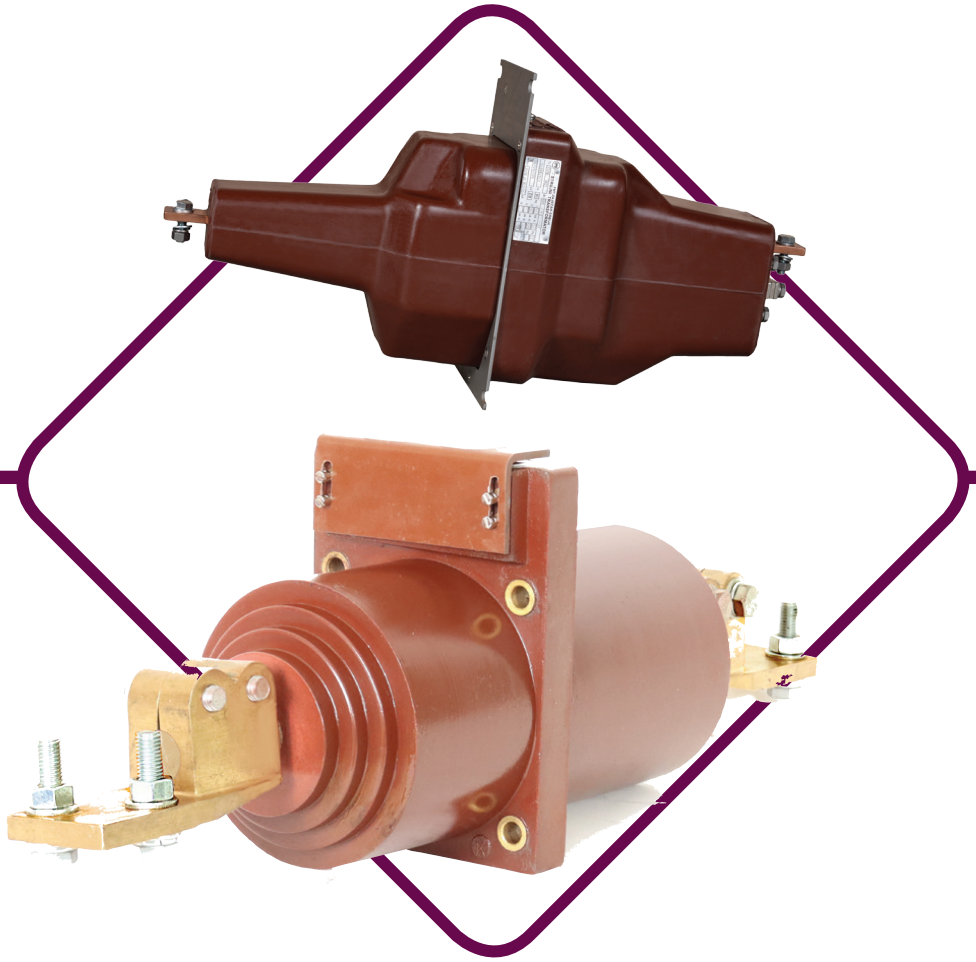
BUSHING MEDIUM-VOLTAGE CURRENT TRANSFORMERS



1969 ZAJEČAR FMT

MINEL FEPO 1956

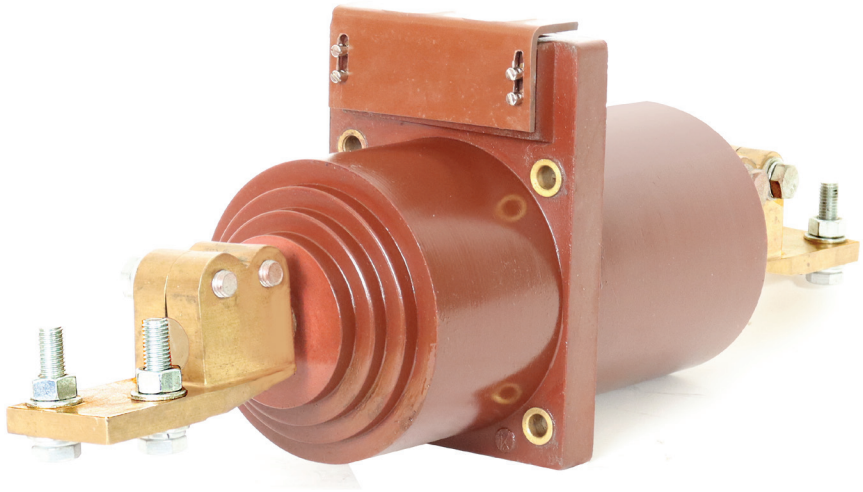
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BUSHING CURRENT TRANSFORMERS

