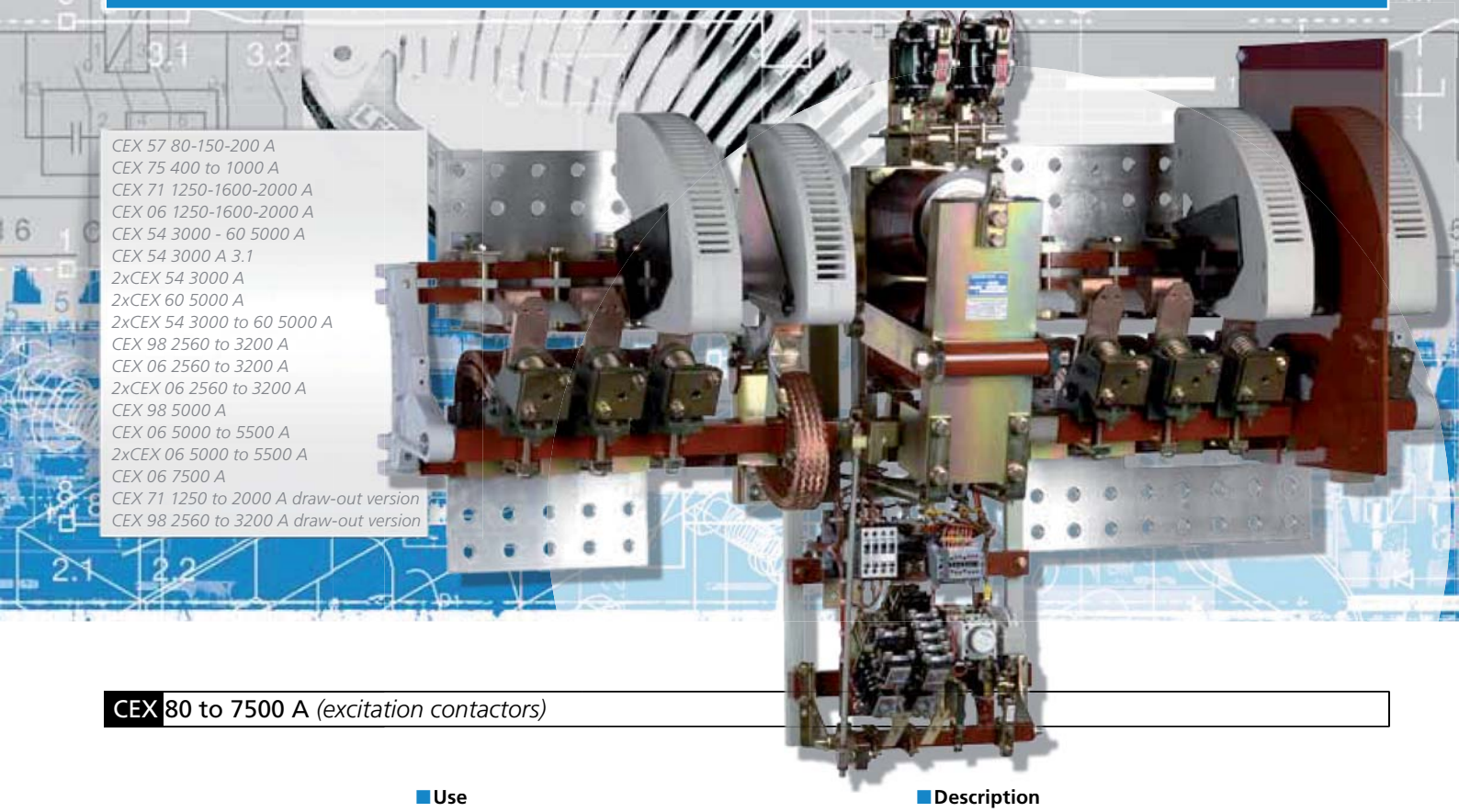
Excitation contactors from 80 to 7500 A

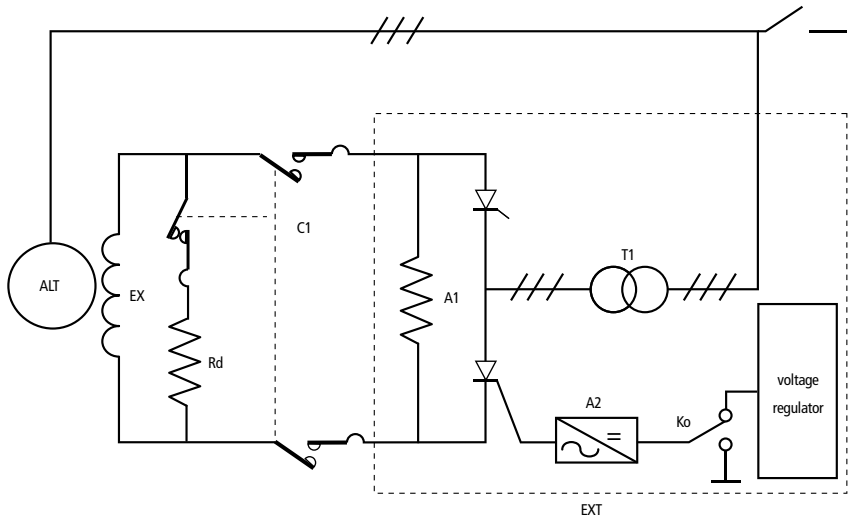


CEX 57 80-150-200 A
CEX 75 400 to 1000 A
CEX 71 1250-1600-2000 A
CEX 06 1250-1600-2000 A
CEX 54 3000 - 60 5000 A
CEX 54 3000 A 3.1
2xCEX 54 3000 A
2xCEX 60 5000 A
2xCEX 54 3000 to 60 5000 A
CEX 98 2560 to 3200 A
CEX 06 2560 to 3200 A
2xCEX 06 2560 to 3200 A
CEX 98 5000 A
CEX 06 5000 to 5500 A
2xCEX 06 5000 to 5500 A
CEX 06 7500 A
CEX 71 1250 to 2000 A draw-out version
CEX 98 2560 to 3200 A draw-out version

CEX 80 to 7500 A *(excitation contactors)*

Use

- Switching on and off the excitation circuit of a machine, inserting a discharge resistor at the inductor terminals at the breaking time.
- The drawing below represents the static excitation circuit of an alternator.



A1 *complete thyristor bridge*
A2 *thyristor starter*
ALT *alternator*
C1 *(field) circuit breaker*
EX *inductor.*
EXT *static excitation*
Ko *relay for regulation and release*
Rd *discharge resistor*
T1 *excitation transformer.*

Description

- Contactor poles with magnetic blow-out: silver alloy contacts for calibres 80 to 7500A or copper contacts (on request).
- 1 or 2 magnetic blow-out rupturing poles with overlapping with the contactor poles.
- 1 mechanical latching with single or double electrical release.
- Magnetic circuit for over-excited coil supplied with DC current:
  - **closing**: economy resistor for calibres 80 to 200A, delivered separately,
  - **opening**: one NO contact, connected in series with the coil, opens at the same time as the contactor.
- Auxiliary contacts:
  - **range 80 to 200A**: one M3 block type F1O2 - Y with one NC overlap contact inserting the resistor, one NO contact switching off the tripping coil and one NO contact, free for customer use,
  - **range 400 to 1000A**: two D type blocks, that is 2NO+2NC contacts available and one M3 block type F1O2 - Y with one overlap NC contact inserting the resistor, one NO contact switching-off the tripping coil and one contact free for customer use,
  - **range 1250 to 7500A**: one NC blow-out contact inserting the resistor, one M3 block type F1O2 - Z with one NO contact switching-off the tripping coil, 1NO+1NC contacts free for customer use.

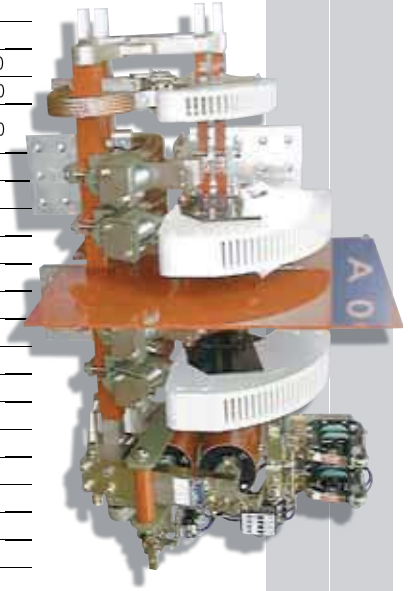
double CEX *(excitation contactors)*

Double CEX contactors (contactors for field supply) ranging from 80 to 1000A are equipped with a mechanical coupling whereas double CEX contactors ranging from 1250 to 7500A are equipped with a manual release system.

For a maximum pole switch-off voltage:
- from 80 to 200 A: 2000V,
- from 4000 to 1000 A: 2200V,
- from 1250 to 7500 A: 3000V.

