

/ 5389  
/ 4108



## Περιεχόμενα

1. ΓΕΝΙΚΑ .....	5
2. ΤΕΧΝΙΚΗ ΠΕΡΙΓΡΑΦΗ.....	6
3. ΤΕΧΝΙΚΗ ΠΡΟΔΙΑΓΡΑΦΗ ΥΛΙΚΩΝ .....	11
4. ΤΕΧΝΙΚΗ ΣΥΓΓΡΑΦΗ ΥΠΟΧΡΕΩΣΕΩΝ .....	34
5. ΕΓΚΑΤΑΣΤΑΣΗ ΣΥΣΤΗΜΑΤΟΣ ΠΥΡΟΠΡΟΣΤΑΣΙΑΣ.....	40
6. ΕΓΚΑΤΑΣΤΑΣΗ ΣΥΣΤΗΜΑΤΟΣ ΑΝΤΙΚΕΡΑΥΝΙΚΗΣ ΠΡΟΣΤΑΣΙΑΣ .....	41
7. ΤΕΧΝΙΚΗ ΣΥΓΓΡΑΦΗ ΥΠΟΧΡΕΩΣΕΩΝ .....	47
8. ΤΕΧΝΙΚΟΟΙΚΟΝΟΜΙΚΗ ΜΕΛΕΤΗ .....	49
9. ΑΝΑΛΥΣΗ ΦΟΡΤΙΩΝ ΠΙΝΑΚΩΝ ΦΩΤΙΣΜΟΥ - ΚΙΝΗΣΗΣ .....	53
10. ΣΗΜΑΤΑ ΔΙΕΘΝΩΝ ΠΡΟΤΥΠΩΝ ΓΙΑ ΗΛΕΚΤΡΟΛΟΓΙΚΑ ΥΛΙΚΑ .....	67
11. ΠΕΡΙΓΡΑΦΗ ΥΛΙΚΩΝ ΕΓΚΑΤΑΣΤΑΣΗΣ.....	68
12. ΚΑΤΑΜΕΤΡΗΣΗ ΥΛΙΚΩΝ.....	95
13. ΥΠΟΛΟΓΙΣΜΟΣ ΚΟΣΤΟΥΣ ΕΝΕ .....	103
14. ΑΠΟΔΟΧΕΣ ΤΕΧΝΙΤΗ ΚΑΙ ΒΟΗΘΟΥ:.....	111
15. ΒΑΣΙΚΑ ΤΥΠΟΠΟΙΗΜΕΝΑ ΣΥΜΒΟΛΑ ΚΑΤΑ ΙΕC 60617.....	112
16. ΣΧΕΔΙΑ ΜΕΛΕΤΗΣ.....	120
17. ΒΙΒΛΙΟΓΡΑΦΙΑ.....	121

μ / μ  
 150 5.000 μ .  
 μ μ .  
 μ μ :  
 μ - 220/380 V  
 μ 60 V  
 μ 42 V  
 μ  
 μ  
 μ & μ μ μ . 5 48  
 μ μ μ .

1.

μ , (μ ) μ

:

- 1.1 μ - 220/380 V
- 1.2 μ 60 V
- 1.3 μ 42 V
- 1.4
- 1.5 μ
- 1.6 μ













### 3.

#### 3.1 220/380 V, 50Hz

##### 3.1.1 - -

μ , μ , 42, 60 V A.C. μ : μ ,  
135 μ μ μ (NYA) μ VDE 0250, 0283, 0293 (DIN  
47702).

μ μ μ (NYM), μ  
135 μ μ /55, μ VDE, 0250,  
0283, 0293 (DIN 47705).

μ , μ μ (NYY) μ μ μ μ  
μ VDE 0271.

2. μ μ .59 /55 146

μ μ , μ μ μ μ .59 /55 μ 146  
4.

( ) μ μ μ , μ μ ,  
DIN 2440.

μ , μ μ NYY μ μ .

μ μ μ μ μ μ μ .

μ μ .13,5 mm ½" -

μ μ 2,5 mm<sup>2</sup>, μ μ 1,5 mm<sup>2</sup> .

μ μ 4mm<sup>2</sup> .

μ μ (3). μ μ

μ μ μ

μ μ μ μ , μ ,

μ μ μ .





















3.1.8.1.

70 .  
100 μ DIN 49360, 49515 VDE 0635, μ DIN 49510, 49511 49325 μ  
μ .  
43620 100 μ μ μ DIN  
VDE 0636.  
μ μ .

3.1.8.2.

μ μ μ VDE  
0636 DIN 43620 , 100 500VAC.  
μ , , μ μ μ  
μ μ μ .  
μ μ μ  
μ μ μ

3.1.8.3.

μ μ μ VDE 0641,  
μ μ μ 380V.  
μ μ μ μ (μ  
μ 3,5 5 μ ).  
300 380VAC.  
20.000  
μ μ μ μ μ  
μ μ μ μ μ  
μ μ μ μ

3.1.8.4.

( )

$\mu$   $\mu$  VDE 0632.  $\mu$   $\mu$   $\mu$   
 $\mu$   $\mu$   $\mu$   $\mu$   $\mu$   $\mu$   
 $\mu$   $\mu$   $\mu$   $\mu$   $\mu$   $\mu$   
 $\mu$   $\mu$   $\mu$   $\mu$   $\mu$   $\mu$   
 $\mu$   $\mu$   $\mu$   $\mu$   $\mu$   $\mu$

3.1.8.5.

$\mu$  100 PACCO, 500VAC,  
 15/25/40/63/100  $\mu$  380VAC 220V D.C  $\mu$   $\mu$   
 $\mu$  40.000.  
 $\mu$   $\mu$   $\mu$   $\mu$   $\mu$   $\mu$   
 $\mu$  100 ,  $\mu$  VDE 0660, 500V A.C.  $\mu$   
 $\mu$   $\mu$  - (2)  $\mu$   
 $\mu$  (  $\mu$  )  $\mu$   
 10.000  $\mu$   $\mu$   $\mu$  50  
 KA,  $\mu$   $\mu$   $\mu$

3.1.8.6.

$\mu$   $\mu$   $\mu$  ,  $\mu$   $\mu$   $\mu$   $\mu$   $\mu$   
 $\mu$   $\mu$   $\mu$   $\mu$   $\mu$   $\mu$   
 $\mu$   $\mu$   $\mu$   $\mu$   $\mu$   $\mu$   
 $\mu$   $\mu$   $\mu$   $\mu$   $\mu$   $\mu$

















### 3.3.

### 42V

1.1. 42V  
1.2.  $\mu$   
220/380V, 50 Hz.

#### 3.3.1. $\mu$ 42V

$\mu$   $\mu$  ,  $\mu$  .  $\mu$

### 3.4.

#### 3.4.1. -

$\mu$   $\mu$   $\mu\mu$  VDE 0890,  $\mu$   $\mu$  0,6 mm,  $\mu$  ,  $\mu$   
 $\mu\mu$   $\mu$   $\mu$   $\mu$  60 mm.  $\mu$   $\mu$   $\mu$  0,8 mm  
( )  $\mu\mu$   $\mu$   $\mu$   $\mu$   
, 3  $\mu$  .  
 $\mu$   $\mu\mu$   $\mu$   $\mu$   $\mu$  (  $\mu$   
 $\mu$   $\mu$  )  
 $\mu$   $\mu$   $\mu\mu$  ( $\mu$  )  
) 3 6 .  $\mu\mu$  ( $\mu$   
 $\mu$   $\mu$  .  
 $\mu\mu$  .



### 3.4.3.

μ  
μ

### 3.5.

#### 3.5.1.

3./5 cm. 40 3 mm, μ μ 60 cm μ μ

#### 3.5.2.

μ 3./5 cm μ μ μ UPAT  
μ 1/2"

#### 3.5.4

μ μ μ μ μ μ ( ) μ  
μ μ μ 50 mm<sup>2</sup> μ μ μ

#### 3.5.4.

μ μ μ μ μ μ 40 3mm μ  
μ μ μ μ















4.8.2.  $\mu$

$\mu$   $\mu$   $\mu$  ,  $\mu \mu$   $\mu$   $\mu$   
 $\mu$   $\mu$   $\mu$  , ,  $\mu$  .  $\mu$

4.8.3.  $\mu$

$\mu$   $\mu$  ,  
.

4.9.

.

$\mu$   $\mu$   $\mu$   $\mu$  ,  $\mu$  ,  
 $\mu$   $\mu$  .  $\mu$   $\mu \mu$   
.  
 $\mu$   $\mu$   $\mu$  .























8.

-

-





8.3.

- $\mu$   $\mu\mu$   $\mu$   $\mu$  :
- $\mu$   $\mu$   $\mu\mu$
- $\mu\mu$  (m)
- (kw)
- 
- Coscp
- 
- (V)
- $\mu$  (mm-)
- ( )
- 
- $\mu$   $\mu$   $\mu$  :  $\mu$   $\mu$  ,  $\mu$
- $\mu$   $\mu$   $\mu$  :
- 
- $\mu$  (kw)
- Coscp (KVxA)
- (KVxA)
- $\mu$
- 
- ( )  $\mu$   $\mu$
- :
- RS
- $\mu$   $\mu$  ( )
- $\mu$   $\mu$  ( )
- $\mu$   $\mu$  ( )
- (%)
- ( )
- $\mu$  ( )
- ( )
- $\mu$   $\mu$  . . ( )
- $\mu$   $\mu$  ( )
- ( )
- ( )
- (mm<sup>2</sup>)
- $\mu$

9.

