHVA4630CK</b>   |

\* Inter connections are necessary when selecting a switch disconnecter or MCCB incoming device

- Max cable lug connection/busbar 32mm wide

### MCCBs:

- Electronic Trip Unit LI for System Protection

### Switch Disconnectors:

- Fixed Short Circuit Release

## 630A INCOMER TERMINAL EXTENSIONS

### TP Incomer Kits

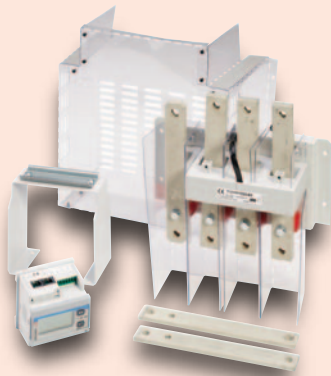
|                                                |                       |
|------------------------------------------------|-----------------------|
| 35 - 300mm Box Terminal                        | <b>NHVA9483-0JA13</b> |
| Extended Front Terminal inc Phase Barriers     | <b>NHVA9483-0QB00</b> |
| Ext Spreaded Front Terminal inc Phase Barriers | <b>NHVA9483-0QC00</b> |
| Extended Terminal Shield (1pc)                 | <b>NHVA9481-0WF30</b> |
| Extended Spreaded Terminal Shield (1pc)        | <b>NHVA9401-0WG30</b> |

### 4P Incomer Kits

|                                                |                       |
|------------------------------------------------|-----------------------|
| 35 - 300mm Box Terminal                        | <b>NHVA9484-0JA13</b> |
| Extended Front Terminal inc Phase Barriers     | <b>NHVA9484-0QB00</b> |
| Ext Spreaded Front Terminal inc Phase Barriers | <b>NHVA9484-0QC00</b> |
| Extended Terminal Shield (1pc)                 | <b>NHVA9481-0WF40</b> |
| Extended Spreaded Terminal Shield (1pc)        | <b>NHVA9401-0WG40</b> |



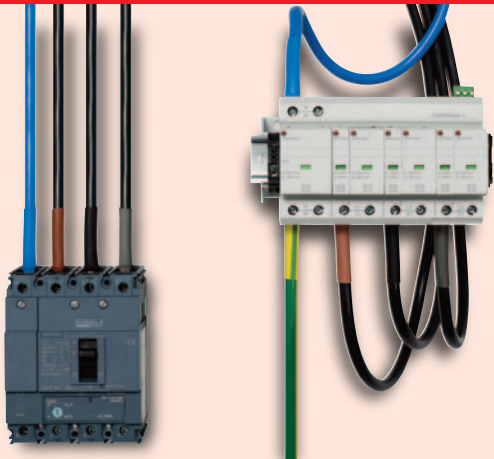
# 630A NH VM160 Panelboard Incoming Options



NHVA400IMKSTD

## INTEGRAL INCOMING METERING

| Incomer Metering                                                                                                                                                                                                                                                                                                                                                                                                                                                  |               |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| Standard                                                                                                                                                                                                                                                                                                                                                                                                                                                          | List No       |
| 630A Meter Kit                                                                                                                                                                                                                                                                                                                                                                                                                                                    | NHVA630IMKSTD |
| MID                                                                                                                                                                                                                                                                                                                                                                                                                                                               |               |
| 630A Meter Kit                                                                                                                                                                                                                                                                                                                                                                                                                                                    | NHVA630IMKMID |
| <ul style="list-style-type: none"><li>• Contains Digital Meter offering amps, volts, kWh readout, block current transformer for standard solutions or 3 x single current transformers for MID solutions, mounting plates &amp; cable looms. The latter supplied loose for connection by installer</li><li>• Only one of the above options is possible per panelboard</li><li>• Voltage supply loom kit required for any metering option <b>NHVMVSLK</b></li></ul> |               |



NHVMTPNCLSA

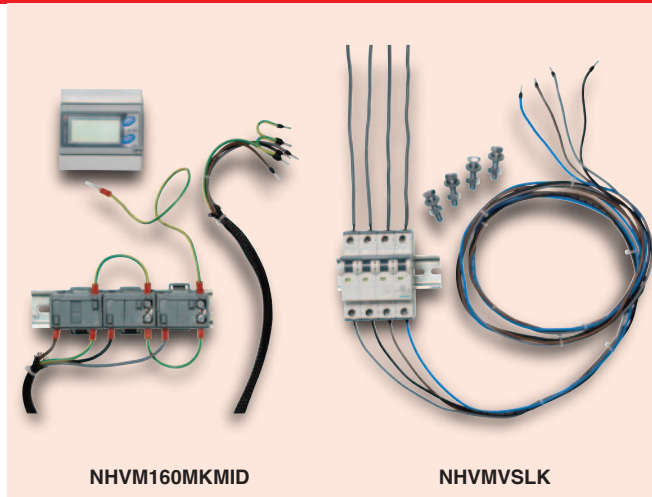
## INTEGRAL SURGE PROTECTION

| Incoming Surge Protection                      |             |
|------------------------------------------------|-------------|
| 250A, 400A & 630A Panelboards                  | List No     |
| Lightning Arrester Kit (Type 1)                | NHVMTPNLA   |
| Surge Arrester Kit (Type 2)                    | NHVMTPNSA   |
| Combo Lightning & Surge Arrester Kit (Type1/2) | NHVMTPNCLSA |