Main characteristics

Contactor pole			80	150	200	400	500	630	800	1000	1250	1600	2000	2560	3000	3200	5000		5500		6200	7500
Generation			55/57	55/57	55/57	75	75	75	75	75	71	71	71	98/06	54	98/06	60	98/06	60	98/06	60	06
Thermal nominal current at 40°C		**A**	80	150	200	400	500	630	800	1000	1250	1600	2000	2560	3000	3200	5000	5000	5500		6200	7500
Connecting section		**mm²**	35	70	95	240	300	400	500	600	1000	1400	1600	1900	3000	3000	5000	5000	6000		7000	
Rated voltage																						
Single-pole or two-pole break		**V**	500	500	500	550	550	550	550	550	600	600	600	600	600	600	600	600	600	600	600	600
Three-pole break		**V**	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		1000		1000		1000
Four-pole break (2 two-pole breaks in series on each polarity		**V**	1400	1400	1400	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500
Dielectric test voltage 50 Hz rms value																						
Single-pole or two-pole break		**V**	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000
Three-pole break		**V**	6250	6250	6250	6250	6250	6250	6250	6250	6250	6250	6250	6250	6250	6250		6250		6250		6250
Four-pole break (2 two-pole breaks in series on each polarity		**V**	7500	7500	7500	7500	7500	7500	7500	7500	7500	7500	7500	7500	7500	7500	7500	7500	7500	7500	7500	7500
Short-time current, t ⩽ 40 °C																						
1 s		**kA**	1	1.75	2.5	10	12	14	24	26	41	30	43	43	36							
5 s		**kA**	0.5	0.8	1.15	4.5	5.75	6.5	11	12.5	20	15	30	21.6	16	43	25	50	27	52	31	74
10 s		**kA**	0.35	0.57	0.81	3.25	4	4.5	7.8	8.5	13.5	10.9	21	15.7	11.5	30	20	40	22	41	24.5	52
15 s		**kA**	0.3	0.51	0.7	2.7	3.4	3.8	6.5	7	11.8	8.7	17.9	12.5	9.5	25.7	15	36	16.5	37	18.5	44
30 s		**kA**	0.23	0.42	0.56	1.9	2.4	2.7	4.6	5	7.9	6	12	8.6	7	17.3	11	24	12	25	13.5	29
1 min		**kA**	0.19	0.31	0.43	1.4	1.78	2	3.3	3.65	5.5	4.5	8.5	6.5	5.4	12.2	8.5	17	9	17	10.5	21
3 min		**kA**	0.14	0.3	0.4	0.88	1.1	1.3	2	2.3	3.3	3	5	4.3	4	7.2	6.5	10	7	10	8	12
10 min		**kA**	0.12	0.26	0.35	0.62	0.79	92	1.38	1.6	2	2.2	3.2	3.1	3.3	4.6	5.6	6.5	6	6.7	6.9	7.9
Maximum switch-off voltage																						
Single-pole break		**V**	550	550	550	550	550	550	700	700	750	750	750	750	600	750	600	750	600	750	600	750
Two-pole break		**V**	1000	1000	1000	1100	1100	1100	1100	1100	1200	1200	1200		1200		1200		1200		1200	
Two-pole break with separator between poles		**V**							1400	1400	1500	1500	1500	1500		1500		1500		1500		1500
Three-pole break		**V**	1500	1500	1500	2000	2000	2000	2100	2100	2250	2250	2250	2250	1800	2250		2250		2250		2250
Four-pole break (2 two-pole breaks in series on each polarity		**V**	2000	2000	2000	2200	2200	2200	2800	2800	3000	3000	3000	3000	2400	3000	2400	3000	2400	3000	2400	3000
Pole dynamic withstand		**kA**				11	14	14	30	30	43	43	43	66		70		100		100		110
Breaking capacity at a given voltage with L/R=15ms																						
Single-pole break at	500 V	**kA**	0.5	1.4	3.5		8	8														
	550 V	**kA**				6	7	7	18	18	23	23	23	23	35	23	35	23	35	23	35	23
	700 V	**kA**									15	15	15	15		15		15		15		15
Two-pole break at	500 V	**kA**									32	32	32	32	55	32	55	32	55	32	55	32
	700 V	**kA**	0.5	1.4	3.5	6	10	10	17	17	23	23	23	23		23		23		23		23
	1000 V	**kA**	0.25	0.7	1.75	5	7	7	10	10	19	19	19	19	35	19	35	19	35	19	35	19
Two-pole break with separator between poles at	1400 V	**kA**							4.9	4.9												
	1500 V	**kA**									6.6	6.6	6.6	6.6		6.6		6.6		6.6		6.6
Three-pole break at	1000 V	**kA**				6	10	10	17	17	23	23	23	23	35	23	35	23	35	23	35	23
	1500 V	**kA**				5	7	7	10	10	19	19	19	19	24	19	24	19	24	19	24	19
	1800 V	**kA**				2	2.5	2.5	8	8	14	14	14	14	20	14	20	14	20	14	20	14
	2000 V	**kA**				1.5	2	2	6	6	8	8	8	8		8		8		8		8
Four-pole break at (2 two-pole breaks in series on each polarity)	1000 V	**kA**									30	30	30	30	55	30	55	30	55	30	55	30
	2000 V	**kA**	0.25	0.7	1.75	5	7	7	10	10	19	19	19	19	35	19	35	19	35	19	35	19
	3000 V	**kA**									5	5	5	5		5		5		5		5
2x three-pole break	2000 V	**kA**									23 (8)	23 (8)	23 (8)	23 (8)		23 (8)		23 (8)		23 (8)		23 (8)
	3000 V	**kA**									19 (8)	19 (8)	19 (8)	19 (8)		19 (8)		19 (8)		19 (8)		19 (8)
2 x four-pole break (2 two-pole breaks in series on each polarity	2000 V	**kA**									30 (8)	30 (8)	30 (8)	30 (8)		30 (8)		30 (8)		30 (8)		30 (8)
	3000 V	**kA**									21 (8)	21 (8)	21 (8)	21 (8)		21 (8)		21 (8)		21 (8)		21 (8)



Contactor pole			80	150	200	400	500	630	800	1000	1250	1600	2000	2560	3000	3200	5000	5500	6200	7500
Breaking capacity on short-circuit at a given voltage with L/R=2ms																				
Two-pole break with separator between poles at	700 V	kA				11	14	14			43	43	43	50		50		50				50
Three-pole break at	700 V	kA				11	14	14			43	43	43	60		65		70				70
Four-pole break at (2 two-pole breaks in series on each polarity)	700 V	kA				11	14	14			43	43	43	60		65		80				80
Average poles inductance		H				$3.3^{10\text{-}6}$	$1.9^{10\text{-}6}$	$1.9^{10\text{-}6}$			$2.94^{10\text{-}7}$	$2.38^{10\text{-}7}$	$2.82^{10\text{-}7}$									
Average poles resistance	cold	Ω									$5.25^{10\text{-}5}$	$7.19^{10\text{-}5}$	$4.01^{10\text{-}5}$									
	hot	Ω				$210^{10\text{-}6}$	$151^{10\text{-}6}$	$151^{10\text{-}6}$			$5.96^{10\text{-}5}$	$7.55^{10\text{-}5}$	$4.72^{10\text{-}5}$									$11.54^{10\text{-}6}$
Number of on-load breaking at In under Un before replacing the contacts			50 000	50 000	50 000	50 000	50 000	50 000	50 000	50 000	50 000	50 000	50 000	50 000	50 000	50 000	50 000	50 000	50 000	50 000	50 000	50 000
Pechanical endurance	millions of operations		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Rupturing pole																						
Rated current according to device type	CEX xx XXXX 1.1	A	80	80	150	400	400	400	400	400	500	500	500	500	800 (1)	500 (2)	800 (1)	500 (2)	800 (1)	500	800 (1)	1000
	CEX xx XXXX 2.1	A	80	80	150	400	400	400	400	400	500	500	500	500 (2)	800 (1)	500 (2)	800 (1)	800 (2)	800 (1)	800 (1)	800 (1)	800 (3)
	CEX xx XXXX 3.1	A	80	80	150	400	400	400	400	400	500	500	500	500 (2)	1000	500 (2)		500 (2)		500 (2)		1000
	CEX xx XXXX 4.2	A	80	80	150	400	400	400	400	400	500	500	500	800 (1)	800 (1)	800 (1)	800 (1)	800 (2)	800 (2)	800 (1)	800 (1)	800 (3)

Thermal nominal current	A	80	150	400	500	800	1000
Making capacity	kA	0.5	1.4	6	8	10	10
Allowable current during 15 s	kA	0.35	0.8	3.5	5	9.5	9.5
Allowable current during 0,5 s	kA	1	1.75	4.5	6.5	12	12
Resistive breaking capacity	kA	0.25	0.7	6	8	10	10

Control circuit																						
Standard voltage		V	24 - 48 - 110 - 125/127 - 220 - 250																			
Average consumption at 220Vdc																						
Closing circuit																						
Single-pole or two-pole break																						
inrush		W	43	43/77 (4)	77/195 (5)	600	600	600	870	870	1000	100	1000	3145	1000	3145	2600	1000	2600	1000	2600	2115
hold		W	43	43	43/74	35	35	35	75	75	46	46	46	225	66	225	145	88	145	88	145	150
Three-pole break																						
inrush		W	43	195 (5)	195 (5)	600	600/870 (6)	600/870 (6)	870	870	1600	160	1600	1000	1100	1000		2115		2115		
hold		W	43	74 (5)	74 (5)	35	35/75(6)	35/75 (6)	75	75	110	110	110	88	72	88		150		150		
Four-pole break																						
inrush		W	43 (3)	86	154	600	600/870 (6)	600/870 (6)	870	870	968 (7)	968 (7)	968 (7)	1000	2700	1000	4227	2115	4227	2115	4227	
hold		W	43 (3)	86	66	35	35/75 (6)	35/75 (6)	75	75	70 (7)	70 (7)	70 (7)	88	607	88	285	150	285	150	285	
Tripping circuit (mechanical latching with electrical release)																						
Average opening time		ms	25	25	25	50	50	50	50	50	60	60	60	90/60	60	90/60	60	90/60	60	90/60	60	90/60
Average closing time		ms	180	180	180	125	125	125	125	125	300	300	300	300	300	300	300	300	300	300	300	300
L/R constant rate of closed electromagnet		ms	140	140	140	40	40	40	40	40	40	40	40	40/50	50	40/50	50	40/50	50	40/50	50	40/50
Total break time		ms	50	50	50	70	70	70	70	70	85	85	85	90	85	90	85	90	85	90	85	90

(1) Two rupturing poles of 500 A to put in parallel in order to get 800 A.
(2) Rupturing pole calibre 1000 A in option.
(3) Two rupturing poles of 500 A to put in parallel in order to get 800A in option two 1000 A poles to put in parallèle in order to get 1600 A.
(4) With magnetic circuit type 63 power-saved.
(5) With magnetic circuit type 64 power-saved.
(6) With magnetic circuit type 18.
(7) With magnetic circuit type 3A.
(8) Estimation.

Control circuit: connection drawings, page 185.

fictitious temperature factor to apply to the power or to the controlled current according to the ambient temperature (around the device):

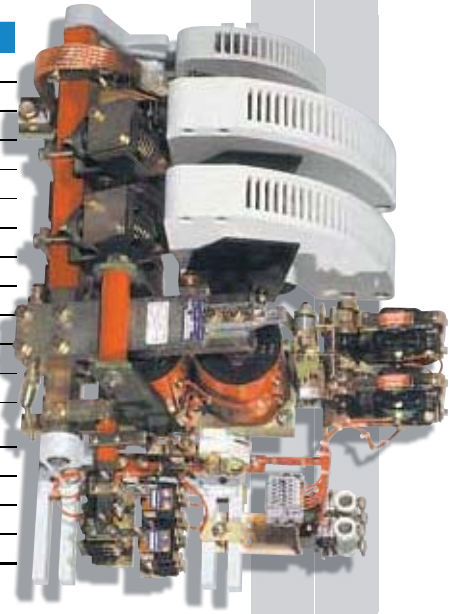
For calibres from 80 to 2000 A

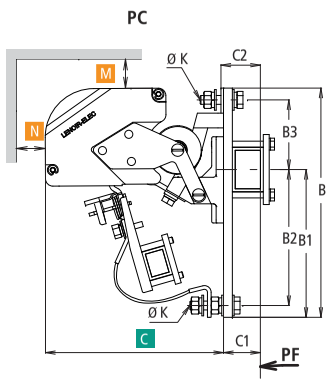
1,04	40 < t < 45°C
1,08	45 < t ≤ 50°C
1,12	50 < t ≤ 55°C
1,19	55 < t ≤ 60°C