-

μ μ		μμ (m)		( ) ( )	μμ (KW)	μμ			COS®		μ μμ	μ	
.		15	3x50/25	250	100/250	17.41	3	123	0.971	0.820	33.47	68.06	
.				125		13.91	3	123	1.000	0.125	0.820	24.05	35.26
	DIESEL			125	80 /100								

μ μ		μμ		( ) ( )	μμ	μμ		Cos®		μ μμ	μ		
.		3		125	80 /100	13.91	3	123	1	0.820	24.05	35.26	
.1	μ	10	5x10	63	35/63	13.91	3	123	1	0.624	0.820	23.00	35.26
.2				63	/ 63	0	3	123	1	0.000	0.820	35.26	
.3				40	125	0	3	123	1	0.000	0.820	11.48	
.4	μ	10	2x1.5	16	10/25	0.000	1	1					

μ μ		μμ		( ) ( )	μμ	μμ		Cos®		μ μμ	μ	
.				125	80 /100		3	123		0.820	18.29	68.06
.1		25		100	/100		3	123	1	0.000		
.2	μ	25	3x4	40	20/25		3	123	1	0.000		
.3	μ μ μ -	20	3x25 /16 + Cu16	63	50/63		3	123				
.4	μ μ -	10	3x4	25	20/25		1	1	1	1.377		
.5	μ	5	3x2.5	25	16/25	0	1	2				
.6				25	10/25	0	1	3	1	0.000		
.7				25	10/25	0	3	123	1	0.000		
.8	BY - PASS			25	10/25	0	3	123	1	0.000		
.9	μ	20		25	16/25	0	3	123	0.85	0.000		
.10		20		25	16/25	0	3	123	1	0.000		
.11				40	20/25	0	3	123	1	0.000		
.12				40	20/25	0	3	123	1	0.000		

220V

μ μ		μμ		- ( ) ( )	μμ	μμ		Cos®		μ μμ	μ	
.				63 + 63/30mA	35/63	13.91	3	123	1.000	0.820	23.00	35.26
.1	μ - WC - μ - μ	20	3x1.5		10	0.94	1	1	1	1.946		
.2	μ -	20	3x1,5		10	1.54	1	2	1	3.188		
.3	μ . μ -	20	3x1.5		10	0.78	1	3	1	1.615		
.4	μ μ	20	3x1.5	16 + Timer	10	0.4	1	1	1	0.866		
.5	μ -	25	3x2.5		16	1.75	1	2	1	2.841		
.6	μ . μ -	25	3x2.5		16	2	1	1	1	3.106		
.7	μ . μ	25	3x2.5		16	2	1	2	1	3.106		
.8	μ . μ	25	3x2.5		16	2	1	2	1	3.106		
.9	μ	25	3x4	25	20	3	1	3	1	2.911		
.10	μ 42V	10	3x2.5		16	0	1	1				
.11					10	0	1	2	1	0.000		
.12				25	16	0	1	3	1	0.000		
.13				25	20	0	1	3	1	0.000		

&

μ μ		μμ		- ( ) ( )	μμ	μμ		Cos®		μ μμ	μ
.			3x4	25	20/25		1	1			
.1	μ		3x2.5	25	16/25		1	1	1	0.000	
.2			3x2.5	25	10/25		1	1	1	0.000	

60V

μ μ		μμ		( ) ( )	μμ	μμ		Cos@		μ μ	μ
.				25	20/25	0.000	1	1		0.820	35.26
.1	μ	60V	2x2.5		10	0	1	1	0.9	0.000	
.2					10	0	1	1	1	0.000	
.3					10	0	1	1	1	0.000	
.4					10	0	1	1	1	0.000	
.5	μ	60V	2x2.5		16	0	1	1	1	0.000	

42V

μ μ		μμ		( ) ( )	μμ	μμ				μ μ	μ
.			2x10	25	16/25	0.000	1	1		0.820	20.50
.1	μ	42 V	2x2.5		16		1	1	1	0.000	
.2	μ	42V	2x2.5		16		1	1	1	0.000	
.3					16		1	1	1	0.000	
.4					16		1	1	1	0.000	
.5					16		1	1	1	0.000	

...

μ μ		μμ		( ) ( )	μμ	μμ				μ μ	μ
.				63	50/63	0.000	3	123			
				25	6/25		1	1			
.1	μ	μ	5x10	63	35/63		3	123	0.84	0.000	
.2	μ	μ	5x10	63	35/63		3	123	0.84	0.000	
.3	μ	μ	3x1.5		10		1	1	1	0.000	
.4	μ	μ	3x2.5		16		1	2	1	0.000	
.5					16		3	123	1	0.000	
.6	/	- MODEM	3x2.5	16	16		1	3	0.88	0.000	
.7	μ		5x2.5	25	16/25		3	123	1	0.000	
.8				63	/ 63		3	123	1	0.000	
.9				63	/ 63		3	123	1	0.000	

: . μ : . . . .

	μ	cos	μ	μ	
	31.32	0.98	31.84	1	31.84

μ R: 10.70 kVA S: 10.58 kVA : 10.56 kVA

μ μ :48.65

: 1.00

μ :48.24

μ μ μ :48.65

: %

:

μ :

μ :48.65

:

μ μ . . :83.00

:0.82

μ μ :68.06

:63

μ :50

:25.00 mm<sup>2</sup>

μ : IP

μ μ :



: . μ : . .

	μ	cos	μ	μ	
	13.91	1.00	13.91	1	13.91

μ R: 3.34 kVA S. 5.29 kVA : 5.28 kVA

μ μ :24.05

: 1.00

μ :21.08

μ μ μ :24.05

: %

:

μ :

μ :24.05

:

μ μ . . :33.00

:0.82

μ μ :27.06

:25

μ :25

:6.00 mm<sup>2</sup>

μ : IP

μ μ :

: . μ : . .

	μ	cos	μ	μ	
	17.41	0.97	17.93	1	17.93

μ R: 7.36 kVA S: 5.29 kVA : 5.28 kVA

μ μ :33.00

: 1.00

μ : 27.17

μ μ μ : 33.47

: %

:

:

μ

μ :33.47

:

μ μ . . :43.00

:0.82

μ μ :35.26

:40

μ

:35

:10.00 mm<sup>2</sup>

μ : IP

μ μ

:

: . μ : .

	μ	cos	μ	μ	
μ	3.66	1.00	3.66	1	3.66
μ	7.25	1.00	7.25	1	7.25
μ	3.00	1.00	3.00	1	3.00

μ R. 3.34 kVA S: 5.29 kVA : 5.28 kVA

μ μ :23.00

: 1.00

μ :20.16

μ μ μ :23.00

: %

:

:

μ :23.00

:

μ μ :33.00

:0.82

μ μ :27.06

:25

μ :25

:6.00 mm<sup>2</sup>

μ : IP

μ μ :





: . μ : / 42V

	μ	cos	μ	μ	(kVA)'

μ R: kVA S. kVA : kVA

μ μ :00.00

: 0.00

μ : 00.00

μ μ μ : 00.00

: %

:

μ :

μ : 00.00

:

μ μ . . :25.00

:0.82

μ μ :20.50

:25

μ :20

:4.00 mm<sup>2</sup>

μ : IP

μ μ :

: , μ : . /C . .

	μ	cos	μ	μ	(kVA)'

μ R: kVA S. kVA : kVA

μ μ :00.00

: 0.00

μ : 00.00

μ μ μ : 00.00

: %

:

μ :

μ : 00.00

:

