
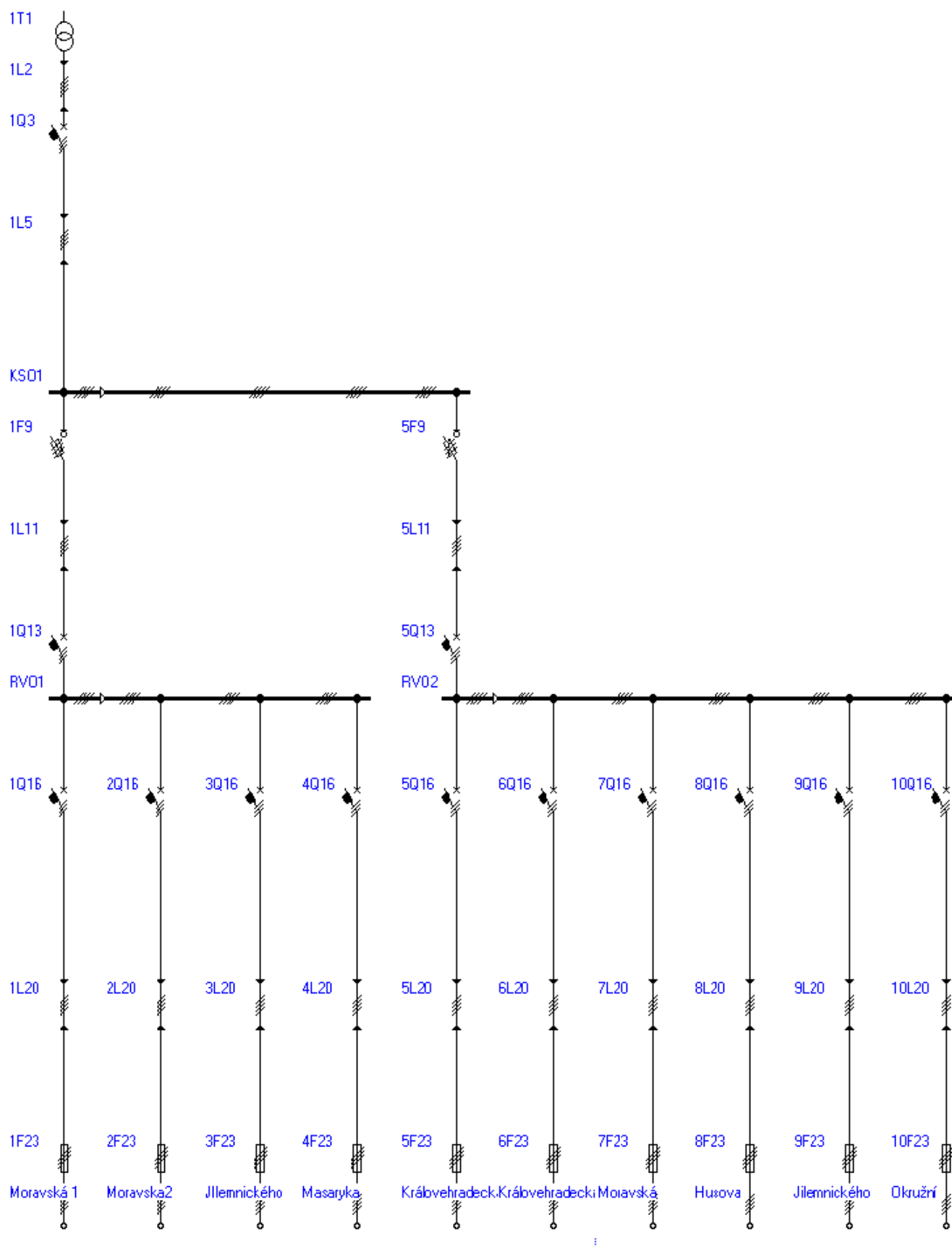


Souřadnicový systém S-JTSK, Výškový systém Bpv

Vypracoval: Ing. Petr Kortyš		Zodp. projektant: Ing. Petr Kortyš		Kontroloval: Ing. Petr Kortyš		<div><b>ELKOR</b> <b>ELEKTROPROJEKTY</b> <small>MAŘÁKOVA 1149, 570 01 LITOMYŠL E-MAIL: PROJEKTY@ELKOR.CZ</small></div>			
Kraj: Pardubický			Obec: Ústí nad Orlicí						
Objednavatel: TEPVOS, spol. s.r.o., Královehradecká 1566, 562 01 Ústí nad Orlicí									
<div>Rekonstrukce veřejného osvětlení ul. Moravská, Ústí nad Orlicí</div> <div>SO01 Veřejné osvětlení</div>									
						Formát		-	
						Datum		11/2024	
						Účel		DPS	
						Č. zakázky		2024/15	
Změna			Č. kopie						
Měřítko									
			-						
Obsah přílohy: Kontrolní výpočet impedanční smyčky						Část dokumentace D.1.1		Č. přílohy 19	



Zapojení	Přístroj	Poznámka
1T1	SGB DOTN 400H 22/0.40 In = 577 A Sr = 400 kVA Ik'' = 14.2 kA U2 = 231/400 V dU = 0.0 %	
