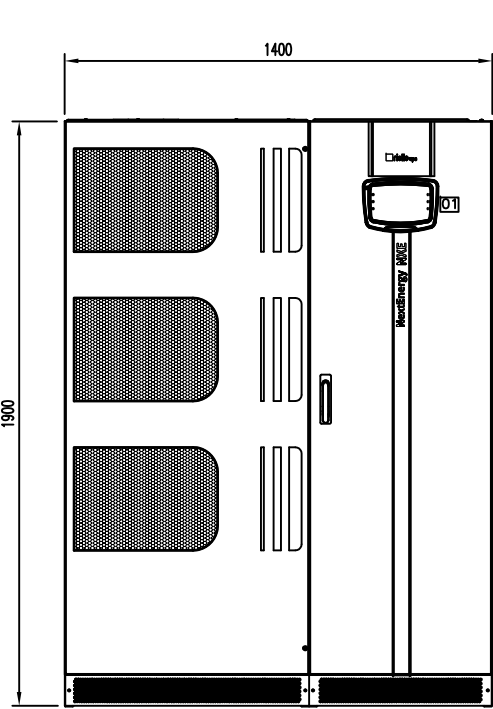


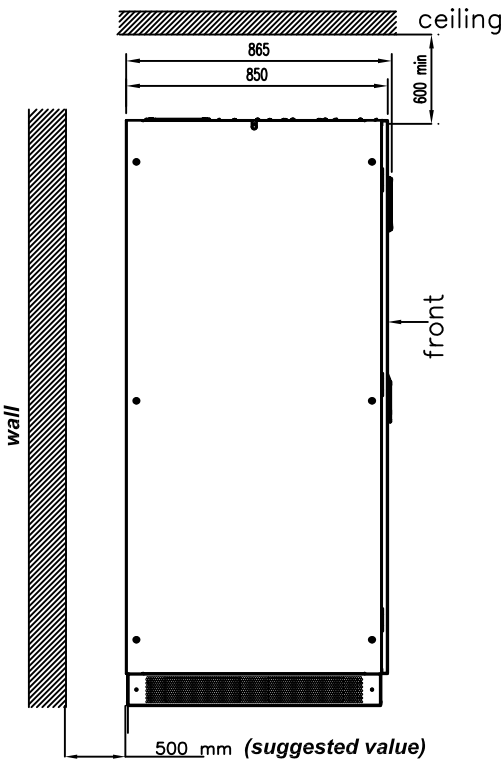
| NOTES |                                                |
|-------|------------------------------------------------|
| POS   | DESCRIPTION                                    |
| 01    | CONTROL PANEL                                  |
| 02    | DOCUMENTS POCKET                               |
| 03    | OPTION PANEL                                   |
| 04    | FAN TYPE 925m <sup>3</sup> /h                  |
| 05    | FAN TYPE 325m <sup>3</sup> /h                  |
| 06    | RECTIFIER INPUT LINE SWITCH THREE POLES (SWIN) |
| 07    | BY-PASS LINE SWITCH THREE POLES (SWBY)         |
| 08    | MAINTENANCE SWITCH THREE POLES (SWMB)          |
| 09    | OUTPUT LINE SWITCH FOUR POLES(SWOUT)           |
| 11    | INPUT RECTIFIER BUS BAR(L1A-L2A-L3A)           |
| 12    | INPUT BYPASS BUS BAR(L1B-L2B-L3B)              |
| 13    | OUTPUT BUS BAR(L1OUT-L2OUT-L3OUT)              |
| 14    | NEUTRAL BUS BAR                                |
| 15    | PE BUS BAR                                     |
| 16    | BATTERY POSITIVE BUS BAR                       |
| 17    | BATTERY NEGATIVE BUS BAR                       |
| 18    | ETHERNET PLUG                                  |
| 19    | USB PLUG                                       |
| 20    | SLOT-1                                         |
| 21    | SLOT-2                                         |
| 22    | EXTERNAL SIGNAL INSULATION CARD-1              |
| 23    | AUX.EXTERNAL OUTPUT SWITCH                     |
| 24    | AUX.EXTERNAL MANUAL BYPASS SWITCH              |
| 25    | I/O SIGNAL CARD                                |
| 26    | EPO                                            |
| 27    | TERMINAL BLOCK FOR REMOTE SIGNAL               |
| 28    | INTERFACE RJ45 UGS CARD(OPTIONAL)              |
| 29    | PARALLEL RJ45 CARD(OPTIONAL)                   |
| 30    | RJ 45 PARALLEL CONNECTORS                      |
| 31    | REMOTE ALLARM CARD(OPTIONAL)                   |
| 32    | USB FOR SERVICE USE ONLY                       |
| 33    | AUX.EXTERNAL BATTERY SWITCH                    |
| 34    | THERMAL SENSOR FOR BATTERY CABINET             |
| 35    | EXTERNAL SIGNAL INSULATION CARD-2              |

