

Приложение 2 към Техническо предложение

За обособена позиция № 1:

„Доставка на електромерни табла НН, за директно измерване“

ИЗИСКВАНИ ДОКУМЕНТИ ОТ ТЕХНИЧЕСКИ

ИЗИСКВАНИЯ И СПЕЦИФИКАЦИИ

Приложение 4

ELEKTROTECHNICKÝ ZKUŠEBNÍ ÚSTAV



ELECTROTECHNICAL TESTING INSTITUTE - CZECH REPUBLIC
 ELEKTROTECHNISCHE PRÜFANSTALT - TSCHECHISCHE REPUBLIK
 INSTITUT ELECTROTECHNIQUE D'ESSAIS - RÉPUBLIQUE TCHÈQUE
 ЭЛЕКТРОТЕХНИЧЕСКИЙ ИСПЫТАТЕЛЬНЫЙ ИНСТИТУТ - ЧЕШСКАЯ РЕСПУБЛИКА

Pod lisem 129/2, 171 02 Praha 8 - Troja

CERTIFICATE

No.: 1180481

Product: Empty boxes and columns for LV switchboards

Type: SP, SS, SR, SD, SE, SV, ER, ES, EP, RVO, STR, ZS, NR,
NS, NP, RPO, SB, APZ, PP

Rating: 1000 V AC / 1500 V DC, IP44, IK10, (N material design, material SMC)

Ordering firm: DCK Holoubkov Bohemia a.s.
Holoubkov 336, 338 01 Holoubkov, Czech Republic

Manufacturer: DCK Holoubkov Bohemia a.s.
Holoubkov 336, 338 01 Holoubkov, Czech Republic

Trade mark:

The test results are stated in the test-report No.: 801456-01/01 of: 04.06.2018

A sample of the product was found to be in conformity with:
ČSN EN 62208 ed.2:12

Other data:

Certificate was issued on the basis of fulfillment of requirements of the "EZÚ certificate" certification scheme and on the basis of agreement No. 801456 between the client and the Electrotechnical Testing Institute.

Compliance of the product with mentioned standards and regulations ensures compliance of the product with essential requirements of Government Order No. 118/2016 Sb. (2014/35/EU) as amended and the certificate may be used as a supporting document for the EU Declaration of Conformity under Act No. 90/2016 Coll., on Conformity Assessment of Products When Made Available on the Market, as amended.

The validity of the certificate is limited to: 31.07.2021

03.07.2018

Prague

на основании чл. 36а, ал. 3 от
ЗОП

Mgr. Miroslav Sedláček
Head of Certification Body



Stamp



801456-01



Превод от английски език

СЕРТИФИКАТ

№.: 1180481

Продукт: Празни кутии и колони за табла НН

Тип: SP, SS, SR, SD, SE, SV, ER, ES, EP, RVO, STR, ZS, NR,
NS, NP, RPO, SB, APZ, PP

Класове: 1000 V AC / 1500 V DC. 1P44. IK10. (N дизайн на материала, материал SMC)

Възложител: DCK. Holoubkov Bohemia a.s.
Holoubkov 336. 338 01 Holoubkov. Czech Republic

Производител: DCK Holoubkov Bohemia a.s.
Holoubkov 336. 338 01 Holoubkov. Czech Republic

Търговска марка:

Резултатите от изпитването са посочени в протокол за изпитване №.: 801456-01 01 от: 04.06.2018

Беше установено, че мостра на продукта е в съответствие с:

CSN EN 62208 издание.2:12

Други данни:

Сертификатът е издаден въз основа на изпълнението на изискванията на сертификационната схема "EZU сертификат" и въз основа на договор № 801456 между клиента и Института за електротехническо изпитване.

Съответствието на продукта със споменатите стандарти и разпоредби гарантира съответствие на продукта със съществените изисквания на правителствената заповед № 118/2016 Sb. (2014/35 / EL '), както и измененията, и сертификатът може да се използва като придружителен документ за ЕС Декларация за съответствие съгласно Закон № 90/2016 Coll., относно оценката на съответствието на продуктите, които се предлагат на пазара, както и измененията.

Валидността на сертификата е до: 31.07.2021

03.07.2018

(подпис – не се чете)

Прага

Маг. Мирослав Седлачек
Ръководител на Сертифициращ орган

ВЯРНО С ОРИГИНАЛА





OPIS



ezú elektrotechnický
zkušební
ústav

Elektrotechnický zkušební ústav, s. p.
Pod lisem 129/2
171 02 Praha 8 - Troja

TEST REPORT

Test Report No.: 801456-01/01

Issued: 4. 6. 2018

Name of product: Empty boxes and columns for LV switchboards

Type of product: SP, SS, SR, SD, SE, SV, ER, ES, EP, RVO, STR, ZS, NR, NS, NP, RPO, SB, APZ, PP

Ratings: 1000 V AC / 1500 V DC, IP44 (IP54), IK10
(N material design, material SMC)

Serial number: -

Manufacturer: DCK Holoubkov Bohemia a.s.
Holoubkov 336, 338 01 Holoubkov, Czech Republic

Production site: -

Ordering firm: DCK Holoubkov Bohemia a.s.
Holoubkov 336, 338 01 Holoubkov, Czech Republic

Number of tested samples: 0

Samples submitted on: -

Location of testing: Elektrotechnický zkušební ústav, s. p.

Tests performed from 28. 5. 2018 through 4. 6. 2018

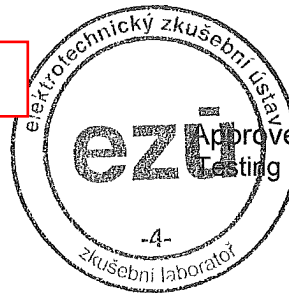
Other data: Using the results of the test reports EZÚ No.:
500908-01/01, 400503-01/06, 403894-01/01,
500285-01/01, 500945-01/01, 500945-01/03,
603947-01/01 and 700088-01/01

Tested according to: ČSN EN 62208 ed.2:12

на основании чл. 36а, ал. 3 от
ЗОП

на основании чл. 36а, ал. 3 от
ЗОП

Compiled by: Vladimír Řehořek



Approved by: Petra Marie Tůmová
Testing laboratory technical manager

No. of pages: 2

No. of annexes: 1

No. of annexes pages: 2

Test results stated in the test report apply only to the tested subject and unless specified otherwise in the test report, the tests were performed using the method and under the conditions determined in the test regulations, technical norm, instructions for use and information provided by the manufacturer on the tested subject and using accessories required by the manufacturer.
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Tel.: 266 104 111, Fax: 284 680 070, www.ezu.cz

Name of product: **Empty boxes and columns for LV switchboards**

Type of product: **SP, SS, SR, SD, SE, SV, ER, ES, EP, RVO, STR, ZS, NR, NS, NP, RPO, SB, APZ, PP**

Ratings: **1000 V AC / 1500 V DC, IP44 (IP54), IK10
(N material design, material SMC)**

The product was certified with **EZÚ test certificate No. 1150236** dated 8. 4. 2015 (corrigendum 23. 6. 2015). Results of the tests are listed in **EZÚ test report No. 500908-01/01** dated 25. 03. 2015.

Tested according to **ČSN EN 62208 ed. 2:12** with satisfactory result.

According to the manufacturer's statement were made no changes on the product which would affect the security or basic function.

The manufacturer asks for the addition of the test reports (IP code) of the tested cabinets and renewal of the certificate for the next period.

The results of the IP tests are given in the EZÚ test reports No:
400503-01/06 (8.7.2014), **403894-01/01** (3.10.2014), **500285-01/01** (11.2.2015), **500945-01/01** (26.3.2015), **500945-01/03** (27.3.2015), **603947-01/01** (30.11.2016) a **700088-01/01** (13.4.2017).

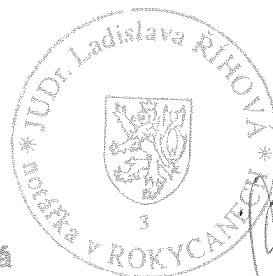
The standard used for certification is still valid.

на основании чл. 36а, ал. 3 от
ЗОП

Compiled by: Ing. Vladimír Rehořek

Date: 4. 6. 2018

Ověření - vidimace
Ověřuji, že tento opis složený z listů
doslovně souhlasí s listinou, z níž byl pořízen,
složenou z listů.
✓ *NO LY DANETA* dne 29-03-2019



JUDr. Ladislava Říhová
notárka v Rokycanech

0185



empty boxes and columns for LV switchboards

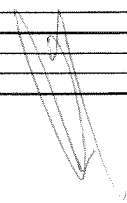
Marking:

1	2	3	4	5	6	
SS	1	N	V	-	7	
determination of the empty box and column	Size of the empty box and column	Type of material	Construction		Door closing of empty box	Specifications of the manufacturer
SP – SS – SR – SD – SV – ER – ES – EP – NR – NS – NP – RVO – STR – ZS – RPO – SB – RP – APZ – DIN – PP – KD –	00 – 0 – 1 – 2 – 3 – 11 – 12 – 21 – 22 – 23 – 32 – 33 –	N –	V – F – N – E – P – S – K – C – L – O –		1 – 2 – 3 – 4 – 5 – 6 – 7 – 8 – 9 –	-C – -L – -DIN –
Marking according to PNE 35 7040 ed.3						

Explanatory notes:

Column	Code	Code description
1	SP	Connection switchboards for electricity network for connecting (Connection box for connecting)
	SS	Determination for loop connection switchboards for electricity network (loop connection boxes)
	SR	Determination for disconnection switchboards for electricity network (disconnection boxes)
	SD	Same size as the SR types, Determination for disconnection switchboards for electricity network (disconnection boxes) with split busbar
	SV	Same size as the SS types, Disconnection switchboards and pillars for electricity network for overhead line (disconnection boxes) for overhead line
	ER	Same size as the SS types, Determination for electricity meter switchboards
	ES	Same size as the SS types, Determination for electricity meter switchboards – arrangement next them
	EP	Same size as the SS types, Determination for electricity meter switchboards – arrangement over them
	NR	Same size as the SS, SR types, Determination for electricity meter switchboards (indirect measuring)
	NS	Same size as the SS, SR types, Determination for electricity meter switchboards (indirect measuring) – arrangement next them
	NP	Same size as the SS, SR types, Determination for electricity meter switchboards (indirect measuring) – arrangement over them
	RVO	Same size as the SS, SR types, Determination for public lighting switchboards
	STR	Same size as the SS types, Building site switchboards
	ZS	Same size as the SP, SS types, Socket switchboards
	RPO	Same size as the SS types, Determination for overvoltage protections switchboards
	SB	Same size as the SS types, Determination for loop connection switchboards for electricity network with overvoltage protections
	RP	Same size as the SS, SR types, Determination for switchboards with electrical devices
	APZ	Same size as the SS types, Determination for gas meter switchboards / cabinets (gas meter boxes), sign on the door - HUP
DIN	Size and dimension of empty box and column according to DIN 43629	
PP	column / pedestal	
KD	column / pedestal – terminal part (part above the ground)	
3	N	All-plastic type made of thermoset / thermosetting material (SMC – polyester)
	V	For installation in an alcove in the wall (the brick pillars) materials of the reaction to fire class A1 according to ČSN EN 13501-1 + A1
4	F	For installation in an alcove in the wall (the brick pillars) in the case of design material lining panels or her base construction product different from the reaction to fire class A1 according to ČSN EN 13501-1 + A1
	N	For wall mounting materials of the reaction to fire class A1 according to ČSN EN 13501-1 + A1
	E	For installation on a wall in cases of material design wall (base enclosure) different from the reaction to fire class A1 according to ČSN EN 13501-1 + A1
	P	For mounting on an pillar base
	S	For mounting on an electrical pole
	K	Compact column (compact finish of the box, terminal part and base part)
	C	Compact column (compact finish of the box, terminal part without base part)
5	L	Column (or column – terminal part) – 250mm
	O	Column (or column – terminal part) – 320mm
	1	Simple closing with locking system for the energetics field in accordance PN-DCK 01-2006 ed.2 and ČSN 35 9754 – appendix 1
	2	Three-point closing with locking system for the energetics field in accordance PN-DCK 01-2006 ed.2 and ČSN 35 9754 – appendix 1
	3	Sealing screw M6
	4	Dual closing (locking system for the energetics field in accordance PN-DCK 01-2006 ed.2 and ČSN 35 9754 – appendix 1 + locking system for the other field in accordance PN-DCK 01-2006 ed.2 and ČSN 35 9754 – appendix 2)
	5	Three-point closing with cylinder lock
6	6	Simple closing with cylinder lock
	7	closing with the spinous key 6x6 mm in accordance with PN-DCK 01-2006 ed.2 and ČSN 35 9756
	8	closing with the spinous key 6x6 mm in accordance with PN-DCK 01-2006 ed.2 and ČSN 35 9756 + Simple closing with locking system for the energetics field in accordance PN-DCK 01-2006 ed.2 and ČSN 35 9754 – appendix 1
	9	Special closing according to agreement with the owner/manufacturer
	-C	All-plastic monolit design of box
6	-L	Box with removable covering strip
	DIN	Size and dimension of empty box and column according to DIN 43629