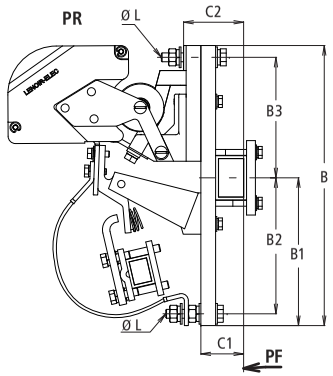
For 06 generation and 7500 A calibre

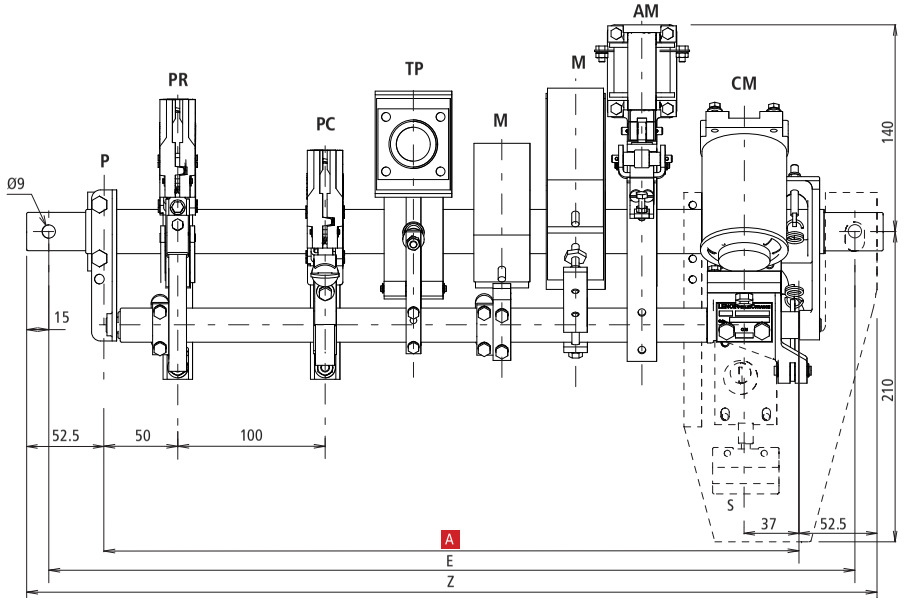
7326 A	40 < t < 45°C
7156 A	45 < t ≤ 50°C
6989 A	50 < t ≤ 55°C
6826 A	55 < t ≤ 60°C

For ranges 54-3000, 60-5000, 60-5500 and 60-6200 A, no derating up to 55°C.









	B	B1	B2	B3	B4	B5	B6	B7	C	C1 PC	C1 PR	C2 PC	C2 PR	Ø K	Ø L
80 A	155,5	101	93	48	190	101	93	82	121	27	29	27	40	6	6
150 A	210,5	113	103	61	247	113	106	97	161	27	29	31	33	8	6
200 A	235	120	107	103	271	119	106	140	180	30	32	35	37	10	8

1 closing pole and 1 opening pole

M type auxiliary contacts		Distance between bearings: A																	
		Without mechanical latching						With mechanical latching with single electrical release (foresee 1NO contact for switching-off the tripping coil)						With mechanical latching with double electrical release (foresee two NO contacts for switching-off the tripping coils)					
		Without delayed-block			With one delayed-block			Without delayed-block			With one delayed-block			Without delayed-block			With one delayed-block		
NO	**NF**	**80 A**	**150 A**	**200 A**	**80 A**	**150 A**	**200 A**	**80 A**	**150 A**	**200 A**	**80 A**	**150 A**	**200 A**	**80 A**	**150 A**	**200 A**	**80 A**	**150 A**	**200 A**
1	1	325 (2)	325 (2)	325 (3)	400 (3)	400 (3)	400 (4)	375 (2)	375 (2)	375 (3)	450 (3)	450 (3)	450 (4)						
2	1	325 (2)	325 (2)	325 (3)	400 (3)	400 (3)	400 (4)	375 (2)	375 (2)	375 (3)	450 (3)	450 (3)	450 (4)	425 (2)	425 (2)	425 (3)	500 (3)	500 (3)	500 (4)
2	2	325 (2)	325 (2)	325 (3)	400 (3)	400 (3)	400 (4)	375 (2)	375 (2)	375 (3)	450 (3)	450 (3)	450 (4)	425 (2)	425 (2)	425 (3)	500 (3)	500 (3)	500 (4)
3	2	325 (2)	325 (2)	325 (3)	400 (3)	400 (3)	400 (4)	375 (2)	375 (2)	375 (3)	450 (3)	450 (3)	450 (4)	425 (2)	425 (2)	425 (3)	500 (3)	500 (3)	500 (4)
3	3	325 (2)	325 (2)	325 (3)	400 (3)	400 (3)	400 (4)	375 (2)	375 (2)	375 (3)	450 (3)	450 (3)	450 (4)	425 (2)	425 (2)	425 (3)	500 (3)	500 (3)	500 (4)
4	3	375 (2)	375 (2)	375 (3)	450 (3)	450 (3)	450 (4)	425 (2)	425 (2)	425 (3)	500 (3)	500 (3)	500 (4)	475 (2)	475 (2)	475 (3)	550 (3)	550 (3)	550 (4)
4	4	375 (2)	375 (2)	375 (3)	450 (3)	450 (3)	450 (4)	425 (2)	425 (3)	425 (4)	500 (3)	500 (3)	500 (4)	475 (2)	475 (3)	475 (4)	550 (3)	550 (3)	550 (4)
5	4	375 (2)	375 (2)	375 (4)	450 (3)	450 (3)	450 (4)	425 (2)	425 (3)	425 (4)	500 (3)	500 (3)	500 (4)	475 (2)	475 (3)	475 (4)	550 (3)	550 (3)	550 (4)
5	5	375 (2)	375 (3)	375 (4)	450 (3)	450 (3)	450 (4)	425 (3)	425 (3)	425 (4)	500 (3)	500 (4)	500 (4)	475 (3)	475 (3)	475 (4)	550 (3)	550 (4)	550 (4)
6	5	375 (2)	375 (3)	375 (4)	450 (3)	450 (4)	450 (4)	425 (3)	425 (3)	425 (4)	500 (3)	500 (4)	500 (4)	475 (3)	475 (3)	475 (4)	550 (3)	550 (4)	550 (4)
6	6	375 (3)	375 (3)	375 (4)	450 (3)	450 (4)	450 (4)	425 (3)	425 (3)	425 (4)	500 (4)	500 (4)	500 (4)	475 (3)	475 (3)	475 (4)	550 (4)	550 (4)	550 (4)
7	6	425 (3)	425 (3)	425 (4)	500 (3)	500 (4)	500 (4)	475 (3)	475 (3)	475 (4)	550 (4)	550 (4)	550 (4)	525 (3)	525 (3)	525 (4)	600 (4)	600 (4)	600 (4)
7	7	425 (3)	425 (3)	425 (4)	500 (4)	500 (4)	500 (4)	475 (3)	475 (3)	475 (4)	550 (4)	550 (4)	550 (4)	525 (3)	525 (3)	525 (4)	600 (4)	600 (4)	600 (4)
8	7	425 (3)	425 (3)	425 (4)	500 (4)	500 (4)	500 (4)	475 (3)	475 (3)	475 (4)	550 (4)	550 (4)	550 (4)	525 (3)	525 (3)	525 (4)	600 (4)	600 (4)	600 (4)
8	8	425 (3)	425 (3)	425 (4)	500 (4)	500 (4)	500 (4)	475 (3)	475 (3)	475 (4)	550 (4)	550 (4)	550 (4)	525 (3)	525 (3)	525 (4)	600 (4)	600 (4)	600 (4)
9	8	425 (3)	425 (3)	425 (4)	500 (4)	500 (4)	500 (4)	475 (3)	475 (3)	475 (4)	550 (4)	550 (4)	550 (4)	525 (3)	525 (4)	525 (4)	600 (4)	600 (4)	600 (4)
9	9	425 (3)	425 (3)	425 (4)	500 (4)	500 (4)	500 (4)	475 (3)	475 (4)	475 (4)	550 (4)	550 (4)	550 (4)	525 (3)	525 (4)	525 (4)	600 (4)	600 (4)	600 (4)

CM *Closing magnetic circuit.*
PC *Contactor pole.*
PR *Rupturing pole.*
AM *Mechanical latching with electrical release (single or double).*
P *bearing.*
S *Condemnation in open position through safety lock.*
PF *Fixation plane.*
E *Attachment centre distance (L = A + 75 mm).*
Z *Total length of fixation bar (Z = A + 105 mm). Possibility of increasing this length on request. In that case, please advise the contactor position on the bar.*

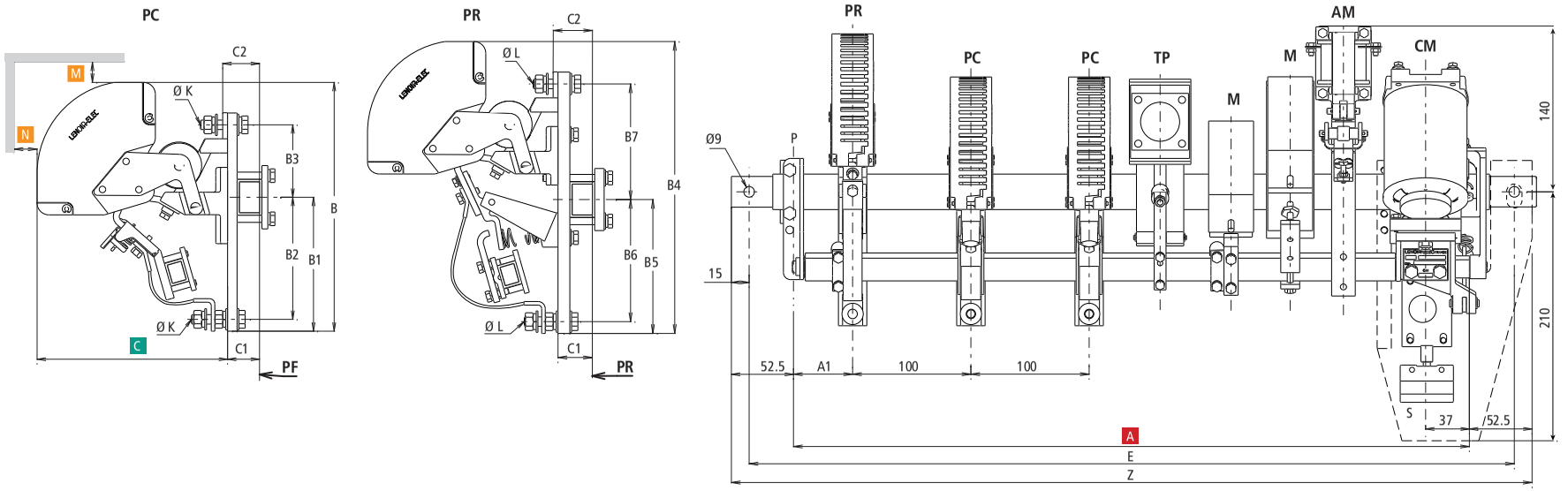
Insulating distance (safety perimeter)

Calibre	Metallic walls				Insulated walls			
	⩽ 250 V		> 250 V		⩽ 250 V		> 250 V	
	M	N	M	N	M	N	M	N
80 A	55	45	110	80	45	35	90	65
150 A	105	75	125	95	85	60	105	75
200 A	165	135	235	185	130	105	185	145

(1) shape to be specified.
(2) magnetic circuit N°63 (power-saved version available on request).
(3) magnetic circuit N°64.
(4) magnetic circuit N°64 power-saved version (foresee one NC contactor for inserting the economy resistance).