-READ "SAFETY AND COMPLIACE MANUAL" AND "USER MANUAL" BEFORE STARTING WITH THE INSTALLATION

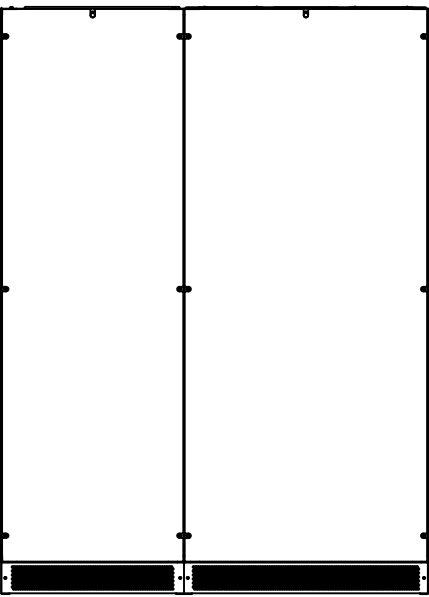
LAYOUT INFORMATION



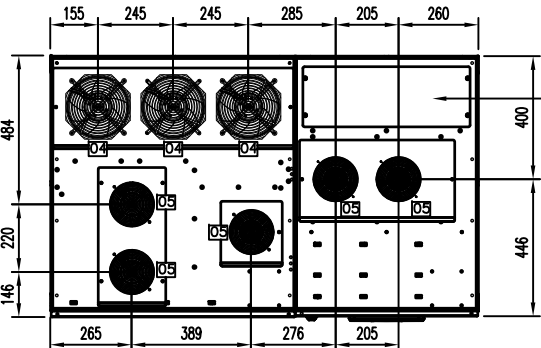
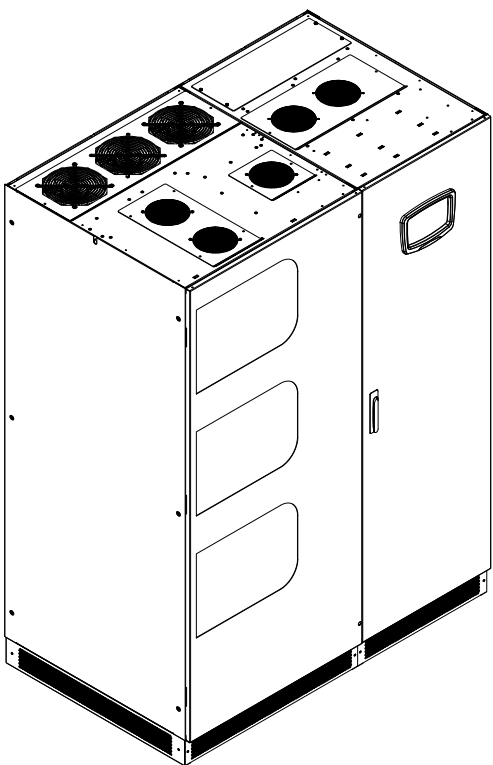
FRONT VIEW



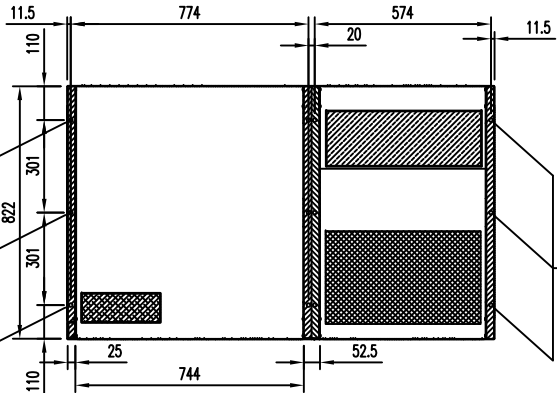
SIDE VIEW



REAR VIEW



TOP VIEW



BOTTOM VIEW

High temperature rise may occur if the minimum value indicated is not maintained above the UPS

PLATE FOR TOP CABLE ENTRY  
509x170

NOTE: Do not mount lateral base grilles when there are cabinet side by side  
Leave at least one of the three sides(right,rear,left)of the cabinet free

NOTE: 1000mm MINIMUM FRONT DISTANCE TO THE WALL

NXE SERIES

| Type                                 | NXE 400             |
|--------------------------------------|---------------------|
| Power                                | kVA / kW            |
| Power losses(kW) load 100 / 50% (**) | kW                  |
| Net Dimensions W x D x H             | (mm)                |
| Shipping dimensions W x D x H        | (mm)                |
| Net weight                           | (Kg)                |
| Shipping weight                      | (Kg)                |
| Air flow                             | (m <sup>3</sup> /h) |
| Bearing surface of the cabinet       | (m <sup>2</sup> )   |

(\*\*)The values include the losses due to the maximum current allowed in battery at 100% load

NXE 400

- =BEARING SURFACE OF THE CABINET
- =INPUT AND OUTPUT CABLE ENTRY (505x330)
- =BATTERY CABLE ENTRY(256x95)
- =INPUT AND OUTPUT TOP CABLE ENTRY (505x182)

RPS

|                                |                |       |          |               |                 |         |
|--------------------------------|----------------|-------|----------|---------------|-----------------|---------|
| EDIT.                          | F.MASTROPASQUA | APPR. | F.AMODEO | DATE:19/11/18 | DRAW. No        | REV.    |
| VARIATION:                     |                |       |          |               | OMNNXEM40RUENIA | 00      |
| REPLACE:OMNNXEM40RUENIA_REV.00 |                |       |          |               | PAG.1 di 4      | CONT. / |

