

INSTRUMENT TRANSFORMERS



Exclusively Distributed by:
MONTRELEC INC.



**INSTRUMENT
TRANSFORMERS**

OPERATION CONDITIONS FOR CURRENT TRANSFORMERS

1. When the secondary terminals are connected to the measuring or protection devices, one of the terminals should be earthed for safety as seen in **FIGURE CT-1**
2. The secondary circuit of a current transformer must not be operated open-circuited
3. The secondary winding of a current transformer which will not be used must always be short-circuited and earthed as seen in **FIGURE CT-2**
4. For the transformer with reconnectable and/or tapped secondaries, unused terminals must be left open as seen in **FIGURE CT-3**
5. The current transformers which have capacitive divider tap (Ck) must be connected to the indicator. If the tap will not be used then it must be earthed as seen in **FIGURE CT-4**

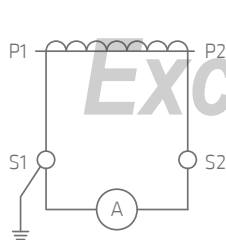


FIGURE CT-1

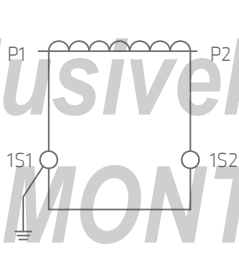


FIGURE CT-2

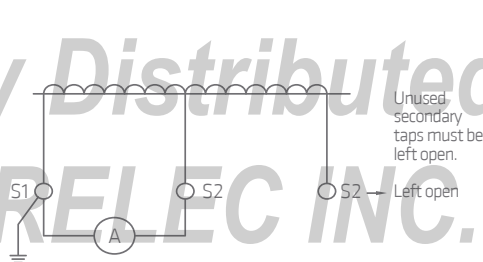


FIGURE CT-3

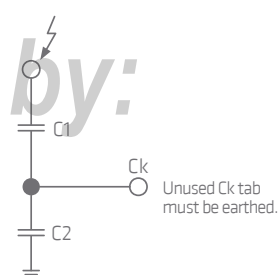


FIGURE CT-4

Test Voltages

Highest voltage for equipment U_m (r.m.s.)	Rated power-frequency withstand voltage (r.m.s.)	Rated lightning impulse withstand voltage (peak)
[kV]	[kV]	[kV]
12	28	75
17,5	38	95
24	50	125
36	70	170

