

ELNAMAKY CO.

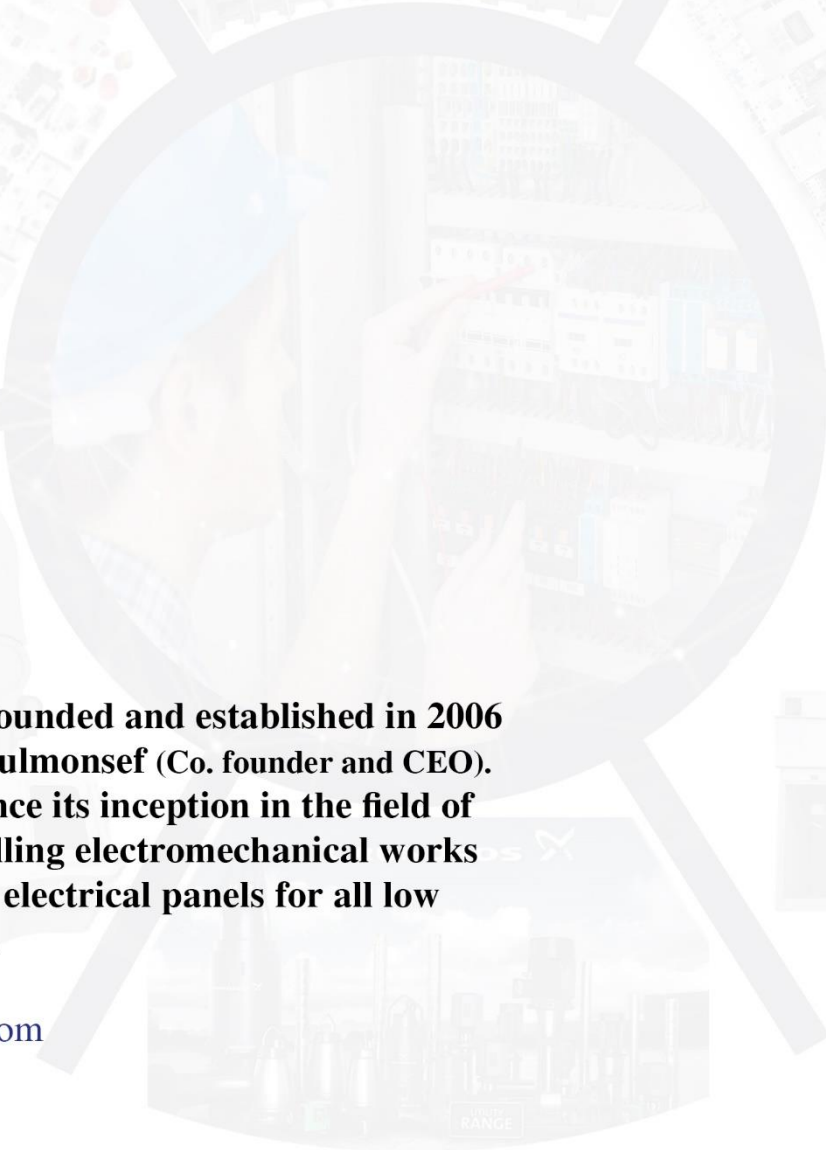
FOR ENGINEERING CONSULTATION & TRADE

NMK-Panels



NMK

ELCON
ELECTRICAL CONTRACTORS



NMK



The company was founded and established in 2006 by eng. Yousef Abdulmonsef (Co. founder and CEO). it has specialized since its inception in the field of designing and installing electromechanical works and manufacturing electrical panels for all low voltage application.

www.elnamaky-eg.com

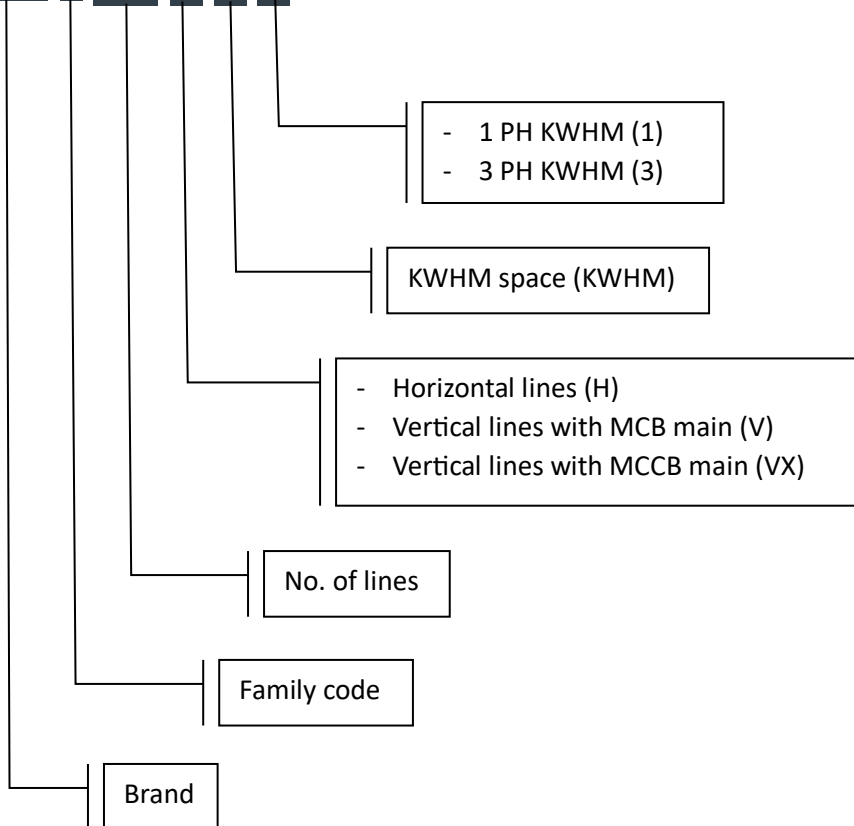
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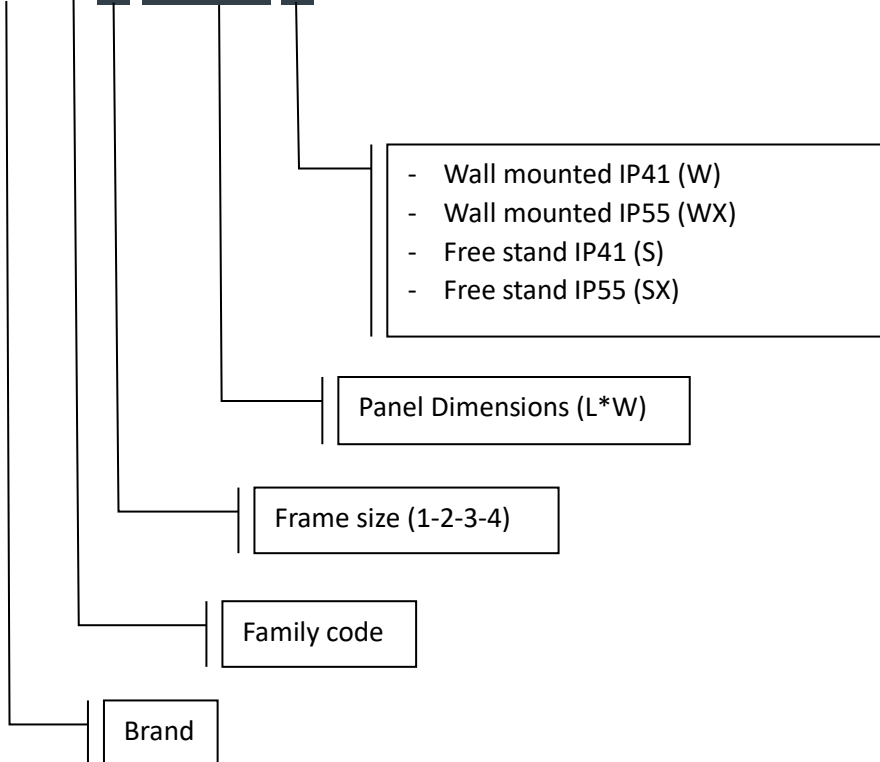
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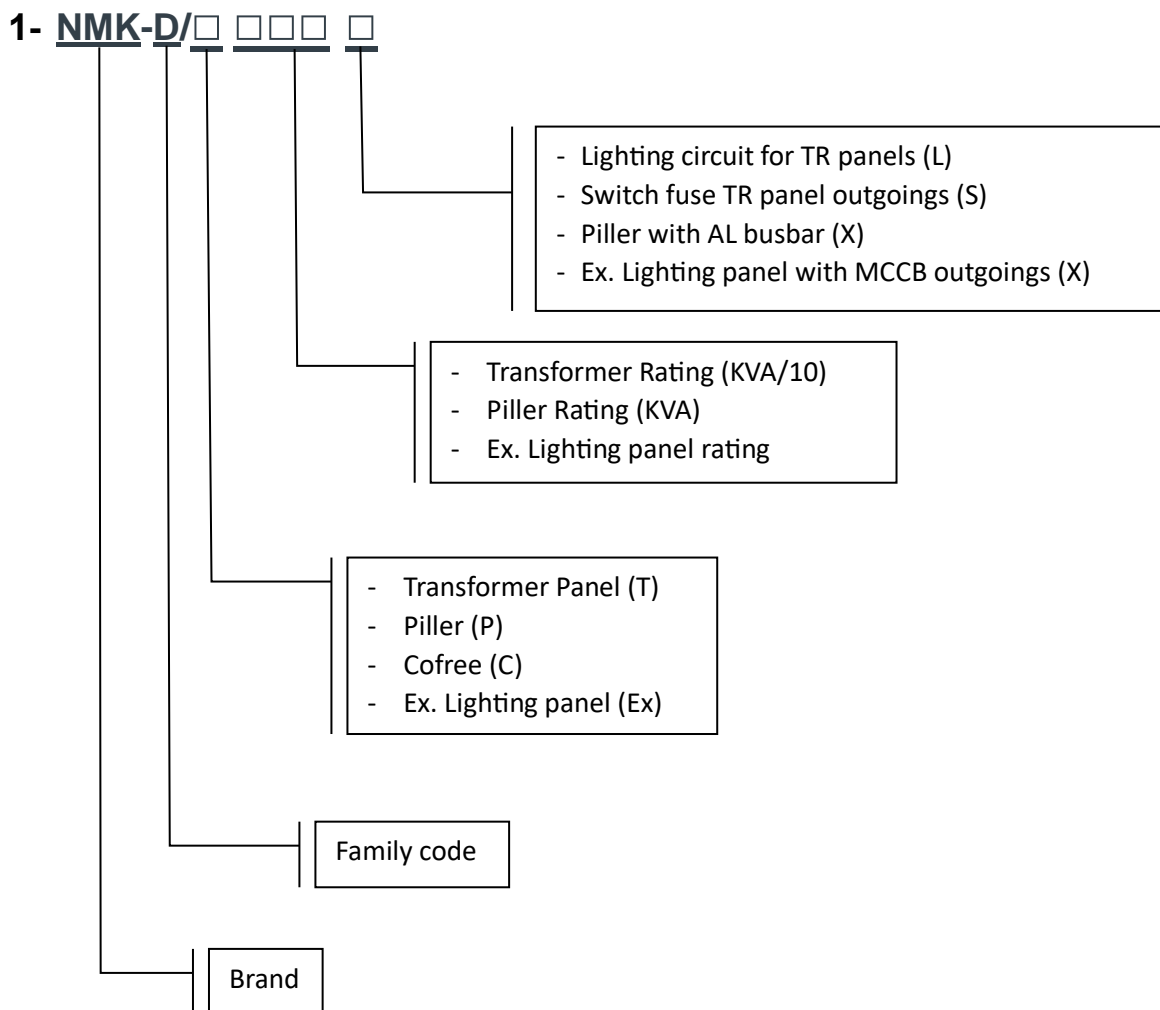
Types designation

1- **NMK-L/**□□□-□□/□



2- **NMK-U/**□-□□□□□□





ELNAMAKY CO.

FOR ENGINEERING CONSULTATION & TRADE



NMK-L

This product range is suitable for residential and commercial applications meeting latest market requirements.

NMK-L is available in raw type with or without KWHM space and also available in wye type with MCB or MCCB main CB up to 48 lines.