- Each kit contains: Arrester, MCCB, mounting base & cables
- Kits will utilise the bottom right hand outgoing way for MCCB connection
- Only one of the above options is possible per panelboard



## NH VM160 Outgoing Options



NHVM160MKMID

NHVMVSLK

### OUTGOING METERING

#### Standard Metering

Available outputs: Pulse & MODBUS (RTU)

List No

|                    |                     |
|--------------------|---------------------|
| 160A 3ph Meter Kit | <b>NHVM160MKSTD</b> |
| 250A 3ph Meter Kit | <b>NHVM250MKSTD</b> |

Additional current transformer blocks to enable an existing meter to monitor a second 3ph supply.

List No

|                              |                    |
|------------------------------|--------------------|
| 160A 3ph current transformer | <b>NHVM160MKCT</b> |
| 250A 3ph current transformer | <b>NHVM250MKCT</b> |

Each current transformer is supplied with a RJ11 plug-in cable for connection to the meter.

#### MID Metering

Available output: Pulse and Modbus

List No

|                       |                     |
|-----------------------|---------------------|
| 160A 3ph 4w Meter Kit | <b>NHVM160MKMID</b> |
| 250A 3ph 4w Meter Kit | <b>NHVM250MKMID</b> |

- Contains Digital meter offering amps, volts, kWh readout, block current transformer (or 3 x ct's for MID), mounting plates & cable looms. The latter supplied loose for connection by others

#### Meter Pack Voltage Supply Cable Loom

List No

|                               |                 |
|-------------------------------|-----------------|
| 250A, 400A & 630A Panelboards | <b>NHVMVSLK</b> |
|-------------------------------|-----------------|

- Voltage supply loom kit required for any metering option



NHVMEL35

### OUTGOING EARTH LEAKAGE PROTECTION

#### Outgoing Earth Leakage kit

Consisting:

Modular Residual Current Device (MRCD) with adjustable earth leakage sensitivity from 30mA to 3A (0.03A, 0.1A, 0.3A, 0.5A, 1A, 2A, 3A)  
Adjustable time delay from 0 to 10s (INS, SEL, 0.06s, 0.1s, 0.3s, 0.4s, 0.5s, 1s, 3s, 5s, 10s) and Summation Current Transformer

List No

|                        |                 |
|------------------------|-----------------|
| 35mm Internal Diameter | <b>NHVMEL35</b> |
| 70mm Internal Diameter | <b>NHVMEL70</b> |

#### Earth Leakage Voltage Supply Loom

List No

|                               |                   |
|-------------------------------|-------------------|
| 250A, 400A & 630A Panelboards | <b>NHVMVSLELK</b> |
|-------------------------------|-------------------|

- Voltage supply loom required for all earth leakage options



Size 1



Size 2

## METER CABLEWAYS

| Description | Meter     |     |     |     | List No         |
|-------------|-----------|-----|-----|-----|-----------------|
|             | Knockouts | 250 | 400 | 630 |                 |
| Size 1      | 4         | 6w  | -   | -   | <b>NHVM1MCW</b> |
| Size 2      | 6         | 12w | 6w  | 6w  | <b>NHVM2MCW</b> |
| Size 3      | 7         | 18w | 12w | 12w | <b>NHVM3MCW</b> |
| Size 4      | 9         | -   | 18w | 18w | <b>NHVM4MCW</b> |

## EARTH LEAKAGE CABLEWAYS

| Description | Earth Leakage |     |     |     | List No         |
|-------------|---------------|-----|-----|-----|-----------------|
|             | Cut Outs      | 250 | 400 | 630 |                 |
| Size 1      | 3             | 6w  | -   | -   | <b>NHVM1ECW</b> |
| Size 2      | 4             | 12w | 6w  | 6w  | <b>NHVM2ECW</b> |
| Size 3      | 5             | 18w | 12w | 12w | <b>NHVM3ECW</b> |
| Size 4      | 6             | -   | 18w | 18w | <b>NHVM4ECW</b> |