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1Q3	3VA1112-4EE... (TM220) In = 125 A Ir = 125 A Icu = 36 kA Ir = 125 A ( 1.00x125 A ), li = 1250 A Zs(5s) = 324 mOhm, Ia = 712 A, R(50V/5s) = 70 mOhm	
1L5	1-CYKY4x70 Iz = 146 A tm = 86 °C (Ik'' = 11.6 kA) O.K. Zsv < Zs(5s) ( 27.1 mOhm < 324 mOhm, 2/3 Zs = 216 mOhm ) 5 m, (D) dU = 0.0 % I <sup>2</sup> t < k <sup>2</sup> S <sup>2</sup> io = 11.7 kA	
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1F9	PNA000qG In = 80 A Icc = 120 kA Připojeno pomocí 3NP112 Zs(5s) = 622 mOhm, Ia = 371 A, R(50V/5s) = 135 mOhm	
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RV01	Sběrnice B = 1 U = 400 V (Un · 0.0%) io = 4.37 kA	O.K. Zsv < Zs(5s) ( 120 mOhm < 650 mOhm, 2/3 Zs = 433 mOhm )
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Moravská 1	Vývod P = 100 W xB = 100 W cos fi = 0.95 I = 152 mA U = 400 V (Un · 0.1%) B = 1 io = 278 A	O.K. Zsv < Zs(0,4s) ( 2.26 Ohm < 6.93 Ohm, 2/3 Zs = 4.62 Ohm )