Control circuit: connection drawings, page 185.

cotes en mm



	A1	B	B1	B2	B3	B4	B5	B6	B7	C	C1 - PC	C1 - PR	C2 - PC	C2 - PR	Ø K	Ø L
80 A	(1) (6)	155,5	101	93	48	190	101	93	82	121	27	29	27	40	6	6
150 A	(1)	210,5	113	103	61	247	113	106	97	161	27	29	31	33	8	8
200 A	(1)	235	120	107	103	271	119	106	140	180	30	32	35	37	10	10

2 closing poles and 1 opening pole

M type auxiliary contacts		Distance between bearings: A																	
		Without mechanical latching						With mechanical latching with single electrical release (foresee 1NO contact for switching-off the tripping coil)						With mechanical latching with double electrical release (foresee two NO contacts for switching-off the tripping coils)					
		Without delayed-block			With one delayed-block			Without delayed-block			With one delayed-block			Without delayed-block			With one delayed-block		
NO	**NF**	**80 A**	**150 A**	**200 A**	**80 A**	**150 A**	**200 A**	**80 A**	**150 A**	**200 A**	**80 A**	**150 A**	**200 A**	**80 A**	**150 A**	**200 A**	**80 A**	**150 A**	**200 A**
1	1	425 (2)	425 (2)	425 (4)	500 (3)	500 (3)	500 (4)	475 (2)	475 (2)	475 (4)	550 (3)	550 (3)	550 (4)						
2	1	425 (2)	425 (2)	425 (4)	500 (3)	500 (3)	500 (4)	475 (2)	475 (2)	475 (4)	550 (3)	550 (3)	500 (4)	525 (2)	525 (2)	525 (4)	600 (3)	600 (3)	600 (4)
2	2	425 (2)	425 (2)	425 (4)	500 (3)	500 (3)	500 (4)	475 (2)	475 (3)	475 (4)	550 (3)	550 (3)	550 (4)	525 (2)	525 (3)	525 (4)	600 (3)	600 (3)	600 (4)
3	2	425 (2)	425 (2)	425 (4)	500 (3)	500 (3)	500 (4)	475 (2)	475 (3)	475 (4)	550 (3)	550 (3)	550 (4)	525 (2)	525 (3)	525 (4)	600 (3)	600 (3)	600 (4)
3	3	425 (2)	425 (3)	425 (4)	500 (3)	500 (3)	500 (4)	475 (2)	475 (3)	475 (4)	550 (3)	550 (4)	550 (4)	525 (2)	525 (3)	525 (4)	600 (3)	600 (4)	600 (4)
4	3	475 (2)	475 (3)	475 (4)	550 (3)	550 (3)	550 (4)	525 (2)	525 (3)	525 (4)	600 (3)	600 (4)	600 (4)	575 (2)	575 (3)	575 (4)	650 (3)	650 (4)	650 (4)
4	4	475 (2)	475 (3)	475 (4)	550 (3)	550 (4)	550 (4)	525 (2)	525 (3)	525 (4)	600 (3)	600 (4)	600 (4)	575 (2)	575 (3)	575 (4)	650 (3)	650 (4)	650 (4)
5	4	475 (2)	475 (3)	475 (4)	550 (3)	550 (4)	550 (4)	525 (3)	525 (3)	525 (4)	600 (3)	600 (4)	600 (4)	575 (3)	575 (3)	575 (4)	650 (3)	650 (4)	650 (4)
5	5	475 (2)	475 (3)	475 (4)	550 (3)	550 (4)	550 (4)	525 (3)	525 (3)	525 (4)	600 (3)	600 (4)	600 (4)	575 (3)	575 (3)	575 (4)	650 (3)	650 (4)	650 (4)
6	5	475 (2)	475 (3)	475 (4)	550 (3)	550 (4)	550 (4)	525 (3)	525 (3)	525 (4)	600 (4)	600 (4)	600 (4)	575 (3)	575 (3)	575 (4)	650 (4)	650 (4)	650 (4)
6	6	475 (3)	475 (3)	475 (4)	550 (4)	550 (4)	550 (4)	525 (3)	525 (3)	525 (4)	600 (4)	600 (4)	600 (4)	575 (3)	575 (3)	575 (4)	650 (4)	650 (4)	650 (4)
7	6	525 (3)	525 (3)	525 (4)	600 (4)	600 (4)	600 (4)	575 (3)	575 (3)	575 (4)	650 (4)	650 (4)	650 (4)	625 (3)	625 (3)	625 (4)	700 (4)	700 (4)	700 (4)
7	7	525 (3)	525 (3)	525 (4)	600 (4)	600 (4)	600 (4)	575 (3)	575 (3)	575 (4)	650 (4)	650 (4)	650 (4)	625 (3)	625 (3)	625 (4)	700 (4)	700 (4)	700 (4)
8	7	525 (3)	525 (3)	525 (4)	600 (4)	600 (4)	600 (4)	575 (3)	575 (4)	575 (4)	650 (4)	650 (4)		625 (3)	625 (4)	625 (4)	700 (4)	700 (4)	
8	8	525 (3)	525 (4)	525 (4)	600 (4)	600 (4)		575 (3)	575 (4)	575 (4)	650 (4)	650 (4)		625 (3)	625 (4)	625 (4)	700 (4)	700 (4)	
9	8	525 (3)	525 (4)	525 (4)	600 (4)	600 (4)		575 (3)	575 (4)	575 (4)	650 (4)	650 (4)		625 (3)	625 (4)	625 (4)	700 (4)	700 (4)	
9	9	525 (3)	525 (4)	525 (4)	600 (4)	600 (4)		575 (3)	575 (4)	575 (4)	650 (4)	650 (4)		625 (3)	625 (4)	625 (4)	700 (4)	700 (4)	

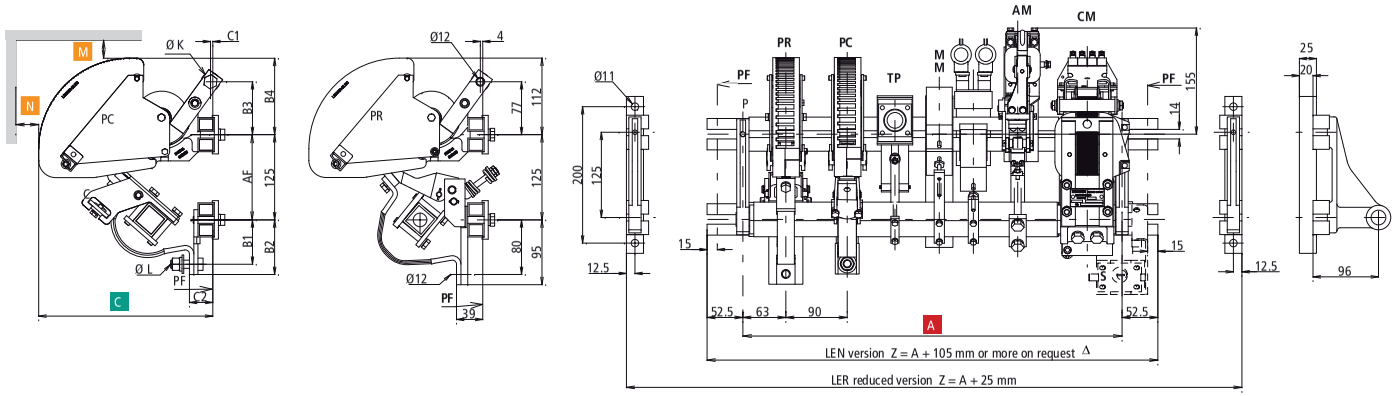
CM *Closing magnetic circuit.*
PC *Contactor pole.*
PR *Rupturing pole.*
AM *Mechanical latching with electrical release (single or double).*
P *bearing.*
S *Condemnation in open position through safety lock.*
PF *Fixation plane.*
E *Attachment centre distance (L = A + 75 mm).*
Z *Total length of fixation bar (Z = A + 105 mm). Possibility of increasing this length on request. In that case, please advise the contactor position on the bar.*

Insulating distance (safety perimeter)

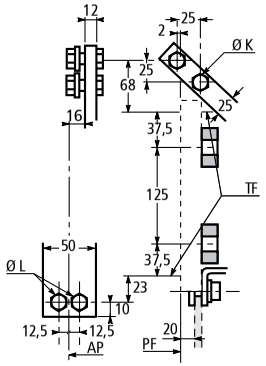
Calibre	Metallic walls				Insulated walls			
	⩽ 250 V		⩾ 250 V		⩽ 250 V		⩾ 250 V	
	M	N	M	N	M	N	M	N
80 A	55	45	110	80	45	35	90	65
150 A	105	75	125	95	85	60	105	75
200 A	165	135	235	185	130	105	185	145

(1) U < 500 V : A1 = 50 mm (without AT) U ⩾ 500 and < 1000 V : A1 = 78 mm (space available for AT) PLEASE CONSULT US for total overall dimensions.
(2) magnetic circuit N°63 (power-saved version available on request).
(3) magnetic circuit N°64.
(4) magnetic circuit N°64 power-saved version (foresee one NC contactor for inserting the economy resistance).
(5) shape to be specified.
(6) for contactor mounted on a single bar, PLEASE CONSULT US for the total overall dimensions.

Control circuit: connection drawings, page 185.