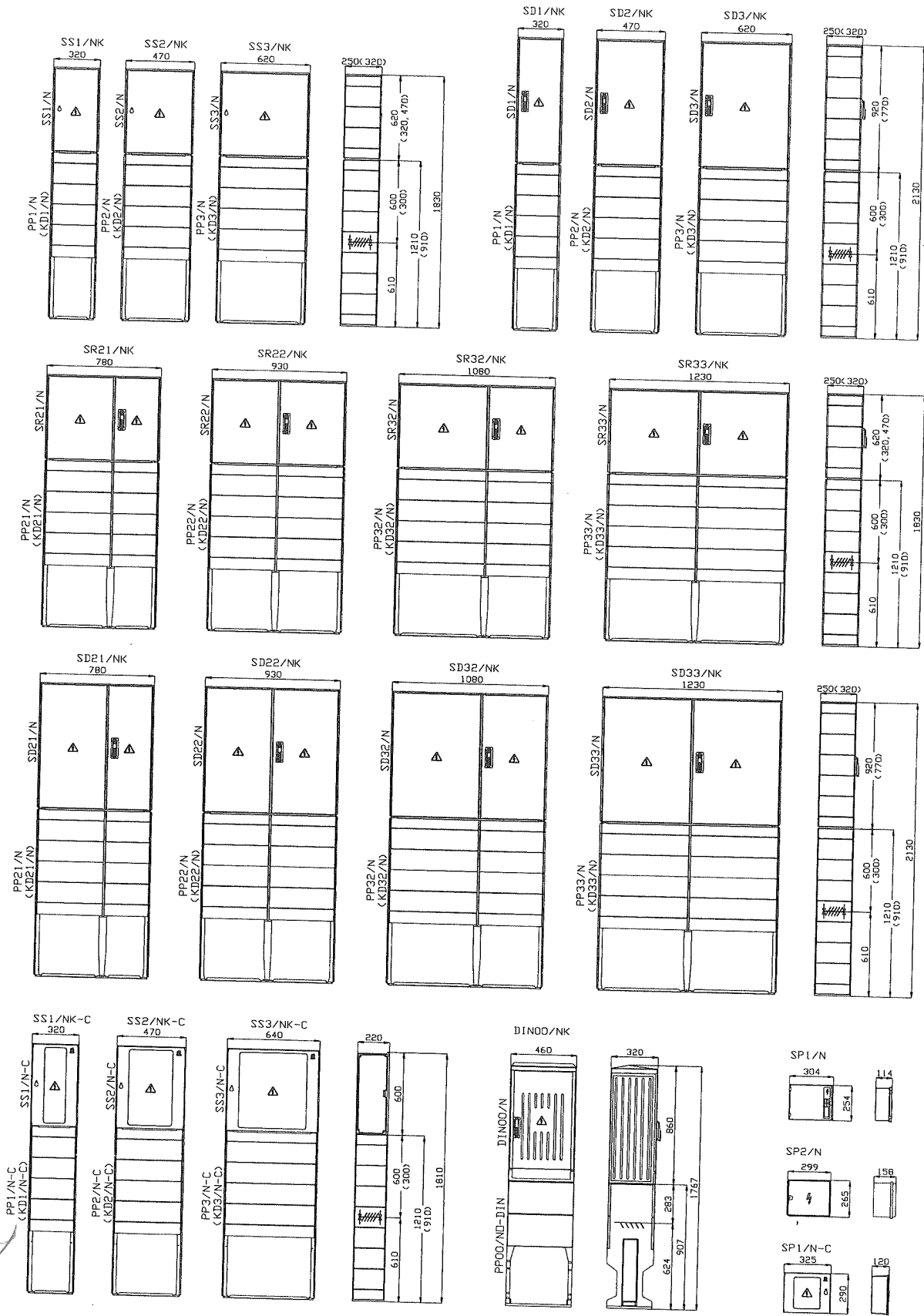
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Dimensions:

empty boxes and columns for LV switchboards



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ELECTROTECHNICAL TESTING INSTITUTE
Pod Lisem 129
171 02 Praha 8 - Troja

No. of pages:11
No. of annexes/No. of an. pages:1/2

No. of the Test Report: 500908-01/01

Issued: 25.3.2015



TEST REPORT

Name of product: Empty boxes for LV switchboards
Type of product: SP, SS, SR, SD, SE, SV, ER, ES, EP, RVO, STR, ZS, NR, NS, NP, RPO, SB, RP, APZ, DIN, PP, KD
Ratings: 1000V AC / 1500V DC, IP44, IK10, (N material design, material SMC)
Serial number: 1739445, 1739436, 1739437, 937380
Manufacturer: DCK Holoubkov Bohemia a. s., Holoubkov 336, 338 01 Holoubkov, Czech Republic
Production site:
Ordering firm: DCK Holoubkov Bohemia a. s., Holoubkov 336, 338 01 Holoubkov, Czech Republic
Number of tested samples: 4
Samples submitted on: 5.3.2015
Location of testing: EZÚ
Tested from 10.3.2015 through 24.3.2015
Other data:
The product was tested according to: ČSN EN 62208 ed.2:12

на основании чл. 36а, ал. 3 от
ЗОП

на основании чл. 36а, ал. 3 от
ЗОП

Compiled by: Ing. Vladimír Rehořek

Approved by: Petra M. Slavková
Testing laboratory
technical manager



Test results stated in the test report apply only to the tested subject and unless specified otherwise in the test report, the tests were performed using the method and under the conditions determined in the test regulations, technical norm, instructions for use and information provided by the manufacturer on the tested subject and using accessories required by the manufacturer.
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Fax: +420 284 680 070

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0188

PRODUCT NAME: Empty boxes for LV switchboards

TYPE: SP, SS, SR, SD, SE, SV, ER, ES, EP, RVO, STR, ZS, NR, NS, NP, RPO, SB, RP, APZ, DIN, PP, KD

The supplied samples: SP1/NV-1-C, SS2/NV-1, SS2/NV-1-C, DIN00/NK-2

Serial number-date of production: 1739445, 1739436, 1739437 – 2015; 937380 - 2014

Cabinet manufacturer: DCK Holoubkov Bohemia a.s.

Tested according to:

ČSN EN 62208 ed.2:12 art.: 4, 6: 6.2, 6.3, 9: 9.3, 9.4, 9.6, 9.7, 9.8, 9.9.1, 9.9.3, 9.10, 9.12, 9.13, 9.14

The protocol were taken from the test results protocols EZÚ no. 400502-01 / 05 (art. 9.13: corrosion tests) and 400503-01/06, 500285-01/01 (art. 9.8: test degrees of protection - IP code)

4 Classification

Cabinets are classified according to:

a) type of the material:

- insulation
 metal
 combination of an insulating material and metal

b) according to the method of attachment:

- standing on the floor
 mounted on the wall
 flush mounting
 pillar
 mounted on the mast

c) place of use:

- outdoor
 indoor


d) degree of protection:

IP code: IP 44
 IK code: IK 10

e) rated insulation voltage:

$U_i = 1000 \text{ V, AC / } 1500 \text{ V, DC}$

ČSN EN 62208 ed.2:12			
Clause	Requirement + Test	Result - Remark	Verdict

6	INFORMATION TO BE GIVEN REGARDING THE ENCLOSURE		
6.2	Marking		
	The enclosure shall be identifiable, making it possible for the assembly manufacturer to obtain relevant information from the enclosure manufacturer. Such identification shall comprise:	--	Pass
	- either the name, trade mark or identification mark of the enclosure manufacturer;	 DEK HOLOUBKOV mark on label molding on cabinet - fig. No. 6	
	- type designation or identification number of the enclosure.	fig. No. 1	
	The marking shall be durable and easily legible and may be inside the enclosure.	art. No. 9.3	
6.3	Documentation		
	The manufacturer's documentation shall include all relevant constructional, mechanical characteristics, the enclosure classification (see Clause 4) and any instruction necessary for the correct handling, assembling, mounting and service conditions of the enclosure as well as reference to this standard:	--	Pass
	- dimensions	product label, catalog	
	- mounting arrangements	catalog	
	- permissible loads	the manufacturer's documentation	
	- lifting devices, if necessary	not required	
	- provisions for protection against electric shock	without any conductive parts protection class II	
	- applicable service conditions	-35°C až 40°C, 100% rel. humidity at 25 ° C	
	- location and size of protected space	interior of the enclosure outside the door	
	- data of thermal power dissipation capability	the manufacturer's documentation'	
	- rated insulation voltage of enclosures constructed of an insulating material	U _i = 1000 V, AC (1500 V, DC)	
	- degree of protection (IK and IP codes)	IK 10, IP 44	

AS

ČSN EN 62208 ed.2:12

Clause	Requirement + Test	Result - Remark	Verdict
9	TYPE TESTS		
9.3	Marking		
	<p>Marking made by moulding, pressing, engraving or similar. Labels with a laminated plastic covering shall not be submitted to the following test.</p> <p>The test is made by rubbing the marking by hand for 15 s with a piece of cloth soaked in water and then for 15 s with a piece of cloth soaked with petroleum spirit. After the test the marking shall be easily legible.</p>	without damage	Pass
9.4	Static loads		
	<p>The enclosure fitted with all its required components to support the permissible load is loaded with a weight of 1,25 times the permissible load as declared by the manufacturer.</p> <p>The loads are arranged on the mounting plate or switchgear and controlgear supports and on the door evenly distributed as specified by the enclosure manufacturer.</p> <p>The loads are retained for 1 h in the closed position.</p> <p>For enclosures constructed of insulating material and metallic enclosures with parts (hinges, locks, etc.) of insulating material, this shall be carried out at 70 °C.</p> <p>The closed door is opened five times through 90 °, resting at least 1 min in the open position.</p> <p>For enclosures constructed of insulating material and metallic enclosures with parts (hinges, locks, etc.) of insulating material, this part of the test may be carried out at ambient temperature external to the heating cabinet.</p> <p>After the test, with the test loads in place, the enclosure shall show no cracks or permanent distortions and during the test no deflections which could impair any of its characteristics.</p>	<p>permissible load (enclosure / door):</p> <p>SP1/NV-1-C: 5 / 1 kg SS2/NV-1: 50 / 2 kg SS2/NV-1-C: 50 / 2 kg DIN00/NK-2: 50 / 2 kg</p> <p>without damage</p>	Pass
9.6	Axial loads of metal inserts		
	<p>This test applies to all kind of enclosures when threaded metal inserts are provided to retain the mounting plate or switchgear and controlgear supports in place.</p> <p>The test shall be carried out by applying an axial load for 10 s to representative samples.</p> <p>At the end of the test, the insert shall still be in its original position; any sign of movement is not acceptable.</p> <p>Cracks and splits in the material containing the insert are also not acceptable.</p>	<p>size inserts: M5 size of load: 350 N</p> <p>size inserts: M6, M8 size of load: 500 N</p> <p>not apparent damage</p>	Pass

AS

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ČSN EN 62208 ed.2:12			
Clause	Requirement + Test	Result - Remark	Verdict

9.7	Degree of protection against external mechanical impacts (IK code)		
	<p>The enclosure shall be fixed on a rigid support as for normal use.</p> <p>The impact energy shall be applied:</p> <ul style="list-style-type: none"> - three times to each exposed surface in normal use whose largest dimension is not above 1 m; - five times to each exposed surface in normal use whose largest dimension is greater than 1 m. <p>The test shall not be applied to the enclosure components (e.g. locks, hinges, etc.).</p> <p>The impacts shall be applied with even distribution over the faces of the enclosure.</p> <p>After the test, the enclosure shall continue to provide the IP code and dielectric strength. Removable covers can be removed and reinstalled, doors opened and closed.</p>	without damage	Pass
9.8	Degree of protection (IP-Code)		
9.8.1.1	Protection against access to hazardous parts		Pass
	<p>Subclauses 12.1 and 12.2 of IEC 60529:1989 apply.</p> <p>The access probes shall not enter the protected space.</p>	<p>IP 4X</p> <p>Test reports EZÚ No. 400503-01/06 No. 500285-01/01</p>	
9.8.1.2	Degree of protection against the ingress of solid foreign objects		Pass
	<p>For IP 2X, IP 3X, IP 4X enclosures, 13.2 and 13.3 of IEC 60529:1989 apply.</p> <p>The protection is satisfactory if the probe does not penetrate tacted diameter into any opening.</p>	<p>IP 4X</p> <p>Test reports EZÚ No. 400503-01/06 No. 500285-01/01</p>	
9.8.2	Degree of protection against ingress of water as indicated by second characteristic numeral		Pass
	<p>Subclauses 14.1 and 14.2 of IEC 60529:1989 apply.</p> <p>After the test, water shall not have ingressed into the protected space.</p> <p>Immediately after the test, all indicator papers shall still be dry.</p>	<p>IP X4</p> <p>Test reports EZÚ No. 400503-01/06 No. 500285-01/01</p>	