1. NMK-L Panels

- NMK-L/...H



- NMK-L/...V



- NMK-L/...H-KWHM/(1/3)



- General

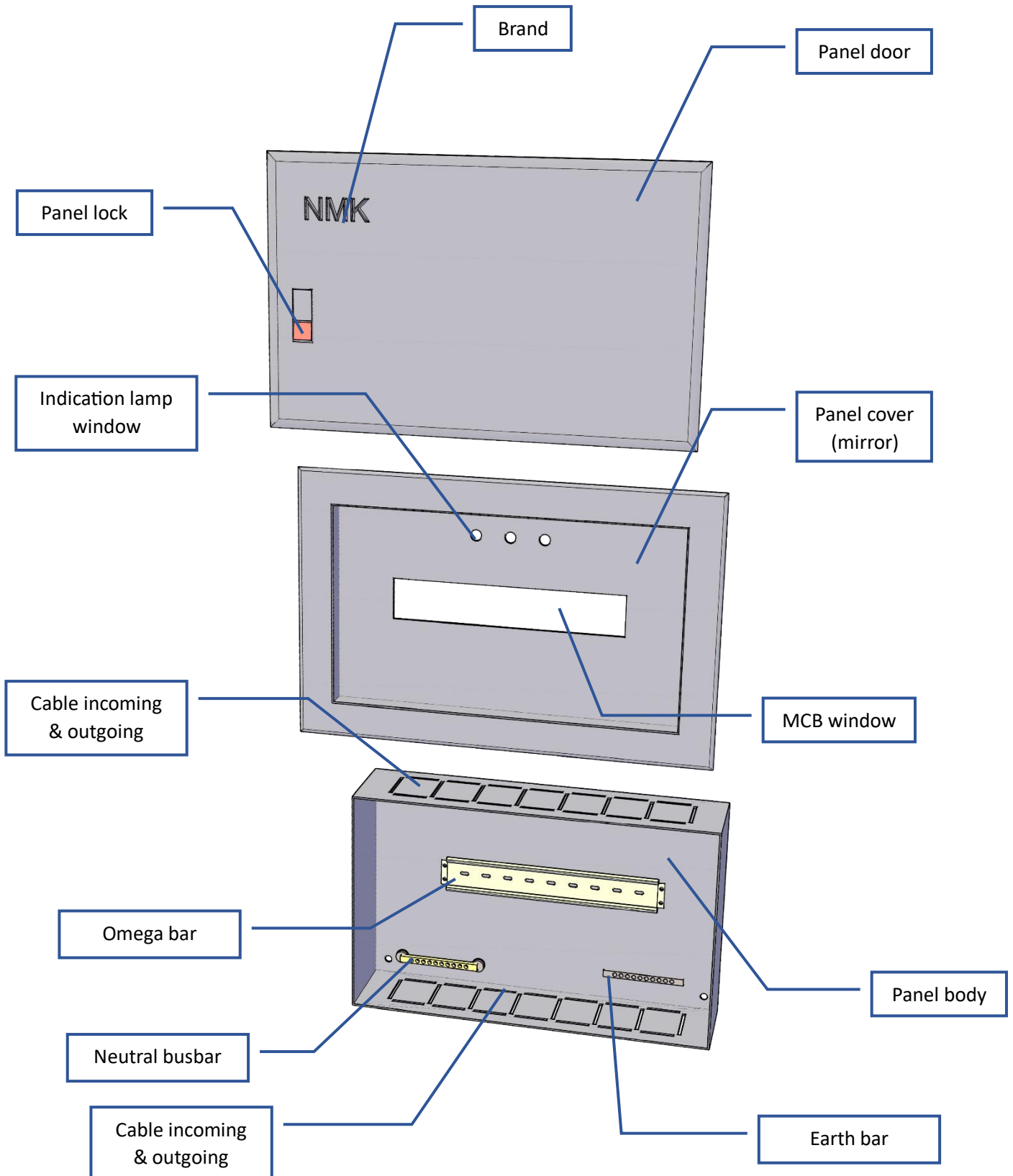
- Easy to select, install and use
- removable gland plates on the top, bottom or both
- Wall mounted and flush mounted enclosure design.
- Rated current: up to 250 A
- Voltage range: 3-Phase, rated voltage 220V/400V, 50Hz.
- Degree of protection: IP41.
- Enclosure material: Electrostatic painted sheet steel.
- Enclosure thickness: 1.25 mm.

- NMK-L Family

- 1- NMK-L/...H: Wall mounted or flush mounted enclosure up to 48 horizontal Lines, 220/400 VAC 50Hz, up to 125A with ingress protection IP41.
- 2- NMK-L/...V(X): Wall mounted or flush mounted enclosure up to 48 vertical Lines, 220/400 VAC 50Hz, up to 250A with ingress protection IP41.
- 3- NMK-L/...H-KWHM/ (1/3): Wall mounted or flush mounted enclosure with 1P or 3P KWHM space, 220/400 VAC 50Hz, up to 125A with ingress protection IP41.

1.1. NMK-L/H

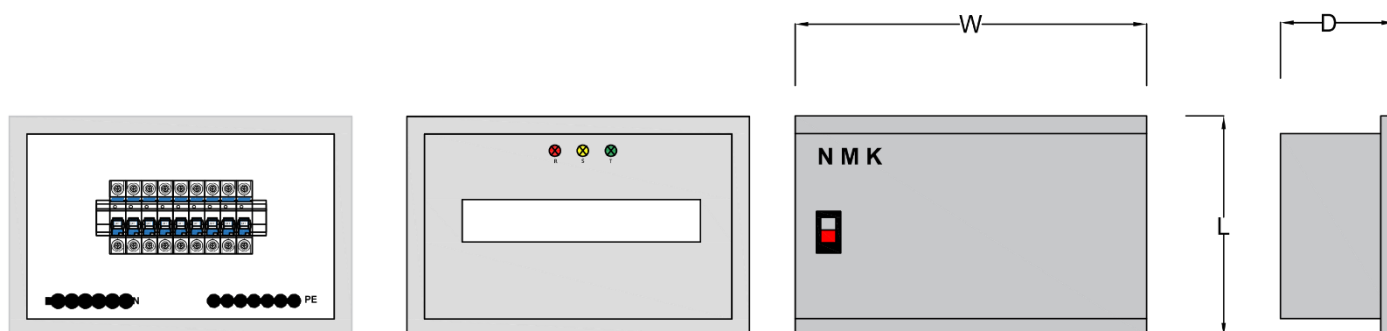
1.1.1. Design:



1.1.2. Technical Data:

Type	NMK-L/6H	NMK-L/12H	NMK-L/18H	NMK-L/24H	NMK-L/36H	NMK-L/48H
Standard	IEC 61439					
Rating (A)	63	125				
No. of lines (1P)	6	12	18	24	36	48
No. of lines (3P)	-	4	6	8	12	16
No. of rows	11	1	1	2	3	4
Operating voltage (V)	220	220/380				
Degree of protection	IP41					
Degree of mechanical strength	IK07					
Installation	Indoor					
Mounting	Wall mounted or flush mounted					
Enclosure material	Cold rolled sheet steel 1.25 mm					
Enclosure Painting	Electrostatic gray painting					

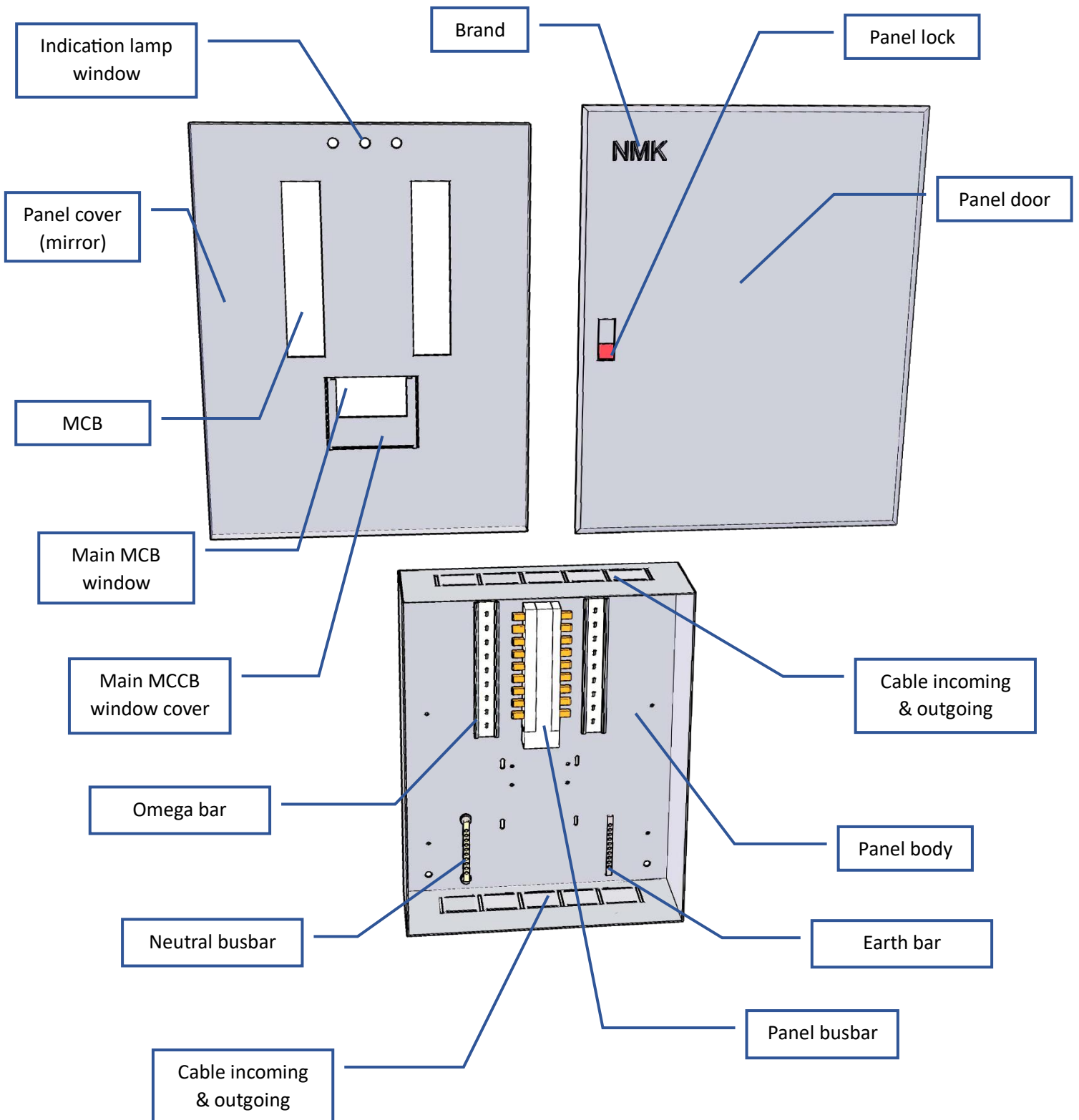
1.1.3. Mounting dimensions



Model	NMK-L/6H	NMK-L/12H	NMK-L/18H	NMK-L/24H	NMK-L/36H	NMK-L/48H
L	25	25	35	35	48	61
W	32	40	35	40	40	40
D	10	10	10	10	10	10

1.2. NMK-L/V(X)

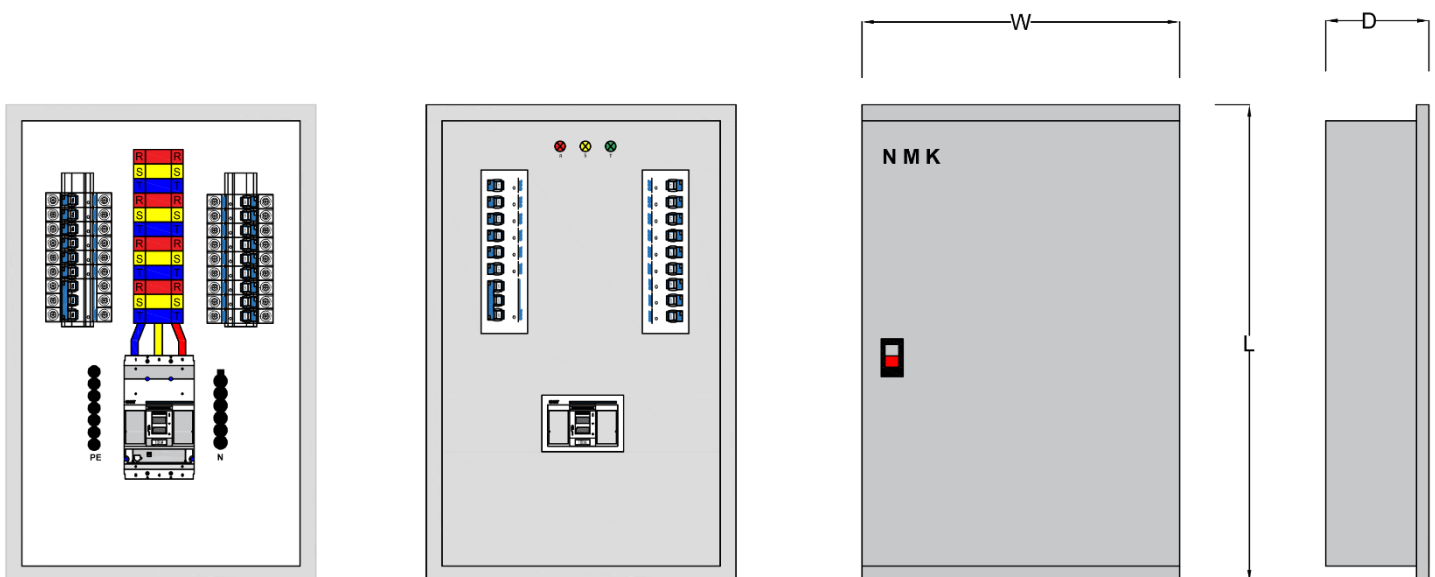
1.2.1. Design:



1.2.1. Technical Data:

Type	NMK-L/12V(X)	NMK-L/18V(X)	NMK-L/24V(X)	NMK-L/36V(X)	NMK-L/48V(X)
Standard	IEC 61439				
Rating (A)	125				
No. of lines (1P)	12	18	24	36	48
No. of lines (3P)	4	6	8	12	16
Operating voltage (V)	220/380				
Degree of protection	IP41				
Degree of mechanical strength	IK07				
Installation	Indoor				
Mounting	Wall mounted or flush mounted				
Enclosure material	Cold rolled sheet steel 1.25 mm				
Enclosure Painting	Electrostatic gray painting				