■ Connecting section



Calibres 800 & 1000 A

	A2	A3	B1	B2	B3	B4	C	C1	C2	ØK	ØL
400 A	13	5	65	80	77	112	256	4	30	12	12
500/630 A	12	8	65	80	77	112	256	4	30	12	12
800/1000 A	16	12	65	75	(7)	186	295	(7)	4	8	8

1 closing pole and 1 opening pole

M type auxiliary contacts(8)		Distance between bearings: A														
		Without mechanical latching(4)			with mechanical latching with single electrical release without delayed block(5)			with mechanical latching with double electrical release without delayed block(6)			with mechanical latching with single electrical release without delayed block(5)			with mechanical latching with double electrical release without delayed block(6)		
NO	**NF**	400 A	500/630 A	800/1000 A	400 A	500/630 A	800/1000 A	400 A	500/630 A	800/1000 A	400 A	500/630 A	800/1000 A	400 A	500/630 A	800/1000 A
1	2	375 (2)	375 (2)	400 (3)	450 (2)	450 (2)	475 (3)				525 (2)	525 (2)	550 (3)			
2	1	375 (2)	375 (2)	400 (3)	450 (2)	450 (2)	475 (3)	525 (2)	525 (2)	550 (3)	525 (2)	525 (2)	550 (3)	600 (2)	600 (2)	625 (3)
3	2	400 (2)	425 (2)	450 (3)	500 (2)	500 (2)	525 (3)	575 (2)	575 (2)	600 (3)	575 (2)	575 (2)	600 (3)	650 (2)	650 (2)	675 (3)
3	3	400 (2)	425 (2)	450 (3)	500 (2)	500 (2)	525 (3)	575 (2)	575 (2)	600 (3)	575 (2)	575 (2)	600 (3)	650 (2)	650 (2)	675 (3)
4	3	400 (2)	425 (2)	450 (3)	500 (2)	500 (2)	525 (3)	575 (2)	575 (2)	600 (3)	575 (2)	575 (2)	600 (3)	650 (2)	650 (2)	675 (3)
4	4	400 (2)	425 (2)	450 (3)	500 (2)	500 (2)	525 (3)	575 (2)	575 (2)	600 (3)	575 (2)	575 (2)	600 (3)	650 (2)	650 (2)	675 (3)
5	4	400 (2)	425 (2)	450 (3)	500 (2)	500 (2)	525 (3)	575 (2)	575 (2)	600 (3)	575 (2)	575 (2)	600 (3)	650 (2)	650 (2)	675 (3)
5	5	450 (2)	475 (2)	500 (3)	550 (2)	550 (2)	575 (3)	625 (2)	625 (2)	650 (3)	625 (2)	625 (2)	650 (3)	700 (2)	700 (2)	725 (3)
6	5	450 (2)	475 (2)	500 (3)	550 (2)	550 (2)	575 (3)	625 (2)	625 (2)	650 (3)	625 (2)	625 (2)	650 (3)	700 (2)	700 (2)	725 (3)
6	6	450 (2)	475 (2)	500 (3)	550 (2)	550 (2)	575 (3)	625 (2)	625 (2)	650 (3)	625 (2)	625 (2)	650 (3)	700 (2)	700 (2)	725 (3)
7	6	450 (2)	475 (2)	500 (3)	550 (2)	550 (2)	575 (3)	625 (2)	625 (2)	650 (3)	625 (2)	625 (2)	650 (3)	700 (2)	700 (2)	725 (3)
7	7	450 (2)	475 (2)	500 (3)	550 (2)	550 (2)	575 (3)	625 (2)	625 (2)	650 (3)	625 (2)	625 (2)	650 (3)	700 (2)	700 (2)	725 (3)
8	7	450 (2)	475 (2)	500 (3)	550 (2)	550 (2)	575 (3)	625 (2)	625 (2)	650 (3)	625 (2)	625 (2)	650 (3)	700 (2)	700 (2)	725 (3)
8	8	500 (2)	525 (2)	550 (3)	600 (2)	600 (2)	625 (3)	675 (2)	675 (2)	700 (3)	675 (2)	675 (2)	700 (3)	750 (2)	750 (2)	775 (3)
9	8	500 (2)	525 (2)	550 (3)	600 (2)	600 (2)	625 (3)	675 (2)	675 (2)	700 (3)	675 (2)	675 (2)	700 (3)	750 (2)	750 (2)	775 (3)
9	9	500 (2)	525 (2)	550 (3)	600 (2)	600 (2)	625 (3)	675 (2)	675 (2)	700 (3)	675 (2)	675 (2)	700 (3)	750 (2)	750 (2)	775 (3)
10	9	500 (2)	525 (2)	500 (3)	600 (2)	600 (2)	625 (3)	675 (2)	675 (2)	700 (3)	675 (2)	675 (2)	700 (3)	750 (2)	750 (2)	775 (3)
10	10	500 (2)	525 (2)	550 (3)	600 (2)	600 (2)	625 (3)	675 (2)	675 (2)	700 (3)	675 (2)	675 (2)	700 (3)	750 (2)	750 (2)	775 (3)
11	10	500 (2)	525 (2)	550 (3)	600 (2)	600 (2)	625 (3)	675 (2)	675 (2)	700 (3)	675 (2)	675 (2)	700 (3)	750 (2)	750 (2)	775 (3)
11	11	550 (2)	575 (2)	600 (3)	650 (2)	650 (2)	675 (3)	725 (2)	725 (2)	750 (3)	725 (2)	725 (2)	750 (3)	800 (2)	800 (2)	825 (3)
12	11	550 (2)	575 (2)	600 (3)	650 (2)	650 (2)	675 (3)	725 (2)	725 (2)	750 (3)	725 (2)	725 (2)	750 (3)	800 (2)	800 (2)	825 (3)
12	12	550 (2)	575 (2)	600 (3)	650 (2)	650 (2)	675 (3)	725 (2)	725 (2)	750 (3)	725 (2)	725 (2)	750 (3)	800 (2)	800 (2)	825 (3)

CM *Closing magnetic circuit.*
PC *150 contactor pole.*
PR *150 rupturing pole.*
AM *Mechanical latching with electrical release (single or double).*
P *bearing.*
S *Condemnation in open position through safety lock.*
PF *Fixation plane.*
AF *Fixation axis.*
Δ *In that case, please advise the contactor position on the bar.*

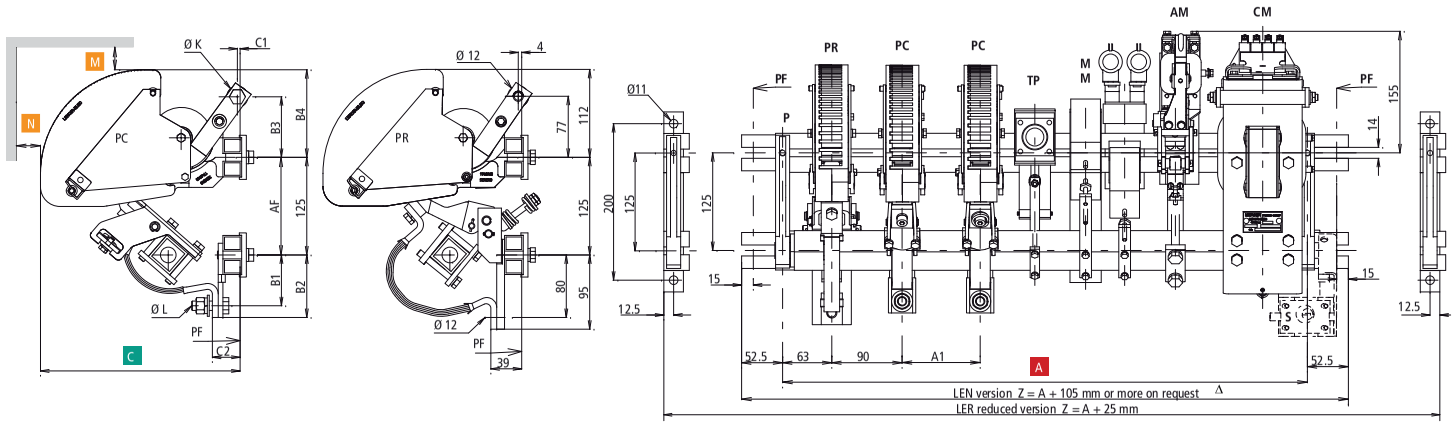
■ Insulating distance (safety perimeter)

Calibre	Metallic walls				Insulated walls			
	⩽ 300 V		⩾ 300 V		⩽ 300 V		⩾ 300 V	
	M	N	M	N	M	N	M	N
400 A	100	30	100	40	40	30	40	30
500/630 A	150	50	150	70	60	40	70	60
800/1000 A	75	75	155	75	75	75	155	75

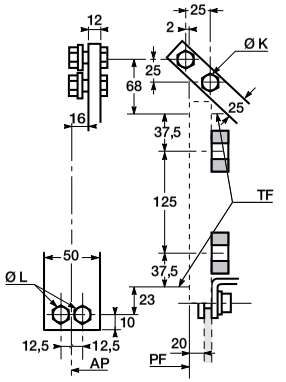
(1) shape to be specified.
(2) magnetic circuit type 16R power-saved version.
(3) magnetic circuit type 18 power-saved version.
(4) foresee 1 overlapping NC contact for inserting the economy resistor(s).
(5) foresee 1 overlapping NC contact for inserting the economy resistor(s) and 1NO for switching-off the release coil.
(6) foresee 1 overlapping NC contact for inserting the economy resistor(s) and 2NO for switching-off the release coils.
(7) detailed connections for 800A and 1000A pole.
(8) should you require other versions, please consult our technical department. Control circuit: connection drawings, page 185.

LEN version: *Standard dimensions*
LER version: *Reduced dimensions, page 123.*
Nota : *possibility of an off-load manual closing system, please refer to page 122.*

in mm



■ Connecting section



Calibres 800 & 1000 A

	A1	A2	A3	B1	B2	B3	B4	C	C1	C2	ØK	ØL
400 A	90	13	5	65	80	77	112	256	4	30	12	12
500/630 A	100	12	8	65	80	77	112	256	4	30	12	12
800/1000 A	110	16	12	65	75	(7)	186	295	(7)	4	8	8