ČSN EN 62208 ed.2:12			
Clause	Requirement + Test	Result - Remark	Verdict
9.9	Properties of insulating materials		
9.9.1	Thermal stability		Pass
	<p>The thermal stability of enclosures manufactured from insulating material shall be verified by the dry heat test. The test shall be carried at a temperature of 70 °C, with natural air circulation, for a duration of 168 h.</p> <p>After the treatment, the enclosure or sample is removed from the cabinet and kept at ambient temperature for at least four days (96 h).</p> <p>The enclosure or sample shall show no crack visible to normal or corrected vision without additional magnification nor shall the material have become sticky or greasy.</p>	without damage and changes	
9.9.3	Resistance to abnormal heat and to fire		Pass
	<p>Compliance is checked by tests in accordance with the principles of IEC 60695-2-10.</p> <p>The temperature of the tip of the glow wire shall be as follows:</p> <ul style="list-style-type: none"> - for parts intended to retain current-carrying parts in position: (960 ± 15) °C - for parts intended to be installed in hollow walls: (850 ± 15) °C - for all other parts: (650 ± 15) °C 	<p>thermoset material (SMC):</p> <p>960 °C</p>	
	<p>The specimen is considered to have withstood the glow-wire test if:</p> <ul style="list-style-type: none"> - there is no visible flame and no sustained glowing, or if - flames and glowing of the specimen extinguish within 30 s after removal of the glow wire. <p>There shall be no burning of the tissue paper or scorching of the pinewood board.</p>	<p>the flame extinguished into 1s after withdrawing the glow-wire</p> <p>no ignition of the tissue paper</p>	
9.10	Dielectric strength		
	This test applies to enclosures where insulating material is used, even in combination with non-insulating materials.		Pass
9.10.2	Preconditioning		
	<p>The enclosures are placed in a humidity cabinet containing air with relative humidity maintained at between 91 % and 95 %. The air temperature, where the enclosures are placed, is maintained at (40 ± 2) °C. The enclosures are kept in the cabinet for two days (48 h).</p>	yes	

0193

ČSN EN 62208 ed.2:12			
Clause	Requirement + Test	Result - Remark	Verdict
9.10.3	Enclosures without metal elements inside the protected space		Pass
	An r.m.s. voltage of substantially sine-wave form at a value according to 10.9.4 of IEC 61439-1:2011 is applied for 1 min between two metal foils, one in contact with the external surface and the other inside the enclosure at the limit of the protected space	$U_1 = 1000 \text{ V, AC}$ $U_{zk} = 3300 \text{ V, AC}$	
9.10.5	Results to be obtained		
	The samples shall show no damage impairing their further use; no flashover or breakdown shall occur during the test.	no flashover or breakdown	
9.11	The continuity of the protective circuit		
	It shall be verified that the different exposed conductive parts of the enclosure are effectively connected to the earthing terminal or contact of the protective circuit and that the resistance of the circuit does not exceed 0,1 Ω .	all-plastic enclosure without conducting parts	--
9.12	Resistance to ultra-violet (UV) radiation		
	This test applies only to enclosures and external parts of enclosures intended to be installed outdoors and which are constructed of insulating materials or metals that are entirely coated by synthetic material. This test need not be carried out if the manufacturer can provide data from the material supplier to demonstrate that materials of the same thickness or thinner comply with this requirement.	test report SSOG: No. 14LA03899 29/09/2014	Pass
9.13	Resistance to corrosion		
	Ferrous metallic enclosures and external ferrous metallic parts of insulating and combined enclosures shall be tested to verify that they ensure protection against corrosion.	--	Pass
9.13.2.1	Severity test A		
	This test is applicable to: - metallic indoor enclosures - external metallic parts of indoor enclosures - internal metallic parts of indoor and outdoor enclosures upon which intended mechanical operation may depend	tested hinges, locks and fastenings	

 0194

ČSN EN 62208 ed.2:12			
Clause	Requirement + Test	Result - Remark	Verdict
9.13.3	Results to be obtained		
	Compliance is checked by visual inspection to determine that: - there is no evidence of iron oxide, cracking or other deterioration more than that allowed by ISO 4628-3 for a degree of rusting Ri1. However, surface deterioration of the protective coating is allowed; - the mechanical integrity is not impaired; - seals are not damaged; - door, hinges, locks, and fastenings work without abnormal effort.	Test report EZÚ No. 400502-01/05	Pass
9.14	Thermal power dissipation capability		
	Warming max [K]: Terminals for external conductors insulated 70 Busbars and conductors -- Manual control means: – metal 15 - insulating material 25 Accessible external enclosures: – metal 30 - insulating material 40 .	verified by calculation according to ČSN IEC 890 + A1 ($\Delta t_{1,0} = 40 \text{ K}$, $\text{RDF} = 0,8$) $P_{ztr} = 90 \text{ W}$	Pass

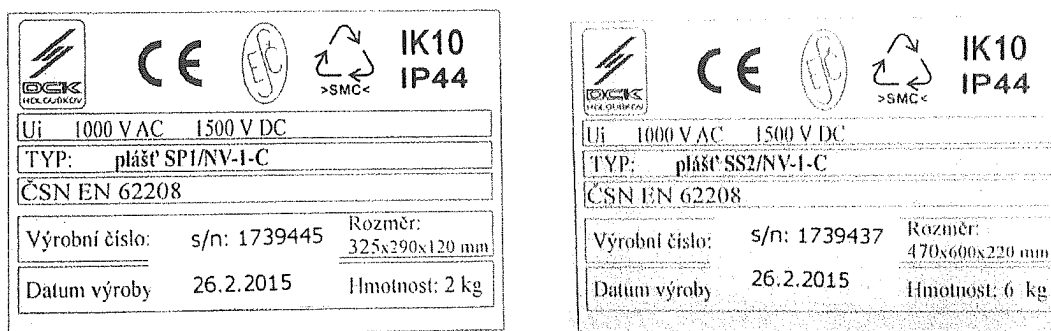





PHOTO-DOCUMENTATION

Fig. 1/1 - Product labels samples tested

0195

    		
U _i 1000 V AC 1500 V DC		
TYP: plášť SS2/NV-1		
ČSN EN 62208		
Výrobní číslo:	s/n: 1739436	Rozměr: 470x640x250 mm
Datum výroby:	26.2.2015	Hmotnost: 7 kg






    		
U _i 1000 V AC 1500 V DC		
TYP: DIN00/NK-2		
ČSN EN 62208		
Výrobní číslo:	937380	rozměr: 608x1770x320 mm
Datum výroby:	2.12.2014	Hmotnost: 27 kg

Fig. 1/2 - Product labels samples tested

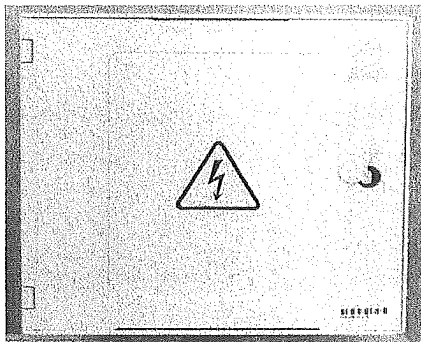


Fig. 2 – The enclosure SP1/NV-1-C

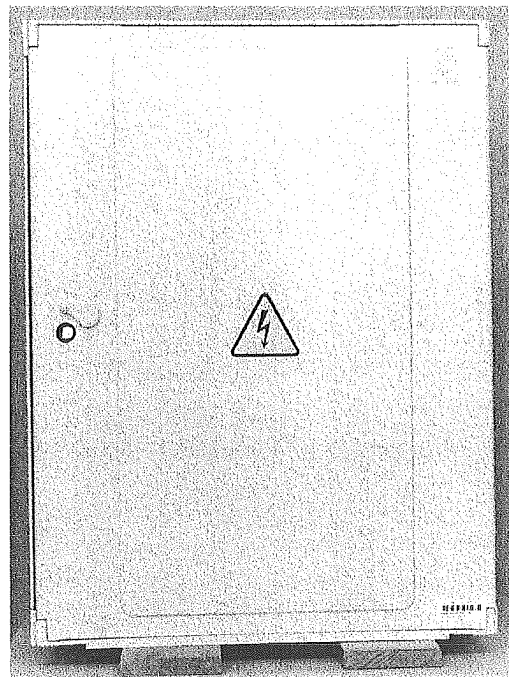


Fig. 3 – The enclosure SS2/NV-1-C

0196

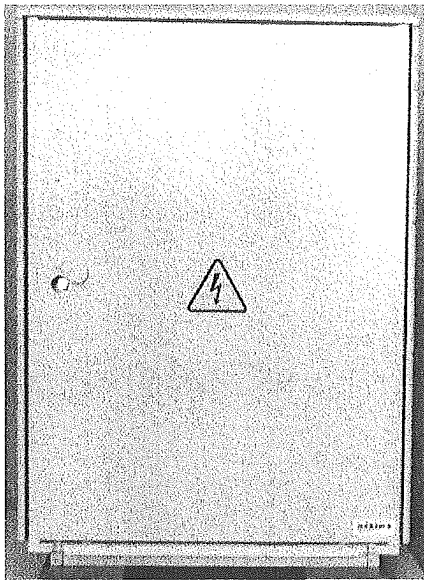


Fig. 4 – The enclosure SP1/NV-1

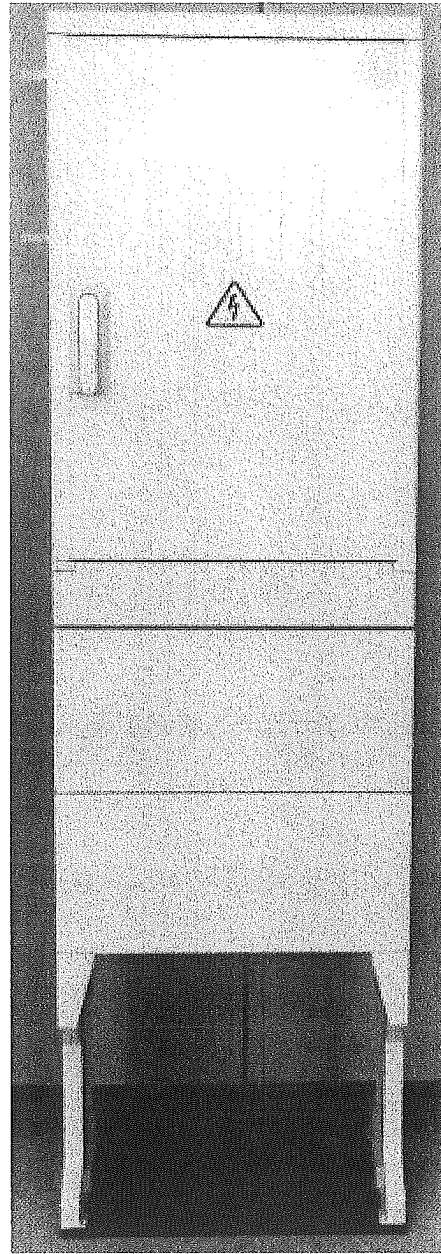


Fig. 5 – The enclosure DIN00/NK-2



Fig. 6 – Manufacturer's mark on the cabinet - Molding

0197

<u>The name, type</u>	<u>registration number</u>
Electric strength WIP 6	ZP 76 – 3921
Electric furnace HS 202A	5844
Glow- wire test PTL 5090005 T 03.35	00110195
Test metallic ball	N 700729
Steel meter tape	N 400016
Set of weights 2,5 ÷ 20 kg	N 700088
Stopwatch Junso JS 6610	N 700263

на основании чл. 36а, ал. 3 от
ЗОП

Tested by: Ing. Vladimír Řehorek

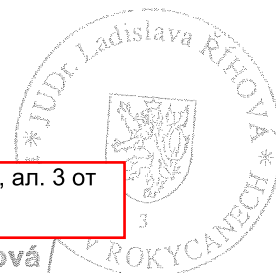
Date: 24. 3. 2015

Ověření - vidimace

Ověřuji, že tento opis složený z¹¹..... listů
doslovně souhlasí s listinou, z níž byl pořízen,
složenou z¹¹..... listů. 20.03.2019