STPN 12* STPN 24*, STPN 38* 23

STPM 12*, STPM 38* 25

STPN 12*, 24*, 38*



STPN 1220

CURRENT TRANSFORMER FOR INDOOR MOUNTING, BUSHING TYPE **STPN 12*, 24*, 38***

TECHNICAL DATA	STPN-12*	STPN-24*	STPN-38*
Rated primary voltage (kV)	10	20	35
Highest voltage for equipment (eff.) (kV)	12	24	38
Rated power-frequency withstand voltage, 1 min. (kV)	28	50	70
Rated impulse withstand voltage 1.2/50 μs (kV)	75	125	170
Rated frequency (Hz)	50/60		
Rated primary current (A)	50 to 4000		
Rated secondary current (A)	5 (or 1)		
Rated accuracy class	0,2; 0,5; 1; 3; 5P; 10P		
Rated thermal current 1 sec.	$I_{th} = (100\text{-}500)I_n$		
Rated dynamic current	$I_{dyn} = 2{,}5\ I_{th}$		
Rated continuous thermal current	$I_{cth} = 1{,}2\ I_n$		
Number of cores	1; 2; 3 or 4		
Rated core power (VA)	10; 15; 30		
Security factor / Accuracy limit factor	5; 10 / 5; 10; 15; 20; 30		
Temperature class of insulation	E/B		
Type of basic insulation	Epoxy resin		
Mass (kg)	~24	~38	~48
Valid standards	IEC 61869-1; IEC 61869-2		

NOTE:

Examples of denotation '*':
STPN 1210 – 10kV transformer, with single core,
STPN 2420 –20kV transformer, with two cores.
STPN 3820 –35kV transformer, with two cores.
This type of transformer is primarily non-switchable.

We manufacture these transformers as a standard product for short-time thermal current of 100In.

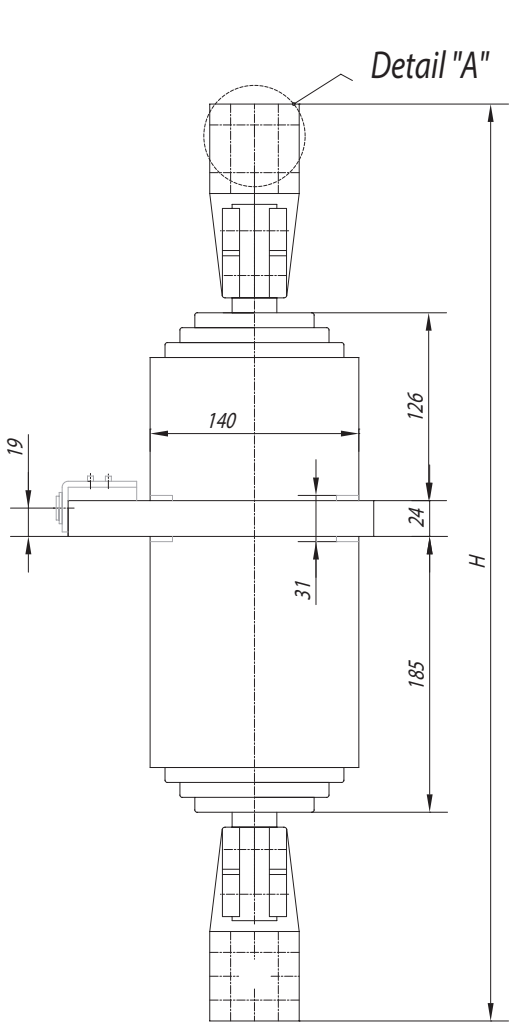
They have a measuring core of 15VA; cl.0.5FS5; and a protective core of 30VA cl.5P10.