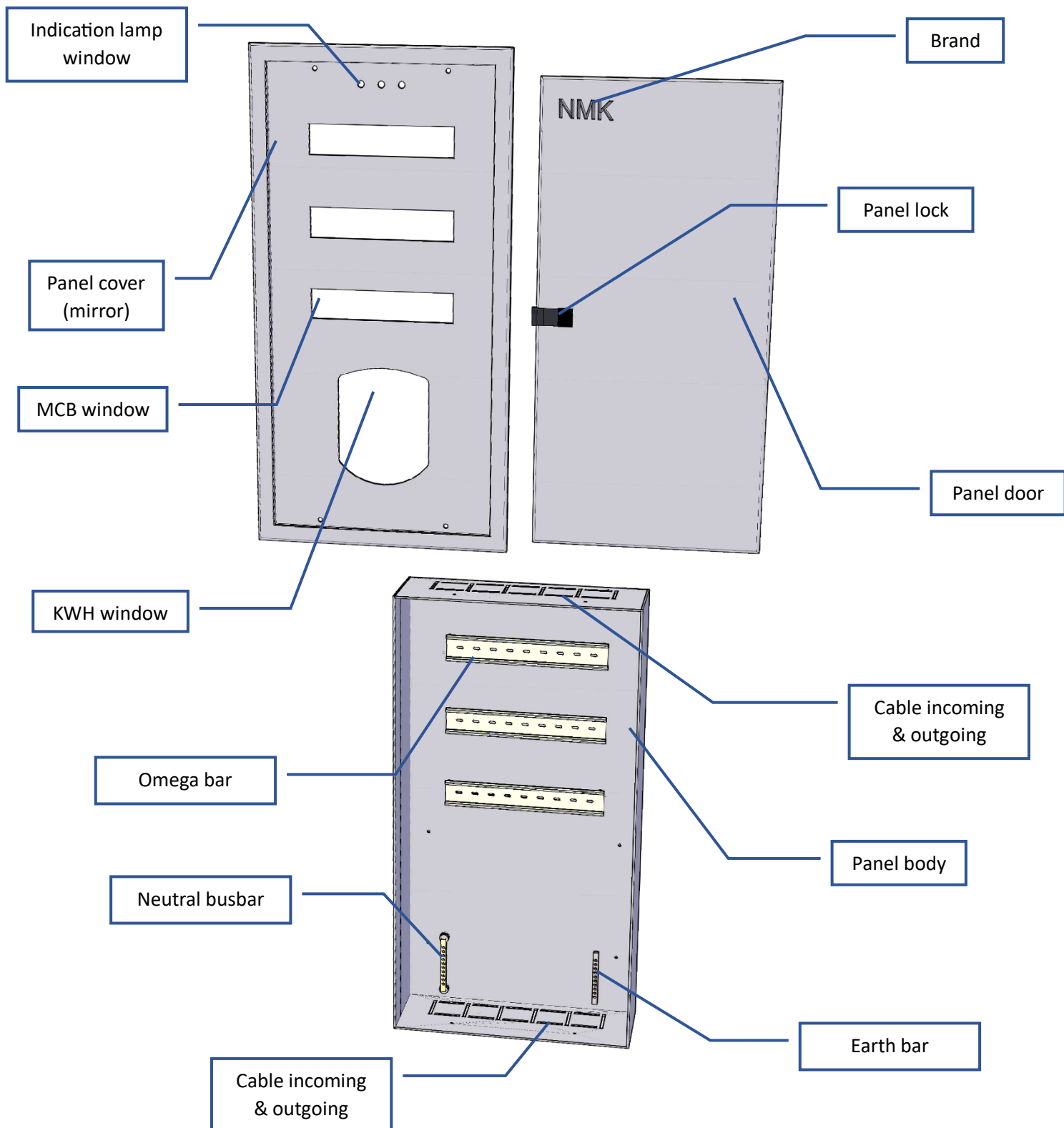
1.2.2. Mounting dimensions



Model	NMK-L/12V(X)	NMK-L/18V(X)	NMK-L/24V(X)	NMK-L/36V(X)	NMK-L/48V(X)
L (Cm)	45	50	60	72	80
W (Cm)	40	40	40	40	40
D (Cm)	15	15	15	15	15

1.3. NMK-L/H-KWHM/ (1/3)

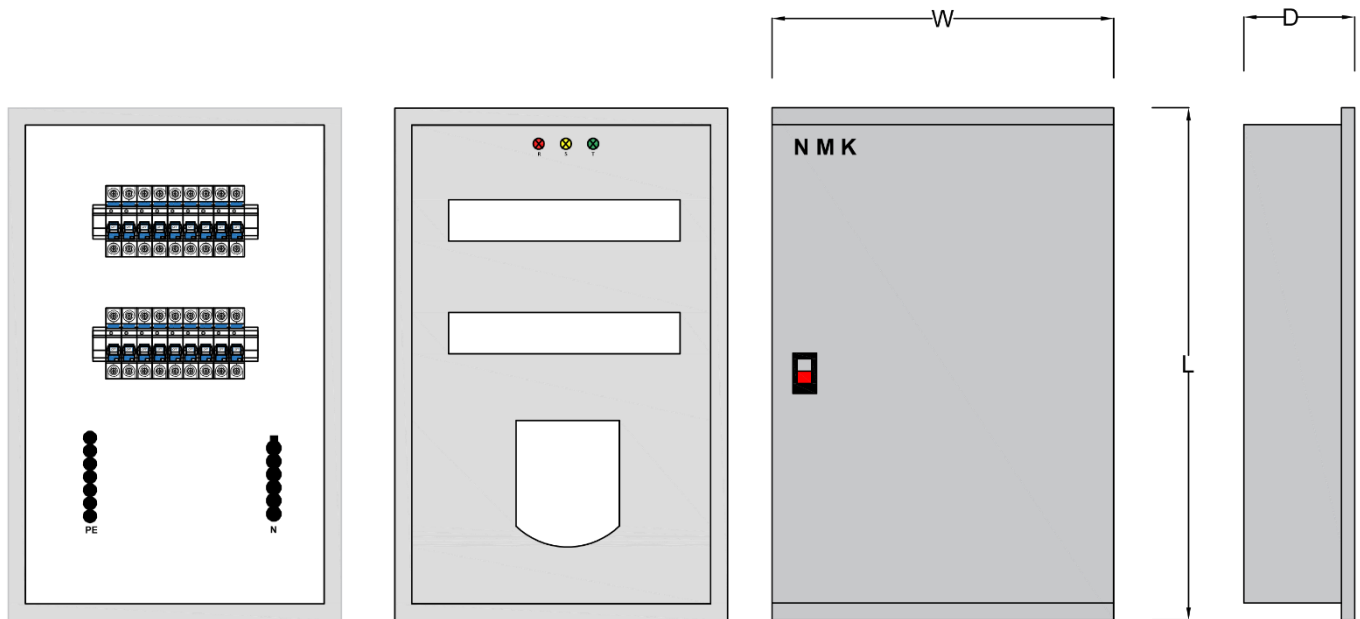
1.3.1. Design:



1.3.2. Technical Data:

Type	NMK-L/1H-KWHM/1	NMK-L/12H-KWHM/1	NMK-L/24H-KWHM/1	NMK-L/3H-KWHM/3	NMK-L/6H-KWHM/3	NMK-L/12H-KWHM/3	NMK-L/24H-KWHM/3	NMK-L/36H-KWHM/3
Standard	IEC 61439							
Rating (A)	125							
No. of lines (1P)	1	12	24	3	6	12	24	36
No. of lines (3P)	-	-	-	1	2	4	8	12
Operating voltage (V)	220			380				
Degree of protection	IP41							
Degree of mechanical strength	IK07							
Installation	Indoor							
Mounting	Wall mounted or flush mounted							
Enclosure material	Cold rolled sheet steel 1.25 mm							
Enclosure Painting	Electrostatic gray painting							

1.3.3. Mounting dimensions



Model	NMK-L/1H-KWHM/1	NMK-L/12H-KWHM/1	NMK-L/24H-KWHM/1	NMK-L/3H-KWHM/3	NMK-L/6H-KWHM/3	NMK-L/12H-KWHM/3	NMK-L/24H-KWHM/3	NMK-L/36H-KWHM/3
L	35	44	57	35	35	44	57	70
W	32	32	32	32	32	32	32	32
D	15	15	15	15	15	15	15	15

- **Ordering Codes:**

Panel Type	Ordering Code N.....P
NMK-L/6H	1506010
NMK-L/12H	1512010
NMK-L/18H	1518010
NMK-L/24H	1524010
NMK-L/36H	1536010
NMK-L/48H	1548010
NMK-L/12V	1512110
NMK-L/18V	1518110
NMK-L/24V	1524110
NMK-L/36V	1536110
NMK-L/48V	1548110
NMK-L/12VX	1512120
NMK-L/18VX	1518120
NMK-L/24VX	1524120
NMK-L/36VX	1536120
NMK-L/48VX	1548120
NMK-L/1H-KWHM/1	1501011
NMK-L/12H-KWHM/1	1512011
NMK-L/24H-KWHM/1	1524011
NMK-L/3H-KWHM/3	1503012
NMK-L/6H-KWHM/3	1506012
NMK-L/12H-KWHM/3	1512012
NMK-L/24H-KWHM/3	1524012
NMK-L/36H-KWHM/3	1536012

ELNAMAKY CO.

FOR ENGINEERING CONSULTATION & TRADE



NMK-U

This product range is suitable for Industrial applications, pump stations meeting latest market requirements.

NMK-U is a general purpose universal enclosure exist strongly with very wide range and flexible design for any specifications.

- Ask for your design if it isn't in our standard.

2. NMK-U Panels: -

- NMK-U/....-....W(X)



- NMK-U/S(X)



- General

- Wall mounted and standalone enclosure design.
- Rated current: up to 6300 A
- Voltage range: 3-Phase, rated voltage 400V/690V, 50Hz.
- Degree of protection: Up to IP55.
- Enclosure material: Electrostatic painted sheet steel.
- Enclosure thickness: 1.5 or 2 mm.

- NMK-U Family

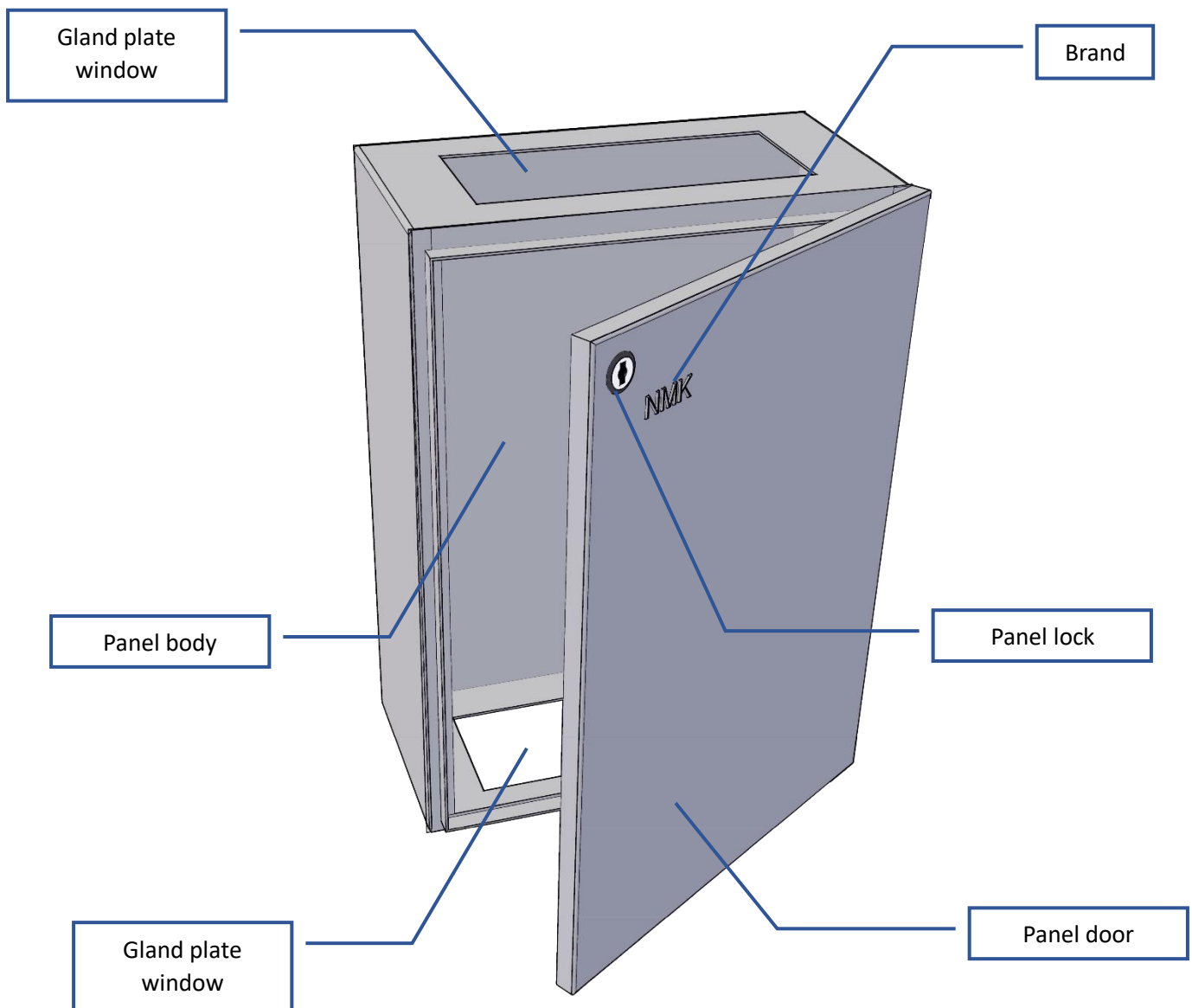
- 1- NMK-U/W: Wall mounted universal enclosure up to 120*100*35 Cm, 400 VAC/50Hz, up to 630A with ingress protection IP41.
- 2- NMK-U/WX: Wall mounted universal enclosure up to 120*100*35 Cm, 400 VAC/50Hz, up to 630A with ingress protection IP55.
- 3- NMK-U/S: Stand-alone universal enclosure up to 200*120*100 Cm, 400 or 690 VAC/50Hz, up to 6300 A with ingress protection IP41.
- 4- NMK-U/SX: Stand-alone universal enclosure up to 200*120*100 Cm, 400 or 690 VAC/50Hz, up to 6300 A with ingress protection IP55.