V ROKYCANEC dne на основании чл. 36а, ал. 3 от
ЗОП

JUDr. Ladislava Říhová
notárka v Rokycanech



0198

OPIS

ELEKTROTECHNICKÝ ZKUŠEBNÍ ÚSTAV



ELECTROTECHNICAL TESTING INSTITUTE - CZECH REPUBLIC
ELEKTROTECHNISCHE PRÜFANSTALT - TSCHECHISCHE REPUBLIK
INSTITUT ELECTROTECHNIQUE D'ESSAIS - RÉPUBLIQUE TCHÉQUE
ЭЛЕКТРОТЕХНИЧЕСКИЙ ИСПЫТАТЕЛЬНЫЙ ИНСТИТУТ - ЧЕШСКАЯ РЕСПУБЛИКА

Pod lisem 129/2, 171 02 Praha 8 - Troja

CERTIFICATE

No.: 1190150

Product: Empty boxes for LV switchboards

Type: SS (see Enclosure)

Rating: 1000 V AC / 1500V DC, IP44, IK10

Ordering firm: DCK Holoubkov Bohemia a.s.
Holoubkov 336, 338 01 Holoubkov, Czech Republic

Manufacturer: DCK Holoubkov Bohemia a.s.
Holoubkov 336, 338 01 Holoubkov, Czech Republic

Factories: DCK Holoubkov Bohemia a.s.
Holoubkov 336, 338 01 Holoubkov, Czech Republic

Trade mark:

The test results are stated in the test-report No.: 910567-01/01 of: 06.03.2019

A sample of the product was found to be in conformity with:
ČSN EN 62208 ed. 2:12

Other data:

The validity of the certificate is limited to: 31.03.2022

11.03.2019

Prague

0199

на основании чл. 36а, ал. 3 от
ЗОП

Mgr. Miroslav Sedláček
Head of Certification Body



910567-01



Empty boxes and columns for LV switchboards

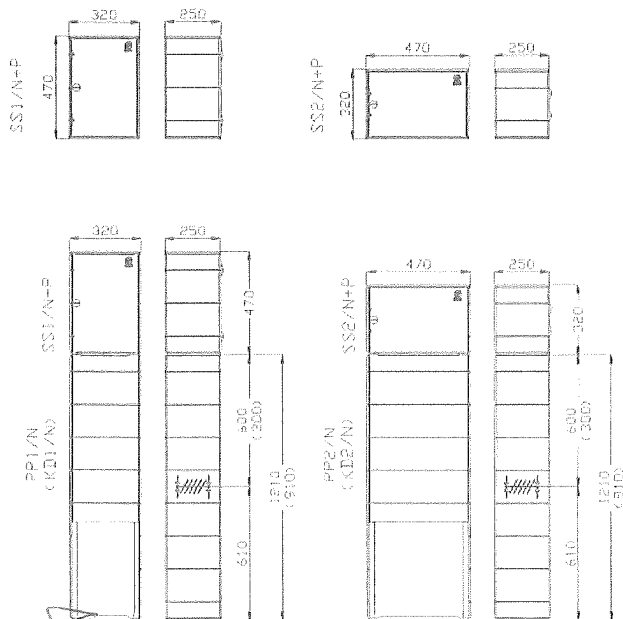
Marking:

1	2	3	4	5	6		
SS	I	/	N+P	N	-	3	v450
determination of the empty box and column	Size of the empty box and column	Type of material	Construction		Door closing of empty box	Specifications of the manufacturer	
SS PP KD-	1 2	N+P	V F N E P S K C L		3 6 9	- v300 v450 v900	
Marking according to PNE 35 7040 ed.3							

Explanatory notes:

Column	Code	Code description
1	SS	Determination for loop connection switchboards for electricity network (loop connection boxes), Determination for electricity meter switchboards
	PP	column / pedestal
	KD	column / pedestal - terminal part (part above the ground)
3	N+P	All-plastic type made of thermoset / thermosetting material (SMC - polyester) and polycarbonate: box - SMC, door - PC
4	V	For installation in an alcove in the wall (the brick pillars) materials of the reaction to fire class A1 according to ČSN EN 13501-1 + A1
	F	For installation in an alcove in the wall (the brick pillars) in the case of design material lining panels or her base construction product different from the reaction to fire class A1 according to ČSN EN 13501-1 + A1
	N	For wall mounting materials of the reaction to fire class A1 according to ČSN EN 13501-1 + A1
	E	For installation on a wall in cases of material design wall (base enclosure) different from the reaction to fire class A1 according to ČSN EN 13501-1 + A1
	P	For mounting on a pillar base
	S	For mounting on an electrical pole
	K	Compact column (compact finish of the box, terminal part and base part)
C	Compact column (compact finish of the box, terminal part without base part)	
L	Column (or column - terminal part) - 250mm	
5	3	Sealing screw M6
	6	Simple closing with cylinder lock
	9	Special closing according to agreement with the owner/manufacturer
6	-	Standard design of box
	v300	Box - height of door 300mm
	v450	Box - height of door 300mm
	v900	Column - height of sidepart 900mm

Dimensions:



0200

ВЕРНО С ОРИГИНАЛА

ezú

elektrotechnický zkušební ústav

podle ČSN EN 13501-1 + A1

Brno, 11. 02. 2011

Třída

EAD



ELECTROTECHNICAL TESTING INSTITUTE - CZECH REPUBLIC ELEKTROTECHNISCHE PRUFANSTALT - TSCHECHISCHE REPUBLIK
INSTITUT ELECTROTECHNIQUE D ESSAIS - REPUBLIQUE TCHÈQUE ELEKTROTECHNICKÝ ZKUSEBNÍ ÚSTAV -
ЧЕШСКАЯ РЕСПУБЛИКА

Pod lisem 129/2, 171 02 Praha 8 - Troja

Превод от английски език

СЕРТИФИКАТ

№.: 1190150

Продукт: Празни кутии за табла НН
Тип: SS (виж Приложението)
Класове: 1000 V AC / 1500 V DC. IP44. IK10.
Възложител: DCK. Holoubkov Bohemia a.s.
Holoubkov 336. 338 01 Holoubkov. Czech Republic
Производител: DCK Holoubkov Bohemia a.s.
Holoubkov 336. 338 01 Holoubkov. Czech Republic

Търговска марка:

Резултатите от изпитването са посочени в протокол за изпитване №.: 910567-01/01 от: 06.03.2019

Беше установено, че мостра на продукта е в съответствие с:

CSN EN 62208 издание.2:12

Други данни:

Валидността на сертификата е до: 31.03.2022

11.03.2019

(подпис – не се чете)

Прага

Маг. Мирослав Седлачек
Ръководител на Сертифициращ орган

0201

ВЯРНО С ОРИГИНАЛА



Празни кутии и колони за табла НН

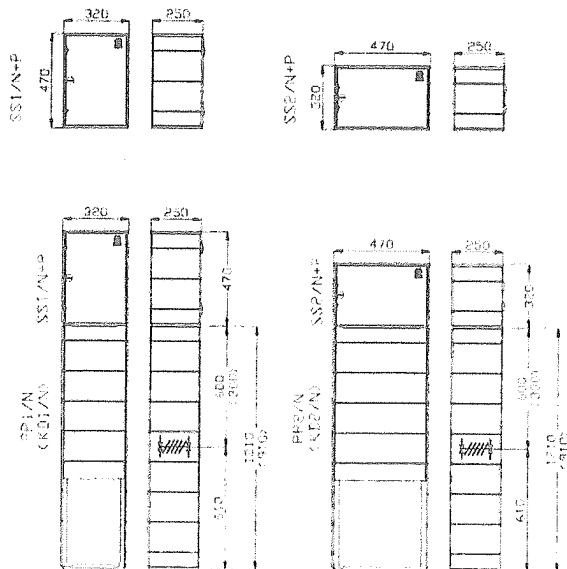
Маркировка:

1	2	3	4	5	6
SS	/	N+P	N	3	v450
определяне на празната кутия и колоната	Място на празната кутия и колоната	Тип на материала	Конструкция	Затваряща врата на празната кутия	Спецификации на производителя
SS PP KD-	1 2	N+P	V F N E P S K C L	3 6 9	- - v300 - v450 - v900
Маркировка съгласно PNF. 35 7040 изд..3					

Обяснителни бележки:

Колоната	Код	Описание на кода	
1	SS	Означение за разпределителни табла за електрическа мрежа (електрически мрежи). Означение за табла за електромери	
	PP	колоната/ покъл	
	KD	колоната/ покъл - крайната част (частта над земята)	
3	N+P	Изцяло пластмасов тип от дуропласт / терморезистивен материал (SMC полиестер) и поликарбонатна кутия - SMC, врата - PC	
	V	За монтаж в ниша в стена (тухлени стълбове) материали от клас А1 за пожароустойчивост, съгласно CSN EN 13501-1 + A1	
4	F	За монтаж в ниша в стена (тухлени стълбове) в случай на облицовъчни панели от дизайнерски материали или основен строителен продукт, различен от клас А1 за пожароустойчивост, съгласно CSN EN 13501-1 + A1	
	N	За стенов монтаж към материали от клас А1 за пожароустойчивост, съгласно CSN EN 13501-1 + A1	
	E	За монтаж на стена в случай на различен материал (основна обвивка), от клас А1 за пожароустойчивост, съгласно CSN EN 13501-1 + A1	
	P	За монтаж на основата на колоната	
	S	За монтаж на електрически стълб	
	K	Компактна колоната (компактно покритие на кутията, крайна и основна част)	
	C	Компактна колоната (компактно покритие на кутията, крайна част без основна част)	
	L	Колоната (или колоната - крайна част) - 250mm	
	5	3	Уплътнителен винт М6
		6	Лесно затваряне с цилиндрична брава
9		Специално затваряне по споразумение със собственика / производителя	
6		Стандартна конструкция на кутията	
	v300	Кутия - височина на вратата 300mm	
	v450	Кутия - височина на вратата 450mm	
	v900	Кутия - височина на страничната стена 900mm	

Размери:



0202

ВЯРНО С ОРИГИНАЛА





OPIS



Elektrotechnický zkušební ústav, s. p.
Pod lísem 129/2
171 02 Praha 8 - Troja

TEST REPORT

Test Report No.: 910567-01/01

Issued: 6. 3. 2019

Name of product: Empty boxes for LV switchboards
Type of product: SS (see enclosure)
Ratings: 1000V AC / 1500V DC, IP44, IK10
Serial number: 2453339
Manufacturer: DCK Holoubkov Bohemia a.s.
Holoubkov 336, 338 01 Holoubkov, Czech Republic
Production site: -
Ordering firm: DCK Holoubkov Bohemia a.s.
Holoubkov 336, 338 01 Holoubkov, Czech Republic
Number of tested samples: 1
Samples submitted on: 19. 2. 2019
Location of testing: Elektrotechnický zkušební ústav, s. p.
Tests performed from 25. 2. 2019 through 6. 3. 2019
Other data: The results of some tests were taken from the test reports EZÚ No.: 803380-01/01, 803380-01/02, 910567-01/02
Tested according to: ČSN EN 62208 ed. 2:12

на основании чл. 36а, ал. 3 от
ЗОП

на основании чл. 36а, ал. 3 от
ЗОП

Compiled by: Ing. Vladimír Řehořek

Approved by: Ing. Petra Marie Tůmová
Testing laboratory technical manager

No. of pages: 8

No. of annexes: 1

No. of annexes pages: 1

Test results stated in the test report apply only to the tested subject and unless specified otherwise in the test report, the tests were performed using the method and under the conditions determined in the test regulations, technical norm, instructions for use and information provided by the manufacturer on the tested subject and using accessories required by the manufacturer.
Without written consent of Elektrotechnický zkušební ústav, s. p., this report must not be reproduced in any other way than as a whole.

Tel.: 266 104 111, Fax: 284 680 070, www.ezu.cz

0203

PRODUCT NAME: Empty boxes for LV switchboards

TYPE: SS (see enclosure)

Manufacturer: DCK Holoubkov Bohemia a.s.