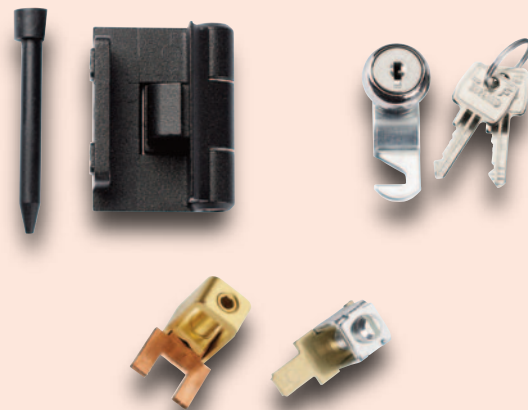
## NH VM160 Accessories



**NHVMTPNDB**

### ADD ON OPTIONS

| Description                                                                                                                                                                             | List No          |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| Add-on Control Module Enclosure<br>24 module (each 18mm wide), DIN rail<br>Dims: 230mm high x 700mm wide x 198mm deep                                                                   | <b>NHVM24CME</b> |
| Add-on 100A SPN Distribution Board - 20 way SPN<br>Supplied with 100A DP Switch Disconnecter and comb busbar<br>Accepts up to 63A NH MCBs<br>Dims: 230mm high x 700mm wide x 198mm deep | <b>NHVMSPNDB</b> |
| Add-on 80A TPN Distribution Board - 6 way TPN<br>Supplied with 80A TPN Switch Disconnecter and comb busbar<br>Accepts up to 63A NH MCBs<br>Dims: 230mm high x 700mm wide x 198mm deep   | <b>NHVMTPNDB</b> |
| Add-on Cable Spreader Box<br>Empty Enclosure<br>Dims: 230mm high x 700mm wide x 198mm deep                                                                                              | <b>NHVM1CSB</b>  |
| Corner Unit                                                                                                                                                                             | <b>NHVMCU</b>    |
| <ul style="list-style-type: none"> <li>Two corner units required per add on option with the exception of <b>NHVM3P2502</b></li> </ul>                                                   |                  |



### ACCESSORIES

| Panelboard Accessories                                                  | List No            |
|-------------------------------------------------------------------------|--------------------|
| Aluminium Gland Plate, 3mm - Panelboard                                 | <b>NHVMSPGPAP</b>  |
| Aluminium Gland Plate, 3mm - Cableway                                   | <b>HVMPISPGPAC</b> |
| Brass Gland Plate, 3mm - Panelboard                                     | <b>NHVMSPGPBP</b>  |
| Brass Gland Plate, 3mm - Cableway                                       | <b>NHVMSPGPBC</b>  |
| <b>Spares or Replacement parts:</b>                                     |                    |
| Replacement Gland Plates - Panelboard                                   | <b>NHVMSPGPP</b>   |
| Replacement Gland Plates - Cableway                                     | <b>NHVMSPGPC</b>   |
| Door Lock                                                               | <b>NHVMSPDL</b>    |
| Door Hinge (set of 2)                                                   | <b>NHVMSPHG</b>    |
| Door Lock Latch                                                         | <b>NHVMBPDL</b>    |
| Lock & Key                                                              | <b>NHVMSPKL</b>    |
| Oversized Cable Clamps for Terminal Bar (35mm <sup>2</sup> )<br>pk of 3 | <b>NHVMSPCC</b>    |
| Oversized Cable Clamps for Terminal Bar (70mm <sup>2</sup> )<br>pk of 3 | <b>NHVMSPCC2</b>   |
| Incoming Earth Connection                                               | <b>NHVMSPIEK</b>   |
| Replacement Fixings Kit                                                 | <b>NHVMSPF1</b>    |
| Terminal Bar (11 Connections)                                           | <b>NHVMSPTB1</b>   |
| Terminal Bar (21 Connections)                                           | <b>NHVMSPTB2</b>   |
| Terminal Bar (31 Connections)                                           | <b>NHVMSPTB3</b>   |
| Replacement Way Label (For Cover Plate)                                 |                    |
| 6-Way                                                                   | <b>NHVMSPWL1</b>   |
| 12-Way                                                                  | <b>NHVMSPWL2</b>   |
| 18-Way                                                                  | <b>NHVMSPWL3</b>   |
| 4-Way (4P)                                                              | <b>NHVMSPWL4</b>   |
| 8-Way (4P)                                                              | <b>NHVMSPWL5</b>   |
| 12-Way (4P)                                                             | <b>NHVMSPWL6</b>   |



## NH VM160 Outgoing MCCBs



NHVFPCB1001

**25kA  $I_{cu}$  @ 415V AC FIXED THERMAL & FIXED SHORT CIRCUIT PROTECTION**

### FOR USE IN 250A, 400A & 630A PANEL BOARDS

| Rated Current | SP          |
|---------------|-------------|
| 16A           | NHVFPCB161  |
| 20A           | NHVFPCB201  |
| 25A           | NHVFPCB251  |
| 32A           | NHVFPCB321  |
| 40A           | NHVFPCB401  |
| 50A           | NHVFPCB501  |
| 63A           | NHVFPCB631  |
| 80A           | NHVFPCB801  |
| 100A          | NHVFPCB1001 |
| 125A          | NHVFPCB1251 |
| 160A          | NHVFPCB1601 |

| Rated Current | TP          |
|---------------|-------------|
| 16A           | NHVFPCB163  |
| 20A           | NHVFPCB203  |
| 25A           | NHVFPCB253  |
| 32A           | NHVFPCB323  |
| 40A           | NHVFPCB403  |
| 50A           | NHVFPCB503  |
| 63A           | NHVFPCB633  |
| 80A           | NHVFPCB803  |
| 100A          | NHVFPCB1003 |
| 125A          | NHVFPCB1253 |
| 160A          | NHVFPCB1603 |