NOTE: In order to make improvements, the manufacturer reserves the right to modify the product described at any moment and without notice

TITLE: MAN NXE 400 DRW EN  
NXE 400kVA



## WARNING

# POWER CONNECTION INFORMATION

- THE INPUT OUTPUT AND PROTECTIVE EARTHING CONDUCTORS MUST BE SIZED FOLLOWING RATED VOLTAGE AND CURRENT, SHOWN IN THE TABLES BELOW, AND ACCORDING TO DOMESTIC REGULATIONS AND CURRENT STANDARDS(see Note \*)
- THE PROTECTIVE EARTHING CONDUCTOR (PE) MUST BE CONNECTED FIRST BEFORE TO PROCEDE CONNECTING INPUT / OUTPUT AND BATTERY CABLES
- RESTART:UPON RESTORATION OF MAINS AC POWER,AFTER AND OUTAGE AND COMPLETE BATTERY DISCHARGE, THE UPS SHALL BE AUTOMATICALLY RESTART AND RESUME SUPPLYING POWER TO THE CRITICAL LOAD AND THE BATTERY CAHRGER AUTOMATICALLY RECHARGES THE BATTERY

|                                                           |                                                                                                                                                                   |
|-----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NXE UPS size(kVA)                                         | 400                                                                                                                                                               |
| Rated conditional short circuit current(I <sub>cc</sub> ) | 50 kA                                                                                                                                                             |
| With upstream protection type                             | 1) gG/gL fuse or<br>2) Circuit Breaker having protection device:<br>let through peak current ≤ 45 kA<br>let through energy ≤ 169*10 <sup>6</sup> A <sup>2</sup> s |

### SINGLE INPUT LINE

| INPUT LINE 3Ph + N + PE 400 / 230 Vac( 415 / 240 Vac) |                  |
|-------------------------------------------------------|------------------|
| NXE UPS size(kVA)                                     | 400              |
| Max current (A)                                       | 681/(681)        |
| Size of upstream protection device(A)                 | 800              |
| Terminal L1B-L2B-L3B type                             | Cu bar           |
| N.x hole diameter (mm) / bolt                         | 4 x 13 (M10-M12) |
| N.cables per phase x size(mm <sup>2</sup> )           | 2 x 150 *        |
| Terminal Input / Output NEUTRAL type                  | Cu bar           |
| N.x hole diameter (mm) / bolt                         | 5 x 13 (M10-M12) |
| N.cables for Input Neutral x size(mm <sup>2</sup> )   | 2 x 150 *        |
| Earthing terminal                                     | Chassis          |
| Bolt                                                  | M10              |
| Cable size (mm <sup>2</sup> )                         | 1 x 150 *        |
| OUTPUT LINE 3Ph + N 400 / 230 Vac( 415 / 240 Vac)     |                  |
| NXE UPS size(kVA)                                     | 400              |
| Rated current (A)                                     | 577(556)         |
| Terminal L1-L2-L3                                     | Cu bar           |
| N.x hole diameter(mm)/ bolt                           | 4 x 13(M10-M12)  |
| N.cables per phase x size(mm <sup>2</sup> )           | 2 x 150 *        |
| N.cables for Output Neutral x size (mm <sup>2</sup> ) | 2 x 150 *        |

### BATTERY DC INPUT

(The PE conductor from battery cabient-battery room must be connected at the UPS earthing terminal only)

| Refer to 240 Pb cells(480 Vdc rated 600Vdc max)                                    |                                                                                             |
|------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| NXE UPS size(kVA)                                                                  | 400                                                                                         |
| Rated current (A)                                                                  | 945**                                                                                       |
| Size of protection device(A)                                                       | Overcurrent protection of both polarities suitable for DC application<br>*** see note below |
| Terminal (+) (-) type                                                              | Cu bar                                                                                      |
| N.x hole diamter (mm) / bolt                                                       | 2 x 11(M10)                                                                                 |
| N.cables per polarity x size(mm <sup>2</sup> )<br>(EPR type)suggested for max 25m) | 2 x 150 **                                                                                  |

#### NOTE:

\*\*average current during discharge

-Sizing cables for 1 hour discharging max(horizontal perforate trays max 4 cables)

\*\*\*For batteries arrangement different from RPS batteries cabinet

Also disconnecting device(both polarities) must be provided

Compliance with safety standards will be care of batteries supplier

### DUAL INPUT SEPARATE LINE

(Remove the cables connecting input mains-bypass terminals)