μ μ . . :25.00

:0.82

μ μ :20.50

:25

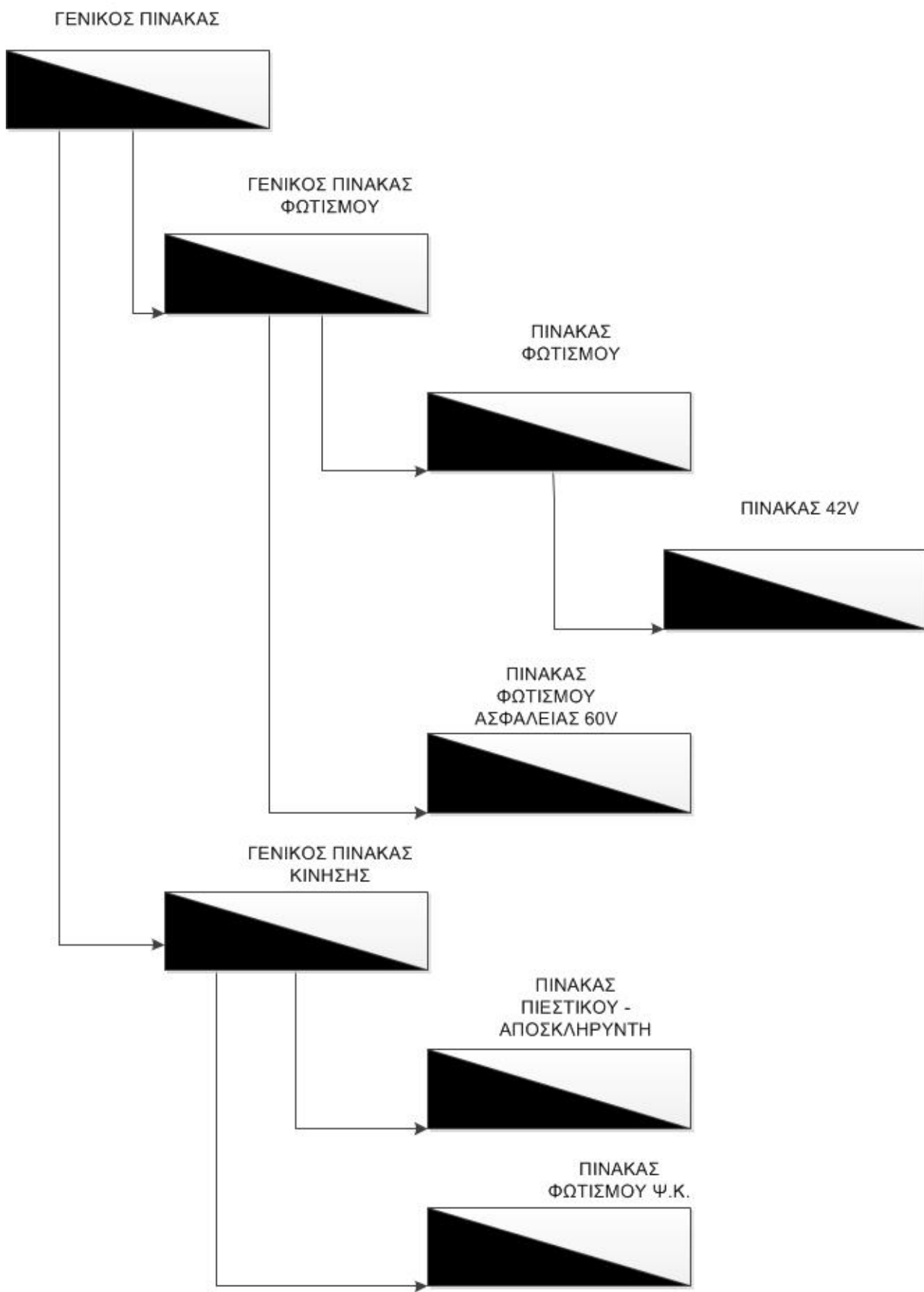
μ :20

:4.00 mm<sup>2</sup>

μ : IP

μ μ :

## ΓΕΝΙΚΟ ΔΙΑΓΡΑΜΜΑ ΗΛΕΚΤΡΙΚΩΝ ΠΙΝΑΚΩΝ





μ

μ	→ .1	2.547	V	1.107%
μ	→ .2	3.789	V	1.647%
μ	→ .3	2.216	V	0.964%
μ	→ .4	1.467	V	0.638%
μ	→ .5	3.442	V	1.497%
μ	→ .6	2.930	V	1.274%
μ	→ .7	3.707	V	1.612%
μ	→ .8	3.707	V	1.612%
μ	→ .9	3.512	V	1.527%
μ	→ .1	0.601	V	0.261%
μ	→ .2	0.601	V	0.261%
μ	→ .3	0.601	V	0.261%
μ	→ .4	0.601	V	0.261%
μ	→ .5	0.601	V	0.261%
μ	→ .11	0.601	V	0.261%
μ	→ .12	0.601	V	0.261%
μ	→ .13	0.601	V	0.261%
μ	→ .2	0.000	V	0.000%
μ	→ .3	0.000	V	0.000%
μ	→ .1	0.000	V	0.000%
μ	→ .2	0.000	V	0.000%
μ	→ .3	0.000	V	0.000%
μ	→ .4	0.000	V	0.000%
μ	→ .5	0.000	V	0.000%
μ	→ .1	0.000	V	0.000%
μ	→ .1	2.547	V	1.107%
μ	→ .2	3.789	V	1.647%
μ	→ .3	2.216	V	0.964%
μ	→ .4	1.467	V	0.638%
μ	→ .5	3.442	V	1.497%
μ	→ .6	2.930	V	1.274%
μ	→ .7	3.707	V	1.612%
μ	→ .8	3.707	V	1.612%
μ	→ .9	3.512	V	1.527%
μ	→ .1	0.601	V	0.261%
μ	→ .2	0.601	V	0.261%
μ	→ .3	0.601	V	0.261%
μ	→ .4	0.601	V	0.261%
μ	→ .5	0.601	V	0.261%
μ	→ .11	0.601	V	0.261%
μ	→ .12	0.601	V	0.261%
μ	→ .13	0.601	V	0.261%
μ	→ .2	0.000	V	0.000%
μ	→ .3	0.000	V	0.000%
μ	→ .1	0.000	V	0.000%
μ	→ .2	0.000	V	0.000%
μ	→ .3	0.000	V	0.000%
μ	→ .4	0.000	V	0.000%
μ	→ .5	0.000	V	0.000%
μ	→ .1	0.000	V	0.000%
μ	→ .2	0.000	V	0.000%
μ	→ .3	0.000	V	0.000%
μ	→ .4	0.000	V	0.000%
μ	→ .5	0.000	V	0.000%
μ	→ .1	0.000	V	0.000%
μ	→ .2	0.000	V	0.000%
μ	→ .3	0.000	V	0.000%
μ	→ .4	0.000	V	0.000%
μ	→ .5	0.000	V	0.000%
μ	→ .1	0.000	V	0.000%
μ	→ .2	0.000	V	0.000%
μ	→ .3	0.000	V	0.000%
μ	→ .4	0.000	V	0.000%
μ	→ .5	0.000	V	0.000%

μμ	→	.6	0.000	V	0.000%
μμ	→	.7	0.000	V	0.000%
μμ	→	.8	0.000	V	0.000%
μμ	→	.9	0.000	V	0.000%
μμ	→	.10	0.000	V	0.000%
μμ	→	.11	0.000	V	0.000%
μμ	→	.12	0.000	V	0.000%

μ                    μμ                    -> .2 : 3.789 V (1.647%)

10. μ



# 11.

$\mu$   $\mu$  PVC  
 563 - HD21.3.  
 H07V-U (NYA).  $\mu$  450/750V.  
 $\mu$   $\mu$  ,  $\mu$  , , , , .



	$\mu$ (mm <sup>2</sup> )	(A)
H07V-U	1 x 1,5	16
H07V-U	1 x 2,5	20
H07V-U	1 x 4	26
H07V-U	1 x 6	34
H07V-R	1 x 240	326

$\mu$   $\mu$   $\mu$  PVC  $\mu$   $\mu$   
 VDE 0250.201 A05VVH-3U (NYIFY).  
 $\mu$  230/400V.



	$\mu$ (mm <sup>2</sup> )	(A)
A05VVH-3U	2 x 1,5	20
A05VVH-3U	3 x 1,5	18
A05VVH-3U	3 x 2,5	24
A05VVH-3U	4 x 1,5	18

$\mu$     $\mu$     $\mu$    PVC  
 H05VV-U (NYM).   563 - HD21.3.  
                    $\mu$     $\mu$   
                   300/500V. H05VV-R (NYM).  
                    $\mu$                    300/500V.



	$\mu$ (mm <sup>2</sup> )	(A)
H05VV-U	2 x 1,5	20
H05VV-U	3 x 1,5	20
H05VV-U	3 x 2,5	27
H05VV-U	3 x 4	36
H05VV-U	3 x 6	47
H05VV-R	3 x 10	65
H05VV-R	3 x 10 + 1,5	65
H05VV-U	4 x 1,5	20
H05VV-U	4 x 2,5	27
H05VV-U	4 x 4	36
H05VV-U	4 x 6	47
H05VV-U	5 x 1,5	20
H05VV-U	5 x 2,5	27
H05VV-U	5 x 4	36
H05VV-U	5 x 6	47
H05VV-R	5 x 10	65
H05VV-R	5 x 10 + 1,5	65
H05VV-R	5 x 16	87
H05VV-R	5 x 16 + 1,5	87

843.

J1VV-U (NYY) (μ / μ 600/1.000 V. 600/1.000 V.  
 J1VV-R/S (NYY) ( μ ). μ )



	μ (mm <sup>2</sup> )	(A)
J1VV-R	1 x 16	100
J1VV-R	1 x 25	135
J1VV-R	1 x 35	170
J1VV-R	1 x 50	205
J1VV-R	1 x 70	260
J1VV-R	1 x 95	320
J1VV-R	1 x 120	375
J1VV-R	1 x 150	430
J1VV-R	1 x 185	490
J1VV-R	1 x 240	590
J1VV-R	1 x 300	680
J1VV-U	2 x 1,5	21
J1VV-U	2 x 2,5	29
J1VV-U	2 x 4	38
J1VV-U	2 x 6	48
J1VV-R	2 x 10	66
J1VV-R	2 x 16	90
J1VV-R	2 x 25	120
J1VV-U	3 x 1,5	18
J1VV-U	3 x 2,5	25
J1VV-U	3 x 4	34
J1VV-U	3 x 6	44
J1VV-R	3 x 10	60
J1VV-R	3 x 10 + 1,5	60
J1VV-R	3 x 16	80
J1VV-R	3 x 16 + 1,5	80
J1VV-R	3 x 25	

( ) .