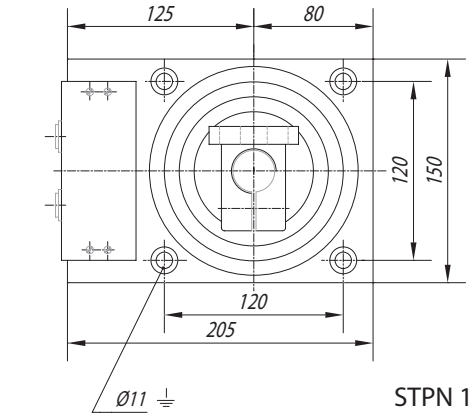
We can also make them for higher thermal currents depending on the transformation ratio, accuracy class and core power.

When ordering, please be sure to specify the transformation ratio, rated power, accuracy class, and the instrument safety factor (accuracy limit factor) for each core.

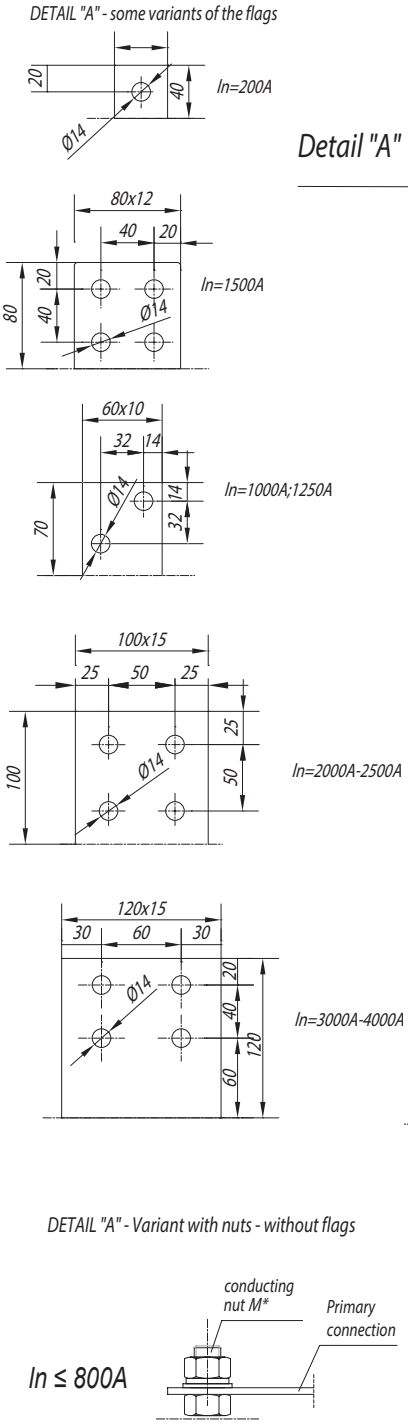
The right to make changes is reserved.