| INPUT MAINS LINE 3Ph + PE 400 Vac (415 Vac)             |                  |
|---------------------------------------------------------|------------------|
| NXE UPS size(kVA)                                       | 400              |
| Max current (A)                                         | 681/(681)        |
| Size of upstream protection device(A)                   | 800              |
| Terminal L1A-L2A-L3A type                               | Cu bar           |
| N.x hole diameter (mm) / bolt                           | 4 x 13 (M10-M12) |
| N.cables per phase x size(mm <sup>2</sup> )             | 2 x 150 *        |
| Earthing terminal                                       | Chassis          |
| Bolt                                                    | M10              |
| Cable size (mm <sup>2</sup> )                           | 1 x 150 *        |
| INPUT BYPASS LINE 3Ph + N 400 / 230 Vac( 415 / 240 Vac) |                  |
| NXE UPS size(kVA)                                       | 400              |
| Rated current (A)                                       | 577(556)         |
| Size of upstream protection device(A)                   | 630              |
| Terminal L1B-L2B-L3B type                               | Cu bar           |
| N.x hole diameter (mm)/bolt                             | 4 x 13(M10-M12)  |
| N.cables per phase x size(mm <sup>2</sup> )             | 2 x 120 *        |
| Terminal Input / Output NEUTRAL type                    | Cu bar           |
| N.x hole diameter (mm)/bolt                             | 5 x 13(M10-M12)  |
| N.cables for Input Neutral x size(mm <sup>2</sup> )     | 2 x 120 *        |
| OUTPUT LINE 3Ph + N 400 / 230 Vac( 415 / 240 Vac)       |                  |
| NXE UPS size(kVA)                                       | 400              |
| Rated current (A)                                       | 577(556)         |
| Terminal L1-L2-L3                                       | Cu bar           |
| N x hole diameter (mm) / bolt                           | 4 x 13(M10-M12)  |
| N.cables per phase x size(mm <sup>2</sup> )             | 2 x 120 *        |
| N.cables for Output Neutral x size(mm <sup>2</sup> )    | 2 x 120 *        |

#### NOTE:

(\*) the indicated sizing cables are only as example following IEC 60364-5-52 in conditions of:

-TNS system

-30°C ambient

-Cu single core cables type EPR(90°C) and shall have suitable for UPS voltage rating

-Horizontal perforated trays(vertical distance between trays ≥ 300mm distance to wall ≥ 20mm

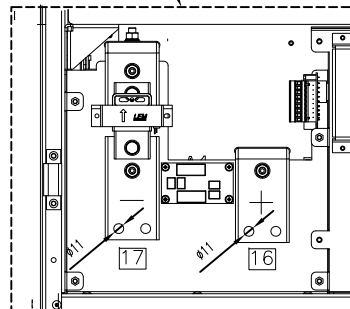
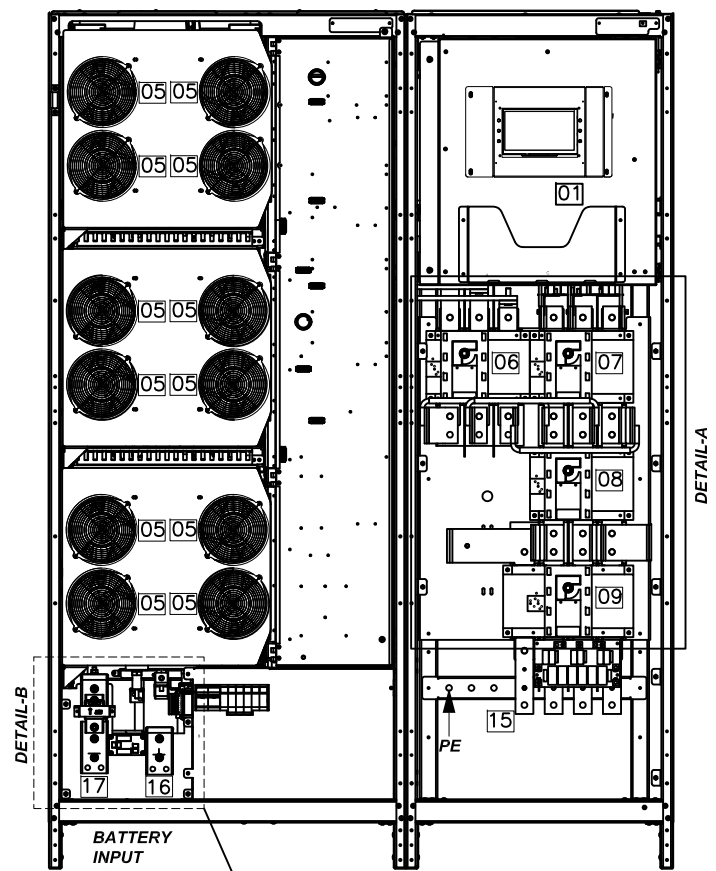
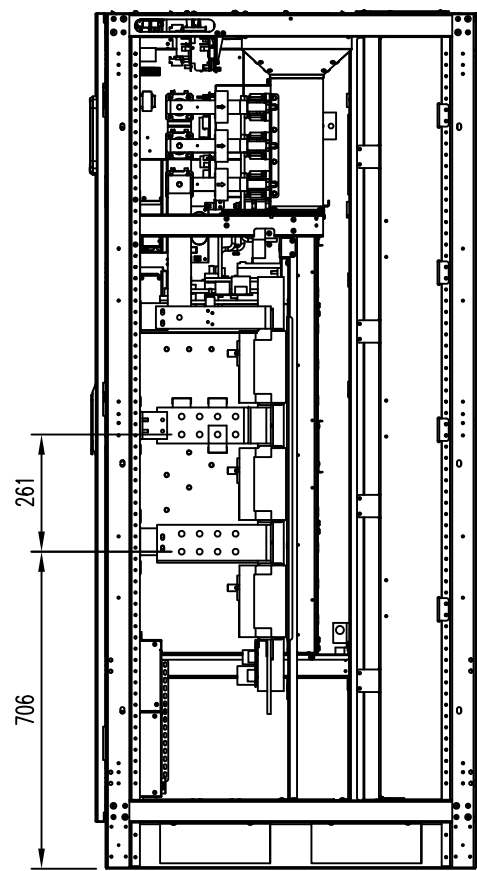
-Max 2x three phase circuit per tray