J1VV-U (NYY) (μ ) / μ μ 600/1.000 V. 600/1.000 V.  
 J1VV-R/S (NYY) ( μ ) . μ



	μ (mm <sup>2</sup> )	(A)
J1VV-S	3 x 50	160
J1VV-S	3 x 70	200
J1VV-S	3 x 95	245
J1VV-S	3 x 120	285
J1VV-S	3 x 150	325
J1VV-S	3 x 185	370
J1VV-S	3 x 240	435
J1VV-R	3 x 25 + 16	105
J1VV-S	3 x 35 + 16	130
J1VV-S	3 x 50 + 25	160
J1VV-S	3 x 70 + 35	200
J1VV-S	3 x 95 + 50	245
J1VV-S	3 x 120 + 70	285
J1VV-S	3 x 150 + 70	325
J1VV-S	3 x 185 + 95	370
J1VV-S	3 x 240 + 120	435
J1VV-U	4 x 1,5	18
J1VV-U	4 x 2,5	25
J1VV-U	4 x 4	34
J1VV-U	4 x 6	44
J1VV-R	4 x 10	60
J1VV-R	4 x 16	80
J1VV-R	4 x 25	105
J1VV-R	4 x 25 + 16	105
J1VV-S	4 x 35	130
J1VV-S	4 x 50	160
J1VV-S	4 x 70	200

843.

J1VV-U (NYY) (μ / μ ) 600/1.000 V. 600/1.000 V.  
 J1VV-R/S (NYY) ( μ ) μ



	μ (mm <sup>2</sup> )	(A)
J1VV-S	4 x 95	245
J1VV-S	4 x 120	285
J1VV-S	4 x 150	325
J1VV-U	5 x 1,5	18
J1VV-U	5 x 2,5	25
J1VV-U	5 x 4	34
J1VV-U	5 x 6	44
J1VV-R	5 x 10	60
J1VV-R	5 x 10 + 1,5	60
J1VV-R	5 x 16	80
J1VV-R	5 x 16 + 1,5	80
J1VV-R	5 x 25	105
J1VV-R	5 x 25 + 2,5	105
J1VV-R	5 x 35	



μ  
623.4, HD22.4.

H07RN-F (NYFAZ). μ 450/750 V.



	μ (mm <sup>2</sup> )	(A)
H07RN-F	2 x 1,5	18
H07RN-F	2 x 2,5	26
H07RN-F	3 x 1,5	18
H07RN-F	3 x 2,5	26
H07RN-F	3 x 4	34
H07RN-F	3 x 6	44
H07RN-F	4 x 1,5	18
H07RN-F	4 x 2,5	26
H07RN-F	4 x 4	34
H07RN-F	4 x 6	44
H07RN-F	4 x 10	61
H07RN-F	5 x 1,5	18
H07RN-F	5 x 2,5	26
H07RN-F	5 x 4	34
H07RN-F	5 x 6	44
H07RN-F	5 x 10	61

μ  
 μ >320N.  
 μ -5°C / +60°C. μ  
 (RAL7035).  
 61386-22, I



μ μ IEC/EN 0423, IEC 60614-2-3

	μ. (mm)	(m)
FX16	16	50
FX20	20	50
FX25	25	50
FX32	32	50
FX40	40	50
FX50	50	50
FX63	63	50

μ  
 25°C / +60°C. μ  
 μ >750N. μ  
 μ (RAL7037).  
 μ IEC/EN 61386-22, IEC 60423, IEC 60614-2-3



	μ. (mm)	(m)
⊗	16	50
FXP - Turbo® 20	20	50
FXP - Turbo® 25	25	50
FXP - Turbo® 32	32	50
FXP - Turbo® 40	40	50
FXP - Turbo® 50	50	50
FXP - Turbo® 63	63	50



μ -5°C  
 / +60°C. μ  
 μ (RAL9005).  
 μ μ

IEC/EN 60670



	. (mm)	( μ )
AKU80	75 x 75 x 50	-
AKU100	100 x 100 x 50	-
AKU150	150 x 150 x 70	50
AKU200	200 x 200 x 80	20

μμ AKU μ μ . μ .



	. (mm)	( μ )
AK/TD80	75 x 75	-
AK/TD100	100 x 100	-
AK/TD150	150x150	-
AK/TD200	200 x 200	80



\_\_\_\_\_

RKS - Magic®

60

mm.

μ 7 x 20 mm 20 dB μ , 50 dB μ μ .



	μ (mm)	(m)
RKSM610FS	100 x 60 x 0,75	3,05
RKSM615FS	150 x 60 x 0,75	3,05
RKSM620FS	200 x 60 x 0,75	3,05
RKSM630FS	300 x 60 x 0,9	3,05
RKSM640FS	400 x 60 x 0,9	3,05
RKSM650FS	500 x 60 x 0,75	3,05
RKSM660FS	600 x 60 x 0,75	3,05

SKS

60 mm.

μ 7 x 32 mm 20 dB μ , 50 dB μ μ .  
RV60 μ .

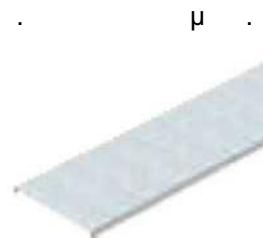


	μ (mm)	(m)
SKS610FS	100 x 60 x 1,50	3,05
SKS615FS	150 x 60 x 1,50	3,05
SKS620FS	200 x 60 x 1,50	3,05
SKS630FS	300 x 60 x 1,50	3,05
SKS640FS	400 x 60 x 1,50	3,05
SKS650FS	500 x 60 x 1,50	3,05
SKS660FS	600 x 60 x 1,50	3,05

$\mu$  7 x 32 mm  $\mu$  .  $\mu$  . SKS 20 dB  $\mu$  . , 50 dB  $\mu$  . 60 mm.  $\mu$  .  $\mu$  . RV60  $\mu$  .  $\mu$  .



	$\mu$ (mm)	(m)
SKS610FT	100 x 60 x 1,50	3,05
SKS615FT	150 x 60 x 1,50	3,05
SKS620FT	200 x 60 x 1,50	3,05
SKS630FT	300 x 60 x 1,50	3,05
SKS640FS	400 x 60 x 1,50	3,05
SKS650FS	500 x 60 x 1,50	3,05
SKS660FS	600 x 60 x 1,50	3,05



	$\mu$ (mm)	(m)
DRLU100FS	100 x 0,75	3,00
DRLU150FS	150 x 0,75	3,00
DRLU200FS	200 x 1,00	3,00
DRLU300FS	300 x 1,00	3,00
DRLU400FS	400 x 1,00	3,00
DRLU500FS	500 x 1,25	3,00
DRLU600FS	600 x 1,25	3,00





\_\_\_\_\_ μ \_\_\_\_\_



	. (mm)	. mm	17,5
20002	450 x 575 x 147	48 (2 )	
20003	600 x 575 x 147	72 (3 )	
20004	750 x 575 x 147	96 (4 )	
20005	900 x 575 x 147	120 (5 )	
20006	1.050 x 575 x 147	144 (6 )	

225 mm.

IP55 (

μ )- IK08.

(μ

).

Δέχονται μηχανισμούς ισχύος ως 630A.



	. (mm)	(mm)
20451	1.095 x 700 x 225	1.000
20452	1.295 x 700 x 225	1.200
20453	1.595 x 700 x 225	1.400
20454	1.995 x 700 x 225	1.800

μ

.

	. (mm)	μ (mm)	-
21271	1.095		48
21272	1.295		48
21273	1.595		48
21274	1.995		48

μ

μ

μ

.