INDOOR CURRENT TRANSFORMERS

SUPPORT TYPE CURRENT TRANSFORMERS



12 - 24 kV

Block Type Design

Standard: IEC 60044-1/6, VDE, ANSI, GOST

On request with capacitive layer

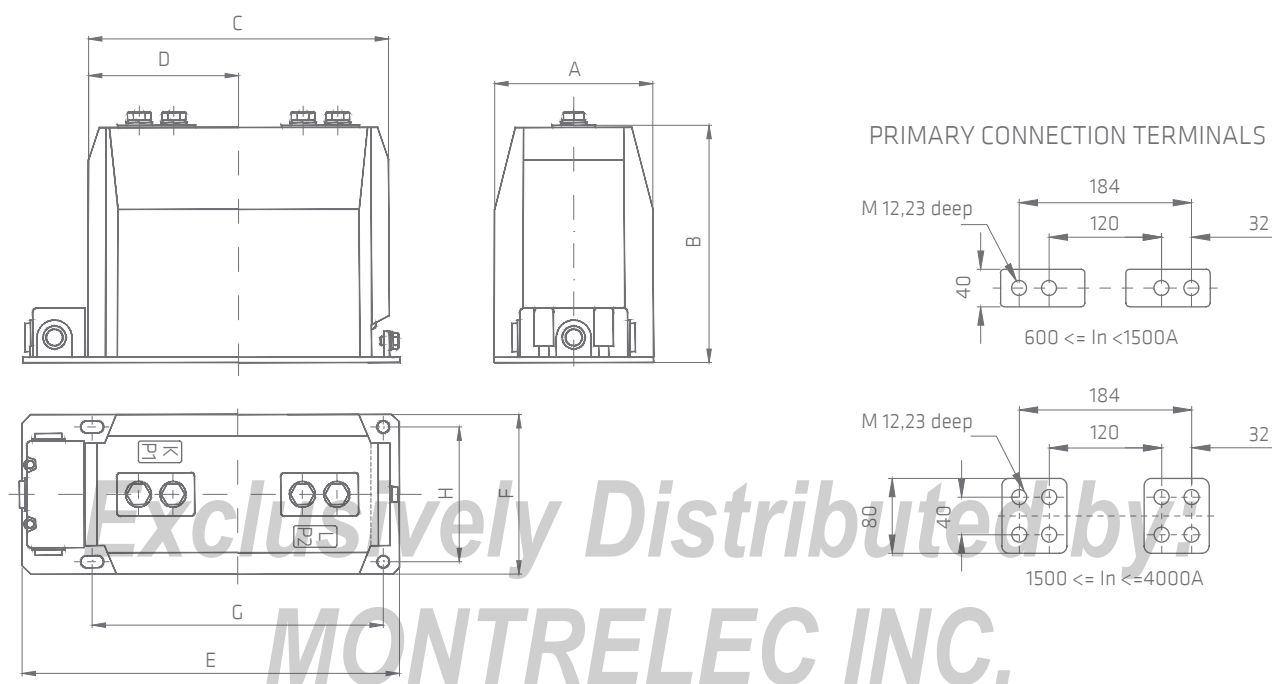
On request with barrier

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TECHNICAL DATA

Type		AB12	AB12-3	AB24	AB24-3
Rated data					
Operating voltage (maximum)	[kV]	12 - 17,5		24	
Test voltages	[kV]	28/75 - 38/95		50/125	
Rated frequency	[Hz]	50 or 60			
Maximum rated primary current	[A]	2500		4000 [I _{cont} 1 x I _n]	
Secondary rated current	[A]	1 or 5			
Rated short-time thermal current I _{th} [1s]	[kA]	max. 60 [1000 x I _n]			
Rated dynamic current I _{dyn}	[kA]	max. 120 [2,5 x I _{th}]			
Weight [approx.]	[kg]	22	35	33	48

DIMENSIONS



Type

AB12

AB12-3

AB24

AB24-3

Dimensions (mm)

A	148	148	178	178
B	220	220	280	280
C	280	380	290	400
D	140	140	140	140
E	350	467	355	482
F	148	148	178	178
G	270	370	280	390
H	125	125	150	150

Other specifications available on request

INDOOR CURRENT TRANSFORMERS

SUPPORT TYPE CURRENT TRANSFORMERS



36 kV

Block Type Design

Standard: IEC 60044-1/6, VDE, ANSI, GOST

On request with capacitive layer

On request with barrier

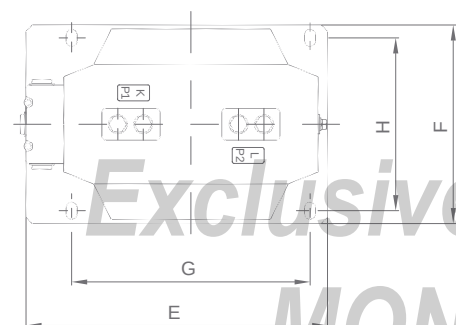
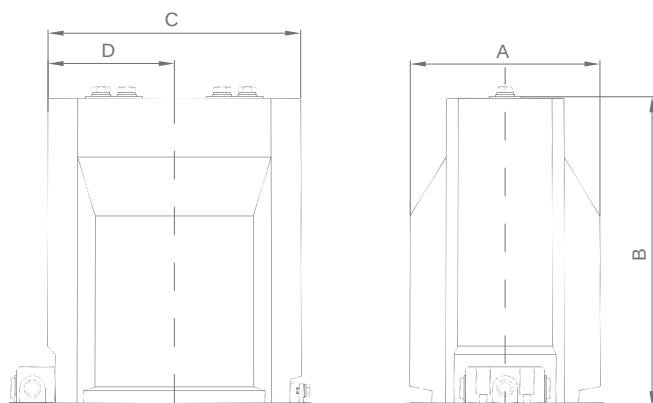
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TECHNICAL DATA