2.1. NMK-U/W(X):

2.1.1. Description:

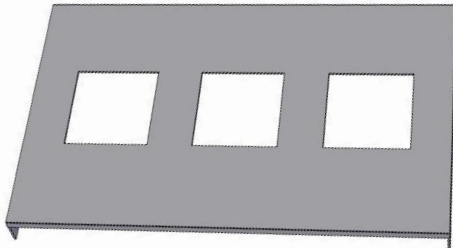
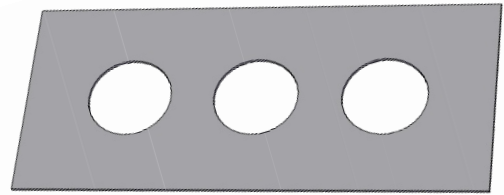
- Low voltage panels according to IEC 61439.
- Rated voltage: 3-Phase, rated voltage 400V/690V, 50Hz.
- Degree of protection: up to IP55.
- Enclosure material: Electrostatic painted sheet steel.
- Enclosure thickness: 1.5 or 2 mm.
- Rated current: up to 630 A.

2.1.2. Design:



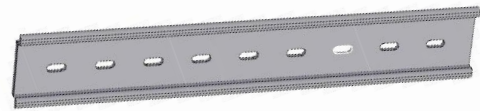
- Gland Plate:

It has various dimensions depending on panel design and no. of incoming or outgoing cables come through it. also it has various gland windows depending on cables diameter.



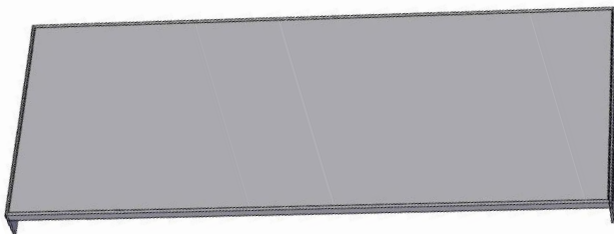
- CB cover (mirror):

It has various dimensions depending on panel design and no. of CBs that mounted in the same line. also it has various CB windows depending every CB frame size.



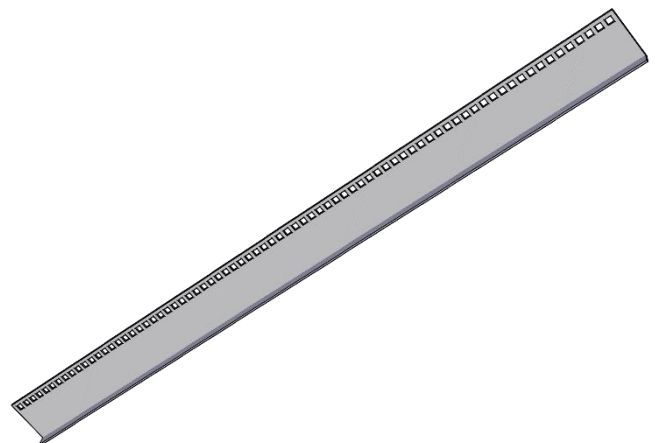
- Omega bar:

It is commonly used for mounting MCBs and control relays. it has various length depending on no. of MCBs and relays.



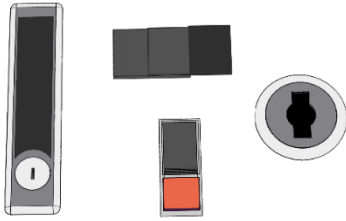
- Mounting plate:

It has various dimensions depending on panel design and no. of CBs or control products that mounted on it.



- Mounting kit:

It has various dimensions depending on panel design. it used as a base for mounting panel parts like mounting plate, mirror or omega bar.

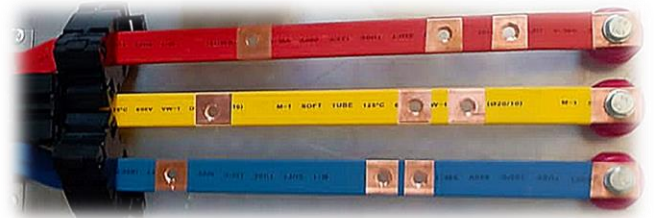


- Panel lock:

depends on panel design.

- main busbar:

depends on panel design.

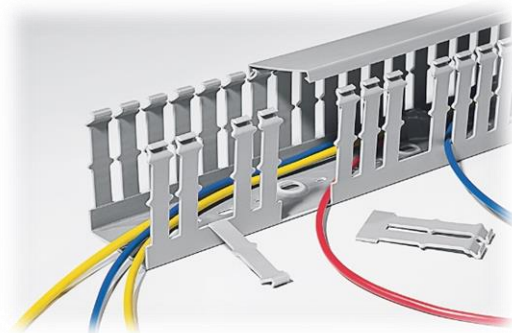


- Neutral and earth busbar:

depends on panel design.

- Duct:

Covering cables inside the panel.



- Busbar support (Insulators):

Used for mounting busbar, depending on busbar size and mounting direction.

2.1.1. Technical Data:

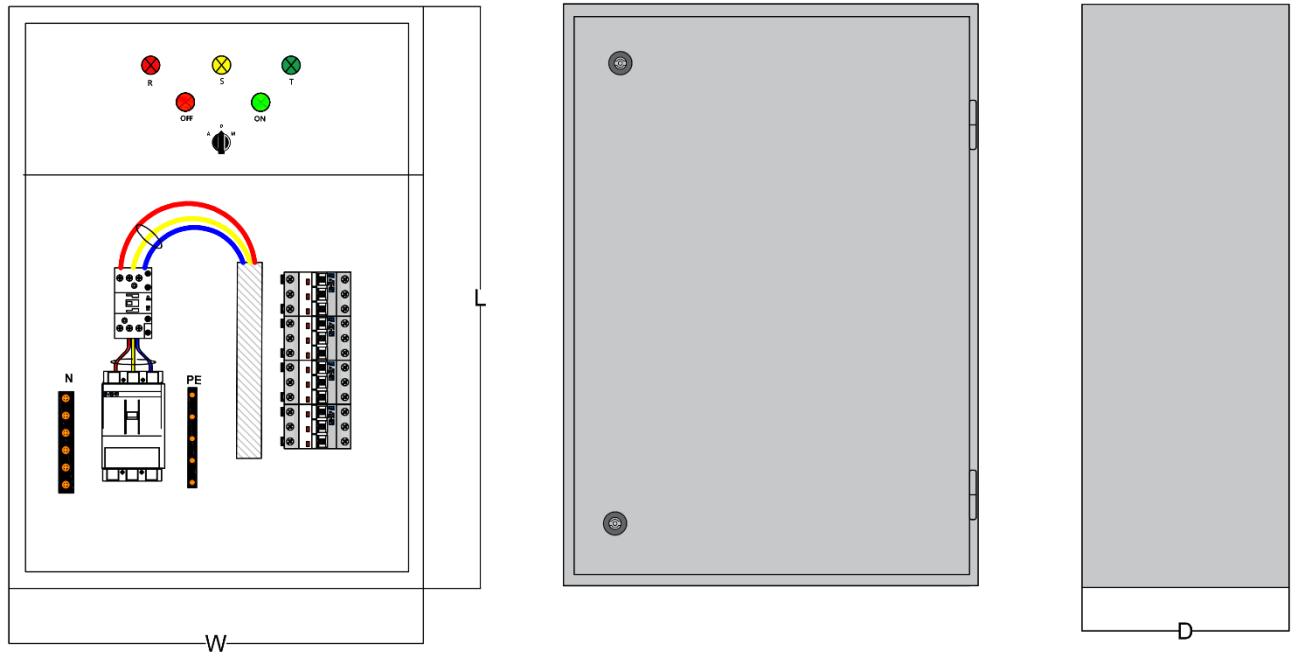
Type	NMK-U/1-0403W(X)	NMK-U/1-0504W(X)	NMK-U/1-0604W(X)	NMK-U/2-0604W(X)	NMK-U/2-0705W(X)	NMK-U/2-0805W(X)	NMK-U/2-0806W(X)
Standard	IEC - 61439						
Rated current (A)	125			250			
Rated operational voltage (Ue)	690 V						
Rated insulation voltage (Ui)	1000 V						
Frame size	1			2			
Ingress protection	IP 41 (55)						
Enclosure material	Cold rolled sheet steel						
Thickness (mm)	1.5 (2 on request) °						
Painting	Electrostatic gray painting						
Mounting	Wall mounted						
Dimensions (L*W*D) Cm	40*30*15	50*40*20	60*40*20	60*40*25	70*50*25	80*50*25	80*60*25

NMK-U/3-0806W(X)	NMK-U/3-0906W(X)	NMK-U/3-0907W(X)	NMK-U/3-1006W(X)	NMK-U/3-1008W(X)	NMK-U/4-1006W(X)	NMK-U/4-1008W(X)	NMK-U/4-1208W(X)	NMK-U/4-1210W(X)
IEC - 61439								
630								
690 V								
1000 V								
3					4			
IP 41 (55)								
Cold rolled sheet steel								
1.5 (2 on request) °								
Electrostatic gray painting								
Wall mounted or stand alone								
80*60*30	90*60*30	90*70*30	100*60*30	100*80*30	100*60*35	100*80*35	120*80*35	120*100*35

(°): Standard thickness is 1.5 mm but it can be designed with 2 mm on request.

- These dimensions can be modified regarding to request conditions

2.1.2. Mounting dimensions



Model	L	W	D
NMK-U/1-0403W(X)	40	30	15
NMK-U/1-0504W(X)	50	40	20
NMK-U/1-0604W(X)	60	40	20
NMK-U/2-0604W(X)	60	40	25
NMK-U/2-0705W(X)	70	50	25
NMK-U/2-0805W(X)	80	50	25
NMK-U/2-0806W(X)	80	60	25
NMK-U/3-0806W(X)	80	60	30
NMK-U/3-0906W(X)	90	60	30
NMK-U/3-0907W(X)	90	70	30
NMK-U/3-1006W(X)	100	60	30
NMK-U/3-1008W(X)	100	80	30
NMK-U/4-1006W(X)	100	60	35
NMK-U/4-1008W(X)	100	80	35
NMK-U/4-1208W(X)	120	80	35
NMK-U/4-1210W(X)	120	100	35

2.1.3. Ordering Codes:

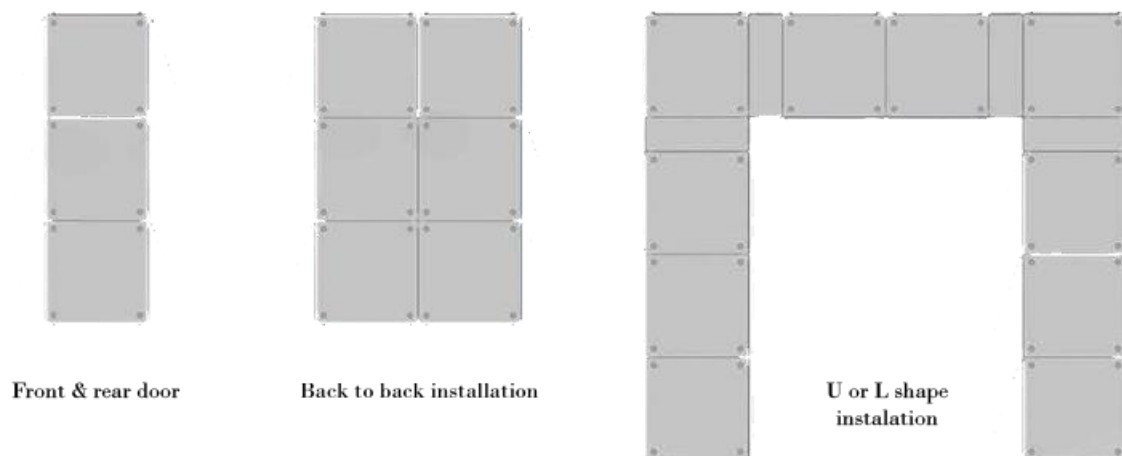
Panel Type	Ordering Code N.....P
NMK-U/1-0403W	1611431
NMK-U/1-0504W	1611541
NMK-U/1-0604W	1611641
NMK-U/2-0604W	1612641
NMK-U/2-0705W	1612751
NMK-U/2-0805W	1612851
NMK-U/2-0806W	1612861
NMK-U/3-0806W	1613861
NMK-U/3-0906W	1613961
NMK-U/3-0907W	1613971
NMK-U/3-1006W	1613061
NMK-U/3-1008W	1613081
NMK-U/4-1006W	1614061
NMK-U/4-1008W	1614081
NMK-U/4-1208W	1614281
NMK-U/4-1210W	1614201
NMK-U/1-0403WX	1611432
NMK-U/1-0504WX	1611542
NMK-U/1-0604WX	1611642
NMK-U/2-0604WX	1612642
NMK-U/2-0705WX	1612752
NMK-U/2-0805WX	1612852
NMK-U/2-0806WX	1612862
NMK-U/3-0806WX	1613862
NMK-U/3-0906WX	1613962
NMK-U/3-0907WX	1613972
NMK-U/3-1006WX	1613062
NMK-U/3-1008WX	1613082
NMK-U/4-1006WX	1614062
NMK-U/4-1008WX	1614082
NMK-U/4-1208WX	1614282
NMK-U/4-1210WX	1614202

- panels with different dimensions can be designed referring to any special request.