	. (mm)	μ (mm)	-
21281	1.095		48
21282	1.295		48
21283	1.595		48
21284	1.995		48

μ

μ B ( μ 10KA. μ ) C ( μ ).  
 63 50mm<sup>2</sup> μ 63A 25mm<sup>2</sup> μ



230/400V~

μ B / μ C	μ ( )	. mm
06152/06368	1	17,5
06153/06369	2	1
06155/06371	4	1
06156/06372	6	1
06158/06374	10	1
06160/06376	16	1
06161/06377	20	1
06162/06378	25	1
06163/06379	32	1
06164/06380	40	1
06165/06381	50	1
06166/06382	63	1
-/06383	80	1

+ 230/400V~

μ B / μ C	μ	. μ 7,5 mm
06189/06403	1	1
06195/06404	2	1
06197/06406	4	1
06198/06407	6	1
06200/06409	10	1
06202/06412	16	1
06203/06413	20	1
06204/06414	25	1
06206/06416	32	1

400V

	, μ B/ μ C	μ	. 17,5 mm
06277/06480		1	3
06278/06481		2	3
06280/06483		4	3
06281/06484		6	3
06283/06486		10	3
06285/06488		16	3
06286/06489		20	3
06287/06490		25	3
06288/06491		32	3
06289/06492		40	3
06290/06493		50	3
06291/06494		63	3
-/06495		80	4,5
-/06496		100	4,5
-/06497		125	4,5

---

10 x 38 (I<sub>cc</sub>=20KA)

		. 17,5 mm
05814		1
05824	+ N	1
05834		3

10 x 38 (I<sub>cc</sub>=100KA)

		. 17,5 mm
05808		1
05838		3
05848	+	4

14 x 51 ( $I_{cc}=100KA$ )

		.	17,5
		mm	
21501			1,5
504			4,5
21505	+		6

22 x 58 ( $I_{cc}=100KA$ )

		.	17,5
		mm	
21601			2
21604			6
21605	+		8



	$\mu$ ( )	$\mu$	$\cdot$ mm	17,5
04302	20			1
04305	32			1
04307	40			1
04310	63			1
04314	100			1

	$\mu$ ( )	$\mu$	$\cdot$ mm	17,5
04322	20			1
04325	32			1
04327	40			2
04330	63			2

	$\mu$ ( )	$\mu$	$\cdot$ mm	17,5
04342	20			2
04345	32			2

	$\mu$	$\mu$ ( )	17,5 mm
04347		40	3
04350		63	3
04354	100		3



04  
3  
74

	$\mu$	$\mu$ ( )	mm 17,5
04367		40	4
04370		63	4
04374		100	4

04306	32
04326	32
04328	40

3 (I - O - II)

04386	20
604020	40
604022	40



6040 78



044 88

04483	μμ
04484	μμ
04485	μμ
04486	μμ
04488	μ μμ

03143	3 250V~/500V~

04436	230V~ μ E10 1,2W 04483/84/85/88





®

<b>24V~</b>		
	$\mu$ ( )	
04114	16	1 +1
04116	25	2
04117	25	4
04094	40	2
04073	63	2
04074	63	4

<b>230V~</b>		
	$\mu$ ( )	
04126	16	1 +1
04128	25	2
04129	25	2
04131	25	4A
04132	25	4K
04133	25	2A+2K
04068	40	2A
04070	40	4A
04075	63	2A
04076	63	2K
04078	63	4A
04079	63	4K



7738 01

μ μ



7738 05

10	
773801	
773806	-
773807	-
773805	μμ
773808	-

773811	
773812	12V~
773813	230V~

773817	μ 300W
773820	2 +
773822	2 + μ
773878	TV
773879	TV μ
773880	TV
773838	RJ11 1

**IP55**



697 22



697 33

Παράδονται συναρμολογημένοι

10	
69711	-
69751	-
69713	-
69753	-
69715	-
69755	-

69722	
69762	

69733	2 + μ
69771	2 + μ
69740	μ 2000W, 1000VA μ
69780	μ

**IP55**



μ μ

10	
69812	-
69852	-
69817	-
69856	-

69822	
69862	
69825	μ μ 12V. .
69865	μ μ 12V. .

69834	2 + μ . μ
69868	2 + μ . μ

μ



4050300910437		2	μ	8 58W.
	.		1,53m.	
4050300910451		1	μ	8 58W.
	.		1,53m.	
4050300910475		2	μ	8 58W.
	.		3,06m.	
4050300909455		1	μ	8 58W.
	.		3,06m.	

Βιομηχανικό φωτιστικό Osram RFI E.



4050300385242		2	μ	8 36W.
	μ	.	1,53m.	
4050300385235		2	μ	8 58W.
	μ	.	1,53m.	
4050300096520		2	μ	8 36W.
	.		1,53m.	
4050300096384		2	μ	8 58W.
	.		1,53m.	

μ



4050300909103	μ 4 μ μ L18 /840 4000K (T8), G13, 230 V, μ μ μ μ μ 18W, μ μ μ μ .	4 x
4050300909110	μ 4 μ μ L18 /830 3000K (T8), G13, 230 V, μ μ μ μ μ 18W, μ μ μ μ .	4 x
4050300909103	μ 4 μ μ L18 /840 4000K (T8), G13, 230 V, μ μ μ μ μ 18W, μ μ μ μ .	4 x
4050300909110	μ 4 μ μ L18 /830 3000K (T8), G13, 230 V, μ μ μ μ μ 18W, μ μ μ μ .	4 x

## 12.

μ                      μ                      μ                      + 15%.

	/	.		
3 x 50 mm <sup>2</sup> + 25 mm <sup>2</sup>	μ	17,25	J1VV-R	.
5 x 10 mm <sup>2</sup>	μ	6,90	J1VV-R	1
NYM 2 x 1,5 mm <sup>2</sup>	μ	6,90	A05VV-U	4
NYA 1 x 4 mm <sup>2</sup>	μ	6,90	H07V-U	.2
NYA 1 x 4 mm <sup>2</sup>	μ	6,90	H07V-U	.2
NYA 1 x 4 mm <sup>2</sup> -	μ	6,90	H07V-U	.2
3 x 25 mm <sup>2</sup> + 16 mm <sup>2</sup>	μ	20,70	J1VV-R	.3
3 x 4 mm <sup>2</sup>	μ	6,90	J1VV-R	.4
NYM 3 x 2,5 mm <sup>2</sup>	μ	6,90	H05VV-U	.5
NYA 1 x 1,5 mm <sup>2</sup>	μ	23,00	H07V-U	.1
NYA 1 x 1,5 mm <sup>2</sup>	μ	23,00	H07V-U	.1
NYA 1 x 1,5 mm <sup>2</sup> -	μ	23,00	H07V-U	.1
NYA 1 x 1,5 mm <sup>2</sup>	μ	34,50	H07V-U	.2
NYA 1 x 1,5 mm <sup>2</sup>	μ	34,50	H07V-U	.2
NYA 1 x 1,5 mm <sup>2</sup> -	μ	34,50	H07V-U	.2
NYA 1 x 1,5 mm <sup>2</sup>	μ	20,70	H07V-U	.3
NYA 1 x 1,5 mm <sup>2</sup>	μ	20,70	H07V-U	.3

NYA 1 x 1,5 mm <sup>2</sup>	-	μ	20,70	H07V-U	.3
NYA 1 x 1,5 mm <sup>2</sup>		μ	57,50	H07V-U	.4
NYA 1 x 1,5 mm <sup>2</sup>		μ	57,50	H07V-U	.4
NYA 1 x 1,5 mm <sup>2</sup>	-	μ	57,50	H07V-U	.4
NYA 1 x 2,5 mm <sup>2</sup>		μ	51,75	H07V-U	.5
NYA 1 x 2,5 mm <sup>2</sup>		μ	51,75	H07V-U	.5
NYA 1 x 2,5 mm <sup>2</sup>	-	μ	51,75	H07V-U	.5
NYA 1 x 2,5 mm <sup>2</sup>		μ	40,25	H07V-U	.6
NYA 1 x 2,5 mm <sup>2</sup>		μ	40,25	H07V-U	.6
NYA 1 x 2,5 mm <sup>2</sup>	-	μ	40,25	H07V-U	.6
NYA 1 x 2,5 mm <sup>2</sup>		μ	13,80	H07V-U	.7
NYA 1 x 2,5 mm <sup>2</sup>		μ	13,80	H07V-U	.7
NYA 1 x 2,5 mm <sup>2</sup>	-	μ	13,80	H07V-U	.7
NYA 1 x 2,5 mm <sup>2</sup>		μ	13,80	H07V-U	.8
NYA 1 x 2,5 mm <sup>2</sup>		μ	13,80	H07V-U	.8
NYA 1 x 2,5 mm <sup>2</sup>	-	μ	13,80	H07V-U	.8
NYA 1 x 4 mm <sup>2</sup>		μ	9,20	H07V-U	.9
NYA 1 x 4 mm <sup>2</sup>		μ	9,20	H07V-U	.9
NYA 1 x 4 mm <sup>2</sup>	-	μ	9,20	H07V-U	.9



NYM 3 x 2,5 mm <sup>2</sup>	μ	6,90	H05VV-U	B.10
NYM 3 x 2,5 mm <sup>2</sup>	μ	8,05	H05VV-U	.1
NYM 3 x 2,5 mm <sup>2</sup>	μ	8,05	H05VV-U	.2
NYA 1 x 2,5 mm <sup>2</sup>	μ	28,75	H07V-U	.1
NYA 1 x 2,5 mm <sup>2</sup>	μ	28,75	H07V-U	.1
NYA 1 x 2,5 mm <sup>2</sup>	μ	32,20	H07V-U	.5
NYA 1 x 2,5 mm <sup>2</sup>	μ	32,20	H07V-U	.5
NYY 3 x 10 mm <sup>2</sup>	μ	1,15	H05VV-U	E. .
		0,00		
NYA 1 x 2,5 mm <sup>2</sup>	μ	20,70	H07V-U	E.1
NYA 1 x 2,5 mm <sup>2</sup>	μ	20,70	H07V-U	E.1
NYA 1 x 2,5 mm <sup>2</sup>	μ	28,75	H07V-U	E.2
NYA 1 x 2,5 mm <sup>2</sup>	μ	28,75	H07V-U	E.2
5 x 10 mm <sup>2</sup>	μ	13,80	J1VV-R	.1
5 x 10 mm <sup>2</sup>	μ	14,95	J1VV-R	.2
NYA 1 x 1,5 mm <sup>2</sup>	μ	13,80	H07V-U	.3
NYA 1 x 1,5 mm <sup>2</sup>	μ	13,80	H07V-U	.3
NYA 1 x 1,5 mm <sup>2</sup> -	μ	13,80	H07V-U	.3