Supported sample: SS1/N+PV

Tested according to:

ČSN EN 62208 ed.2:12 art.: 4; 6: 6.2, 6.3; 9: 9.3, 9.4, 9.6, 9.7, 9.8, 9.9.1, 9.9.3, 9.10, 9.11, 9.12, 9.14

The results of some tests were taken from the test reports EZÚ No.: 803380-01/01, 803380-01/02, 910567-01/02

4 Classification

Cabinets are classified according to:

a) type of the material:

- insulation
 metal
 combination of an insulating material and metal

b) according to the method of attachment:

- standing on the floor
 mounted on the wall
 flush mounting
 mounted on the mast

c) place of use:

- outdoor
 indoor


d) degree of protection:

IP code: IP 44
IK code: IK 10

e) rated insulation voltage (for enclosures made of insulating materials):

$U_i = 1000 \text{ V, AC} / 1500 \text{ V, DC}$

0204

ČSN EN 62208 ed.2:12			
Clause	Requirement + Test	Result - Remark	Verdict
6	Information to be given regarding the enclosure		
6.2	Marking		
	The enclosure shall be identifiable, making it possible for the assembly manufacturer to obtain relevant information from the enclosure manufacturer. Such identification shall comprise:	see fig. No. 1	Pass
	- either the name, trade mark or identification mark of the enclosure manufacturer;		
	- type designation or identification number of the enclosure.	type: SS1/N+PV (v450) s/n: 2453339	
	The marking shall be durable and easily legible and may be inside the enclosure.	see art. No. 9.3	
6.3	Documentation		
	The manufacturer's documentation shall include all relevant constructional, mechanical characteristics, the enclosure classification (see Clause 4) and any instruction necessary for the correct handling, assembling, mounting and service conditions of the enclosure as well as reference to this standard:	--	Pass
	dimensions (w x h x d): SS1/N+P v450 , 320 x 470 x 250 mm SS2/N+P v300 , 470 x 320 x 250 mm	320 x 470 x 250 mm production label, catalogue	
	mounting arrangements	catalogue	
	permissible loads	50 kg + 2 kg	
	lifting devices, if necessary	are not necessary	
	provisions for protection against electric shock	all-plastic design without conductive parts, protection class II	
	applicable service conditions	-35°C to 40°C, rel. humidity 100% at 25 ° C	
	location and size of protected space	the interior of the cabinet outside the door area	
	data of thermal power dissipation capability	see art. No. 9.14	
	rated insulation voltage of enclosures constructed of an insulating material	U _i = 1000 V, AC / 1500 V, DC	
	degree of protection (IK and IP codes)	IK 10, IP 44	

9	Type tests		
9.3	Marking		
	<p>Marking made by moulding, pressing, engraving or similar. Labels with a laminated plastic covering shall not be submitted to the following test.</p> <p>The test is made by rubbing the marking by hand for 15 s with a piece of cloth soaked in water and then for 15 s with a piece of cloth soaked with petroleum spirit.</p> <p>After the test the marking shall be easily legible.</p>	<p>small wear, marking is easy to read</p>	<p>Pass</p>
9.4	Static loads		
	<p>The enclosure fitted with all its required components to support the permissible load is loaded with a weight of 1,25 times the permissible load as declared by the manufacturer.</p> <p>The loads are retained for 1 h in the closed position.</p> <p>For enclosures constructed of insulating material and metallic enclosures with parts (hinges, locks, etc.) of insulating material, this shall be carried out at 70 °C.</p> <p>After the test, with the test loads in place, the enclosure shall show no cracks or permanent distortions and during the test no deflections which could impair any of its characteristics.</p>	<p>enclosure = $50 \times 1,25 = 62,5$ kg door = $2 \times 1,25 = 2,5$ kg not show any changes</p>	<p>Pass</p>
9.6	Axial loads of metal inserts		
	<p>This test applies to all kind of enclosures when threaded metal inserts are provided to retain the mounting plate or switchgear and controlgear supports in place.</p> <p>The test shall be carried out by applying an axial load for 10 s to representative samples.</p> <p>At the end of the test, the insert shall still be in its original position; any sign of movement is not acceptable.</p> <p>Cracks and splits in the material containing the insert are also not acceptable.</p>	<p>size inserts: M6, M8 size of load: 500 N not apparent damage</p>	<p>Pass</p>
9.7	Degree of protection against external mechanical impacts (IK code)		
	<p>The enclosure shall be fixed on a rigid support as for normal use.</p> <p>The impact energy shall be applied:</p> <ul style="list-style-type: none"> - three times to each exposed surface in normal use whose largest dimension is not above 1 m; - five times to each exposed surface in normal use whose largest dimension is greater than 1 m. <p>The test shall not be applied to the enclosure components (e.g. locks, hinges, etc.).</p> <p>The impacts shall be applied with even distribution over the faces of the enclosure.</p> <p>After the test, the enclosure shall continue to provide the IP code and dielectric strength. Removable covers can be removed and reinstalled, doors opened and closed.</p>	<p>IK 10 : impact energy = 20 J not apparent damage</p>	<p>Pass</p>

9.8	Degree of protection (IP-Code)		
9.8.1	Degree of protection against access to hazardous parts and against the ingress of solid foreign objects indicated by first characteristic numeral		Pass
	Apply Articles 12 and 13 of IEC 60529: 1993 + A1:2001 + A2:2014	IP 4x Test report EZÚ No.: 910567-01/02	
9.8.2	Degree of protection against ingress of water as indicated by second characteristic numeral		Pass
	Apply Articles 14.1 and 14.2 of IEC 60529: 1993 + A1:2001 + A2:2014	IP x4 Test report EZÚ No.: 910567-01/02	
9.9	Properties of insulating materials		
9.9.1	Thermal stability		Pass
	<p>The thermal stability of enclosures manufactured from insulating material shall be verified by the dry heat test. The test shall be carried at a temperature of 70 °C, with natural air circulation, for a duration of 168 h.</p> <p>After the treatment, the enclosure or sample is removed from the cabinet and kept at ambient temperature for at least four days (96 h).</p> <p>The enclosure or sample shall show no crack visible to normal or corrected vision without additional magnification nor shall the material have become sticky or greasy.</p>	without damage and changes	
9.9.3	Resistance to abnormal heat and to fire		Pass
	<p>Compliance is checked by tests in accordance with the principles of IEC 60695-2-10.</p> <p>The temperature of the tip of the glow wire shall be as follows:</p> <ul style="list-style-type: none"> - 960 °C for parts intended to retain current-carrying parts in position: - 650 °C for all other parts: 	<p>1) material: SMC (enclosure) 960 °C</p> <p>2) material: PC (door) 650 °C</p>	
	<p>The specimen is considered to have withstood the glow-wire test if:</p> <ul style="list-style-type: none"> - there is no visible flame and no sustained glowing, or if - flames and glowing of the specimen extinguish within 30 s after removal of the glow wire. <p>There shall be no burning of the tissue paper or scorching of the pinewood board.</p>	<p>1) not burn, not melt</p> <p>2) not burn, smoke, melts, not dripping</p>	

9.10	Dielectric strength		
	This test applies to enclosures where insulating material is used, even in combination with non-insulating materials.		Pass
9.10.2	Preconditioning		
	The enclosures are placed in a humidity cabinet containing air with relative humidity maintained at between 91 % and 95 %. The air temperature, where the enclosures are placed, is maintained at (40 ± 2) °C. The enclosures are kept in the cabinet for two days (48 h).	--	
9.10.3	Enclosures without metal elements inside the protected space		
	An r.m.s. voltage of substantially sine-wave form at a value according to 10.9.4 of IEC 61439-1:2011 is applied for 1 min between two metal foils, one in contact with the external surface and the other inside the enclosure at the limit of the protected space	$U_i = 1000$ V, AC $U_{zk} = 3300$ V, AC without damage no breakdown or flashover	
9.11	The continuity of the protective circuit		
	It shall be verified that the different exposed conductive parts of the enclosure are effectively connected to the earthing terminal or contact of the protective circuit and that the resistance of the circuit does not exceed 0,1 Ω .	All-plastic enclosure without conducting parts	--
9.12	Resistance to ultra-violet (UV) radiation		
	This test applies only to enclosures and external parts of enclosures intended to be installed outdoors and which are constructed of insulating materials or metals that are entirely coated by synthetic material. Representative samples of such parts shall be subjected to the following test.	test reports EZÚ No.: 803380-01/01 803380-01/02	Pass
9.14	Thermal power dissipation capability		
	The thermal power dissipation data provided by the manufacturer (see 6.3.1) shall be determined by test in accordance with 10.10.4.2.2 of IEC 61439-1:2011, or by a calculation method, e.g. according to IEC/TR 60890.	determined by calculation according to IEC TR 60890	Pass
	Warming max [K]: Accessible external enclosures: - metal 30 - insulating material 40 .	($\Delta t_{1,0} = 40$ K, RDF = 1) (mounted on the wall) enclosure SS1/N+P v450 P = 77 W enclosure SS2/N+P v300 P = 84 W	

PHOTO-DOCUMENTATION

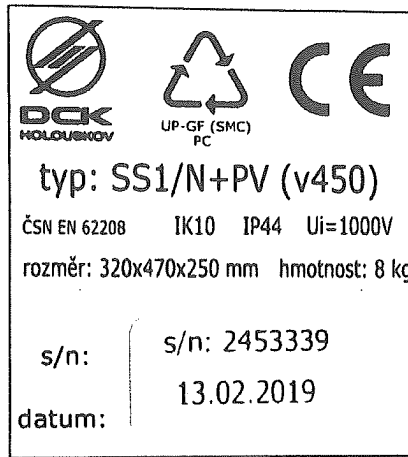


Fig. 1 - Label of the enclosure

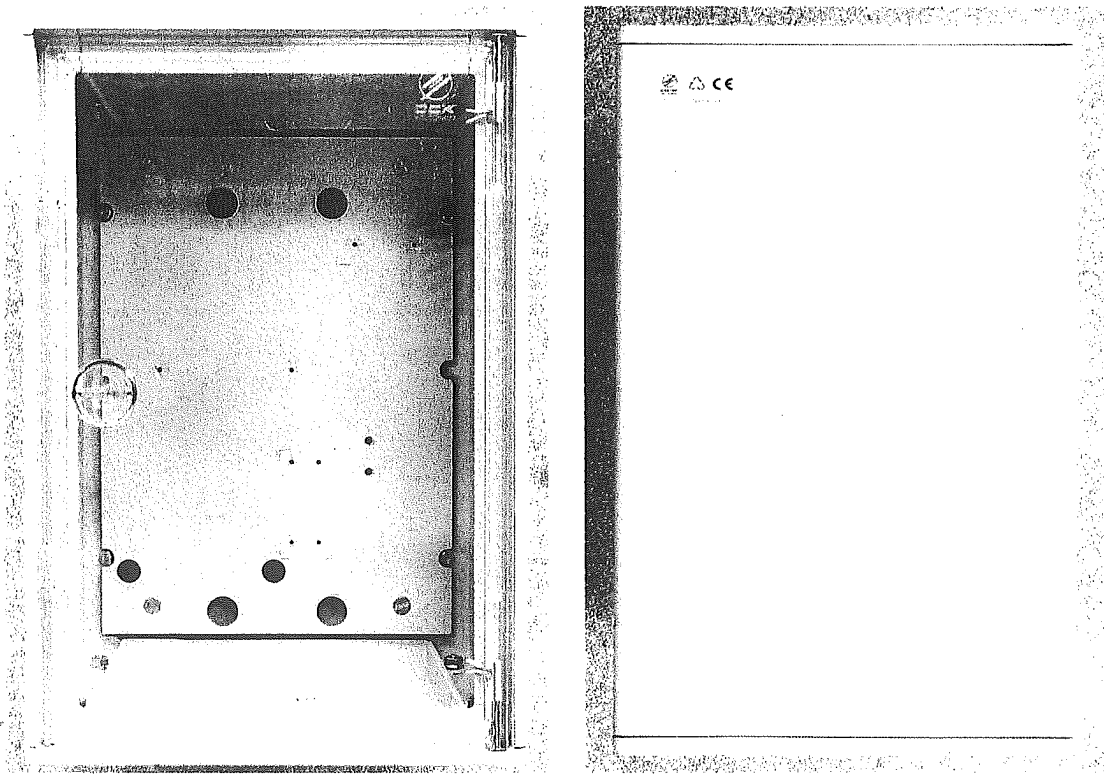


Fig. 2 – The enclosure SS1/N + P . . .

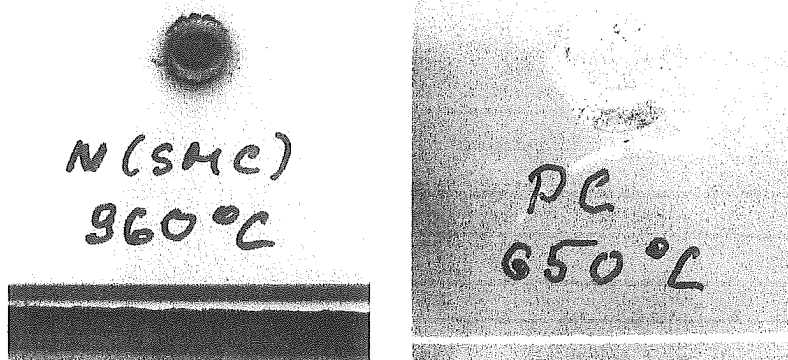


Fig. 3 – Glow-wire test

USED MEASURING INSTRUMENTS AND EQUIPMENT:

<u>The name, type</u>	<u>registration number</u>
Test a high voltage source TOS 5301	14519
Humidity chamber	552871
Electric furnace HS 202A	5844
Glow- wire test PTL 5090005 T 03.35	110195
Test metallic ball 2,0 kg	700729
Meter steel tape 5 m	400016
Set of weights 2,5 ÷ 20 kg	700088
Stopwatch Junso JS 6610	700263

на основании чл. 36а, ал. 3 от
ЗОП

Tested by: Ing. Vladimír Řehořek

Date: 6. 3. 2019

Ověření - vidimace
Ověřuji, že tento opis složený z listů
doslovně souhlasí s listinou, z níž byl pořizen,
složenou z listů.
29-03-2019

на основании чл. 36а, ал. 3 от
ЗОП

JUDr. Ladislava Řihovjá
notárka v Rokycanech

0210



JAO

EU DECLARATION OF CONFORMITY

No.: 2018-01-EN

Company name: **DCK HOLOUBKOV BOHEMIA a.s.**

Address: Holoubkov 336
Holoubkov
338 01
Czech Republic

VAT: 00028941

Product: **EMPTY BOXES AND COLUMNS FOR LV SWITCHBOARDS**

Type: **SP, SS, SR, SD, SE, SV, ER, ES, EP, RVO, STR, ZS, NR, NS, NP, RPO, SB, RP, APZ, DIN, PP, KD (see Annex)**

Nominal rating: 1000V AC / 1500V DC, standard IP44 (IP54), IK10,
material SMC (material version N, N-C, DIN)

Using: Empty boxes and columns are designed for assembly LV switchboards up to 1000V AC / 1500V DC, for installation and use in indoor and outdoor environments, they are stable design with fixed parts of the construction.