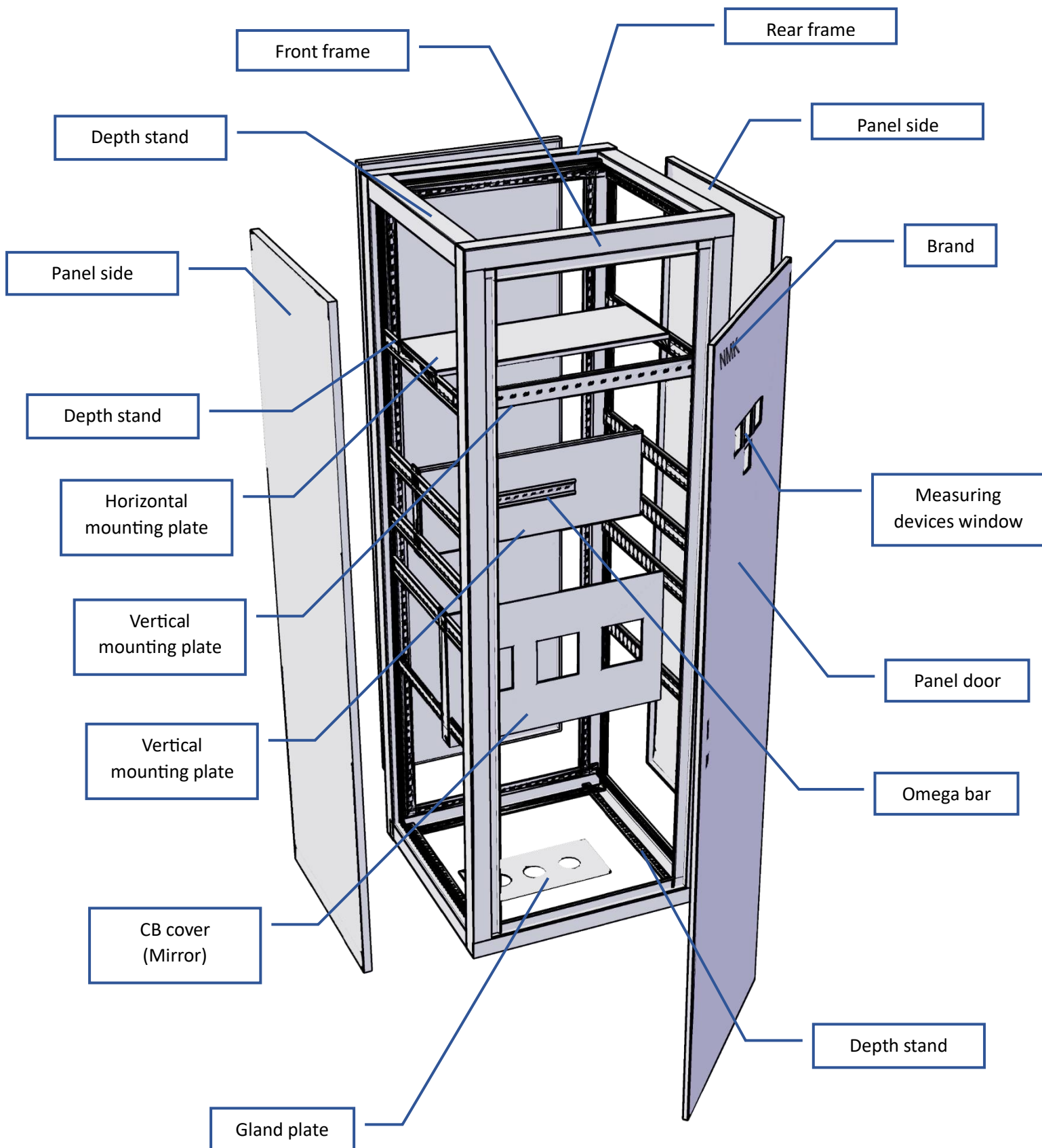
2.2. NMK-U/S(X):

2.2.1. Description:

- Low voltage panels according to IEC 61439.
- Rated voltage: 3-Phase, rated voltage 400V/690V, 50Hz.
- Degree of protection: up to IP55.
- Enclosure material: Electrostatic painted sheet steel.
- Enclosure thickness: 2 mm.
- Rated current: up to 6300 A.
- Flexible installation forms to be suitable with available dimensions.



2.2.2. Design:





- Panel lock:

- main busbar:

depends on panel design.

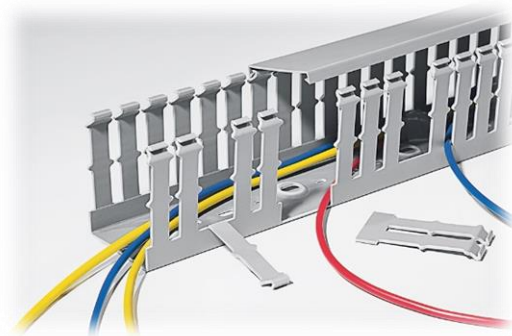


- Neutral and earth busbar:

depends on panel design.

- Duct:

Covering cables inside the panel.



- Busbar support (Insulators):

Used for mounting busbar, depending on busbar size and mounting direction.

2.2.3. Technical Data:

- Panel designed regarding IEC 61439 standard with rating up to 6300A /690VAC and IP55 available for any required specification.
- Panel form of separation defines the internal separation of assemblies according to IEC 61439 into 7 types of form (1, 2a, 2b, 3a, 3b, 4a, and 4b).

Form 1

No internal separation of the busbars, functional units or cable terminals from each other. Suitable for small low power switchboards.

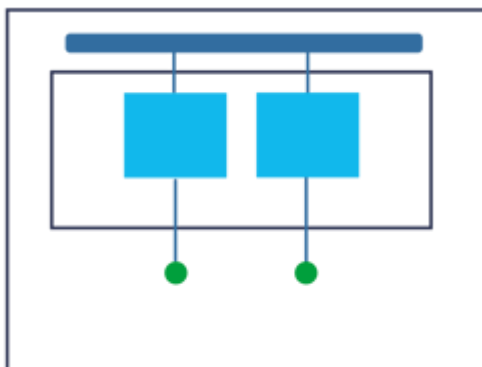


Form 2

Functional units are separated from the busbars

Form 2a

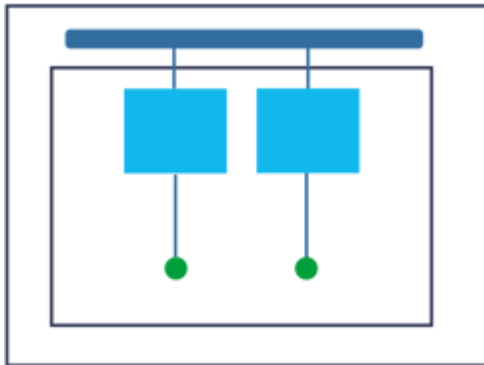
External cable terminals **are not** separated from the busbar



Form 2b Type 1

External cable terminals **are** separated from the busbar.

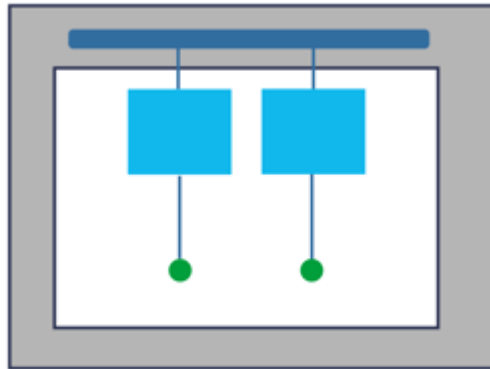
Busbar separation is achieved by insulated coverings – sleeving, wrapping or coating



Form 2b Type 2

As form 2b type 1

Busbar separation is achieved by partitions and barriers.

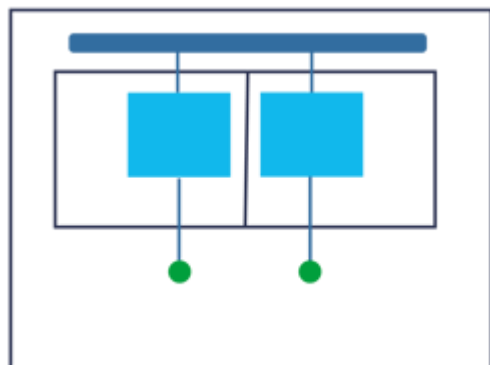


Form 3

Internal separation of the busbar from the functional units and the functional units from each other via cubicles. External cable terminals are separated from their respective functional units but not from each other.

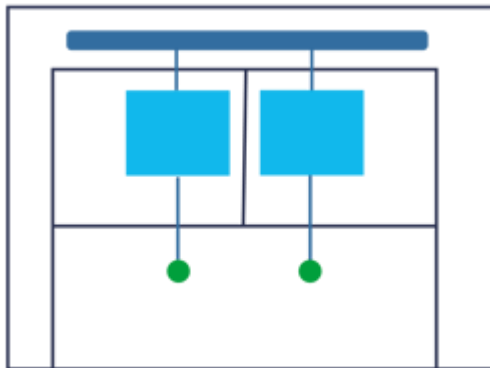
Form 3a

Terminals for external cabling are not separated from busbars



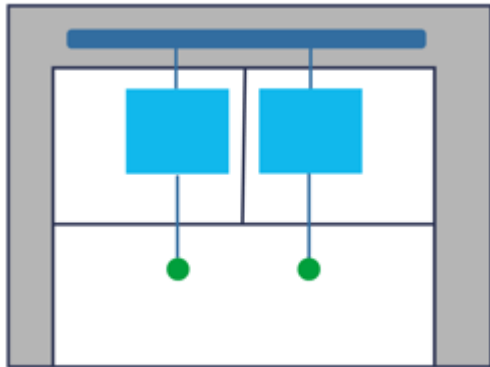
Form 3b Type 1

Terminals for external conductors are separated from the respective functional unit and the busbars.
 Terminals are not separated from each other
 Busbar separation is achieved by insulated coverings sleeving, wrapping or coating



Form 3b Type 2

As form 3b type 1
 Busbar separation is achieved by partitions and barriers.

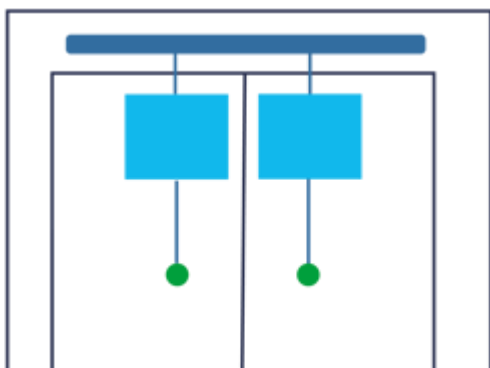


Form 4

Form 4 is the highest form rating. Busbars are segregated from the functional units and terminals for external cabling. Functional units are segregated from each other.

Form 4a Type 1

The terminals for external cabling are in the same compartment as the associated functional unit but segregated from terminals for other functional units
 Busbar separation is achieved by insulated coverings sleeving, wrapping or coating

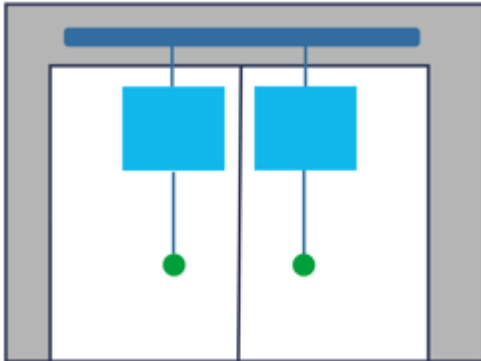


Form 4a Type 2 & 3

As form 4a type 1

Busbar separation is achieved by partitions and barriers.

Type 3 requires individual, integral cable glanding facilities to be provided for each circuit.

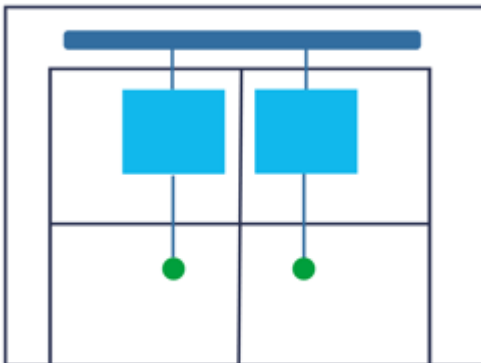


Form 4b Type 4

Terminals for external cabling are not in the same compartment as the associated functional unit.