NYA 1 x 2,5 mm <sup>2</sup>	μ	18,40	H07V-U	.4
NYA 1 x 2,5 mm <sup>2</sup>	μ	18,40	H07V-U	.4
NYA 1 x 2,5 mm <sup>2</sup> -	μ	18,40	H07V-U	.4
NYA 1 x 2,5 mm <sup>2</sup>	μ	13,80	H07V-U	.6
NYA 1 x 2,5 mm <sup>2</sup>	μ	13,80	H07V-U	.6
NYA 1 x 2,5 mm <sup>2</sup> -	μ	13,80	H07V-U	.6
NYA 1 x 2,5 mm <sup>2</sup>	μ	11,50	H07V-U	.7
NYA 1 x 2,5 mm <sup>2</sup>	μ	11,50	H07V-U	.7
NYA 1 x 2,5 mm <sup>2</sup>	μ	11,50	H07V-U	.7
NYA 1 x 2,5 mm <sup>2</sup>	μ	11,50	H07V-U	.7
NYA 1 x 2,5 mm <sup>2</sup> -	μ	11,50	H07V-U	.7

	/	.
.13,5	μ	60,00
.16	μ	20,00
.23	μ	5,00
. .13,5	μ	20,00
. .21	μ	5,00
20 DOMO 750N	μ	60,00
25 DOMO 750N	μ	20,00
. 13,5	μ	0,67
. 16	μ	0,69
20 DOMO B/T	μ	0,20
. . 25 /	μ	0,25
. 70mm	μ	113,00
100mm X 50mm X 0,8 mm	μ	35,00
150mm X 35mm X 0,8 mm	μ	35,00
NTIZA 8 2μ	μ	20,00
6 13/16	μ	200,00
60mm	μ	30,00
8	μ	30,00
180 .	μ	30,00
2,5 mm <sup>2</sup> 24	μ	5,00
6 mm <sup>2</sup> 41	μ	1,00
1,5 - 2,5 mm <sup>2</sup>	μ	100,00
4 mm <sup>2</sup>	μ	100,00
ELITE	μ	9,00
ELITE	μ	4,00
-	μ	42,00
SHUKO ELITE	μ	15,00
RG11 ELITE	μ	5,00
50"	μ	1,00

SHUKO 42V	μ	7,00
SHUKO 60V	μ	2,00
40W/60V ( )	μ	6,00
ELEC/BALL / 2X36W SLM	μ	27,00
36W/840-860	μ	54,00
( . . )	μ	4,00
60W	μ	4,00
GLS HALO A/CL 70W/E27 230V	μ	12,00
AL-236S OBA	μ	4,00
. . . .	μ	6,00
GLS HALO A/CL 70W/E27 230V	μ	6,00
	μ	3,00
200W	μ	3,00
Hager LED X .KOK SVN127	μ	5,00
LED X .KOK	μ	8,00
0- 400 μ μ μ /	μ	3,00
μ SM002 4	μ	3,00
0-500V 7	μ	3,00
SR400	μ	3,00
μ μ 7	μ	1,00
μ μ μ o 4	μ	1,00
3 / 10	μ	10,00
3 / 16	μ	14,00
3 / 20	μ	2,00
3 / 16	μ	1,00
. . . 63 . C	μ	51,00
. . 63 .EHC 1056	μ	51,00
63 .EHC	μ	51,00
. 6 . C	μ	1,00
. 10 . C	μ	5,00
. 16 . C	μ	16,00
. 20 . C	μ	12,00
. 25 . C	μ	4,00
. 35 . C	μ	12,00
. 50 . C	μ	6,00

.	-	.6	.	C	μ	1,00	
.	-	.10	.	C	μ	5,00	
.	-	.16	.	C	μ	16,00	
.	-	.20	.	C	μ	12,00	
.	-	.25	.	C	μ	4,00	
.	-	.35	.	C	μ	12,00	
.	-	.50	.	C	μ	6,00	
.		. KIB 100	R1/4	.	C	μ	36,00
		100	1/4	.	EHC	μ	36,00
		2			μ	19,00	
		6			μ	1,00	
		10			μ	4,00	
		16			μ	16,00	
		20			μ	12,00	
		25			μ	1,00	
		35			μ	12,00	
		50			μ	6,00	
		80			μ	12,00	
		100			μ	6,00	
				1 x 25	μ	5,00	
				2 x 25	μ	18,00	
			I	3 x 25	μ	8,00	
				3 x 40	μ	4,00	
				3 x 63	μ	17,00	
				3 x 100A	μ	10,00	
CDC763H			3	.	.3	μ	1,00
x 63 /30mA							
				3 x 125	μ	3,00	
			1-0-2	.	3 x 125	μ	2,00
				3 x 250	μ	2,00	
				220/42V 1000VA	μ	1,00	
				220/60V 1000VA	μ	1,00	
				/	μ	2,00	
				1250 910 230	μ	1,00	
					μ	1,00	
.		60V			μ	1,00	
75		57X17					
				60V	μ	1,00	
			60	4	μ	1,00	



### 13.

		/	· €	·	%	· μ €
H07V-U	NYA 1 x 1,5 mm <sup>2</sup> -	μ	0,26	149,5	23%	38,88
H07V-U	NYA 1 x 1,5 mm <sup>2</sup>	μ	0,26	149,5	23%	38,88
H07V-U	NYA 1 x 1,5 mm <sup>2</sup>	μ	0,26	149,5	23%	38,88
H07V-U	NYA 1 x 2,5 mm <sup>2</sup>	μ	0,42	11,5	23%	4,83
H07V-U	NYA 1 x 2,5 mm <sup>2</sup> -	μ	0,42	163,3	23%	68,59
H07V-U	NYA 1 x 2,5 mm <sup>2</sup>	μ	0,42	11,5	23%	4,83
H07V-U	NYA 1 x 2,5 mm <sup>2</sup>	μ	0,42	273,7	23%	114,95
H07V-U	NYA 1 x 2,5 mm <sup>2</sup>	μ	0,42	273,7	23%	114,95
H07V-U	NYA 1 x 4 mm <sup>2</sup> -	μ	0,72	16,1	23%	11,59
H07V-U	NYA 1 x 4 mm <sup>2</sup>	μ	0,72	16,1	23%	11,59
H07V-U	NYA 1 x 4 mm <sup>2</sup>	μ	0,72	16,1	23%	11,59
A05VV-U	NYM 2 x 1,5 mm <sup>2</sup>	μ	1,03	6,9	23%	7,11
H05VV-U	NYM 3 x 2,5 mm <sup>2</sup>	μ	1,25	29,9	23%	37,38
H05VV-U	NYM 3 x 10 mm <sup>2</sup>	μ	6,75	1	23%	6,75
J1VV-R	3 x 25 mm <sup>2</sup> + 16 mm <sup>2</sup>	μ	24,17	18	23%	435,06
J1VV-R	3 x 4 mm <sup>2</sup>	μ	2,63	6	23%	15,78
J1VV-R	3 x 50 mm <sup>2</sup> + 25 mm <sup>2</sup>	μ	44,15	15	23%	662,25
J1VV-R	5 x 10 mm <sup>2</sup>	μ	13,43	35,65	23%	478,78
						<b>2102.64</b>

	/	· €	.	%	· μ
LED X .KOK	μ	3,85	8,00	23%	37,88
μ / 0- 400 μ μ	μ	91,00	3,00	23%	335,79
4 μ	μ	26,43	3,00	23%	97,53
0-500V 7	μ	78,45	3,00	23%	289,48
SR400	μ	18,98	3,00	23%	70,04
μ μ 7	μ	53,00	1,00	23%	65,19
μ μ μ ο 4	μ	53,00	1,00	23%	65,19
3 / 10	μ	4,92	10,00	23%	60,52
3 / 16	μ	4,92	14,00	23%	84,72
3 / 20	μ	4,92	2,00	23%	12,10
3 / 16	μ	20,29	1,00	23%	24,96
. . . 63 . C	μ	2,65	51,00	23%	166,23
1056 . . 63 .EHC	μ	0,74	51,00	23%	46,42
63 .EHC	μ	0,30	51,00	23%	18,82
. 6 . C	μ	0,22	1,00	23%	0,27
. 10 . C	μ	0,24	5,00	23%	1,48
. 16 . C	μ	0,23	16,00	23%	4,53
. 20 . C	μ	0,23	12,00	23%	3,39
. 25 . C	μ	0,22	4,00	23%	1,08
. 35 . C	μ	0,28	12,00	23%	4,13
. 50 . C	μ	0,33	6,00	23%	2,44