NHVNPCB503

**25kA  $I_{cu}$  @ 415V AC ADJUSTABLE THERMAL & FIXED SHORT CIRCUIT PROTECTION**

### FOR USE IN 250A, 400A & 630A PANEL BOARDS

| Rated Current | TP          |
|---------------|-------------|
| 16A           | NHVNPCB163  |
| 20A           | NHVNPCB203  |
| 25A           | NHVNPCB253  |
| 32A           | NHVNPCB323  |
| 40A           | NHVNPCB403  |
| 50A           | NHVNPCB503  |
| 63A           | NHVNPCB633  |
| 80A           | NHVNPCB803  |
| 100A          | NHVNPCB1003 |
| 125A          | NHVNPCB1253 |
| 160A          | NHVNPCB1603 |



# NH VM160 Outgoing MCCBs



NHVSPCB803

**36kA  $I_{cu}$  @ 415V AC ADJUSTABLE THERMAL & FIXED SHORT CIRCUIT PROTECTION**

**FOR USE IN 250A, 400A & 630A PANEL BOARDS**

| Rated Current | TP          |
|---------------|-------------|
| 16A           | NHVSPCB163  |
| 20A           | NHVSPCB203  |
| 25A           | NHVSPCB253  |
| 32A           | NHVSPCB323  |
| 40A           | NHVSPCB403  |
| 50A           | NHVSPCB503  |
| 63A           | NHVSPCB633  |
| 80A           | NHVSPCB803  |
| 100A          | NHVSPCB1003 |
| 125A          | NHVSPCB1253 |
| 160A          | NHVSPCB1603 |



NHVMPCB503

**55kA  $I_{cu}$  @ 415V AC ADJUSTABLE THERMAL & FIXED SHORT CIRCUIT PROTECTION**

**FOR USE IN 250A, 400A & 630A PANEL BOARDS**

| Rated Current | TP          |
|---------------|-------------|
| 16A           | NHVMPCB163  |
| 20A           | NHVMPCB203  |
| 25A           | NHVMPCB253  |
| 32A           | NHVMPCB323  |
| 40A           | NHVMPCB403  |
| 50A           | NHVMPCB503  |
| 63A           | NHVMPCB633  |
| 80A           | NHVMPCB803  |
| 100A          | NHVMPCB1003 |
| 125A          | NHVMPCB1253 |
| 160A          | NHVMPCB1603 |



NEUTRAL LINKS

## NEUTRAL LINKS

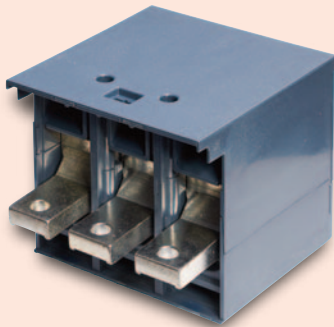
| Description                | List No         |
|----------------------------|-----------------|
| 160A Neutral Link Outgoing | <b>NHVMNL11</b> |
| 250A Neutral Link Outgoing | <b>NHVMNL12</b> |



MCCB ACCESSORIES

## MCCB ACCESSORIES

| Door Blanks                     | List No            |
|---------------------------------|--------------------|
| SP                              | <b>NHVMSPDBK</b>   |
| TP                              | <b>NHVMTPDBK</b>   |
| MCCB Dolly Locking Device       | <b>NHVMULD</b>     |
| Aux Switch - SP C/O             | <b>NHVMAUXCC</b>   |
| Trip Alarm Switch - SP C/O      | <b>NHVMTAS</b>     |
| Undervoltage Release            |                    |
| 110V 50/60Hz                    | <b>NHVMAUV/110</b> |
| 208..230V 50/60Hz               | <b>NHVMAUV/230</b> |
| 125..127VDC                     | <b>NHVMAUV/125</b> |
| Shunt Trip                      |                    |
| 24VAC / 24..30VDC               | <b>NHVMAST/24</b>  |
| 208..277VAC 50/60Hz 220..250VDC | <b>NHVMAST/230</b> |



NHVM3TES150



NHVM9111-0WF30

## MCCB ACCESSORIES

|                                                                                                  | List No            |
|--------------------------------------------------------------------------------------------------|--------------------|
| 25...150mm Cu/Al cable extensions consisting: 3 x single terminals and 1 extended terminal cover | <b>NHVM3TES150</b> |
| 25...150mm Cu/Al cable extensions consisting: 4 x single terminals and 1 extended terminal cover | <b>NHVM4TES150</b> |