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1Q3	3VA1112-4EE... (TM220) In = 125 A Ir = 125 A Icu = 36 kA Ir = 125 A ( 1.00x125 A ), li = 1250 A Zs(5s) = 324 mOhm, Ia = 712 A, R(50V/5s) = 70 mOhm	
1L5	1-CYKY4x70 Iz = 146 A tm = 86 °C (Ik'' = 11.6 kA) O.K. Zsv < Zs(5s) ( 27.1 mOhm < 324 mOhm, 2/3 Zs = 216 mOhm ) 5 m, (D) dU = 0.0 % I <sup>2</sup> t < k <sup>2</sup> S <sup>2</sup> io = 11.7 kA	
KS01	Sběrnice B = 1 U = 400 V (Un · 0.0%) io = 11.7 kA	O.K. Zsv < Zs(5s) ( 27.1 mOhm < 324 mOhm, 2/3 Zs = 216 mOhm )
5F9	PNA000qG In = 80 A Icc = 120 kA Připojeno pomocí 3NP112 Zs(5s) = 622 mOhm, Ia = 371 A, R(50V/5s) = 135 mOhm	
5L11	1-AYKY 3x240+120 Iz = 222 A tm = 24 °C Ik'' = 2.49 kA O.K. Zsv < Zs(5s) ( 234 mOhm < 622 mOhm, 2/3 Zs = 415 mOhm ) 490 m, (D) dU = 0.0 % I <sup>2</sup> t < k <sup>2</sup> S <sup>2</sup> ip = 3.67 kA	
5Q13	3VA1163-3EE... (TM220) In = 63 A Ir = 63 A Icu = 25 kA Ir = 63 A ( 1.00x63 A ), li = 630 A Zs(5s) = 650 mOhm, Ia = 356 A, R(50V/5s) = 141 mOhm	
RV02	Sběrnice B = 1 U = 400 V (Un · 0.0%) Ik'' = 2.49 kA O.K. Zsv < Zs(5s) ( 235 mOhm < 650 mOhm, 2/3 Zs = 433 mOhm ) ip = 3.67 kA	
8Q16	LTN-20B In = 20 A Icc = 65 kA li = 90 A Zs(5s) = 2.31 Ohm, Ia = 100 A, R(50V/5s) = 499 mOhm	
8L20	CYKY4x16 Iz = 65 A tm = 21 °C Ik'' = 214 A O.K. Zsv < Zs(5s) ( 2.26 Ohm < 2.31 Ohm, 2/3 Zs = 1.54 Ohm ) 850 m, (D) dU = 0.1 % I <sup>2</sup> t < k <sup>2</sup> S <sup>2</sup> ip = 308 A	
8F23	PNA000qG In = 6 A I1 = 120 kA Připojeno pomocí SPF00 Zs(0,4s) = 6.93 Ohm, Ia = 33 A, R(50V/5s) = 1.99 Ohm	
Husova	Vývod P = 100 W xB = 100 W cos fi = 0.95 O.K. Zsv < Zs(0,4s) ( 2.25 Ohm < 6.93 Ohm, 2/3 Zs = 4.62 Ohm ) I = 152 mA U = 400 V (Un · 0.1%) B = 1 io = 279 A	

Zapojení	Přístroj	Poznámka
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KS01	Sběrnice B = 1 U = 400 V (Un · 0.0%) io = 11.7 kA	O.K. Zsv < Zs(5s) ( 27.1 mOhm < 324 mOhm, 2/3 Zs = 216 mOhm )
5F9	PNA000qG In = 80 A Icc = 120 kA Připojeno pomocí 3NP112 Zs(5s) = 622 mOhm, Ia = 371 A, R(50V/5s) = 135 mOhm	
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9Q16	LTN-20B In = 20 A Icc = 65 kA li = 90 A Zs(5s) = 2.31 Ohm, Ia = 100 A, R(50V/5s) = 499 mOhm	
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9F23	PNA000qG In = 6 A I1 = 120 kA Připojeno pomocí SPF00 Zs(0,4s) = 6.93 Ohm, Ia = 33 A, R(50V/5s) = 1.99 Ohm	
Jilemnického	Vývod P = 100 W xB = 100 W cos fi = 0.95 O.K. Zsv < Zs(0,4s) ( 2.25 Ohm < 6.93 Ohm, 2/3 Zs = 4.62 Ohm ) I = 152 mA U = 400 V (Un · 0.1%) B = 1 io = 279 A	

Zapojení	Přístroj	Poznámka
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KS01	Sběrnice B = 1 U = 400 V (Un · 0.0%) io = 11.7 kA	O.K. Zsv < Zs(5s) ( 27.1 mOhm < 324 mOhm, 2/3 Zs = 216 mOhm )
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Okružní	Vývod P = 100 W xB = 100 W cos fi = 0.95 O.K. Zsv < Zs(0,4s) ( 2.25 Ohm < 6.93 Ohm, 2/3 Zs = 4.62 Ohm ) I = 152 mA U = 400 V (Un · 0.1%) B = 1 io = 279 A	