CONTENTS



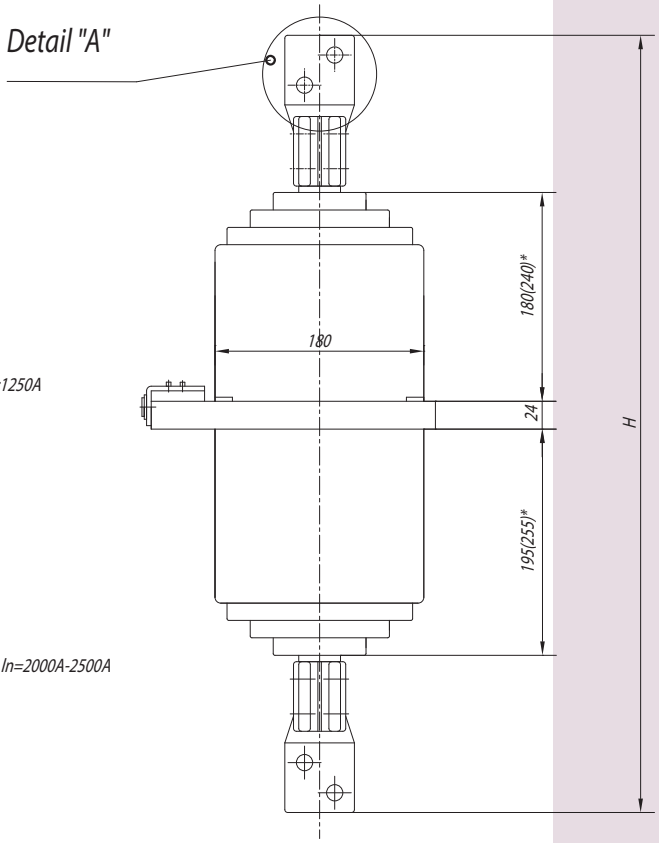


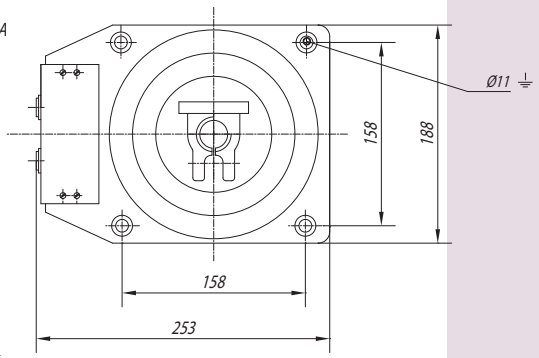
STPN 12*



DETAIL "A" - Variant with nuts - without flags

In ≤ 800A





STPN 24 (38*)

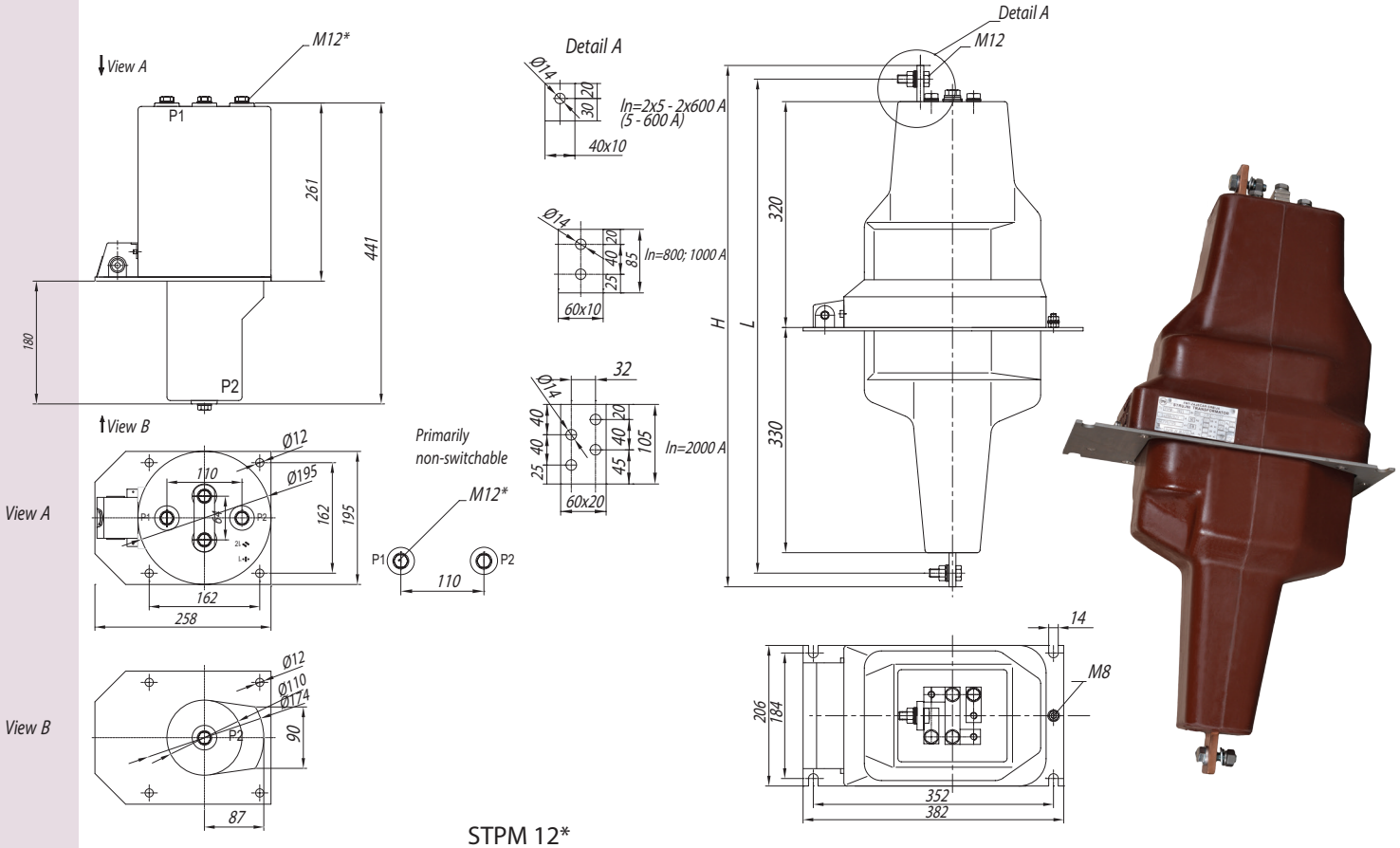
I_1 (A)	Thread of the flag	Primary conductor Cu (mm)	Lenght of the primary conductor (mm)			Total lenght together with the flags H (mm)		
			12kV	24kV	38kV	12kV	24kV	38kV
200-300	M16	Ø16	400	465	585	490	545	665
400-500	M20	Ø20	460	525	645	600	665	785
600-800	M24	Ø24	460	525	645	600	665	785
1000-1250	M30	Ø30	460	525	645	600	665	785
1500	M36	Ø36	480	545	665	660	725	845
2000	M40	Ø40	500	565	685	726	791	911
2500	M42	Ø42	500	565	685	726	791	911
3000-4000	M48	Ø48	500	565	685	760	825	945