### MCCB Extension Bars

|                   |                    |
|-------------------|--------------------|
| for 160A TP MCCBs | <b>NHVM3160FCB</b> |
|-------------------|--------------------|

### Auxiliary Cable Clamp Terminals

|                            |                    |
|----------------------------|--------------------|
| 160A MCCB box terminals    | <b>NHVM160CACT</b> |
| 160A MCCB busbar terminals | <b>NHVM160BACT</b> |

## SHROUDS

|                              | List No               |
|------------------------------|-----------------------|
| SP 3VM Short Terminal Shroud | <b>NHVM9111-0WD10</b> |
| TP 3VM Short Terminal Shroud | <b>NHVM9111-0WD30</b> |
| TP 3VM Long Terminal Shroud  | <b>NHVM9111-0WF30</b> |

- When using terminal shrouds please also select cable-ways



## Legacy MCCBs for GG Extension Panelboards



NHGGPCB201



NHGGPCB1253

### OUTGOING SP G FRAME MCCBs

#### Description

|           |                    |
|-----------|--------------------|
| 15A MCCB  | <b>NHGGPCB151</b>  |
| 20A MCCB  | <b>NHGGPCB201</b>  |
| 25A MCCB  | <b>NHGGPCB251</b>  |
| 30A MCCB  | <b>NHGGPCB301</b>  |
| 40A MCCB  | <b>NHGGPCB401</b>  |
| 50A MCCB  | <b>NHGGPCB501</b>  |
| 60A MCCB  | <b>NHGGPCB601</b>  |
| 80A MCCB  | <b>NHGGPCB801</b>  |
| 100A MCCB | <b>NHGGPCB1001</b> |
| 125A MCCB | <b>NHGGPCB1251</b> |

### OUTGOING TP G FRAME MCCBs

#### Description

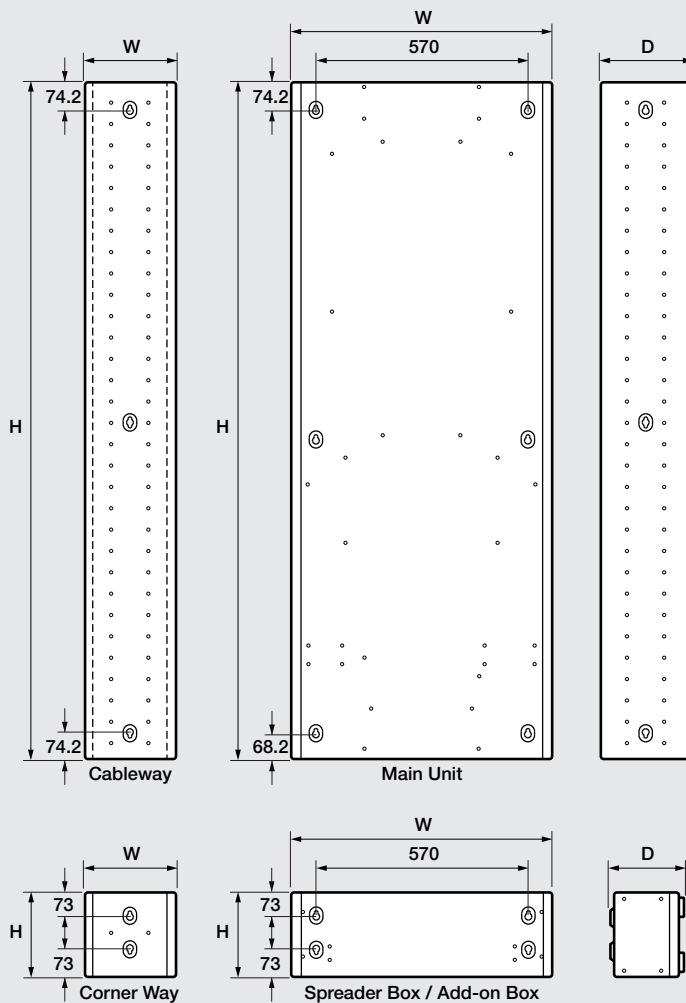
|           |                    |
|-----------|--------------------|
| 15A MCCB  | <b>NHGGPCB153</b>  |
| 20A MCCB  | <b>NHGGPCB203</b>  |
| 25A MCCB  | <b>NHGGPCB253</b>  |
| 30A MCCB  | <b>NHGGPCB303</b>  |
| 40A MCCB  | <b>NHGGPCB403</b>  |
| 50A MCCB  | <b>NHGGPCB503</b>  |
| 60A MCCB  | <b>NHGGPCB603</b>  |
| 80A MCCB  | <b>NHGGPCB803</b>  |
| 100A MCCB | <b>NHGGPCB1003</b> |
| 125A MCCB | <b>NHGGPCB1253</b> |