Busbar, functional units and terminals are all fully segregated from each other

Busbar separation is achieved by insulated coverings sleeving, wrapping or coating



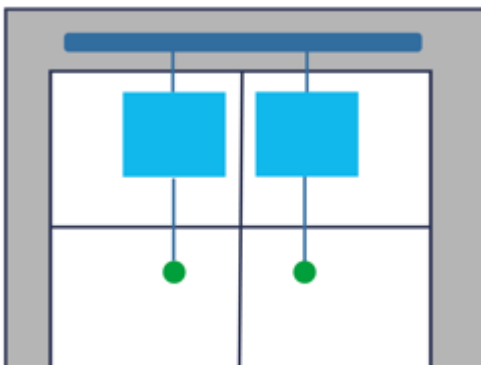
Form 4b Type 5, 6 & 7

As form 4b type 4

Type 5 requires busbar separation by partitions and barriers with outgoing terminals separated by insulated coverings.

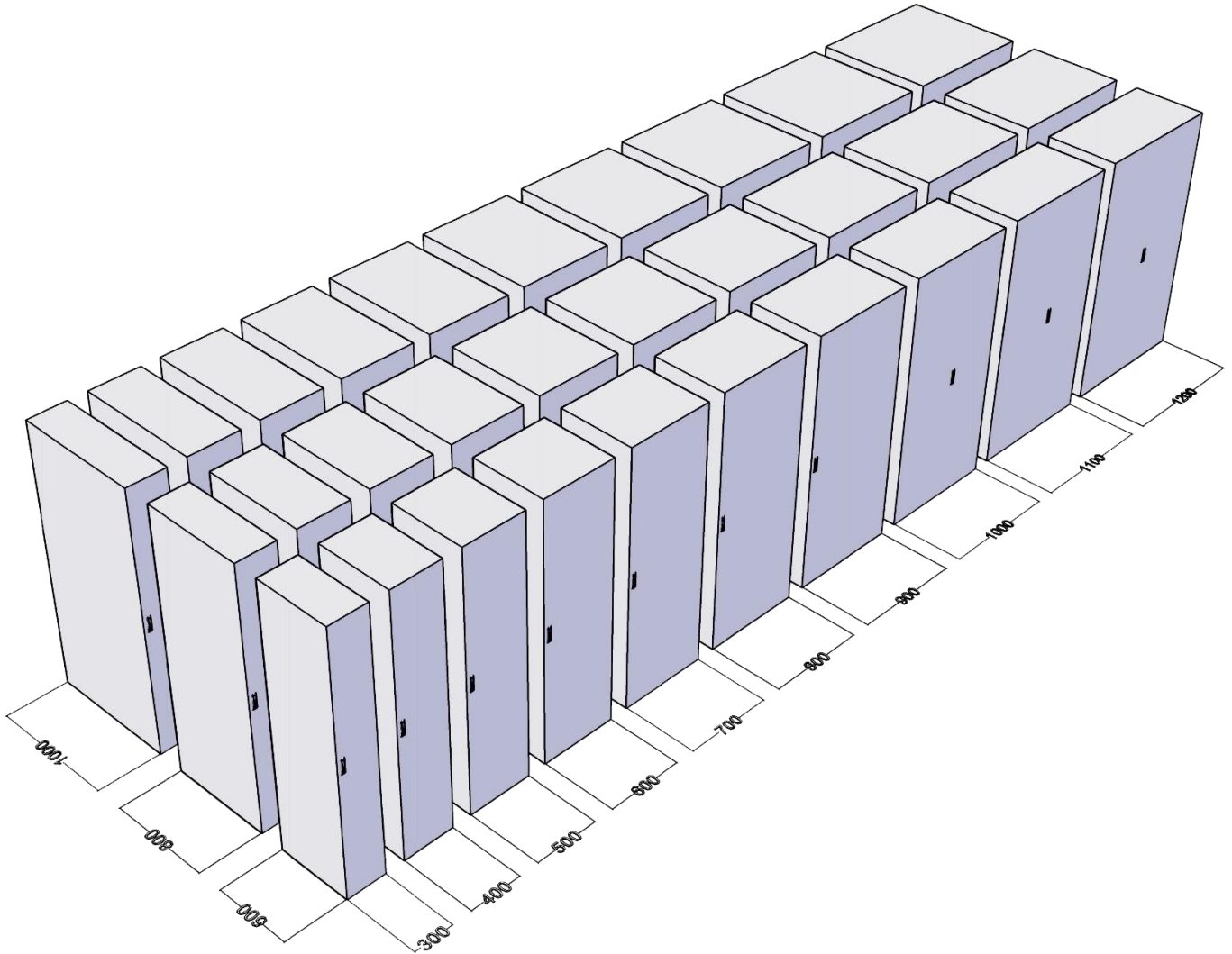
Type 6 requires busbars and terminals are separated by partitions and barriers

Type 7 requires Individual, integral cable glanding facilities to be provided for each circuit. Busbars and extended terminals are separated by partitions and barriers



2.2.4. Mounting dimensions

- Panel consists of many part that we can control its dimension in design stage, so it has various possible dimensions with 2000 mm height.



2.2.5. Ordering:

- These panels are specially designed as per every project specification, so you can ask for your design to confirm it before manufacturing.

ELNAMAKY CO.

FOR ENGINEERING CONSULTATION & TRADE



NMK-D

This product range is about distribution boards that we manufacture regarding EEHC specifications.

NMK-D is available for standard specifications and also for special specifications.

3. NMK-D Panels: -

- NMK-D/T...



- NMK-D/P....(X)



- NMK-D/C....



- NMK-D/Ex....(X)



- General

- Panels design according to EEHC specifications.
- Voltage range: 3-Phase, rated voltage 400V, 50Hz.
- Degree of protection: according to EEHC specifications.
- Enclosure material: Electrostatic painted sheet steel.
- Enclosure thickness: 2 mm.

- NMK-D Family

- 1- NMK-D/T: Transformer panels for different transformer rated up to 2500 KVA with rated currents up to 4500A using certified components either CBs or switch fuses according to every company specification.
- 2- NMK-D/P(X): Distribution boxes (Pillars) with different specifications according to every company for all ratings.
- 3- NMK-D/C: Distribution boxes 4460 (Cofree) as specified either in EEHC specifications or any special specifications.
- 4- NMK-D/Ex(X): External lighting panel with efficient automatic control operation as specified.

3.1. NMK-D/T:

3.1.1. Description:

- Low voltage transformer panels certified from EEHC.
- Rated voltage: 3-Phase, rated voltage 400V, 50Hz.
- Degree of protection: IP41 for indoor / IP54 for outdoor panels.
- Enclosure material: Electrostatic painted sheet steel.
- Enclosure thickness: 2 mm.
- Rated current: up to 4500 A for 2500 KVA Transformer.
- Internal components: Certified MCCBs from CHINT company or Certified switch fuse according to EEHC specifications.

3.1.2. Design:

- **Universal enclosure used in designing these panels regarding EEHC specifications**

3.1.3. Technical Data:

Type	NMK-D/T006	NMK-D/T010	NMK-D/T016	NMK-D/T020	NMK-D/T030	NMK-D/T050	NMK-D/T080	NMK-D/T100	NMK-D/T150	NMK-D/T200	NMK-D/T250
Standard	IEC 61439-1 & IEC 60947										
Transformer capacity (KVA)	50/63	100	160	200	300	500	800	1000	1500/1600	2000	2500
Panel current (A)	100	160	250	350	550	900	1500	1800	3000	3600	4500
Busbar (Main/N) mm ²	100 / 60	125 / 80	200 / 120	250 / 150	400 / 300	600 / 400	1000 / 600	1200 / 800	2000 / 1200	2400 / 1600	3000 / 1800
Main CB (AT/AF)	100 / 125	160 / 250	250 / 250	350 / 400	630 / 630	1000 / 1000	1600 / 2000	2000 / 2000	3200 / 3200	4000 / 4000	5000 / 5000
Main CB Th adj./Mag. Adj.	(0.7-1) In / (5-10) In					(0.4-1) In / (2-10) In					
Main CB KA	50	50	50	50	50	50	50	50	80	80	80
Outgoing CBs (AT/AF)	(50/63) / 125	100 / 250	160 / 250	200 / 250	250 / 250	250 / 250	250 / 250	250 / 250	400 / 400	400 / 400	400 / 400
Outgoing CBs QTY	3	3	3	3	4	5	6	8	8	12	16
Outgoing CBs Th adj./Mag. Adj.	(0.7-1) In / (5-10) In										
Outgoing CBs KA	50	50	50	50	50	50	50	50	70	70	70
Lighting control CB (AT/AF) *	32 / 125	40 / 125	50 / 125	50 / 125	63 / 125	63 / 125	63 / 125	63 / 125	63 / 125	63 / 125	63 / 125
Lighting control CB KA *	50	50	50	50	50	50	50	50	100	100	100
Lighting control CB Th adj. *	(0.7-1) In										
Lighting control contactor rated current (A) *	32	40	50	50	63	63	63	63	63	63	63
Digital timer or photo cell *	√	√	√	√	√	√	√	√	√	√	√
Ammeter / (CT)	(0-100) / (100/5)	(0-200) / (200/5)	(0-300) / (300/5)	(0-400) / (400/5)	(0-600) / (600/5)	(0-1000) / (1000/5)	(0-1600) / (1600/5)	(0-2000) / (2000/5)	(0-3200) / (3200/5)	(0-4000) / (4000/5)	(0-5000) / (5000/5)
Voltmeter 0-500 V C-W: Selector 7 positions	√	√	√	√	√	√	√	√	√	√	√
Fixed Capacitor (KVAR) 400 V (withstanding 525V continuously)	5	5	7.5 / 10	10	15	25	40	50	75	100	125

Capacitor CB (A)	16	16	32	32	40	63	100	125	200	250	320
Capacitor CB (KA)	15	35	35	35	35	35	50	50	65	65	65
Led 9W & socket 220V	√	√	√	√	√	√	√	√	√	√	√
KWH Space	√	√	√	√	√	√	√	√	√	√	√
Ambient Temperature 50°C	√	√	√	√	√	√	√	√	√	√	√
B.B current Density 1.5A/ mm²	√	√	√	√	√	√	√	√	√	√	√
Rated Insulation voltage (Ui) 750 V **	√	√	√	√	√	√	√	√	√	√	√
Rated Impulse withstand voltage (Uimp) 8 KV **	√	√	√	√	√	√	√	√	√	√	√
No. of Switch fuses 400/630 A ***	3	3	3	3	4	6	8	12	18	20	20
Dimensions (L*W*D) cm (CB)	140*110*35	140*110*35	140*110*35	150*110*35	150*130*35	180*170*60	180*190*60	180*230*60	180*270*70	180*370*80	180*460*80

- **Notes:**

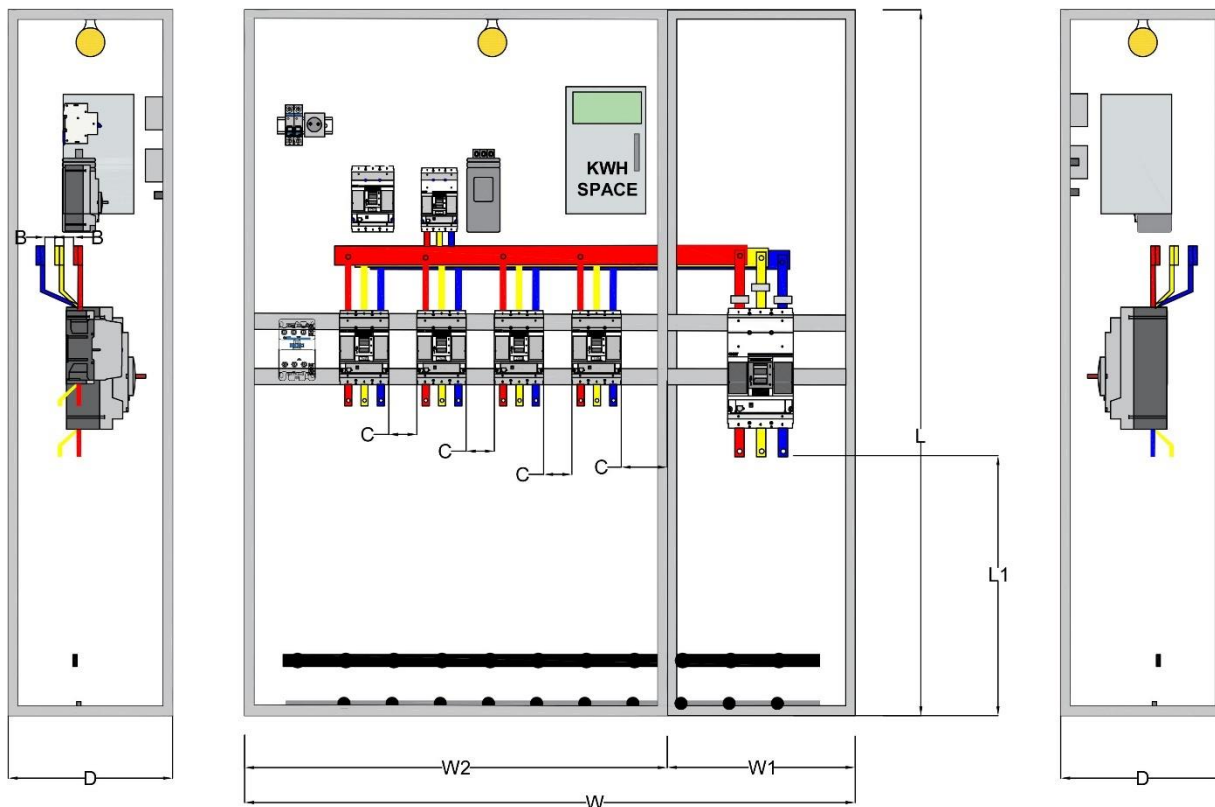
(*): Lighting control circuit is an option according to the customer request depending on each company related districts.