-Max 100m with drop of voltage < 3%

-Max THDI(load current) = 15%

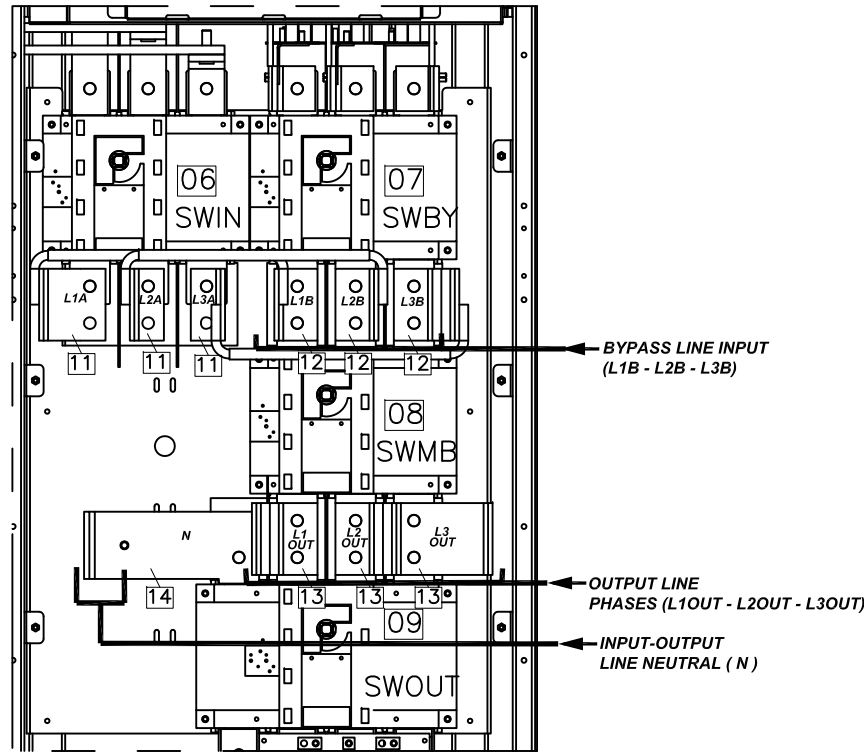
**NXE 400**

|                                                                                                                                           |            |                |       |          |                                         |                 |         |
|-------------------------------------------------------------------------------------------------------------------------------------------|------------|----------------|-------|----------|-----------------------------------------|-----------------|---------|
| RPS                                                                                                                                       | EDIT.      | F.MASTROPASQUA | APPR. | F.AMODEO | DATE:19/11/18                           | DRAW. No        | REV.    |
|                                                                                                                                           | VARIATION: |                |       |          |                                         | OMNXXEM40RUENIA | 00      |
|                                                                                                                                           | REPLACE:   |                |       |          |                                         | PAG.2 di 4      | CONT. / |
| NOTE: In order to make improvements, the manufacturer reserves the right to modify the product described at any moment and without notice |            |                |       |          | TITLE: MAN NXE 400 DRW EN<br>NXE 400kVA |                 |         |