GG Extension Panelboard

## PANELBOARD AND CABLEWAY DIMENSIONS

| Part No.     | Description       | Dimensions (mm) |      |     | Distance from Gland Plate to Incoming Terminals |
|--------------|-------------------|-----------------|------|-----|-------------------------------------------------|
|              |                   | H               | W    | D   |                                                 |
| Panelboards  |                   |                 |      |     |                                                 |
|              | 250A: 6 way       | 902             | 700  | 198 | 257mm                                           |
|              | 12 way            | 1132            | 700  | 198 | 257mm                                           |
|              | 18 way            | 1361            | 700  | 198 | 257mm                                           |
|              | 400A: 6 way       | 1132            | 700  | 198 | 342mm                                           |
|              | 12 way            | 1361            | 700  | 198 | 342mm                                           |
|              | 18 way            | 1591            | 700  | 198 | 342mm                                           |
|              | 630A: 6 way       | 1132            | 700  | 198 | 342mm                                           |
|              | 12 way            | 1361            | 700  | 198 | 342mm                                           |
|              | 18 way            | 1591            | 700  | 198 | 342mm                                           |
| Cableways    |                   |                 |      |     |                                                 |
|              | Corner Unit       | 230             | 249  | 184 |                                                 |
|              | Size 1            | 902             | 249  | 198 |                                                 |
|              | Size 2            | 1132            | 249  | 198 |                                                 |
|              | Size 3            | 1361            | 249  | 198 |                                                 |
|              | Size 4            | 1591            | 249  | 198 |                                                 |
| Add-on Units |                   |                 |      |     |                                                 |
|              | 2x250A TP Outgoer | 230             | 1198 | 198 |                                                 |
|              | Control Module    | 230             | 700  | 198 |                                                 |
|              | SPN Dist Board    | 230             | 700  | 198 |                                                 |
|              | TPN Dist Board    | 230             | 700  | 198 |                                                 |
|              | Spreader Box      | 230             | 700  | 184 |                                                 |



Technical Data Sheets available on request from:  
[wylex.technical@electrium.co.uk](mailto:wylex.technical@electrium.co.uk)



# NH VM160 Panelboards

## TECHNICAL DATA

|                                  | 250A                      | 400A           | 630A |
|----------------------------------|---------------------------|----------------|------|
| Standards Compliance             | IEC 61439-2; Ed 2 2011-08 |                |      |
| Short Circuit Withstand Strength | 25kA<br>for 1s            | 35kA<br>for 1s |      |
| Rated Voltage                    | 230/400V 3ph 50Hz         |                |      |
| Mounting                         | Wall /Floor               |                |      |
| Entry                            | Bottom                    |                |      |
| Access                           | All Sides                 |                |      |
| Form of Separation               | F3bT2                     |                |      |
| Degree of Protection             | IP3X (door closed)        |                |      |
| Paint Finish                     | Light Grey RAL7035        |                |      |

## Cable Capacity

## Maximum Stranded Cu Cable

|                 | Incoming               |                   |         |       | Outgoing          |                   |                   |
|-----------------|------------------------|-------------------|---------|-------|-------------------|-------------------|-------------------|
|                 | Sw Disc or<br>MCCB     | Direct<br>Connect | Neutral | Earth | 160A<br>MCCB      | Neutral           | Earth             |
| 250A Panelboard | 25..185mm <sup>2</sup> | M8                | M10     | M10   | 70mm <sup>2</sup> | 35mm <sup>2</sup> | 35mm <sup>2</sup> |
| 400A Panelboard | 50..300mm <sup>2</sup> | M10               | M10     | M10   | 70mm <sup>2</sup> | 35mm <sup>2</sup> | 35mm <sup>2</sup> |
| 630A Panelboard | 50..300mm <sup>2</sup> | M10               | M10     | M10   | 70mm <sup>2</sup> | 35mm <sup>2</sup> | 35mm <sup>2</sup> |

## Available Terminals:

## Neutral Bars

## Earth Bars

|                 | 6 way | 12 way | 18 way | 6 way | 12 way | 18 way |
|-----------------|-------|--------|--------|-------|--------|--------|
| 250A Panelboard | 22    | 42     | 62     | 22    | 42     | 62     |
| 400A Panelboard | 22    | 42     | 62     | 22    | 42     | 62     |
| 630A Panelboard | 22    | 42     | 62     | 22    | 42     | 62     |

## Meter Cableways

| Description | Meter     | 250 | 400 | 630 | List No         |
|-------------|-----------|-----|-----|-----|-----------------|
|             | Knockouts |     |     |     |                 |
| Size 1      | 4         | 6w  | -   | -   | <b>NHVM1MCW</b> |
| Size 2      | 6         | 12w | 6w  | 6w  | <b>NHVM2MCW</b> |
| Size 3      | 7         | 18w | 12w | 12w | <b>NHVM3MCW</b> |
| Size 4      | 9         | -   | 18w | 18w | <b>NHVM4MCW</b> |