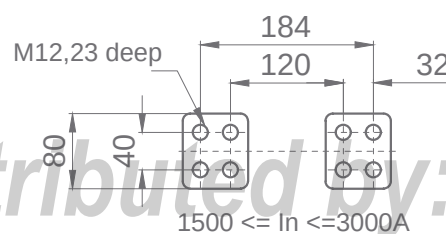
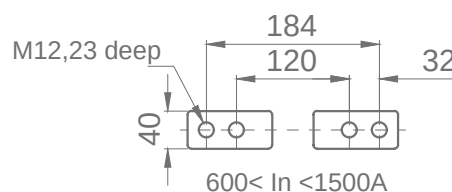
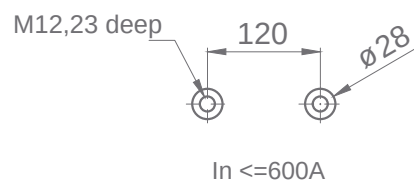
Type		AB36-1	AB36-3	AB36-T1	AB36-T3
Rated data					
Operating voltage (maximum)	[kV]	36			
Test voltages	[kV]	70/170			
Rated frequency	[Hz]	50 or 60			
Maximum rated primary current	[A]	3000			
Secondary rated current	[A]	1 or 5			
Rated short-time thermal current I_{th} [1s]	[kA]	max. 60 [max. 1000 x I_n]			
Rated dynamic current I_{dyn}	[kA]	max. 120 [2,5 x I_{th}]			
Weight [approx.]	[kg]	42	52	46	56

Other specifications available on request

DIMENSIONS



PRIMARY CONNECTION TERMINALS



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Type	AB36-1	AB36-3	AB36-T1	AB36-T3
Dimensions (mm)				
A	220	240	220	240
B	360	360	390	390
C	260	320	260	320
D	130	160	130	160
E	355	380	355	380
F	250	250	250	250
G	300	300	300	300
H	217,5	217,5	217,5	217,5

Other specifications available on request

INDOOR CURRENT TRANSFORMERS SUPPORT TYPE CURRENT TRANSFORMERS



24 - 36 kV

Standard: IEC 60044-1/6, VDE, ANSI, GOST

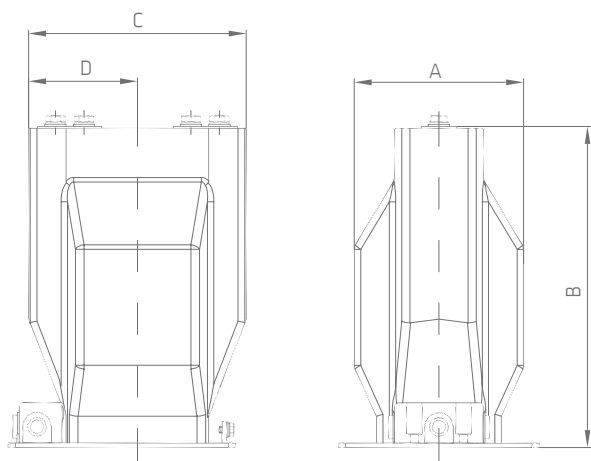
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TECHNICAL DATA

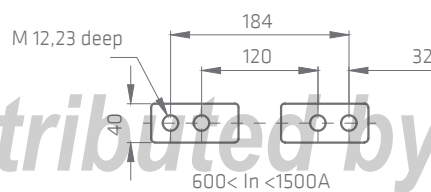
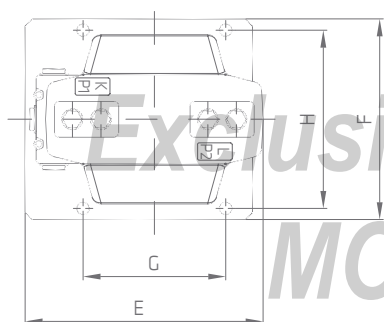
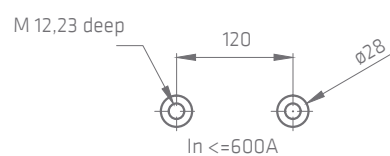
Type		AK24	AK36
Rated data			
Operating voltage (maximum)	[kV]	24	36
Test voltages	[kV]	50/125	70/170
Rated frequency	[Hz]	50 or 60	
Maximum rated primary current	[A]	1500	
Secondary rated current	[A]	1 or 5	
Rated short-time thermal current I_{th} [1s]	[kA]	max. 60 [max. 1000 x I_n]	
Rated dynamic current I_{dyn}	[kA]	max. 120 [2,5 x I_{th}]	
Weight [approx.]	[kg]	20	30

Other specifications available on request

DIMENSIONS



PRIMARY CONNECTION TERMINALS



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Type	AK24	AK36
Dimensions (mm)		
A	178	190
B	280	360
C	244	244
D	122	122
E	287	255
F	178	225
G	200	160
H	150	200