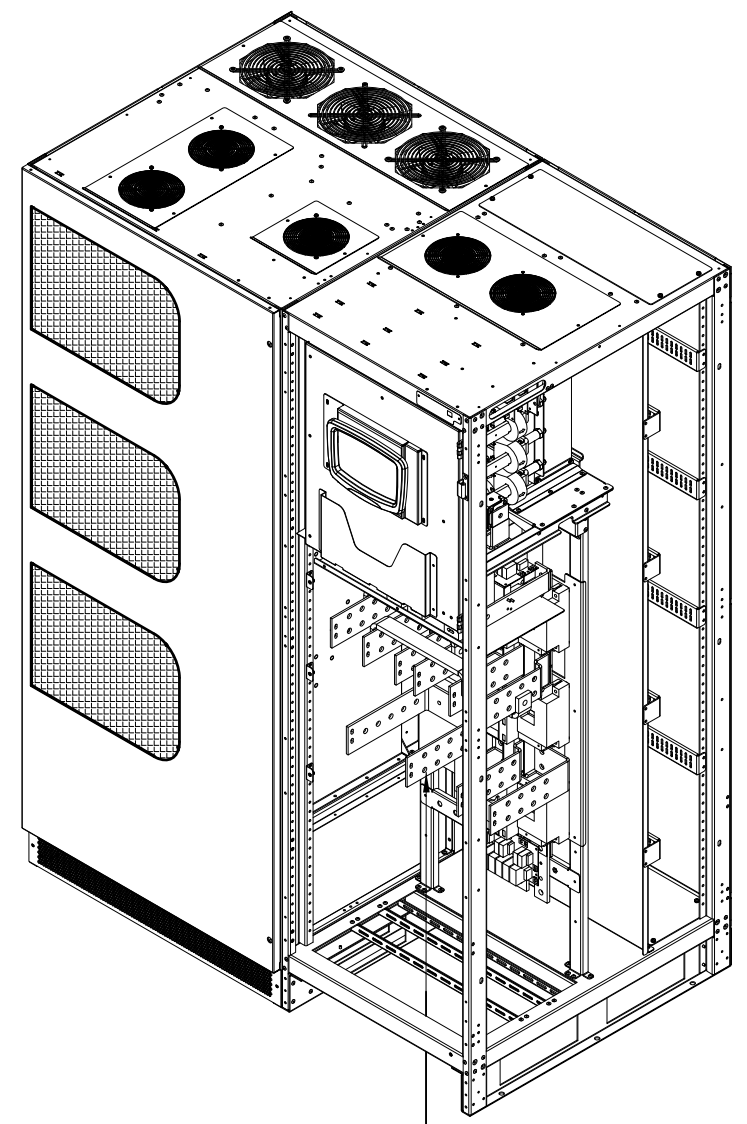
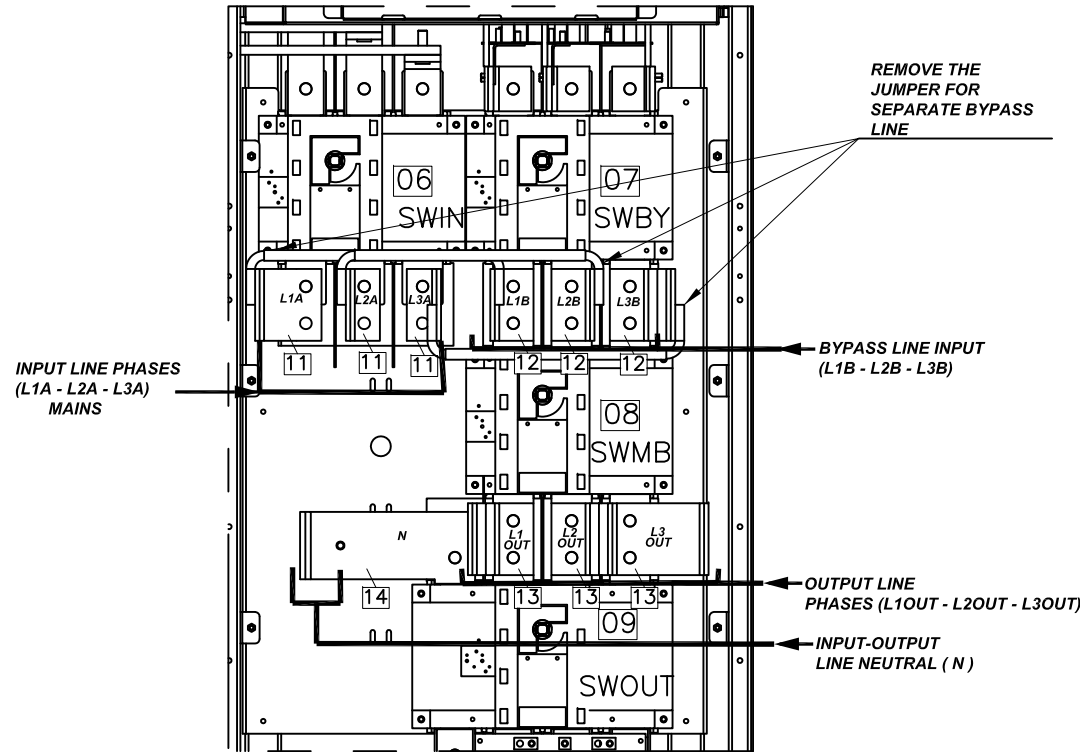


DETAIL-B

DETAIL-A (SINGLE LINE INPUT)



DETAIL-A (DOUBLE LINE INPUT)



CABLES ARE TO BE CONNECTED IN A PERPENDICULAR DIRECTION FROM BOTTOM OF THE ENCLOSURE TO THE FIELD TERMINALS THROUGH CABLE LUGS SUITABLE FOR CABLE SIZE. FOLLOW THE MANUFACTURER'S INSTRUCTIONS FOR BOTH CRIMP TOOL AND LUGS.

NOTE:  
IF RCD ON THE INPUT SUPPLIES ARE REQUIRED, MAKE SURE THAT:  
RCD TYPE B  
MINIMUM OPERATING CURRENT:1A  
DELAY ≥ 0,1 sec

RECOMMENDED TIGHTENING TORQUE  
USE SPECIFIED BOLTS AND NUTS, TIGHTENING THEM TO THE TORQUES SPECIFIED IN THIS SECTION UNLESS OTHERWISE STATED.

| Nominal diameter | Tightening Torque [Nm] |
|------------------|------------------------|
| M10              | 36÷46                  |
| M12              | 60÷80                  |

RPS

|                      |                |               |                 |         |
|----------------------|----------------|---------------|-----------------|---------|
| EDIT. F.MASTROPASQUA | APPR. F.AMODEO | DATE:19/11/18 | DRAW. No        | REV.    |
| VARIATION:           |                |               | OMNNXEM40RUENIA | 00      |
| REPLACE:             |                |               | PAG.3 di 4      | CONT. / |