## Earth Leakage Cableways

| Description | Earth Leakage | 250 | 400 | 630 | List No         |
|-------------|---------------|-----|-----|-----|-----------------|
|             | Cut Outs      |     |     |     |                 |
| Size 1      | 3             | 6w  | -   | -   | <b>NHVM1ECW</b> |
| Size 2      | 4             | 12w | 6w  | 6w  | <b>NHVM2ECW</b> |
| Size 3      | 5             | 18w | 12w | 12w | <b>NHVM3ECW</b> |
| Size 4      | 6             | -   | 18w | 18w | <b>NHVM4ECW</b> |

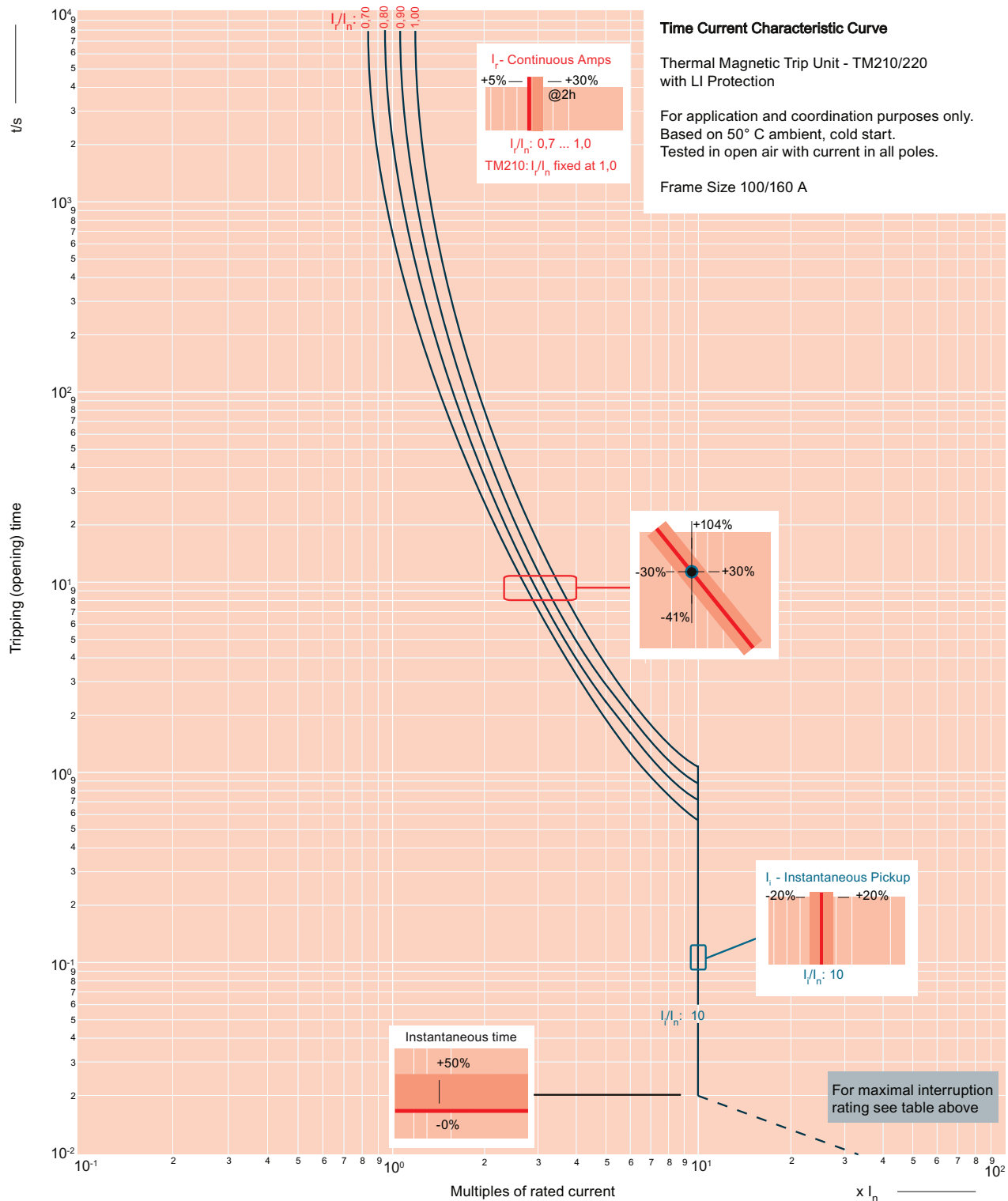
Typ/Model:

TM210/220

Tripping Curve VM160 with TM210/220

English

The content of this document was correct at the time of production but for up to date information please contact Technical Support