2 closing poles and 1 opening pole

M type auxiliary contacts(8)		Distance between bearings: A														
		Without mechanical latching(4)			with mechanical latching with single electrical release without delayed block(5)			with mechanical latching with double electrical release without delayed block(6)			with mechanical latching with single electrical release without delayed block(5)			with mechanical latching with double electrical release without delayed block(6)		
NO	**NF**	400 A	500/630 A	800/1000 A	400 A	500/630 A	800/1000 A	400 A	500/630 A	800/1000 A	400 A	500/630 A	800/1000 A	400 A	500/630 A	800/1000 A
1	2	450 (2)	475 (2)	550 (3)	550 (2)	550 (2)	600 (3)				600 (2)	625 (2)	650 (3)			
2	1	450 (2)	475 (2)	550 (3)	550 (2)	550 (2)	600 (3)	625 (2)	625 (2)	675 (3)	600 (2)	625 (2)	650 (3)	675 (2)	700 (2)	725 (3)
3	2	500 (2)	525 (2)	550 (3)	575 (2)	600 (2)	625 (3)	650 (2)	675 (2)	700 (3)	650 (2)	675 (2)	700 (3)	725 (2)	750 (2)	775 (3)
3	3	500 (2)	525 (2)	550 (3)	575 (2)	600 (2)	625 (3)	650 (2)	675 (2)	700 (3)	650 (2)	675 (2)	700 (3)	725 (2)	750 (2)	775 (3)
4	3	500 (2)	525 (2)	550 (3)	575 (2)	600 (2)	625 (3)	650 (2)	675 (2)	700 (3)	650 (2)	675 (2)	700 (3)	725 (2)	750 (2)	775 (3)
4	4	500 (2)	525 (2)	550 (3)	575 (2)	600 (2)	625 (3)	650 (2)	675 (2)	700 (3)	650 (2)	675 (3)	700 (3)	725 (2)	750 (3)	775 (3)
5	4	500 (2)	525 (2)	550 (3)	575 (2)	600 (2)	625 (3)	650 (2)	675 (2)	700 (3)	650 (2)	675 (3)	700 (3)	725 (2)	750 (3)	775 (3)
5	5	550 (2)	575 (2)	600 (3)	625 (2)	650 (2)	675 (3)	700 (2)	725 (2)	750 (3)	700 (2)	725 (3)	750 (3)	775 (2)	800 (3)	825 (3)
6	5	550 (2)	575 (2)	600 (3)	625 (2)	650 (2)	675 (3)	700 (2)	725 (2)	750 (3)	700 (2)	725 (3)	750 (3)	775 (2)	800 (3)	825 (3)
6	6	550 (2)	575 (2)	600 (3)	625 (2)	650 (2)	675 (3)	700 (2)	725 (2)	750 (3)	700 (2)	725 (3)	750 (3)	775 (2)	800 (3)	825 (3)
7	6	550 (2)	575 (2)	600 (3)	625 (2)	650 (2)	675 (3)	700 (2)	725 (2)	750 (3)	700 (2)	725 (3)	750 (3)	775 (2)	800 (3)	825 (3)
7	7	550 (2)	575 (2)	600 (3)	625 (2)	650 (2)	675 (3)	700 (2)	725 (2)	750 (3)	700 (2)	725 (3)	750 (3)	775 (2)	800 (3)	825 (3)
8	7	550 (2)	575 (2)	600 (3)	625 (2)	650 (2)	675 (3)	700 (2)	725 (2)	750 (3)	700 (2)	725 (3)	750 (3)	775 (2)	800 (3)	825 (3)
8	8	600 (2)	625 (2)	650 (3)	675 (2)	700 (2)	725 (3)	750 (2)	775 (2)	800 (3)	750 (2)	775 (3)	800 (3)	825 (2)	850 (3)	875 (3)
9	8	600 (2)	625 (2)	650 (3)	675 (2)	700 (2)	725 (3)	750 (2)	775 (2)	800 (3)	750 (2)	775 (3)	800 (3)	825 (2)	850 (3)	875 (3)
9	9	600 (2)	625 (2)	650 (3)	675 (2)	725 (3)	725 (3)	750 (2)	800 (3)	800 (3)	750 (2)	775 (3)	800 (3)	825 (2)	850 (3)	875 (3)
10	9	600 (2)	650 (3)	650 (3)	675 (2)	725 (3)	725 (3)	750 (2)	800 (3)	800 (3)	750 (2)	775 (3)	800 (3)	825 (2)	850 (3)	875 (3)
10	10	600 (2)	650 (3)	650 (3)	675 (2)	725 (3)	725 (3)	750 (2)	800 (3)	800 (3)	750 (2)	775 (2)	800 (3)	825 (2)	850 (3)	875 (3)
11	10	600 (2)	650 (3)	650 (3)	675 (2)	725 (3)	725 (3)	750 (2)	800 (3)	800 (3)	750 (2)	775 (3)	800 (3)	825 (2)	850 (3)	875 (3)
11	11	650 (2)	700 (3)	700 (3)	725 (2)	775 (3)	775 (3)	800 (2)	850 (3)	850 (3)	800 (2)	825 (3)	850 (3)	875 (2)	900 (3)	925 (3)
12	11	650 (2)	700 (3)	700 (3)	725 (2)	775 (3)	775 (3)	800 (2)	850 (3)	850 (3)	800 (2)	825 (3)	850 (3)	875 (2)	900 (3)	925 (3)
12	12	650 (2)	700 (3)	700 (3)	725 (2)	775 (3)	775 (3)	800 (2)	850 (3)	850 (3)	800 (2)	825 (3)	850 (3)	875 (2)	900 (3)	925 (3)

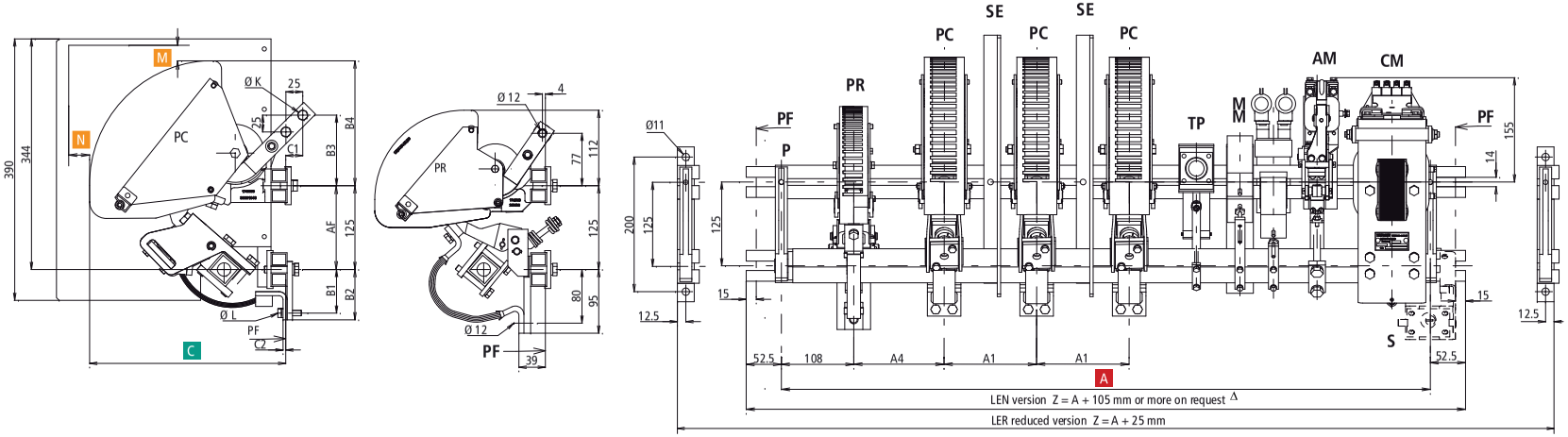
CM *Closing magnetic circuit.*
PC *150 contactor pole.*
PR *150 rupturing pole.*
AM *Mechanical latching with electrical release (single or double).*
P *bearing.*
S *Condemnation in open position through safety lock.*
PF *Fixation plane.*
AF *Fixation axis.*
Δ *In that case, please advise the contactor position on the bar.*

■ Insulating distance (safety perimeter)

Calibre	Metallic walls				Insulated walls			
	⩽ 300 V		⩾ 300 V		⩽ 300 V		⩾ 300 V	
	M	N	M	N	M	N	M	N
400 A	100	30	100	40	40	30	40	30
500/630 A	150	50	150	70	60	40	70	60
800/1000 A	75	75	155	75	75	75	155	75

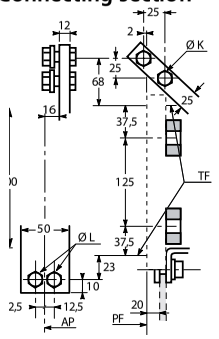
(1) shape to be specified.
(2) magnetic circuit type 16R power-saved version.
(3) magnetic circuit type 18 power-saved version.
(4) foresee 1 overlapping NC contact for inserting the economy resistor(s).
(5) foresee 1 overlapping NC contact for inserting the economy resistor(s) and 1NO for switching-off the release coil.
(6) foresee 1 overlapping NC contact for inserting the economy resistor(s) and 2NO for switching-off the release coils.
(7) detailed connections for 800A and 1000A pole.
(8) should you require other versions, please consult our technical department. Control circuit: connection drawings, page 185

LEN version: *Standard dimensions*
LER version: *Reduced dimensions, page 123.*
Nota : *possibility of an off-load manual closing system, please refer to page 122.*



	A1	A2	A3	A4	B1	B2	B3	B4	C	C1	C2	ØK	ØL
400 A	102	13	5	110	65	80	77	112	256	4	34	12	12
500/630 A	120	12	8	110	65	80	77	112	256	4	34	12	12
800/1000 A	138	16	12	135	65	75	(7)	186	295	(7)	4	8	8

■ Connecting section



Calibres 800 & 1000 A

2 closing poles on the positive polarity, 1 pole on the negative polarity and 1 opening pole

M type auxiliary contacts(8)		Distance between bearings: A														
		Without mechanical latching(4)			with mechanical latching with single electrical release without delayed block(5)			with mechanical latching with double electrical release without delayed block(6)			with mechanical latching with single electrical release without delayed block(5)			with mechanical latching with double electrical release without delayed block(6)		
NO	**NF**	**400 A**	**500/630 A**	**800/1000 A**	**400 A**	**500/630 A**	**800/1000 A**	**400 A**	**500/630 A**	**800/1000 A**	**400 A**	**500/630 A**	**800/1000 A**	**400 A**	**500/630 A**	**800/1000 A**
1	**2**	650 (2)	725 (3)	800 (3)	725 (2)	800 (3)	875 (3)				800 (2)	850 (3)	925 (3)			
2	**1**	650 (2)	725 (3)	800 (3)	725 (2)	800 (3)	875 (3)	800 (2)	875 (3)	950 (3)	800 (2)	850 (3)	925 (3)	875 (2)	925 (3)	
3	**2**	700 (2)	775 (3)	850 (3)	775 (2)	850 (3)	925 (3)	850 (2)	925 (3)		850 (2)	900 (3)		925 (2)		
3	**3**	700 (2)	775 (3)	850 (3)	775 (2)	850 (3)	925 (3)	850 (2)	925 (3)		850 (2)	900 (3)		925 (2)		
4	**3**	700 (2)	775 (3)	850 (3)	775 (2)	850 (3)	925 (3)	850 (2)	925 (3)		850 (2)	900 (3)		925 (2)		
4	**4**	700 (2)	775 (3)	850 (3)	775 (2)	850 (3)	925 (3)	850 (2)	925 (3)		850 (2)	900 (3)		925 (2)		
5	**4**	700 (2)	775 (3)	850 (3)	775 (2)	850 (3)	925 (3)	850 (2)	925 (3)		850 (2)	900 (3)		925 (2)		
5	**5**	750 (2)	825 (3)	900 (3)	825 (2)	900 (3)		900 (2)			900 (2)	950 (3)				
6	**5**	750 (2)	825 (3)	900 (3)	825 (2)	900 (3)		900 (2)			900 (2)	950 (3)				
6	**6**	750 (2)	825 (3)	900 (3)	825 (2)	900 (3)		900 (2)			900 (2)	950 (3)				
7	**6**	750 (2)	825 (3)	900 (3)	825 (2)	900 (3)		900 (2)			900 (2)	950 (3)				
7	**7**	750 (2)	825 (3)	900 (3)	825 (2)	900 (3)		900 (2)			900 (2)	950 (3)				
8	**7**	750 (2)	825 (3)	900 (3)	825 (2)	900 (3)		900 (2)			900 (2)	950 (3)				
8	**8**	800 (2)	875 (3)	950 (3)	875 (2)	950 (3)		950 (2)			950 (2)					
9	**8**	800 (2)	875 (3)	950 (3)	875 (2)	950 (3)		950 (2)			950 (2)					
9	**9**	800 (2)	875 (3)	950 (3)	875 (2)	950 (3)		950 (2)			950 (2)					
10	**9**	800 (2)	875 (3)	950 (3)	875 (2)	950 (3)		950 (2)			950 (2)					
10	**10**	800 (2)	875 (3)	950 (3)	875 (2)	950 (3)		950 (2)			950 (2)					
11	**10**	800 (2)	875 (3)	950 (3)	875 (2)	950 (3)		950 (2)			950 (2)					
11	**11**	850 (2)	925 (3)		925 (2)											
12	**11**	850 (2)	925 (3)		925 (2)											
12	**12**	850 (2)	925 (3)		925 (2)											