(**): These items related to Main& outgoing CBs.

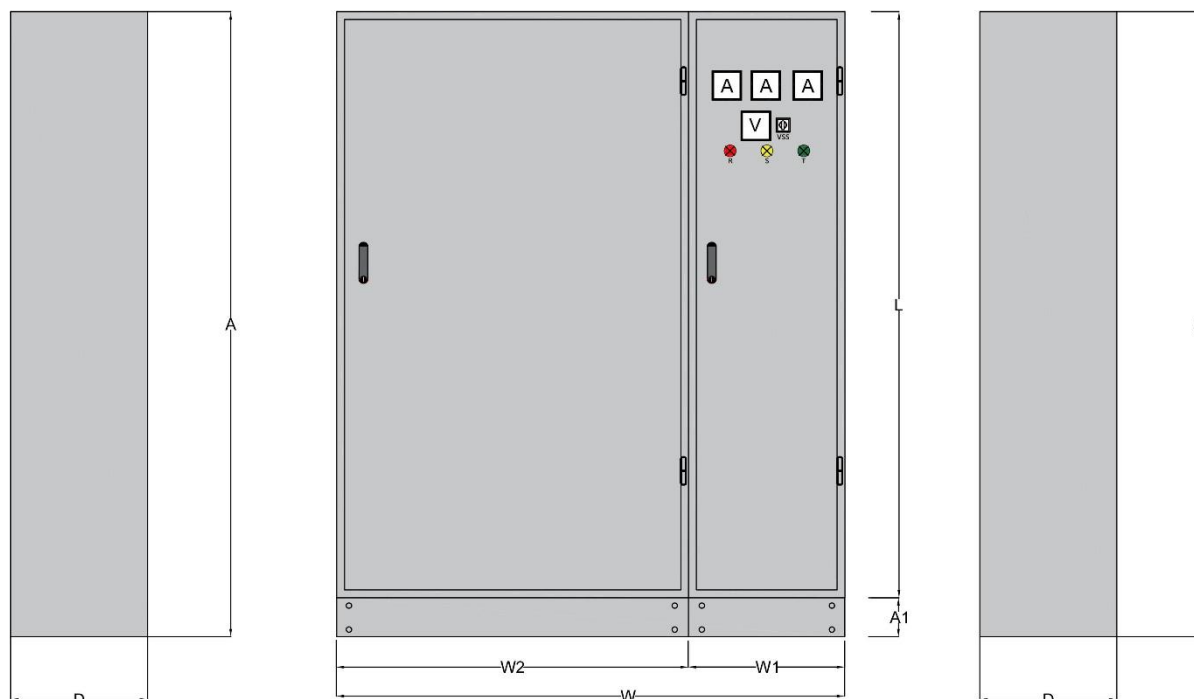
(***): Switch fuses is an option that it can be installed instead of CBs according to the company request.

3.1.4. Mounting dimensions:

1- Up to 300 KVA
 - (in view)

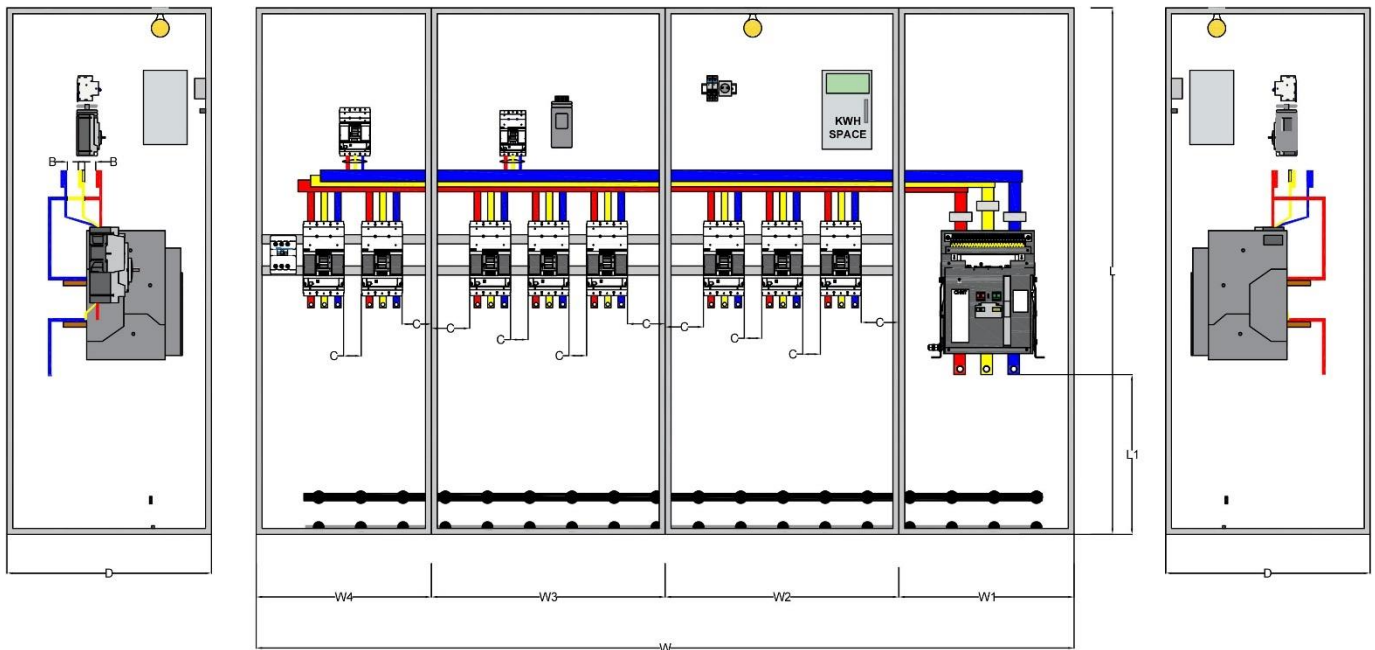


- (Out view)



2- From 500 to 2500 KVA

- (in view)



- (Out view)



Model	L	L1	W	W1	W2/Qty	W3	W4	D	A	A1	B	C
NMK-D/T006	1400	550	1100	400	700/1	-	-	350	1500	100	20	60
NMK-D/T010	1400	550	1100	400	700/1	-	-	350	1500	100	20	60
NMK-D/T016	1400	550	1100	400	700/1	-	-	350	1500	100	20	60
NMK-D/T020	1500	550	1100	400	700/1	-	-	350	1600	100	20	60
NMK-D/T030	1500	550	1300	400	900/1	-	-	350	1600	100	20	60
NMK-D/T050	1800	550	1700	600	600/1	-	500	600	1900	100	40	60
NMK-D/T080	1800	550	1900	600	800/1	-	500	600	1900	100	40	60
NMK-D/T100	1800	550	2300	600	800/1	-	900	600	1900	100	40	60
NMK-D/T150	1800	550	2700	700	700/2	-	600	700	1900	100	40	60
NMK-D/T200	1800	550	3700	800	900/2	500	600	800	1900	100	40	60
NMK-D/T250	1800	550	4600	1000	900/3	500	600	800	1900	100	40	60

- Notes:

- 1- All above dimensions are minimum according to EEHC specifications, for any manufacturing issue it can be changed with $\pm 5\%$ of material used and also it will affect dimensions.
- 2- All panels are measured with external lighting circuit, it cannot be existed and this will affect the panel width.
- 3- We recommend asking for shop drawing before order.
- 4- All above panels are standard according to EEHC specifications, for any special request it can be made regarding EEHC specifications with special shop drawing.

3.1.5. Ordering Codes:

Panel Type	Ordering Code N.....P
NMK-D/T006 -L	1100611
NMK-D/T010 -L	1101011
NMK-D/T016 -L	1101611
NMK-D/T020 -L	1102011
NMK-D/T030 -L	1103011
NMK-D/T050 -L	1105011
NMK-D/T080 -L	1108011
NMK-D/T100 -L	1110011
NMK-D/T150 -L	1115011
NMK-D/T200 -L	1120011
NMK-D/T250 -L	1125011
NMK-D/T006	1100610
NMK-D/T010	1101010
NMK-D/T016	1101610
NMK-D/T020	1102010
NMK-D/T030	1103010
NMK-D/T050	1105010
NMK-D/T080	1108010
NMK-D/T100	1110010
NMK-D/T150	1115010
NMK-D/T200	1120010
NMK-D/T250	1125010
NMK-D/T006 -S	1100620
NMK-D/T010 -S	1101020
NMK-D/T016 -S	1101620
NMK-D/T020 -S	1102020
NMK-D/T030 -S	1103020
NMK-D/T050 -S	1105020
NMK-D/T080 -S	1108020
NMK-D/T100 -S	1110020
NMK-D/T150 -S	1115020
NMK-D/T200 -S	1120020
NMK-D/T250 -S	1125020

3.2. NMK-D/P(X):

3.2.1. Description:

- Low voltage Distribution panels certified from EEHC.
- Rated voltage: 3-Phase, rated voltage 400V, 50Hz.
- Degree of protection: IP54.
- Enclosure material: Electrostatic painted sheet steel.
- Enclosure thickness: 2 mm.
- Rated current: Referring to specs.
- Internal components: Certified MCCBs from CHINT company or Certified fuses with Base according to EEHC specifications.

3.2.2. Design:

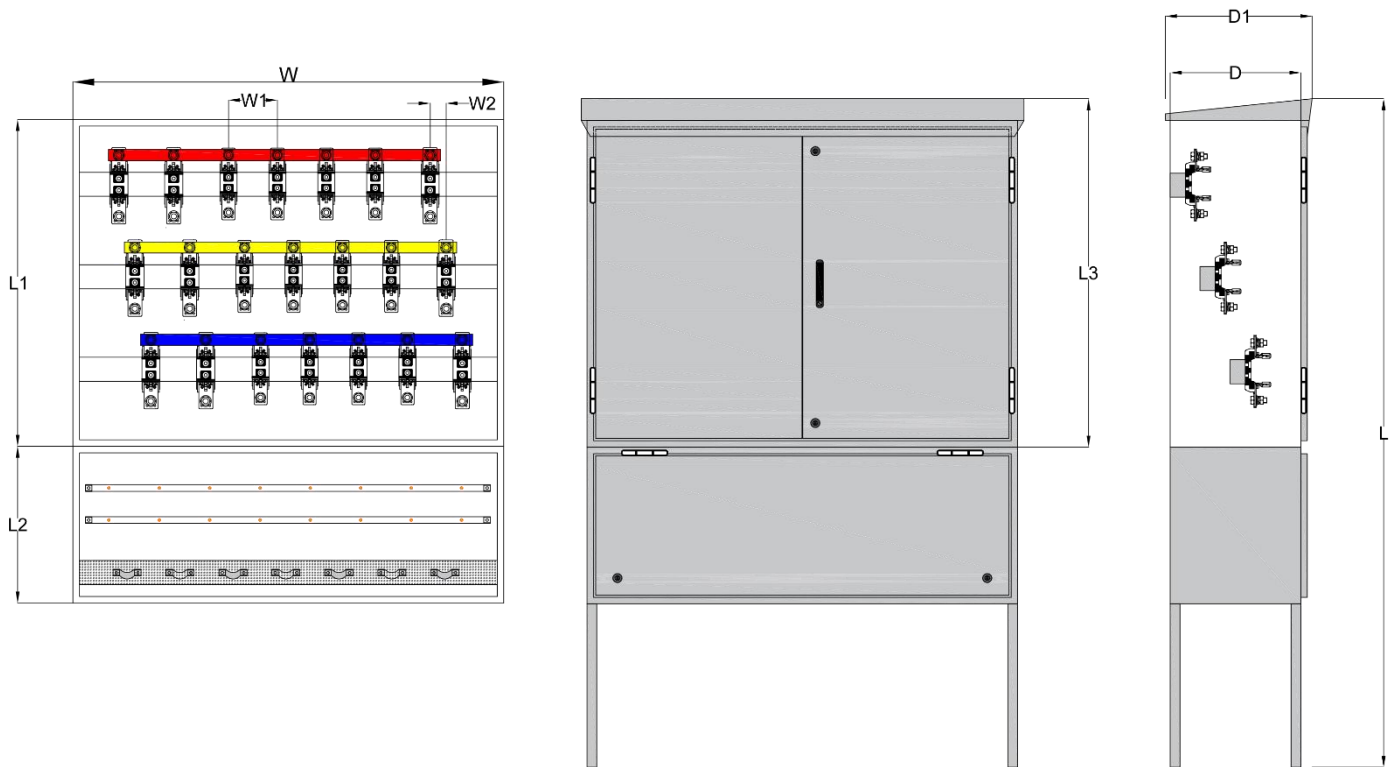
Universal enclosure used in designing these panels with adding some parts regarding EEHC specifications.

3.2.3. Technical Data:

Type	NMK-D/P200(X)	NMK-D/P300(X)
Standard	IEC 61439-1	
Rating (A)	250	400
No. of lines (3P)	6	7
Operating voltage (V)	380	
Degree of protection	IP54	
Mounting	Free standing	
Enclosure material	Cold rolled sheet steel	
Enclosure Painting	Electrostatic gray painting	
Thickness	2 mm	
Dimensions (L*W*D) cm	200*132*35	200*116*35

- Technical data of the panel could be changed according to project specifications, panel could be designed with CB instead of HRCF.
- It can be designed with copper or Aluminum busbar.