The above described object of the declaration is in conformity with the relevant harmonization legislation of the European Union:

- Directive of the European Parliament and of the Council 2014/30/EU date of issue 26.2.2014
- Directive of the European Parliament and of the Council 2014/35/EU date of issue 26.2.2014

The above described object of the declaration is in conformity with the legislation of the Czech Republic:

- Government regulations No. 117/2016 coll. date of issue 30.3.2016
- Government regulations No. 118/2016 coll. date of issue 30.3.2016

References to the relevant harmonized standards and technical specifications under which is this conformity declared:

- ČSN EN 62208 ed.2 : 2012

EZÚ - Elektrotechnický zkušební ústav s.p. (Pod Lisem 129, 171 02 Praha 8, CZ) tested, certified the product and issued:

- EZÚ certificate no. 1180481 date of issue 3.7.2018
- EZÚ test report no. 801456-01/01 date of issue 4.6.2018

This Declaration of Conformity is issued on responsibility of the manufacturer.

This Declaration of Conformity is issued pursuant to law No. 90/2016 Coll.

The product is safe within the range of recommended usage.

The conformity with technical documentation and basic requirements is provided by means of QMS according to ČSN EN ISO 9001.

place of issue: Holoubkov

name: Lang Jiří

date of issue: 10.7.2018

funkce position: head of electrical and assembly department

signature: на основании чл. 36а, ап. 3 от
ЗОП

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DCK HOLOUBKOV BOHEMIA, a.s.
IČO: 000 28 941, DIČ: CZ00028941
Tel.: 371 751 411-2 Fax: 371 751 413
sekretariát tel./fax: 371 751 422
E-mail: info@dck.cz

ВЕРНО С ОРГИНАЛА



EU DECLARATION OF CONFORMITY NO. 2018-01-EN - ANNEX NO.1

EMPTY BOXES AND COLUMNS FOR LV SWITCHBOARDS - MARKING:

1	2	3	4	5	6
SS	1	N	V	-	7
determination of the empty box and column	Size of the empty box and column	Type of material	Construction	Door closing of empty box	Specifications of the manufacturer
SP – SS – SR – SD – SV – ER – ES – EP – NR – NS – NP – RVO – STR – ZS – RPO – SB – RP – APZ – DIN – PP – KD –	00 – 0 – 1 – 2 – 3 – 11 – 12 – 21 – 22 – 23 – 32 – 33 –	N –	V – F – N – E – P – S – K – C – L – O –	1 – 2 – 3 – 4 – 5 – 6 – 7 – 8 – 9 –	- -C – -L – -DIN –
Marking according to PNE 35 7040 ed.3					

Explanatory notes:

Column	Code	Code description
1	SP	Connection switchboards for electricity network for connecting (Connection box for connecting)
	SS	Determination for loop connection switchboards for electricity network (loop connection boxes)
	SR	Determination for disconnection switchboards for electricity network (disconnection boxes)
	SD	Same size as the SR types, Determination for disconnection switchboards for electricity network (disconnection boxes) with split busbar
	SV	Same size as the SS types, Disconnection switchboards and pillars for electricity network for overhead line (disconnection boxes) for overhead line
	ER	Same size as the SS types, Determination for electricity meter switchboards
	ES	Same size as the SS types, Determination for electricity meter switchboards – arrangement next them
	EP	Same size as the SS types, Determination for electricity meter switchboards – arrangement over them
	NR	Same size as the SS, SR types, Determination for electricity meter switchboards (indirect measuring)
	NS	Same size as the SS, SR types, Determination for electricity meter switchboards (indirect measuring) – arrangement next them
	NP	Same size as the SS, SR types, Determination for electricity meter switchboards (indirect measuring) – arrangement over them
	RVO	Same size as the SS, SR types, Determination for public lighting switchboards
	STR	Same size as the SS types, Building site switchboards
	ZS	Same size as the SP, SS types, Socket switchboards
	RPO	Same size as the SS types, Determination for overvoltage protections switchboards
	SB	Same size as the SS types, Determination for loop connection switchboards for electricity network with overvoltage protections
	RP	Same size as the SS, SR types, Determination for switchboards with electrical devices
	APZ	Same size as the SS types, Determination for gas meter switchboards / cabinets (gas meter boxes), sign on the door - HUP
DIN	Size and dimension of empty box and column according to DIN 43629	
PP	column / pedestal	
KD	column / pedestal – terminal part (part above the ground)	
3	N	All-plastic type made of thermoset / thermosetting material (SMC – polyester)
	V	For installation in an alcove in the wall (the brick pillars) materials of the reaction to fire class A1 according to ČSN EN 13501-1 + A1
4	F	For installation in an alcove in the wall (the brick pillars) in the case of design material lining panels or her base construction product different from the reaction to fire class A1 according to ČSN EN 13501-1 + A1
	N	For wall mounting materials of the reaction to fire class A1 according to ČSN EN 13501-1 + A1
	E	For installation on a wall in cases of material design wall (base enclosure) different from the reaction to fire class A1 according to ČSN EN 13501-1 + A1
	P	For mounting on an pillar base
	S	For mounting on an electrical pole
	K	Compact column (compact finish of the box, terminal part and base part)
	C	Compact column (compact finish of the box, terminal part without base part)
5	L	Column (or column – terminal part) – 250mm
	O	Column (or column – terminal part) – 320mm
	1	Simple closing with locking system for the energetics field in accordance PN-DCK 01-2006 ed.2 and ČSN 35 9754 – appendix 1
	2	Three-point closing with locking system for the energetics field in accordance PN-DCK 01-2006 ed.2 and ČSN 35 9754 – appendix 1
	3	Sealing screw M6
	4	Dual closing (locking system for the energetics field in accordance PN-DCK 01-2006 ed.2 and ČSN 35 9754 – appendix 1 + locking system for the other field in accordance PN-DCK 01-2006 ed.2 and ČSN 35 9754 – appendix 2)
	5	Three-point closing with cylinder lock
	6	Simple closing with cylinder lock
	7	closing with the spinous key 6x6 mm in accordance with PN-DCK 01-2006 ed.2 and ČSN 35 9756
6	8	closing with the spinous key 6x6 mm in accordance with PN-DCK 01-2006 ed.2 and ČSN 35 9756 + Simple closing with locking system for the energetics field in accordance PN-DCK 01-2006 ed.2 and ČSN 35 9754 – appendix 1
	9	Special closing according to agreement with the owner/manufacturer
	-	Standard design of box
	-C	All-plastic monolit design of box
-L	Box with removable covering strip	
DIN	Size and dimension of empty box and column according to DIN 43629	

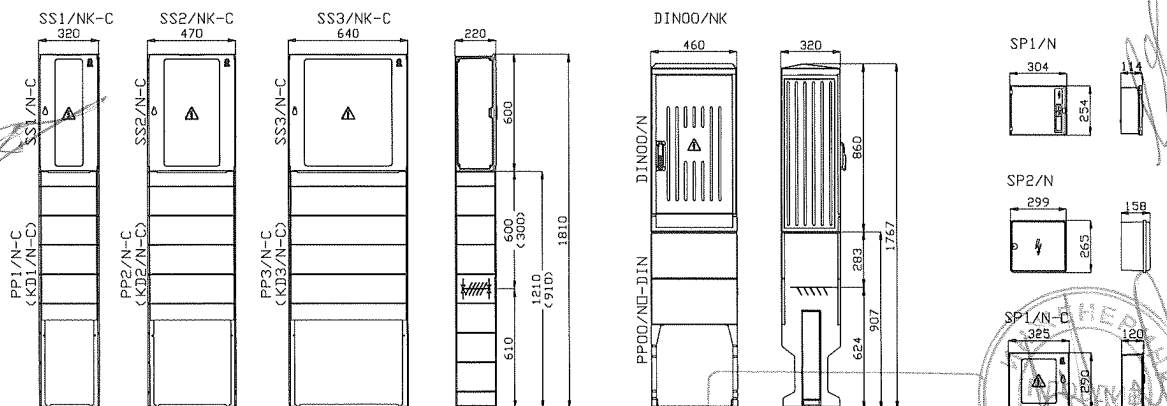
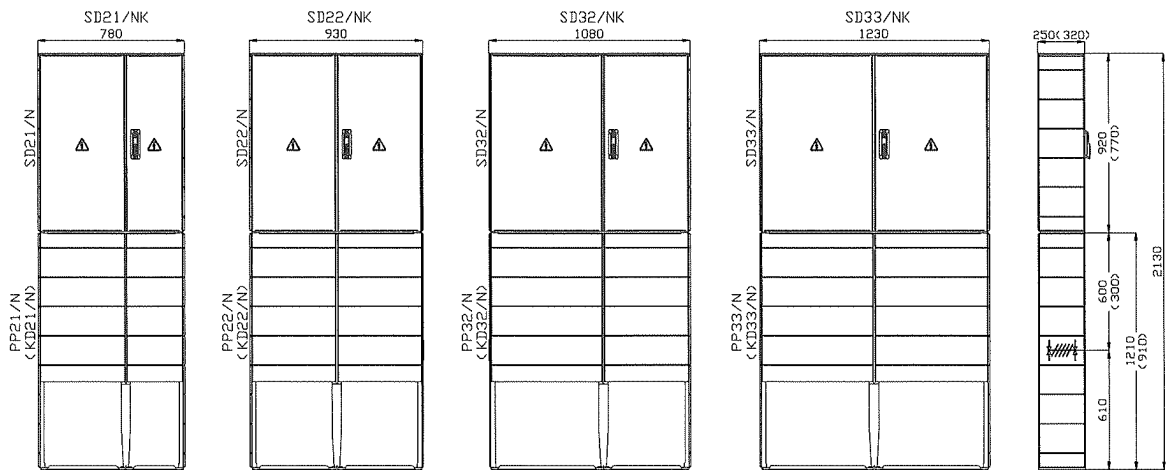
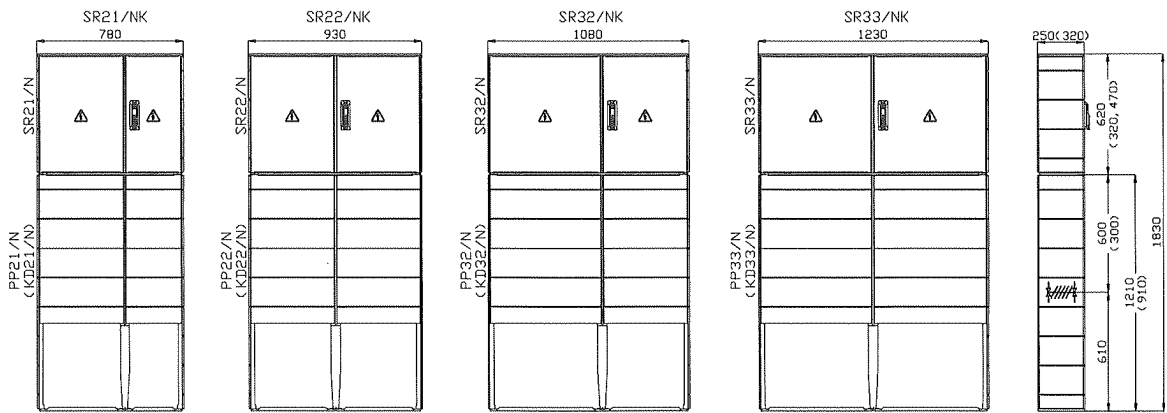
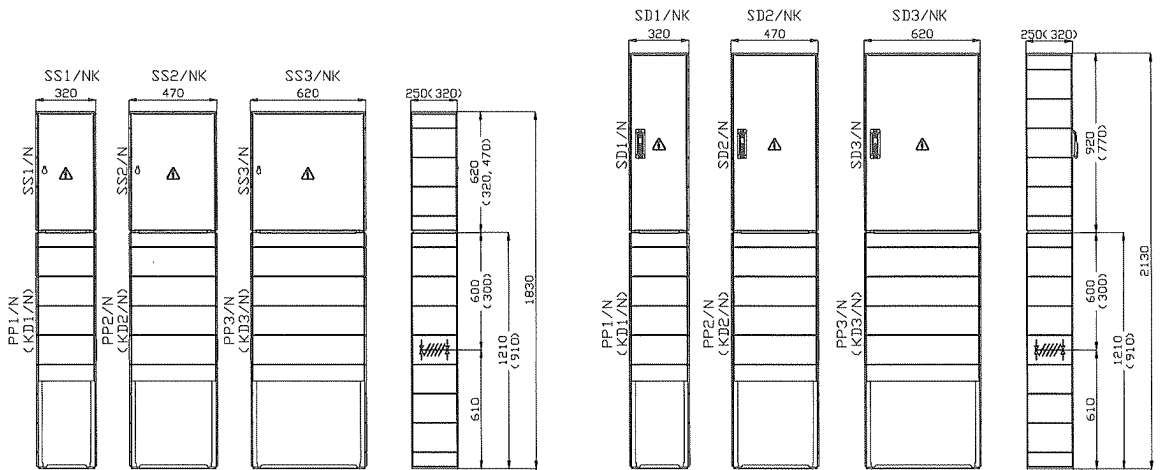
ВЯРНО С ОПРИГНАЛА