CM *Closing magnetic circuit.*
PC *Contactor pole.*
PR *Rupturing pole 500.*
AM *Mechanical latching with electrical release (single or double).*
P *Bearing.*
SE *Separator*
S *Condemnation in open position through safety lock.*
PF *Fixation plane.*
AF *Fixation axis.*
Z *total length of fixation bar (Z = A + 105 mm). Possibility of increasing this length on request. In that case, please advise the contactor position on the bar.*

■ Insulating distance (safety perimeter)

Calibre	Metallic walls ⩽ 300 V		Insulated walls ⩾ 300 V	
	M	N	M	N
400 A	100	40	40	30
500/630 A	150	70	70	60
800/1000 A	155	75	155	75

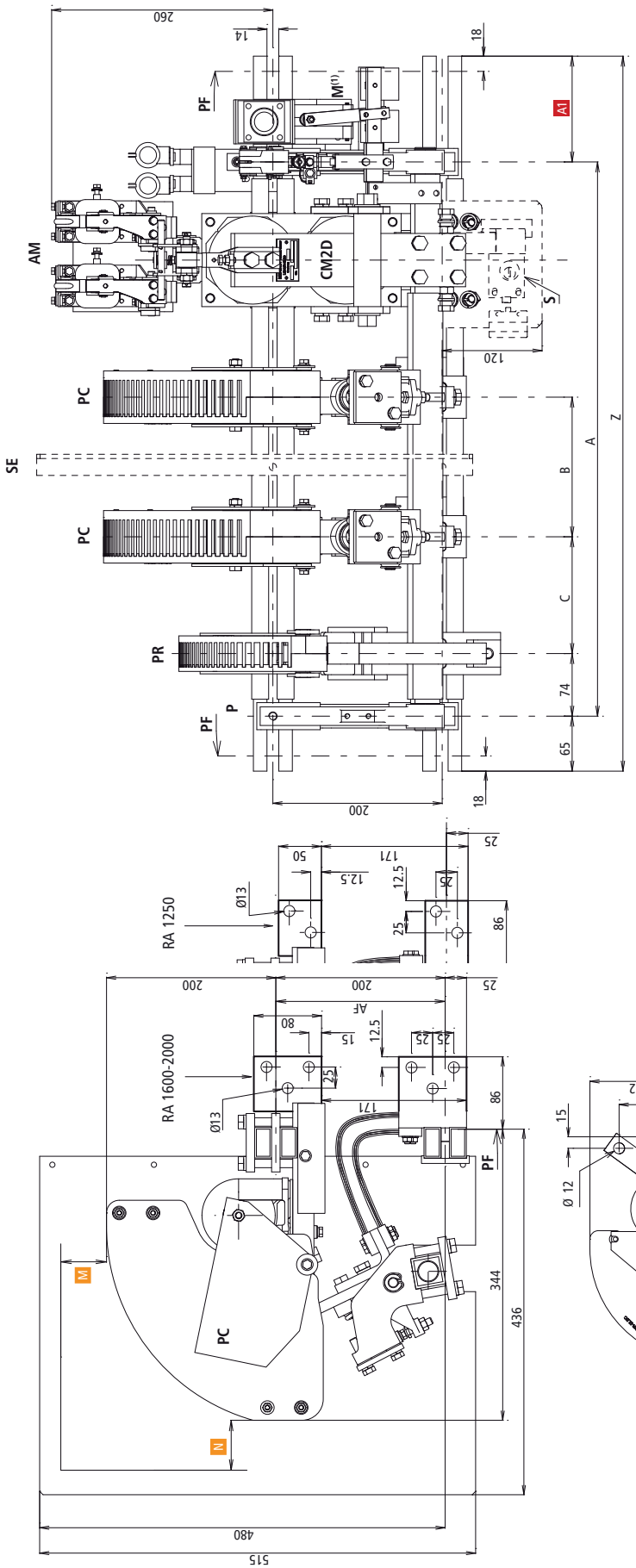
(1) shape to be specified.
(2) magnetic circuit type 16R power-saved version.
(3) magnetic circuit type 18 power-saved version.
(4) foresee 1 overlapping NC contact for inserting the economy resistor(s).
(5) foresee 1 overlapping NC contact for inserting the economy resistor(s) and 1NO for switching-off the release coil.
(6) foresee 1 overlapping NC contact for inserting the economy resistor(s) and 2NO for switching-off the release coils.
(7) detailed connections for 800A and 1000A pole.
(8) should you require other versions, please consult our technical department. Control circuit: connection drawings, page 185

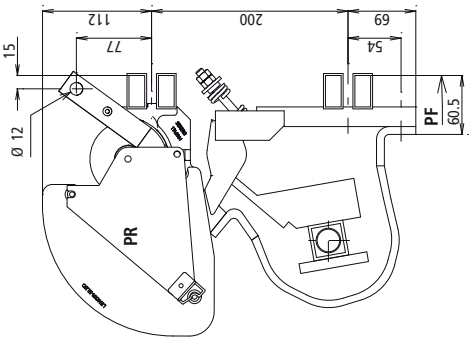
LEN version: *Standard dimensions*
LER version: *Reduced dimensions, page 123.*
Nota : *possibility of an off-load manual closing system, please refer to page 122.*

Overall dimensions version LEN

in mm

CEX 71 1250-1600-2000 A *2.1* *Two-pole break*





	Voltage V	A	B	C
1 pole	⩽ 550	435	110	110
2 poles	⩽ 550(2)	545(2)	110	110
2 poles(3)	> 550	655	165	138

Insulating distance (safety perimeter)

Voltage V	Metallic walls		Insulated walls	
	M	N	M	N
⩽ 220	150	200	120	160
> 220	200	240	150	200

Protrusion A1

Number of delayed blocks	Number of M type blocks(1)	A1 (mm)
0	2	75
0	3	125
0	4	125
0	5	190
0	6	190
1	1	86
1	2	125
1	3	125
1	4	190
1	5	190

CM *Closing magnetic circuit.*
AM *Mechanical latching with electrical release (single or double).*
S *Condemnation in open position through safety lock*
PC *contactor pole.*
PR *rupturing pole.*
P *left bearing.*
SE *Separator*
S *lock support.*
RA *connecting sections*
PF *fixation plane.*
AF *fixation axis*
Z *total length of fixation bars (Z=A+A1+65) or more on request.*

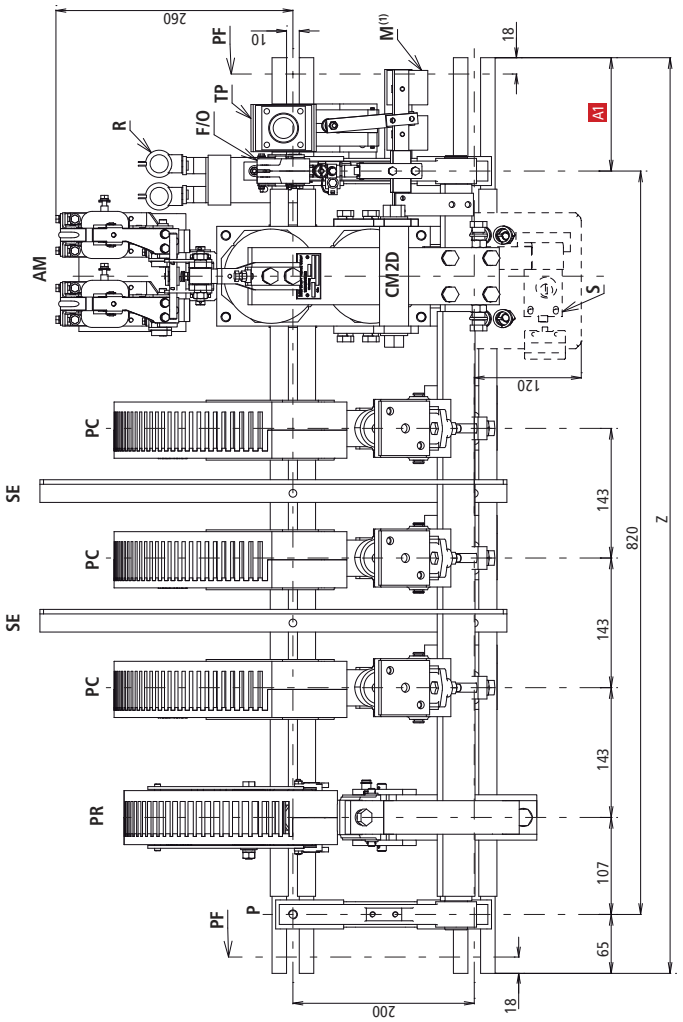
(1) Auxiliary contacts block, shape to be specified.
(2) for use under voltage > 550 ⩽ 1100 V, manual release system AT has to be mounted.
(3) dimensions with separator.

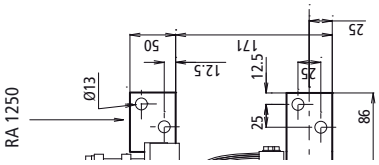
LEN version: *Standard dimensions*
LER version: *Reduced dimensions, page 123.*
Nota : *possibility of an off-load manual closing system, please refer to page 122 .*

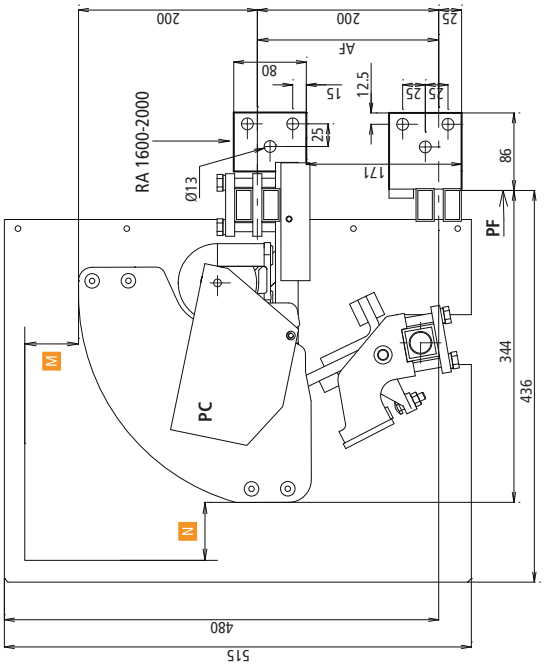
Overall dimensions version LEN

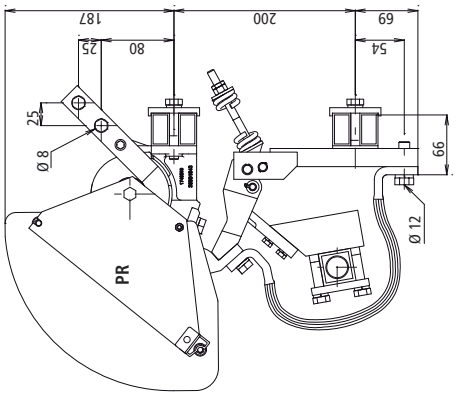
in mm

CEX 71 1250-1600-2000 A *3.1* *Three-pole break*









CM2D *Closing magnetic circuit.*
AM *Mechanical latching with electrical release (single or double).*
S *Condemnation in open position through safety lock*
PC *contactor pole.*
PR *rupturing pole 1000 A.*
RA *connecting sections*
P *left bearing.*
SE *Separator*
S *metallic support for Ronis type lock for locking the contactor (lock not supplied).*
AF *fixation axis*
Z *total length of fixation bars (Z = 885 + A1) or more on request.*
(1) Auxiliary contacts block, shape to be specified.
LEN version: *Standard dimensions*
LER version: *Reduced dimensions, page 123.*
Nota : *possibility of an off-load manual closing system, please refer to page 122.*