## NH VM160 - Zs Values

### MAX Zs VALUES BASED ON 230V PHASE TO EARTH VOLTAGE FOR MCCBs WITH FIXED THERMAL AND FIXED SHORT CIRCUIT PROTECTION

| In   | 5s Disconnection | 0.4s Disconnection |
|------|------------------|--------------------|
| A    | Ohms             | Ohms               |
| 16A  | 1.62             | 0.57               |
| 20A  | 1.60             | 0.57               |
| 25A  | 1.69             | 0.57               |
| 32A  | 1.40             | 0.57               |
| 40A  | 1.13             | 0.46               |
| 50A  | 0.77             | 0.36               |
| 63A  | 0.82             | 0.29               |
| 80A  | 0.48             | 0.23               |
| 100A | 0.37             | 0.18               |
| 125A | 0.15             | 0.14               |
| 160A | 0.11             | 0.11               |

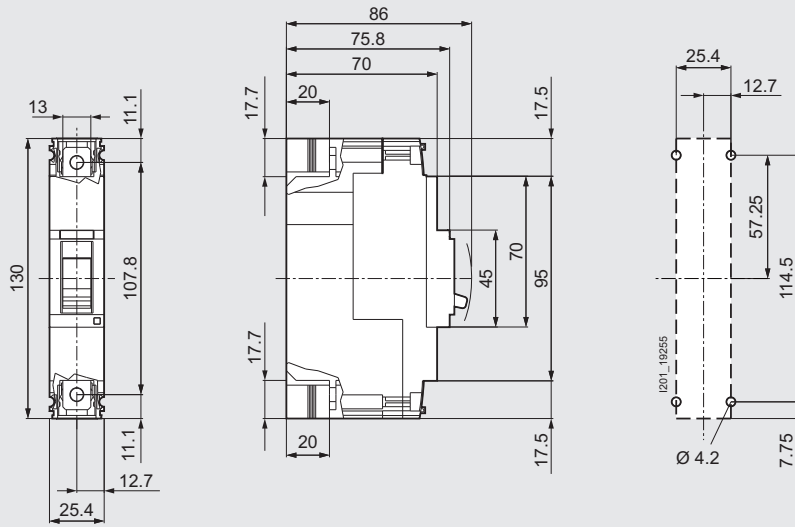
### MAX Zs VALUES BASED ON 230V PHASE TO EARTH VOLTAGE FOR MCCBs WITH ADJUSTABLE THERMAL AND FIXED SHORT CIRCUIT PROTECTION

| In   | 5s Disconnection |                 | 0.4s Disconnection |                 |
|------|------------------|-----------------|--------------------|-----------------|
|      | Adj. set at MIN  | Adj. set at MAX | Adj. set at MIN    | Adj. set at MAX |
| A    | Ohms             |                 | Ohms               |                 |
| 16A  | 2.31             | 1.62            | 0.64               | 0.57            |
| 20A  | 2.28             | 1.59            | 0.69               | 0.57            |
| 25A  | 2.42             | 1.69            | 0.73               | 0.57            |
| 32A  | 2.00             | 1.39            | 0.61               | 0.57            |
| 40A  | 1.61             | 1.12            | 0.49               | 0.46            |
| 50A  | 1.11             | 0.77            | 0.36               | 0.36            |
| 63A  | 1.17             | 0.82            | 0.37               | 0.29            |
| 80A  | 0.68             | 0.47            | 0.23               | 0.23            |
| 100A | 0.52             | 0.36            | 0.18               | 0.18            |
| 125A | 0.14             | 0.14            | 0.14               | 0.14            |
| 160A | 0.16             | 0.11            | 0.11               | 0.11            |

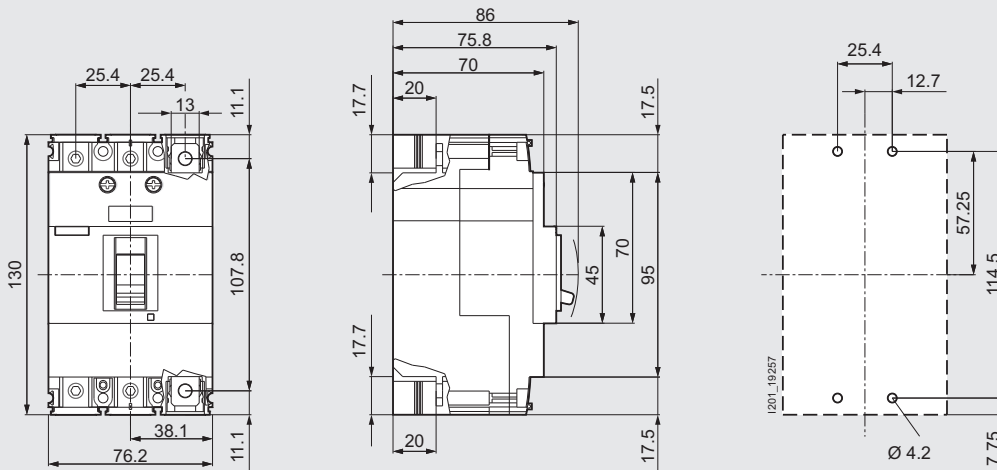


## NH VM160 - MCCB Dimensions

### 100/160 FRAME SINGLE POLE



### 100/160A FRAME TRIPLE POLE







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