EU DECLARATION OF CONFORMITY NO. 2018-01-EN - ANNEX NO.2

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EMPTY BOXES AND COLUMNS FOR LV SWITCHBOARDS - DIMENSIONS:



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СЕРТИФИКАТ

СЕРТИФИКАТ

СЕРТИФИКАТ

EU ДЕКЛАРАЦИЯ ЗА СЪОТВЕТСТВИЕ

№.: 2018-01 -EN

Име на фирмата: DCK HOLOUBKOV VONEMIA a.s.

Адрес: Holoubkov 336
Holoubkov
338 01
Czech Republic

ДДС №: 00028941

Продукт: ПРАЗНИ КУТИИ И КОЛОНИ ЗА ТАБЛА НН

Тип: SP, SS, SR, SD, SE, SV, ER, ES, EP, RVO, STR, ZS, NR, NS, NP, RPO, SB, RP, APZ, DIN, PP,
KD (виж Приложението)

Номинално напрежение: 1000V AC / 1500V DC, стандарта IP44 (IP54), IK10,
материал SMC (версия на материала N, N-C, DIN)

Приложение: Празните кутии и колони са предназначени за монтаж на разпределителни табла НН до 1000V AC /
1500V DC, за монтаж и използване на закрито и открито, те имат стабилен дизайн с фиксирани
части на конструкцията.

Гореописаният предмет на декларацията е в съответствие с приложимото хармонизирано законодателство на Европейския
съюз:

- Директива на Европейския парламент и на Съвета 2014/30/ЕС, дата на издаване 26.2.2014
- Директива на Европейския парламент и на Съвета 2014/35/ЕС, дата на издаване 26.2.2014

Гореописаният предмет на декларацията е в съответствие със законодателството на Чешката република:

- Наредба № 117/2016, дата на издаване 30.3.2016 г.
- Наредба № 118/2016, дата на издаване 30.3.2016 г.

В съответствие с хармонизираните стандарти и технически спецификации, съгласно които се декларира това съответствие:

- CSN EN 62208 изд.2 : 2012

EZU - Elektrotechnicky zkusebni Ostav s.p. (Pod Lisem 129, 171 02 Praha 8, CZ) изпита, сертифицира продукта и издаде:

- EZU сертификат № 1180481 дата на издаване 03.7.2018
- EZU протокол за изпитване №. 801456-01/01 дата на издаване 04.6.2018

Тази декларация за съответствие се издава на отговорността на производителя.

Декларацията за съответствие се издава съгласно Закон № 90/2016

Продуктът е безопасен в рамките на препоръчителната употреба.

Съответствието с техническата документация и основните изисквания се осигурява чрез СУК съгласно CSN EN ISO 9001.

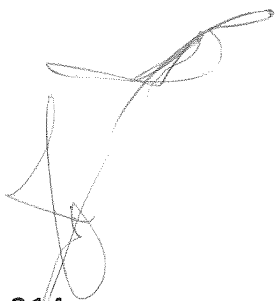
Място на издаване: Холоубков

име: Ланг Иржи

Дата на издаване: 10.7.2018

позиция: Ръководител отдел Електрически и монтаж

Подпис: (не се чете)



ВЯРНО С ОРИГИНАЛА

EU ДЕКЛАРАЦИЯ ЗА СЪОТВЕТСТВИЕ № 2018-01-EN – ПРИЛОЖЕНИЕ № 1

1	2	3	4	5	6
SS	1	N	V	7	
Означение на празната кутия и колона	Размер на празната кутия и колона	Тип на материала	Конструкция	Врата затваряща празната кутия	Спецификация на производителя
SP -	00 -	N -	V -	1 -	
SS -	0 -		F -	2 -	-C -
SR -	1 -		N -	3 -	-L -
SD -	2 -		E -	4 -	-DIN -
SV -	3 -		P -	5 -	
ER -	11 -		S -	6 -	
ES -	12 -		K -	7 -	
EP -	21 -		C -	8 -	
NR -	22 -			9 -	
NS -	23 -		L -		
NP -	32 -		O -		
RVO -	33 -				
STR -					
ZS -					
RPO -					
SB -					

Маркировка съгласно PNE 35 7040 изд.3

ПРАЗНИ КУТИИ И КОЛОНИ ЗА ТАБЛА НН - МАРКИРОВКА:

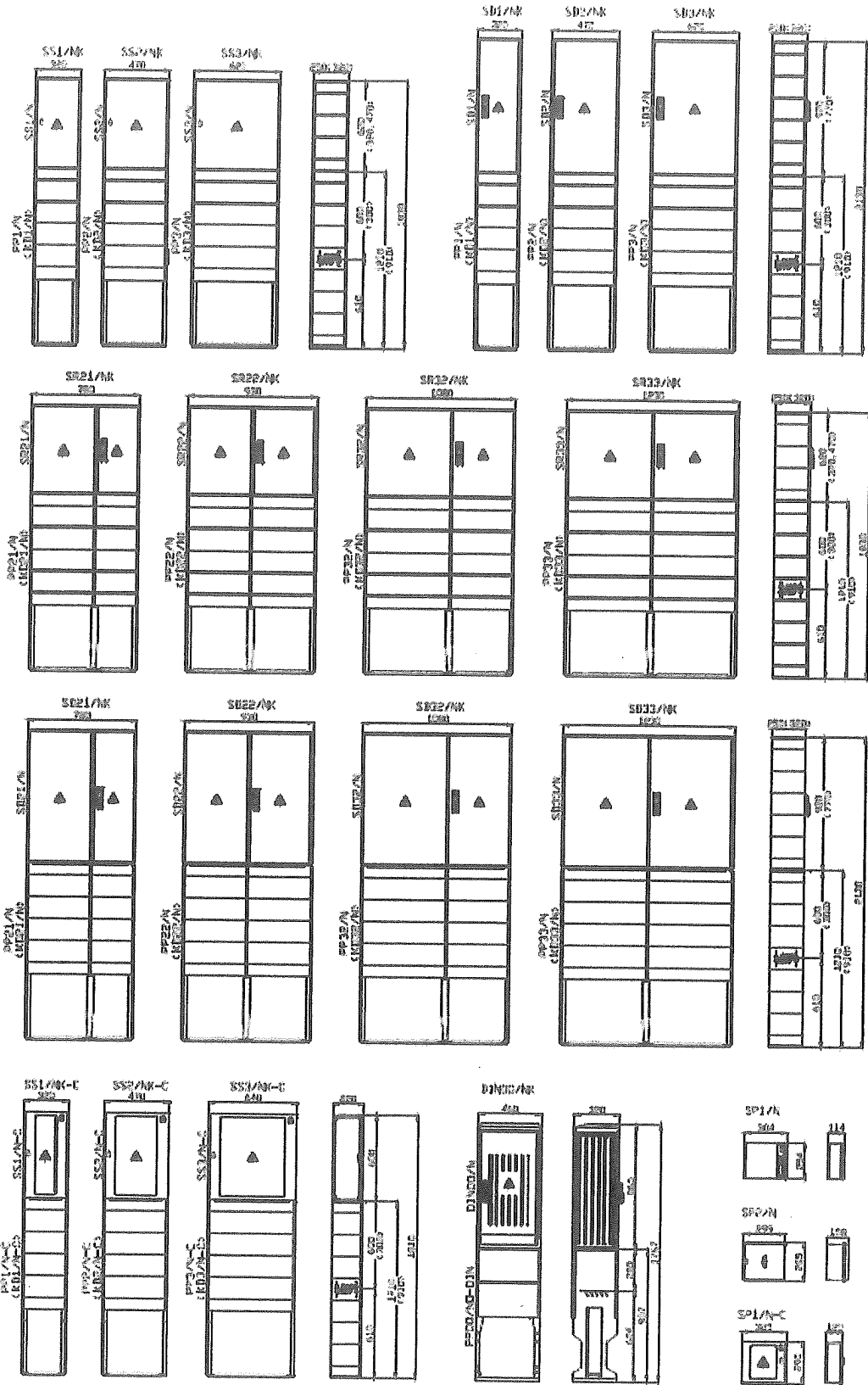
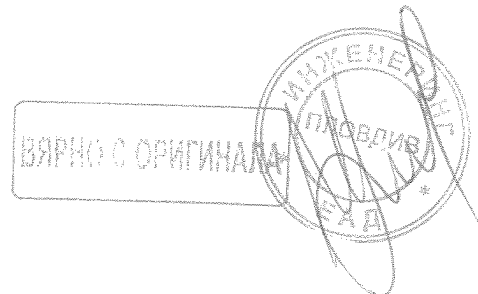
Обяснителни записки:

Колона	Код	Описание на кода
	SP	Свързващи табла за електрическа мрежа (свързваща кутия)
	SS	Разпределителни табла за електрическа мрежа (свързващи кутии)
	SR	Разпределителни табла за електрическа мрежа (разединителни кутии)
	SD	Същите размери като типовете SR, Означение за разединителни табла за електрическа мрежа (разединителни кутии) с разделена шина
	SV	Същите размери като тип SS, разединителни табла и стълбове за електрическа мрежа за въздушни линии (разединителни кутии) за въздушни линии
	ER	Същите размери като тези на SS, Означение за електромерни табла
	ES	Същият размер като типовете SS, Означение за електромерни табла - подреждане до тях
	EP	Същият размер като типовете SS, Означение за електромерни табла - подреждане над тях
	NR	Същите размери като SS, SR, Означение за електромерни табла (индиректно измерване)
	NS	Същите размери като SS, SR, Означение за електромерни табла (индиректно измерване) - подреждане до тях
	NP	Същите размери като SS, SR, Означение за електромерни табла (индиректно измерване) - подреждане над тях
	RVO	Същите размери като SS, SR, Означение за табла за улично осветление
	STR	Същите размери като SS, Ел. табла за строителството
	ZS	Същите размери като SP, SS, Комутационни табла
	RPO	Същите размери като SS, Означение за табла за защита от пренапрежение
	SB	Същите размери като SS, Означение за разпределителни табла за електрическа мрежа със защита от пренапрежение
	RP	Същите размери като SS, SR, Означение за табла с електрооборудване
	APZ	Същите размери като SS, Означение за газоразпределителни табла / шкафове (кутии за газомери), знак на вратата - HUP
	DIN	Размери на празна кутия и колона съгласно DIN 43629
	PP	Колона/цокъл
	KD	Колона/цокъл - крайната част (над земята)
3	N	Изцяло пластмасов тип от дуропласт / термореактивен материал (SMC - полиестер)
	V	За монтаж в ниша в стена (тухлени стълбове) материали от клас A1 за пожароустойчивост, съгласно CSN EN 13501-1 + A1
	F	За монтаж в ниша в стена (тухлени стълбове) в случай на облицовъчни панели от дизайнерски материали или основен строителен продукт, различен от клас A1 за пожароустойчивост, съгласно CSN EN 13501-1 + A1
	N	За стенов монтаж към материали от клас A1 за пожароустойчивост, съгласно CSN EN 13501-1 + A1
	E	За монтаж на стена в случай на различен материал (основна обвивка), от клас A1 за пожароустойчивост, съгласно CSN EN 13501-1 +
	P	За монтаж на основата на колоната
	S	За монтаж на електрически стълб
	K	Компактна колона (компактно покритие на кутията, крайна и основна част)
	C	Компактна колона (компактно покритие на кутията, крайна част без основна част)
	L	Колона (или колона- крайна част) - 250mm
	O	Колона (или колона- крайна част) - 320mm
5	1	Лесно затваряне със система за заключване в енергетиката в съответствие с PN-DCK 01 -2006 изд. 2 и CSN 35 9754 - приложение 1
	2	Триточково затваряне със заключваща система в енергетиката в съответствие с PN-DCK 01 -2006 изд. 2 и CSN 35 9754 - приложение 1
	3	Уплътнителен винт M6
	4	Двойно затваряне (система за заключване в енергетиката в съответствие с PN-DCK 01 -2006 изд. 2 и CSN 35 9754 - приложение 1 + заключваща система за другото поле в съответствие на PN-DCK 01 -2006 изд. 2 и CSN 35 9754 - приложение 2)
	5	Триточково затваряне с цилиндрична брава
	6	Лесно затваряне с цилиндрична брава
	7	Затваряне със зъбен ключ 6x6 mm в съответствие с PN-DCK 01 -2006 изд. 2 и CSN 35 9756
	8	Затваряне с шпонков ключ 6x6 mm в съответствие с PN-DCK 01 -2006 изд. 2 и CSN 35 9756 + Лесно затваряне със система за заключване в енергетиката в съответствие с PN-DCK 01 -2006 изд. 2 и CSN 35 9754 - приложение 1
	9	Специално затваряне по споразумение със собственика / производителя
6		Стандартна конструкция на кутията
	- C	Изцяло пластмасов монолитен дизайн на кутия
	- L	Кутия с подвижна покриваща лента
	DIN	Размери на празна кутия и колона съгласно DIN 43629