Length of the primary conductor, as well as the dimension H, depend on the dimension of the flag, i.e. value of the primary current.

For primary currents up to 800 A it is possible to establish the connection with appropriate nuts without the flags.

CONTENTS

STPM 12*, 38*



* For In ≥ 300A - M16

CURRENT TRANSFORMER FOR INDOOR MOUNTING, BUSHING TYPE **STPM 12*, 38***

TECHNICAL DATA	STPM-12*	STPM-38*
Rated primary voltage (kV)	10	35
Highest voltage for equipment (eff.) (kV)	12	38
Rated power-frequency withstand voltage, 1 min. (kV)	28	70
Rated impulse withstand voltage 1.2/50 μs (kV)	75	170
Rated frequency (Hz)	50/60	
Rated primary current (A)	5 to 600 or 2x5 to 2x300	
Rated secondary current (A)	5 (or 1)	
Rated accuracy class	0,2; 0,5; 0,2S; 0,5S; 1; 3; 5P; 10P	
Rated thermal current 1 sec.	$I_{th} = (100\text{-}500)I_n$	
Rated dynamic current	$I_{dyn} = 2{,}5\ I_{th}$	
Rated continuous thermal current	$I_{cth} = 1{,}2\ I_n$	
Number of cores	1	1, 2, 3 or 4
Rated core power (VA)	5; 7,5; 10; 15; 30	
Security factor / Accuracy limit factor	5; 10 / 5; 10; 15; 20; 30	
Temperature class of insulation	E/B	
Possibility of sealing	On secondary side	
Type of basic insulation	Epoxy resin	
Mass (kg)	~23	~46
Valid standards	IEC 61869-1; IEC 61869-2	

Dimension of the transformer STPM 38:*

I1 (A)	Dimension (mm)	
	H	L
2x5 – 2x600 5 – 600	756	716
800 – 1000	830	790
2000-3000	870	830

NOTE:

Denotation examples:
STPM-1211, STPM-3821, STPM-3831 – transformer with one, two, or three cores; primarily switchable;
STPM-1210, STPM-3810, STPM-3820, STPM-3830 – transformer with one, two or three cores; primarily non-switchable.

We manufacture these transformers as a standard product for short-time thermal current of 100In.
STPM 12* - standardly with single measuring core of 15VA cl.0,5FS5. STPM 38* - standardly with two cores: measuring core of 15VA cl.0,5FS5, and protective core of 30VA cl.5P10.
We can manufacture them for higher thermal currents (up to 500In) and with 1, 3 or 4 cores, depending on the transformation ratio, rated power and accuracy class.

When ordering, please be sure to specify the transformation ratio, rated power, accuracy class, and the instrument safety factor (accuracy limit factor) for each core. The right to make changes is reserved

CONTENTS

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1969

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