. -	. 6	. C	μ	0,27	1,00	23%	0,33	
. -	. 10	. C	μ	0,33	5,00	23%	2,05	
. -	. 16	. C	μ	0,33	16,00	23%	6,49	
. -	. 20	. C	μ	0,35	12,00	23%	5,17	
. -	. 25	. C	μ	0,35	4,00	23%	1,72	
. -	. 35	. C	μ	0,55	12,00	23%	8,12	
. -	. 50	. C	μ	0,57	6,00	23%	4,21	
. KIB 100 R1/4			. C	μ	5,81	36,00	23%	257,27
100 1/4			. EHC	μ	5,42	36,00	23%	240,00
2				μ	0,65	19,00	23%	15,19
6				μ	0,85	1,00	23%	1,05
10				μ	2,72	4,00	23%	13,38
16				μ	2,72	16,00	23%	53,53
20				μ	2,72	12,00	23%	40,15
25				μ	2,72	1,00	23%	3,35
35				μ	2,96	12,00	23%	43,69
50				μ	2,96	6,00	23%	21,84
80				μ	3,37	12,00	23%	49,74
100				μ	3,37	6,00	23%	24,87
25	1 x			μ	3,75	5,00	23%	23,06
	2 x 25			μ	5,65	18,00	23%	125,09
	I	3 x 25		μ	10,00	8,00	23%	98,40

	3 x 40	μ	14,72	4,00	23%	72,42
	3 x 63	μ	20,70	17,00	23%	432,84
	3 x 100A	μ	25,30	10,00	23%	311,19
CDC763H	3 3 x 63 /30mA	μ	103,0 0	1,00	23%	126,69
	3 x 125	μ	250,0 0	3,00	23%	922,50
125	1-0-2 3 x	μ	150,0 0	2,00	23%	369,00
	3 x 250	μ	350,0 0	2,00	23%	861,00
	220/42V 1000VA	μ	75,00	1,00	23%	92,25
	220/60V 1000VA	μ	80,00	1,00	23%	98,40
	/	μ	35,00	2,00	23%	86,10
1250 910 230		μ	311,0 0	1,00	23%	382,53
		μ	162,0 0	1,00	23%	199,26
	60V 75 57X17	μ	139,1 0	1,00	23%	171,09
60V		μ	72,50	1,00		72,50
	60 4	μ	52,50	1,00	23%	64,58
	48 4	μ	52,50	1,00	23%	64,58
8 2		μ	39,90	1,00	23%	49,08
	/ 42V	μ	39,90	1,00	23%	49,08
<b>&amp;</b>						<b>6783,46</b>

	/	€		%	€ μ
.13,5	μ	0,39	60,00	23%	28,41
.16	μ	0,40	20,00	23%	9,72
.23	μ	0,63	5,00	23%	3,84
.13,5	μ	1,78	20,00	23%	43,67
.21	μ	2,60	5,00	23%	15,99
20 DOMO 750N	μ	0,80	60,00	23%	59,04
25 DOMO 750N	μ	1,05	20,00	23%	25,83
. 13,5	μ	100,00	0,67	23%	82,41
. 16	μ	80,00	0,69	23%	67,90
20 DOMO B/T	μ	100,00	0,20	23%	24,60
. 25 /	μ	100,00	0,25	23%	30,75
70mm	μ	0,31	113,00	23%	43,09
0,8 mm 100mm X 50mm X	μ	2,33	35,00	23%	100,31
mm 150mm X 35mm X 0,8	μ	2,65	35,00	23%	114,08
NTIZA 8 2μ	μ	1,45	20,00	23%	35,67
6 13/16	μ	0,10	200,00	23%	24,60
60mm	μ	0,75	30,00	23%	27,68
8	μ	0,40	30,00	23%	14,76
180	μ	1,77	30,00	23%	65,31
2,5 mm <sup>2</sup> 24	μ	1,25	5,00	23%	7,69
6 mm <sup>2</sup> 41	μ	1,25	1,00	23%	1,54

1,5 - 2,5 mm <sup>2</sup>	μ	0,04	100,00	23%	4,92
4 mm <sup>2</sup>	μ	0,06	100,00	23%	7,38
ELITE	μ	3,20	9,00	23%	35,42
ELITE	μ	3,80	4,00	23%	18,70
-	μ	0,29	42,00	23%	14,98
SHUKO ELITE	μ	3,70	15,00	23%	68,27
RG11 ELITE	μ	3,30	5,00	23%	20,30
50"	μ	40,00	1,00	23%	49,20
SHUKO 42V	μ	16,00	7,00	23%	137,76
SHUKO 60V	μ	18,00	2,00	23%	44,28
40W/60V ( )	μ	38,75	6,00	23%	285,98
2X36W SLM ELEC/BALL	μ	26,00	27,00	23%	863,46
36W/840-860	μ	1,90	54,00	23%	126,20
	μ	6,50	4,00	23%	31,98
60W	μ	7,28	4,00	23%	35,82
GLS HALO A/CL 70W/E27 230V	μ	2,43	12,00	23%	35,87
AL-236S OBA	μ	5,53	4,00	23%	27,21
	μ	21,40	6,00	23%	157,93
GLS HALO A/CL 70W/E27 230V	μ	2,43	6,00	23%	17,93
	μ	33,00	3,00	23%	121,77
200W	μ	5,50	3,00	23%	20,30
					<b>2952,51</b>

	/	· €	·	%	· μ €
MET 30 30 20cm 3μμ ( ) 3 x 250	μ	180,00	1,00	23%	221,40
40 3mm	μ	3,60	54,00	23%	239,11
X 30mm <sup>2</sup>	μ	12,00	3,00	23%	44,28
X 50mm <sup>2</sup>	μ	18,00	5,00	23%	110,70
μ 1"	μ	7,00	10,00	23%	86,10
	μ	75,00	1,00	23%	92,25
( ) 20cm	μ	1,60	2,00	23%	3,94
	μ	1,20	178,00	23%	262,73
	μ	3,00	75,00	23%	276,75
	μ	1,20	60,00	23%	88,56
	μ	3,00	24,00	23%	88,56
40 4mm	μ	4,20	56,00	23%	289,30
10mm	μ	1,14	68,00	23%	95,35
μ 2 1/2"	μ	19,00	2,50	23%	58,43
μ μ μ μ μ μ 30 30	μ	78,33	3,00	23%	289,04
				<b>2246,48</b>	

	/	· €	·	%	· μ €
700μ <sup>3</sup> / HBX 30 T4 1/6	μ	820,00	1,00	23%	1.008,6 0
1000μ <sup>3</sup> / HBX 35 T4 1/6	μ	910,00	1,00	23%	1.119,3 0
					<b>2127,90</b>

	/	· €	·	%	· μ €
%, μ μ , CE, EN3, BC 40 , 6 kg	μ	25,00	4,00	23%	123,00
kg A. B.C.E. 40% UFO μ 12 μ μ 68% μ μ μ μ μ CE	μ	42,00	2,00	23%	103,32
					<b>226,32</b>



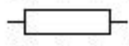

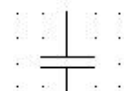
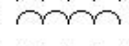

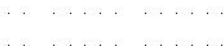
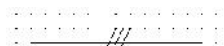
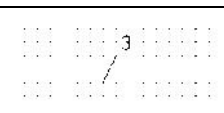
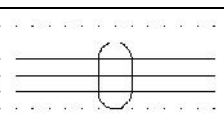
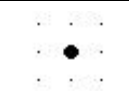


	2.102,64
&	6.783,46
	2.952,51
	2.246,48
	2.127,90
	226,32
	<b>14.336,67</b>



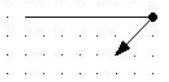
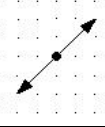
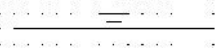
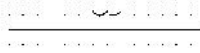
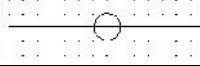
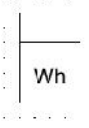
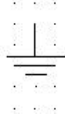




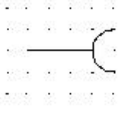
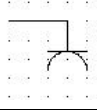
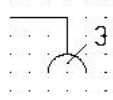
15.