ВЯРНО С ОРИГИНАЛА



ЕУ ДЕКЛАРАЦИЯ ЗА СЪОТВЕТСТВИЕ № 2018-01-EN – ПРИЛОЖЕНИЕ № 2
 ПРАЗНИ КУТИИ И КОЛОНИ ЗА ТАБЛА НН – РАЗМЕРИ:



EU DECLARATION OF CONFORMITY

No.: 2019-01-EN

Company name: **DCK HOLOUBKOV BOHEMIA a.s.**

Address: Holoubkov 336
Holoubkov
338 01
Czech Republic

VAT: 00028941

Product: **EMPTY BOXES AND COLUMNS FOR LV SWITCHBOARDS**

Type: **SS**
PP, KD (see Annex)

Nominal rating: 1000V AC / 1500V DC, standard IP44, IK10,
material SMC+PC (material version N+P): box – SMC, door – PC

Using: Empty boxes and columns are designed for assembly LV switchboards up to 1000V AC / 1500V DC,
for installation and use in indoor and outdoor environments, they are stable design with fixed parts of
the construction.

The above described object of the declaration is in conformity with the relevant harmonization legislation of the European Union:

- Directive of the European Parliament and of the Council 2014/30/EU date of issue 26.2.2014
- Directive of the European Parliament and of the Council 2014/35/EU date of issue 26.2.2014

The above described object of the declaration is in conformity with the legislation of the Czech Republic:

- Government regulations No. 117/2016 coll. date of issue 30.3.2016
- Government regulations No. 118/2016 coll. date of issue 30.3.2016

References to the relevant harmonized standards and technical specifications under which is this conformity declared:

- ČSN EN 62208 ed.2 : 2012

EZÚ - Elektrotechnický zkušební ústav s.p. (Pod Lisem 129, 171 02 Praha 8, CZ) tested, certified the product and issued:

- EZÚ certificate no. 1190150 date of issue 11.3.2019
- EZÚ test report no. 910567-01/01 date of issue 6.3.2019

This Declaration of Conformity is issued on responsibility of the manufacturer.

This Declaration of Conformity is issued pursuant to law No. 90/2016 Coll.

The product is safe within the range of recommended usage.

The conformity with technical documentation and basic requirements is provided by means of QMS according to ČSN EN ISO 9001.

place of issue: Holoubkov

name: Lang Jiří

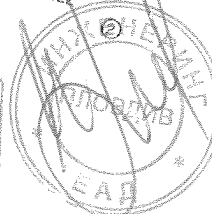
date of issue: 12.3.2019

funkce position: head of electrical and assembly department

signature:

DCK - HOLOUBKOV BOHEMIA, a.s.
338 01 Holoubkov
IČO: 000 28 941, DIČ: CZ00028941
Tel.: 371 751 411-2 Fax: 371 751 413
sekretariát tel./fax: 371 751 422
E-mail: info@dck.cz

ВЕРНО С ОРИГИНАЛА



EU DECLARATION OF CONFORMITY NO. 2019-01-EN - ANNEX NO.1

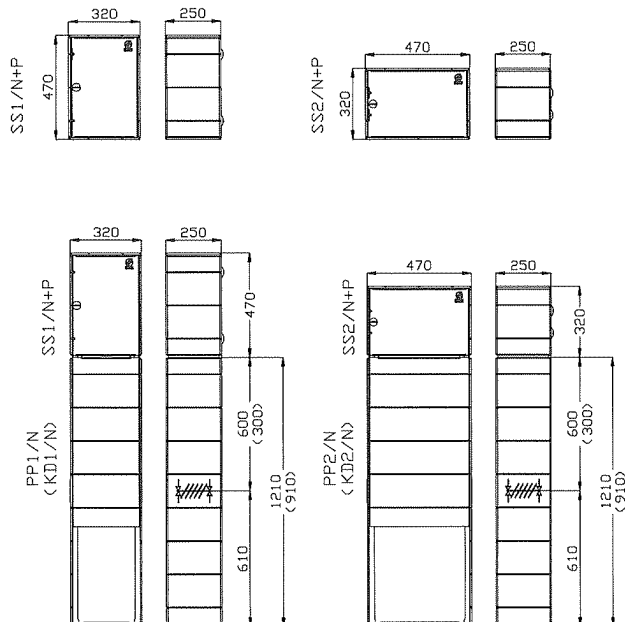
EMPTY BOXES AND COLUMNS FOR LV SWITCHBOARDS - MARKING:

1	2	3	4	5	6
SS	1	N+P	N	-	v450
determination of the empty box and column	Size of the empty box and column	Type of material	Construction	Door closing of empty box	Specifications of the manufacturer
SS PP KD	1 2	N+P	V F N E P S K C L	3 6 9	- - v300 - v450 - v900
Marking according to PNE 35 7040 ed.3					

Explanatory notes:

Column	Code	Code description
1	SS	Determination for loop connection switchboards for electricity network (loop connection boxes), Determination for electricity meter switchboards
	PP	column / pedestal
	KD	column / pedestal – terminal part (part above the ground)
3	N+P	All-plastic type made of thermoset / thermosetting material (SMC – polyester) and polycarbonate: box – SMC, door – PC
4	V	For installation in an alcove in the wall (the brick pillars) materials of the reaction to fire class A1 according to ČSN EN 13501-1 + A1
	F	For installation in an alcove in the wall (the brick pillars) in the case of design material lining panels or her base construction product different from the reaction to fire class A1 according to ČSN EN 13501-1 + A1
	N	For wall mounting materials of the reaction to fire class A1 according to ČSN EN 13501-1 + A1
	E	For installation on a wall in cases of material design wall (base enclosure) different from the reaction to fire class A1 according to ČSN EN 13501-1 + A1
	P	For mounting on an pillar base
	S	For mounting on an electrical pole
	K	Compact column (compact finish of the box, terminal part and base part)
5	C	Compact column (compact finish of the box, terminal part without base part)
	L	Column (or column – terminal part) – 250mm
	3	Sealing screw M6
	6	Simple closing with cylinder lock
6	9	Special closing according to agreement with the owner/manufacturer
	-	Standard design of box
	v300	Box – height of door 300mm
	v450	Box – height of door 300mm
	v900	Column – height of sidepart 900mm

EMPTY BOXES AND COLUMNS FOR LV SWITCHBOARDS - DIMENSIONS:




EU ДЕКЛАРАЦИЯ ЗА СЪОТВЕТСТВИЕ

№.: 2019-01 -EN

Име на фирмата: **DCK HOLOUBKOV BOHEMIA a.s.**

Адрес: Holoubkov 336
Holoubkov
338 01
Czech Republic

ДДС №: 00028941

Продукт: **ПРАЗНИ КУТИИ И КОЛОНИ ЗА ТАБЛА НН**

Материал: **SS**

PP, KD (виж Приложението)

Номинално напрежение: 1000V AC / 1500V DC, стандарта IP44, IK10,
материал SMC (версия на материала N+P) кутия - SMC, врата - PC

Приложение: Празните кутии и колони са предназначени за монтаж на табла НН до 1000V AC / 1500V DC, за монтаж и използване на закрито и открито, те имат стабилен дизайн с фиксирани части на конструкцията.

Гореописаният предмет на декларацията е в съответствие с приложимото хармонизирано законодателство на Европейския съюз:

- Директива на Европейския парламент и на Съвета 2014/30/ЕС, дата на издаване 26.2.2014
- Директива на Европейския парламент и на Съвета 2014/35/ЕС, дата на издаване 26.2.2014

Гореописаният предмет на декларацията е в съответствие със законодателството на Чешката република:

- Наредба № 117/2016, дата на издаване 30.3.2016 г.
- Наредба № 118/2016, дата на издаване 30.3.2016 г.

В съответствие с хармонизираните стандарти и технически спецификации, съгласно които се декларира това съответствие:

- CSN EN 62208 изд.2 : 2012

EZU - Elektrotechnicky zkusebni Ostav s.p. (Pod Lisem 129, 171 02 Praha 8, CZ) изпита, сертифицира продукта и издаде:

- EZU сертификат № 1190150 дата на издаване 11.3.2019
- EZU протокол за изпитване №. 910567-01/01 дата на издаване 06.3.2019

Тази декларация за съответствие се издава на отговорността на производителя.

Декларацията за съответствие се издава съгласно Закон № 90/2016

Продуктът е безопасен в рамките на препоръчителната употреба.

Съответствието с техническата документация и основните изисквания се осигурява чрез СУК съгласно CSN EN ISO 9001.

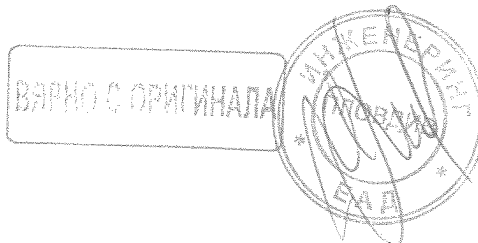
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Подпис: (не се чете)



ЕУ ДЕКЛАРАЦИЯ ЗА СЪОТВЕТСТВИЕ № 2019-01-EN – ПРИЛОЖЕНИЕ № 1
ПРАЗНИ КУТИИ И КОЛОНИ ЗА ТАБЛА НН - МАРКИРОВКА:

1	2	3	4	5	6
SS	1	N+P	N	-	3
Означение на празната кутия и колона	Размер на празната кутия и колона	Тип на материала	Конструкция	Врата затваряща празната кутия	Спецификация на производителя
SS	1	N+P	V	3	-
	2		F	6	-v300
PP			N	9	-v450
KD			E		-v900
			P		
			S		
			K		
			C		
			L		
Маркировка съгласно PNE 35 7040 изд.3					

Обяснителни записки:

олоната	Код	Описание на кода
	SS	Означение за разпределителни табла за електрическа мрежа (свързващи кутии). Означение за електромерни табла.
	PP	Колоната/докъл
	KD	Колоната/докъл - крайната част (над земята)
3	N+P	Изцяло пластмасов тип от дуропласт / термореактивен материал (SMC - полиестер) и поликарбонат: кутия SMC, врата - PC
4	V	За монтаж в ниша в стена (тухлени стълбове) материали от клас А1 за пожароустойчивост, съгласно ČSN EN 13501-1 + А1
	F	За монтаж в ниша в стена (тухлени стълбове) в случай на облицовъчни панели от дизайнерски материали или основен строителен продукт, различен от клас А1 за пожароустойчивост, съгласно ČSN EN 13501-1 + А1
	N	За стъпен монтаж към материали от клас А1 за пожароустойчивост, съгласно ČSN EN 13501-1 + А1
	E	За монтаж на стена в случай на различен материал (основна обвивка), от клас А1 за пожароустойчивост, съгласно ČSN EN 13501-1 +
	P	За монтаж на основата на колоната
	S	За монтаж на електрически стълб
	K	Компактна колона (компактно покритие на кутията, крайна и основна част)
	C	Компактна колона (компактно покритие на кутията, крайна част без основна част)
	L	Колоната (или колона - крайна част) - 250mm
6	3	Уплътнителен винт М6
	6	Лесно затваряне с цилиндрична брава
	9	Специално затваряне по споразумение със собственика / производителя
	-	Стандартна конструкция на кутията
	v300	Кутия – височина на вратата 300 мм
v450	Кутия – височина на вратата 450 мм	
v900	Колоната – височина на странична част 900 мм	