3.2.4. Mounting dimensions



Model	L	L1	L2	L3	W	W1	W2	D	D1
NMK-D/P200(X)	200	85	40	100	132	16	5.6	35	40
NMK-D/P300(X)	200	85	40	100	116	16	5.6	35	40

- Panel dimensions differs if it designed with CBs, Shop drawing should be confirmed before manufacturing.

3.2.5. Ordering Codes:

Panel Type	Ordering Code N.....P
NMK-D/P200	1220011
NMK-D/P300	1230011
NMK-D/P200X	1220012
NMK-D/P300X	1230012

- For ordering CB pillar, specifications and SLD should be attached.

3.3. NMK-D/C:

3.3.1. Description:

- Low voltage Distribution panels certified from EEHC.
- Rated voltage: 3-Phase, rated voltage 220/380V, 50Hz.
- Degree of protection: IP54.
- Enclosure material: Electrostatic painted sheet steel.
- Enclosure thickness: 2 mm.
- Rated current: 250 A.
- Internal components: Certified fuses with Base according to EEHC specifications.

3.3.2. Design:

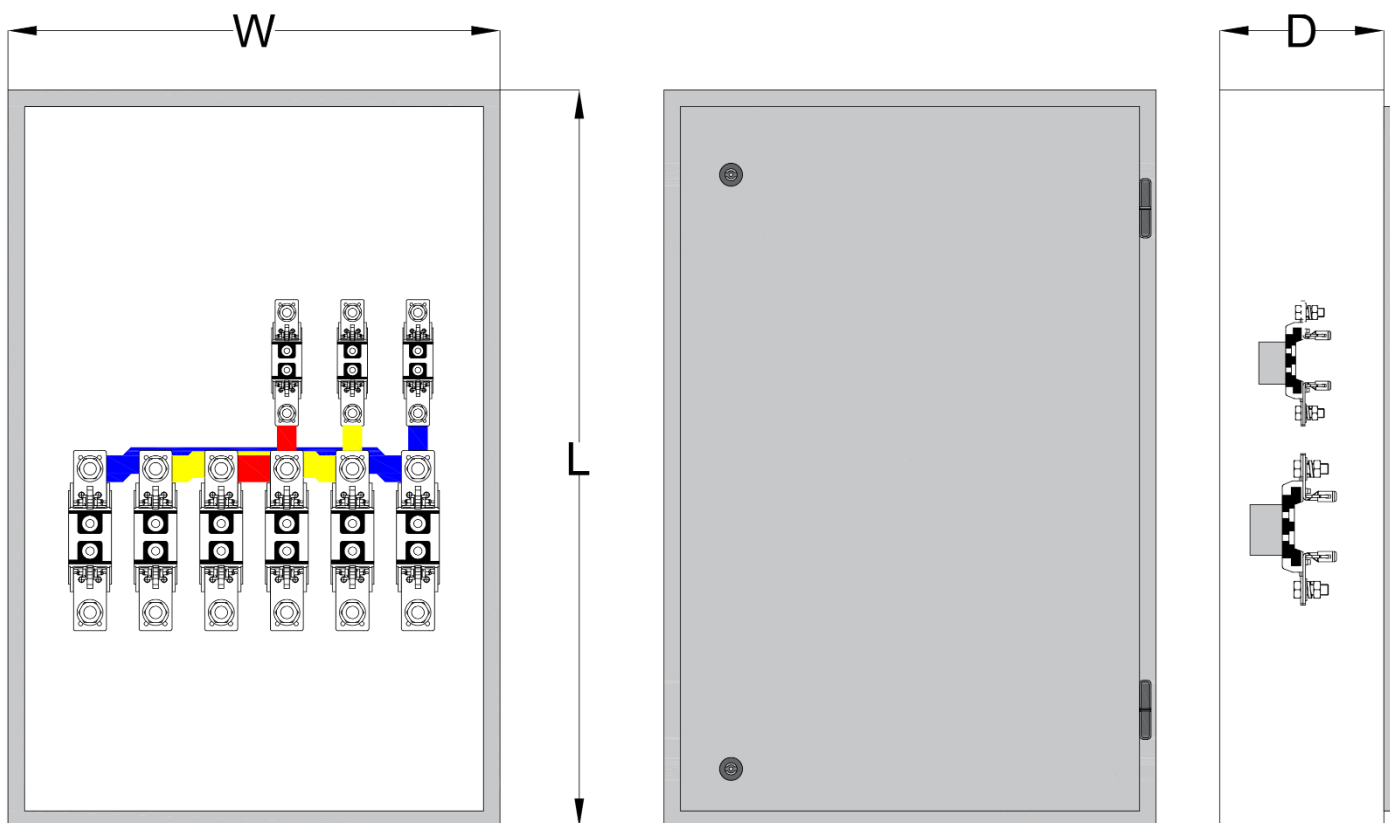
Universal enclosure used in designing these panels.

3.3.3. Technical Data:

Type	NMK-D/C250
Standard	IEC 60269
Rating (A)	250
Main busbar (mm^2)	200
Neutral busbar (mm^2)	120
Earth busbar (mm^2)	100
Operating voltage (V)	220/380V
Degree of protection	IP54
Mounting	Free standing
Enclosure material	Cold rolled sheet steel
Enclosure Painting	Electrostatic gray painting
Thickness	2 mm
Dimensions (L*W*D) cm	90*60*20

- These technical data quoted from EEHC specifications for distribution box 4460, any special order should have attached specification and SLD.

3.3.4. Mounting dimensions



Model	L	W	D
NMK-D/C250	90	60	20

3.3.5. Ordering Codes:

Panel Type	Ordering Code N.....P
NMK-D/C250	132501

- For ordering any special cofree, specifications and SLD should be attached.

3.4. NMK-D/Ex(X):

3.4.1. Description:

- Low voltage Distribution panels certified from EEHC.
- Rated voltage: 3-Phase, rated voltage 400V, 50Hz.
- Degree of protection: IP54.
- Enclosure material: Electrostatic painted sheet steel.
- Enclosure thickness: 1.5 mm or 2 mm.
- Rated current: Referring to specs.
- Internal components: Certified MCCBs from CHINT company.

3.4.2. Design:

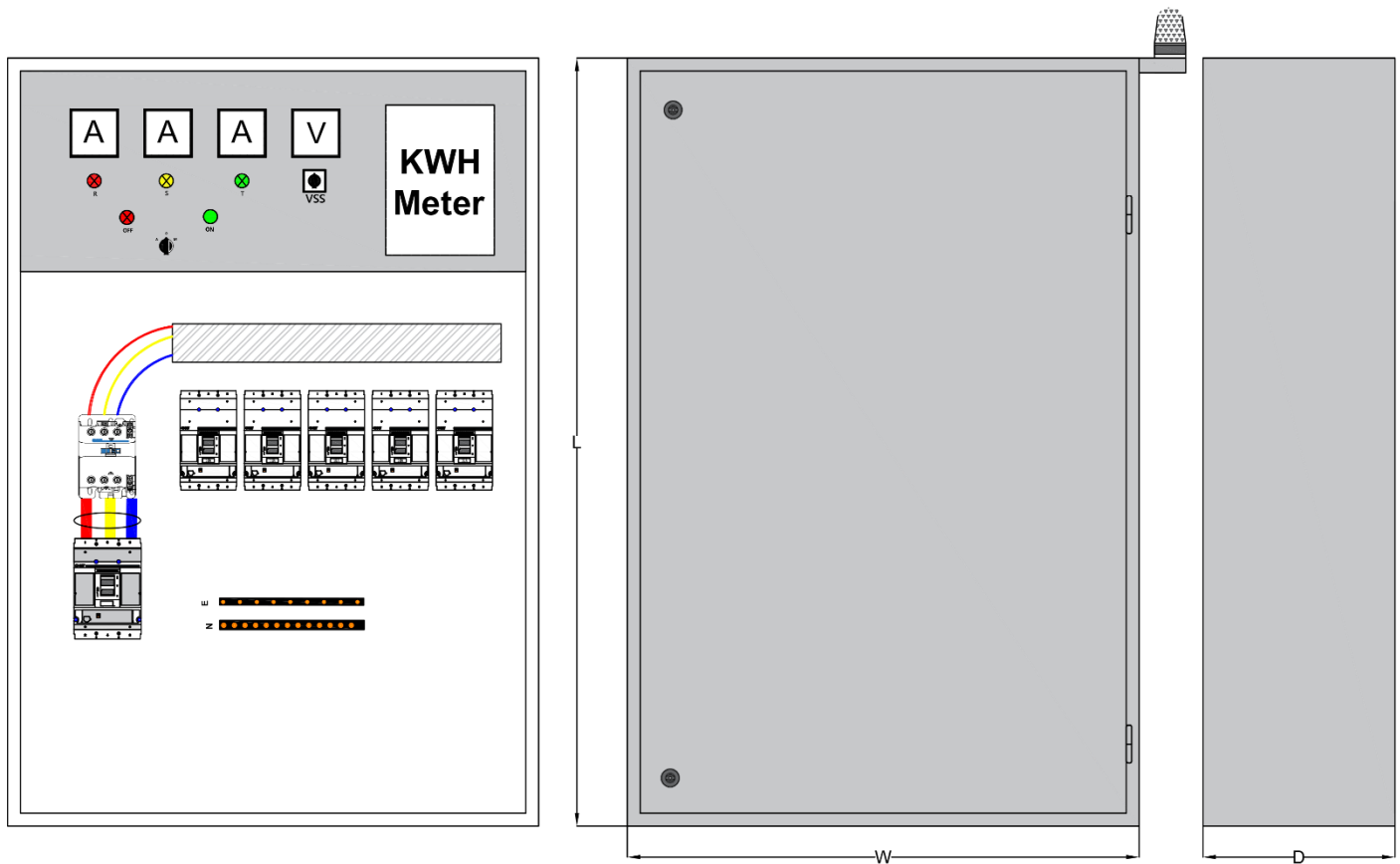
Universal enclosure used in designing these panels with adding some parts regarding specifications.

3.4.3. Technical Data:

Type	NMK-D/Ex100(X)	NMK-D/Ex160(X)
Standard	IEC 61439-1	
Rating (A)	100	160
No. of outgoing	5	5
Outgoings rating (A)	40	40
Operating voltage (V)	400	
KWH meter	√	
Photo cell	√	
24 H Timer	√	
Degree of protection	IP54	
Mounting	Wall mounted	
Enclosure material	Cold rolled sheet steel	
Enclosure Painting	Electrostatic gray painting	
Thickness	1.5 or 2 mm	

- Technical data of the panel could be changed according to project specifications, any special order should have attached specification and SLD.

3.4.4. Mounting dimensions



Model	L	W	D
NMK-D/Ex100	100	60	30
NMK-D/Ex160	100	60	30
NMK-D/Ex100X	120	80	30
NMK-D/Ex160X	120	80	30

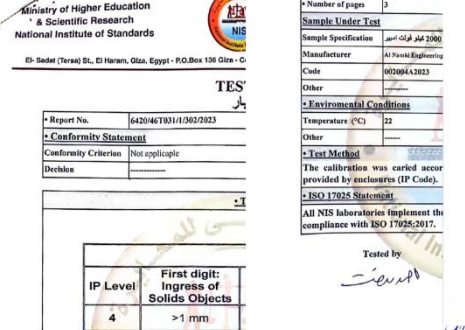
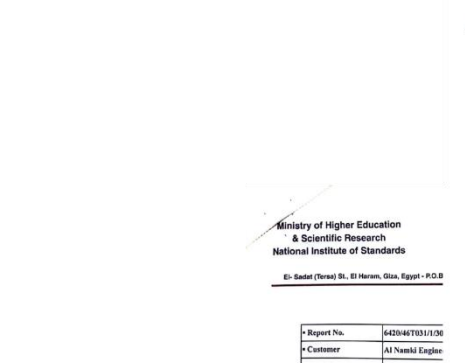
- Panel dimensions differs according to project specifications, Shop drawing should be confirmed before manufacturing.

3.4.5. Ordering Codes:

Panel Type	Ordering Code N.....P
NMK-D/Ex100	1410013
NMK-D/Ex160	1416013
NMK-D/Ex100X	1410023
NMK-D/Ex160X	1416023

- For ordering any special Panel, specifications and SLD should be attached.

NMK certificates



TEST REPORT
تقرير اختبار

Report No: 642046T031/1/302/2023

NIS Lab : Materials Testing and Surface Chemistry Analysis Lab
Issued For : Al Namki Engineering Consultancy & Trade
Contact Information of the Customer : 01146566762
Sample Specification : لوحة توزيع جهد منخفض لمحول قدرة 2000 كيلو فولت امبير
Manufacturer : Al Namki Engineering Consultancy & Trade
Code : 002004A2023
Date of Receipt : 6/6/2023
Date of Test : 20/6/2023
Issue Date : 21/6/2023

Approved by: Head of Laboratory, NIS President
Prof. Dr. Eman M. Osman, Dr. Noha E. Khaleel

IP Level 4

First digit: Ingress of Solids Objects > 1 mm

Second Digit: Liquids Splashing water

Tested by: [Signature]

Reviewed by: [Signature]



ISO certificates



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Dotted lines for drawing or notes.

Contact us:

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Tanta show room: Extension of Club Street - Agricultural Road - Alexandria Direction / Telephone: 01000924589

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