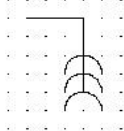
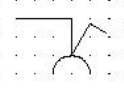
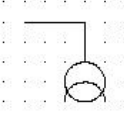
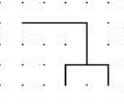
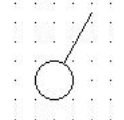
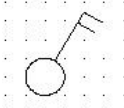
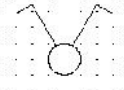
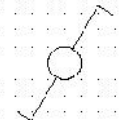
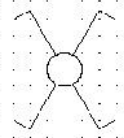
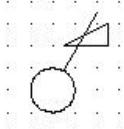
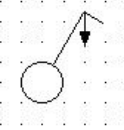

μ μ



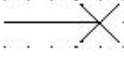
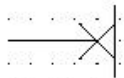

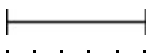



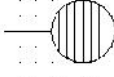
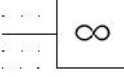


IEC 60617

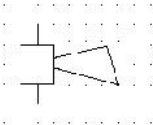
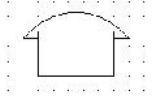
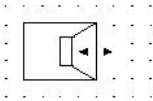

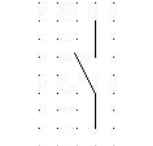
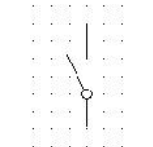
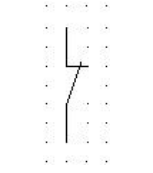
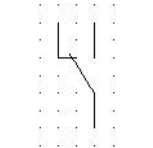
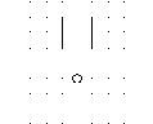
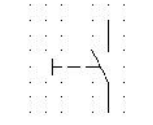
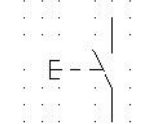
/	. IEC	μ	
μ		μ	
1	06-15-01		μ μ ( )
2	06-A1-01		( μ 1996).
3	06-15-02		( μ μ )
4	04- 1-01		( μ , μ 1996).
5	04-02-01		
6	04-03-01		μ ) , , μ ( μ
7	04- 3-01		μ , , μ ( μ , 1996).
μ . .			
8	03-01-01		μ μ , μ ( )
9	03-01-02		μ μ μ μ ( , 3).
10	03-01-03		μ μ μ μ ( , 3).
11	03-01-09		
12	03-02-01		, μ .
13	03-02-02		μ , .
14	11-12-01		μ μ .

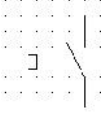
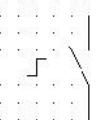
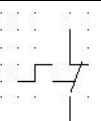
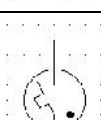
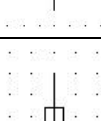
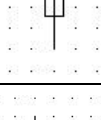
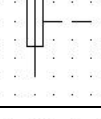



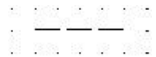
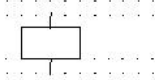
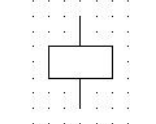
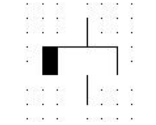
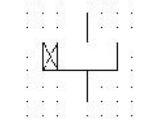
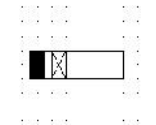
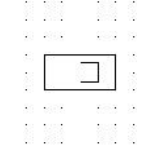
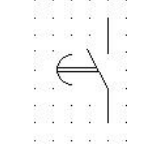
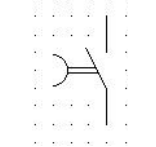
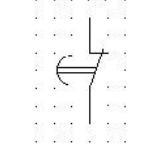
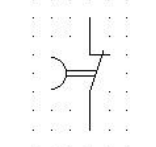
/	. IEC	$\mu$	
15	11-12-02		$\mu\mu$ .
16	11-12-03		$\mu\mu$ .
17	11-03-01		$\mu\mu$ .
18	11-03-02		$\mu\mu$ .
19	11-03-03		$\mu\mu$ .
20	08-04-03		
21	02-15-01		, $\mu$ .
22	02-15-03		
23	02-17-01		$\mu$ ( $\mu$ )
24	11-12-04		$\mu$ .
25	11-12-05		
26	03-03-01		$\mu$ , $\mu$ .
27	11-13-04		$\mu$ $\mu$ .
28	11-13-02		)- $\mu$ $\mu$ ( $\mu$ .

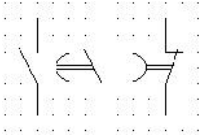



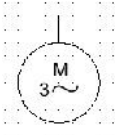
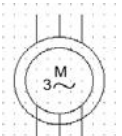
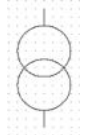
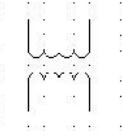
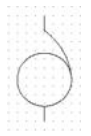
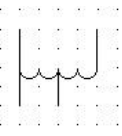
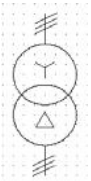
/	. IEC	$\mu$	
29	11-13-03		)- $\mu$ $\mu$ ( $\mu$
30	11-13-06		$\mu$ $\mu$ .
31	11-13-08		$\mu$ $\mu$ $\mu$ $\mu$ $\mu$ $\mu$ - $\mu$ $\mu$ ). $\mu$ $\mu$ ( . . $\mu$
32	11-13-09		$\mu$ ( TV ). $\mu$ -
33	11-14-01		, $\mu$ .
34	11-14-04		.
35	11-14-05		$\mu\mu$ .
36	11-14-06		- .
37	11-14-07		- $\mu$ .
38	11-14-08		$\mu$ $\mu$ (Dimmer),
39	11-14-09		
40	11-14-10		$\mu$ ( $\mu$ ).

/	. IEC	$\mu$	
41	11-14-11		$\mu$ ( $\mu$ ) $\mu$ .
42	11-14-14		
43	11-15-01		$\mu$ .
44	11-15-02		$\mu$ .
45	08-10-01		$\mu$ , $\mu$ .
46	11-15-04		$\mu$ $\mu$ .
47	11-15-07		
48	11-15-11		$\mu$ .
49	11-15-12		$\mu$ .
50	11-16-01		$\mu$ .
51	11-16-02		$\mu$ .
52	11-16-04		
53	08-10-06		

/	. IEC	μ	
54	08-10-05		( ) .
55	09-05-01		.
56	11-16-05		, .
57	10-04-01		.
		μ	μ
58	07-02-01		μ ( ) ( μ 1).
59	07-02-02		μ ( ) ( μ 2).
60	07-02-03		μ ( C).
61	07-02-04		.
62	07-02-05		μ μ « ».
63	07-07-01		μ μ μ ,
64	07-07-02		push-button) μ μ ( μ -

/	. IEC	$\mu$	
65	07-07-03		$\mu \quad \mu .$
66	07-07-04		.
67	07-09-03		$\mu \quad \mu . \quad \mu \quad \mu$
68	07-09-04		(Starter) $\mu .$
69	07-21-01		, $\mu .$
70	07-21-03		$\mu$ (Striker).
71	07-21-07		.
72	07-13-05		$\mu \quad \mu . \quad \mu$
73	02-06-01	$>$	$\mu \quad \mu \quad \mu \quad \mu$ ( . . $I >$ ).
74	02-06-02	$<$	$\mu \quad \mu \quad \mu \quad \mu$ ( . . $U <$ ).

/	. IEC	$\mu$	
75	02-12-01		$(\mu \quad )$ .
76	02-13-23		$\mu \quad \mu \quad - \quad )$ . ( . .
77	07-15-01		$\mu \quad ( \quad )$ .
78	07-15-07		$\mu \cdot \quad \mu \quad ( \quad ) \mu$
79	07-15-08		$\mu \cdot \quad \mu \quad ( \quad ) \mu$
80	07-15-09		$\mu \quad \mu \quad ( \quad ) \mu$ $\mu \cdot$
81	07-15-21		$\mu \quad )$ . $\mu \quad ( \cdot \cdot$
82	07-05-01		$\mu \cdot \quad \mu$
83	07-05-02		$\mu \cdot \quad \mu$
84	07-05-03		$\mu \cdot \quad \mu \quad \mu$
85	07-05-04		$\mu \cdot \quad \mu \quad \mu$

/	. IEC	$\mu$	
86	07-05-06		
		$\mu$	$\mu$
87	06-02-06		$\mu$
88	06-02-07		$\mu$
89	07-14-06		-
90	06-08-01		$\mu$ . $\mu$
91	06-08-03		
92	06-09-01		$\mu$ $\mu$ ( $\mu$ 1). $\mu$ ,
93	06-09-02		$\mu$ $\mu$ ( $\mu$ 2). $\mu$ ,
94	06-09-06		( $\mu$ 1). $\mu$ , $\mu$
95	06-09-07		( $\mu$ 2). $\mu$ , $\mu$
96	06-10-07		- $\mu$ $\mu$

## 16.

1.		( PI1-50.dwg )
2.	220V	( Isxyra.dwg )
3.	60V - 42V	( Asuenh.dwg )
4.		( Geiwseis.dwg )
5.		( Pathitiki.dwg )
6.	.	( Panel.dwg )



## 17.

. (1992). μ μ  
:  
 (1980).  
: μ  
 (1997).  
μ

HAGER [http://www.hager.gr/files/download/0/762\\_1/0/HagerHellas\\_Pricelist\\_2014.pdf](http://www.hager.gr/files/download/0/762_1/0/HagerHellas_Pricelist_2014.pdf)

NIKOLOPOYLOS [http://www.inik.gr/files/katalogos\\_hlektrologikou\\_ylikoy.pdf](http://www.inik.gr/files/katalogos_hlektrologikou_ylikoy.pdf)

CABLEL <http://www.cablel.gr/dyn/UserFiles/File/gr-catalogue.pdf>

SKREKIS <http://www.skrekis.gr/servicedet.asp?p=&type=1&id=152>

METALLODOMI <http://www.metallodomi.gr/catalog.asp?lang=gr>

Nexans [http://www.nexans.gr/eservice/Greece-el\\_GR/navigate\\_180130/\\_2013.html](http://www.nexans.gr/eservice/Greece-el_GR/navigate_180130/_2013.html)

CAD -

AUTODESK AUTOCAD 2010 -

4M AUTOFINE -