NOTE: In order to make improvements, the manufacturer reserves the right to modify the product described at any moment and without notice

TITLE: MAN NXE 400 DRW EN  
NXE 400kVA

NXE 400

0

1

2

3

4

5

6

7

8

9

A

B

C

D

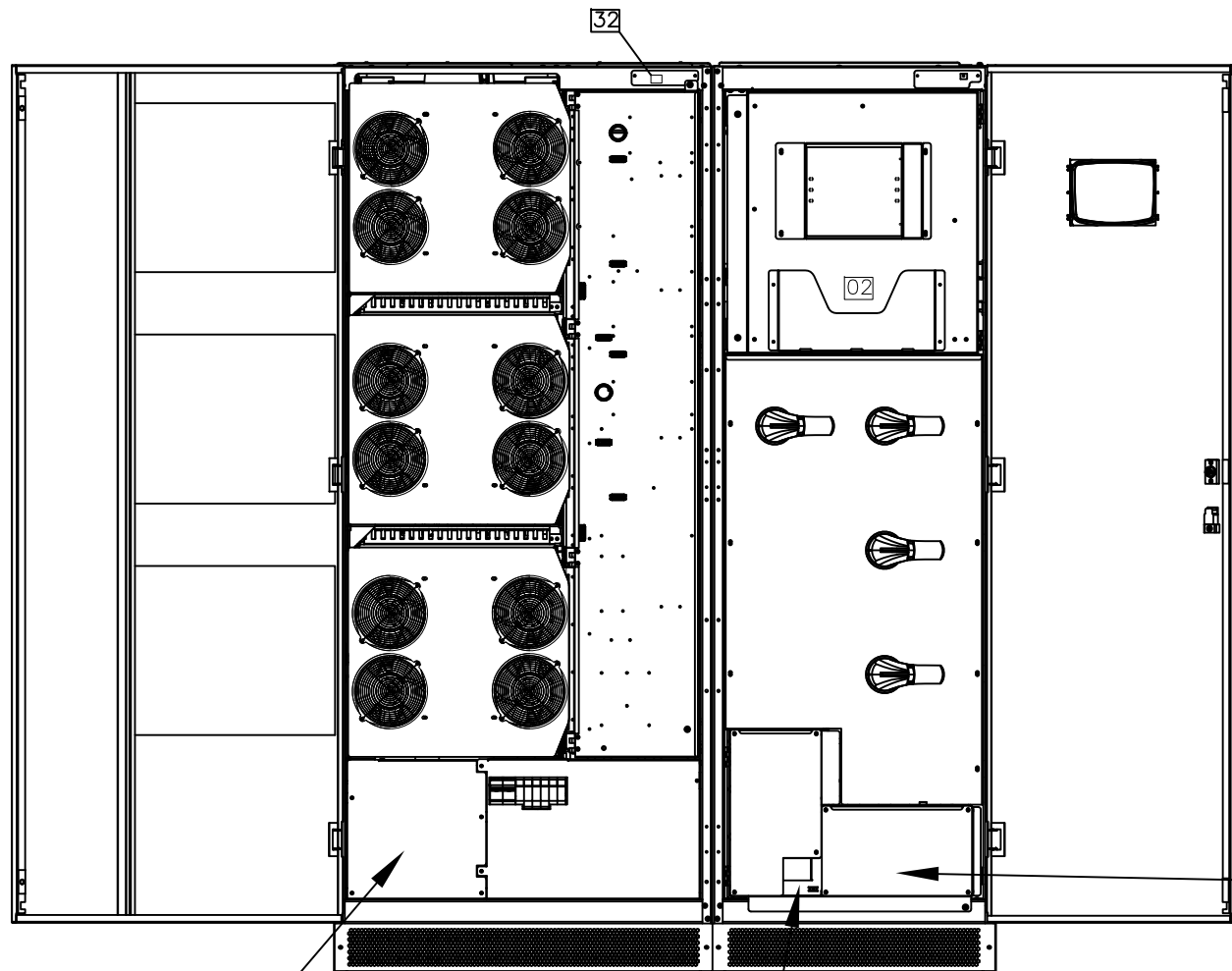
E

F

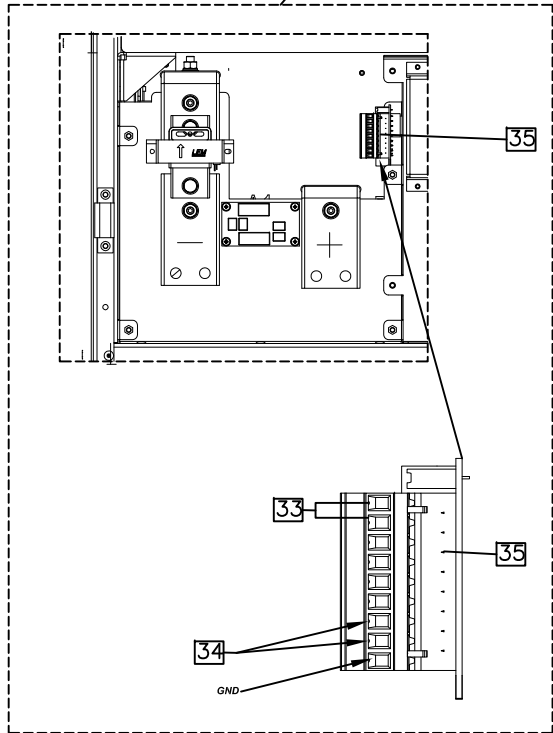
G

H

L

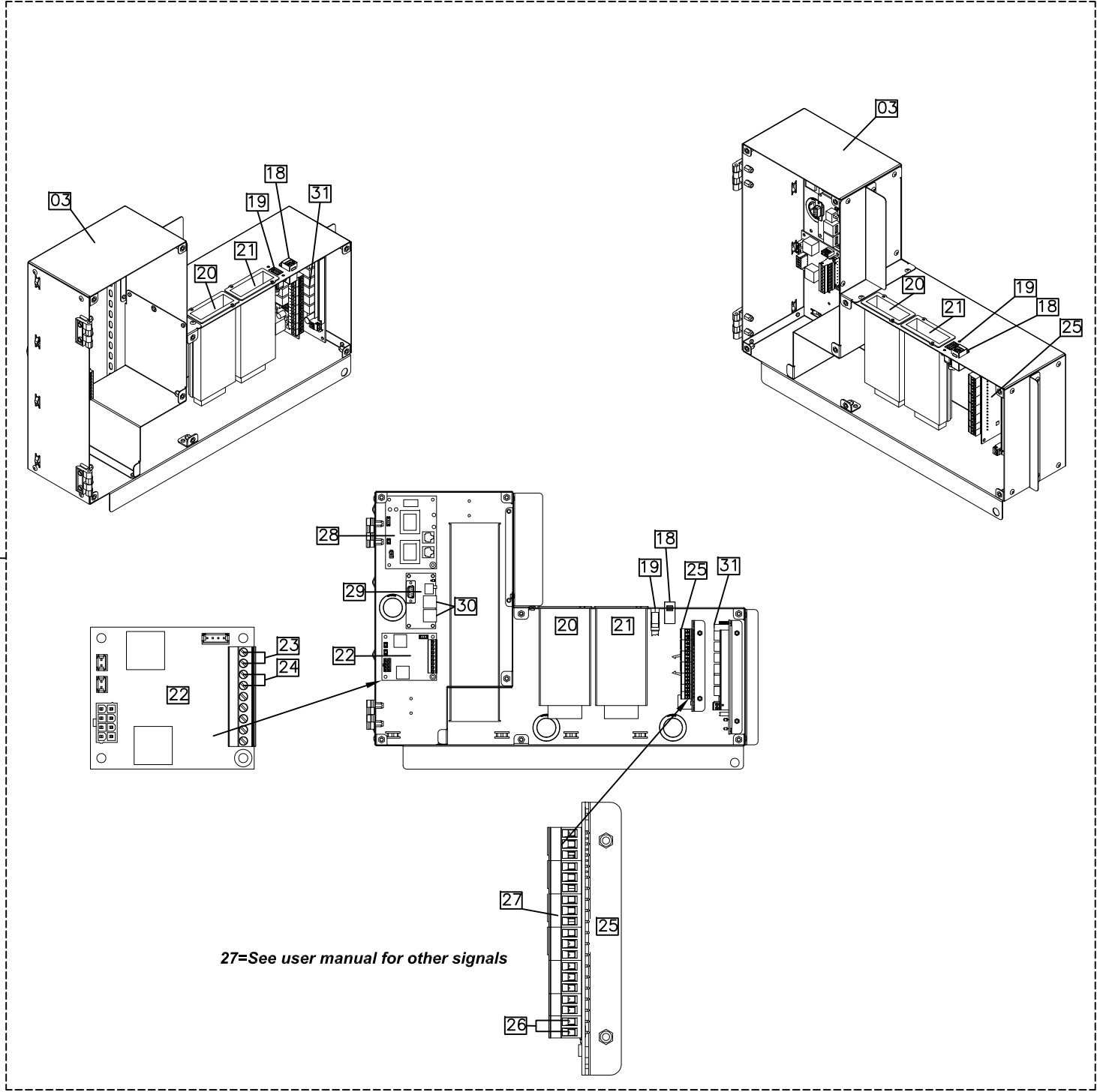


HOLE FOR ENTRANCE SELV CABLES  
NOTE:  
SELV CABLES NOT TO BE IN THE SAME RACEWAY OF THE  
POWER CABLES



DETAIL-C

DETAIL-D



27=See user manual for other signals

RPS

|            |                |       |          |               |                 |         |
|------------|----------------|-------|----------|---------------|-----------------|---------|
| EDIT.      | F.MASTROPASQUA | APPR. | F.AMODEO | DATE:19/11/18 | DRAW. No        | REV.    |
| VARIATION: |                |       |          |               | OMNNXEM40RUENIA | 00      |
| REPLACE:   |                |       |          |               | PAG.4 di 4      | CONT. / |

NOTE: In order to make improvements, the manufacturer reserves the right to modify the product described at any moment and without notice

TITLE: MAN NXE 400 DRW EN  
NXE 400kVA