Insulating distance (safety perimeter)

	M	N
Metallic walls	200	240
Insulated walls	150	200

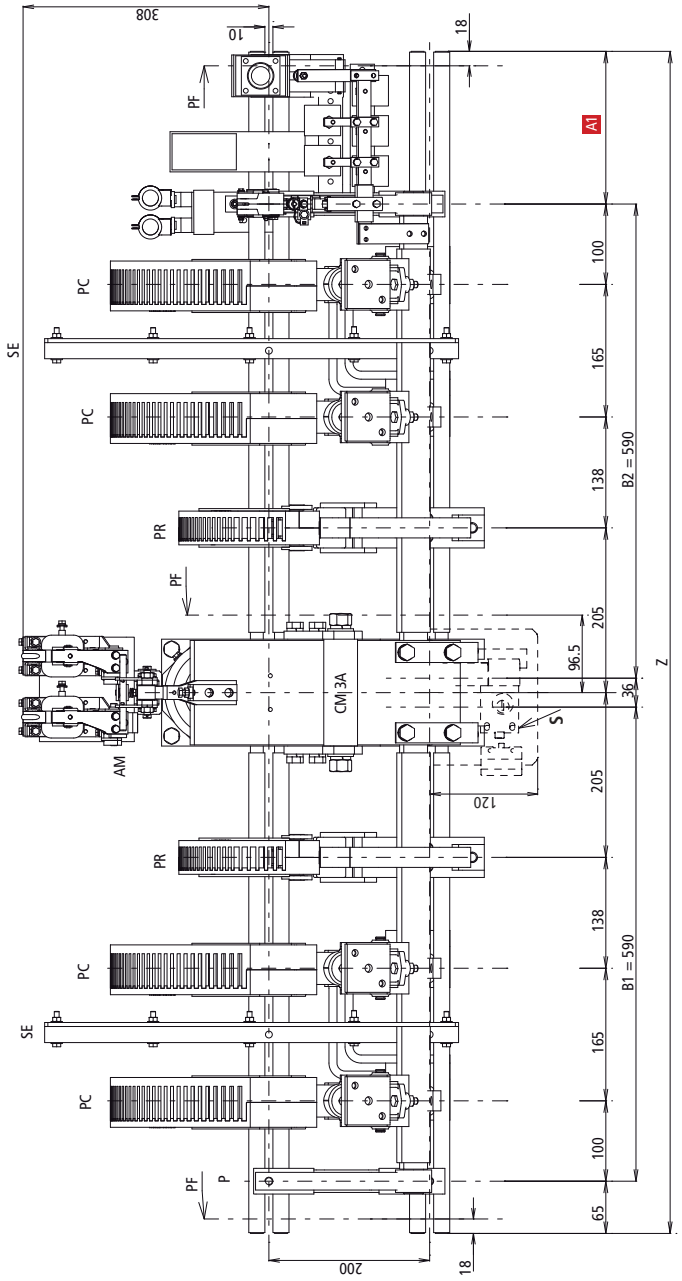
Protrusion A1

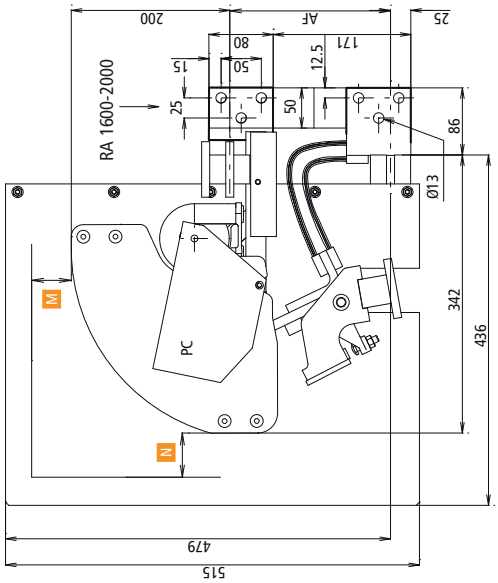
Number of blocs M(1)	A1 (mm)
1	75
2	75
3	125
4	125
5	190
6	190

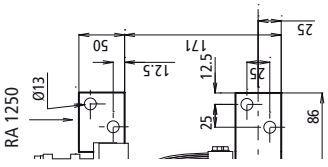
Overall dimensions version LEN

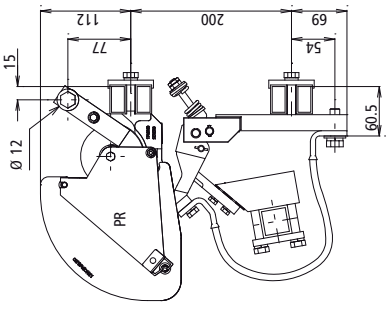
in mm

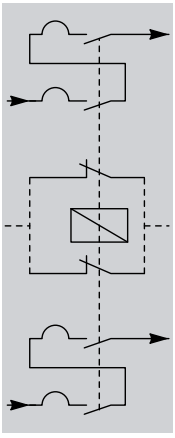
CEX 06 1250-1600-2000 A *4.2* *Four-pole break*











CM3A *Closing magnetic circuit.*
AM *Mechanical latching with electrical release (single or double).*
S *Condemnation in open position through safety lock*
PC *contactor pole.*
PR *rupturing pole 1000 A.*
RA *connecting sections.*
P *left bearing.*
SE *Separator*
S *metallic support for Ronis type lock for locking the contactor (lock not supplied).*
AF *fixation axis*
Z *total length of fixation bars (Z = 885 + A1) or more on request.*
(1) *Auxiliary contacts block, shape to be specified.*
LEN version: *Standard dimensions*
LER version: *Reduced dimensions, page 123.*
Nota : *possibility of an off-load manual closing system, please refer to page 122.*

Insulating distance (safety perimeter)

Voltage V	Metallic walls M	Metallic walls N	Insulated walls M	Insulated walls N
⩽ 220	150	200	120	160
> 220	200	240	150	200

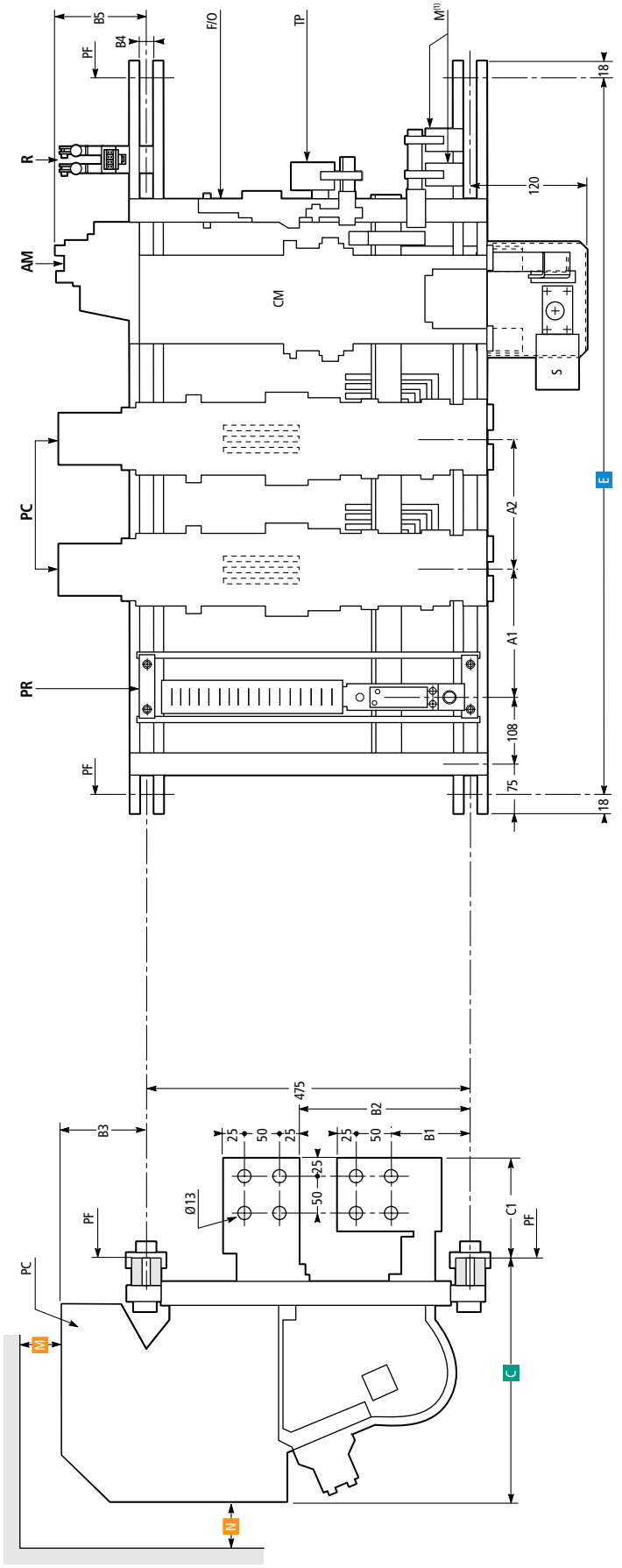
Protrusion A1

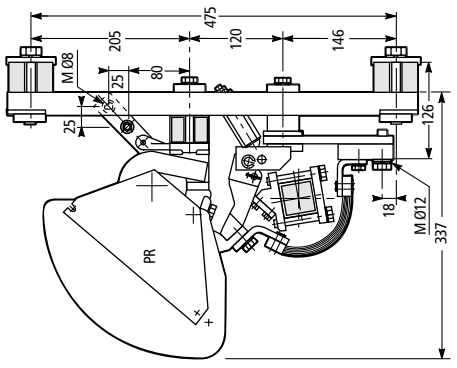
Number of blocs M(1)	A1 (mm)
1	75
2	75
3	125
4	125
5	190
6	190

Overall dimensions

in mm

CEX 54 3000 - 60 5000 A *2.1* — *Single-pole and two-pole break*





AM *Mechanical latching with electrical release (single or double).*
AP *pole axis.*
CCM *Closing magnetic circuit.*
F/O *insertion contact for economy resistor.*
M *M type block(1).*
PC *contactor pole.*
PF *fixation plane.*

PR *800A or 1000A rupturing pole.*
R *economy resistor.*
S *Condemnation in open position through safety lock.*
TP *block with 2 delayed contacts(1).*
(1) Auxiliary contacts block, shape to be specified.

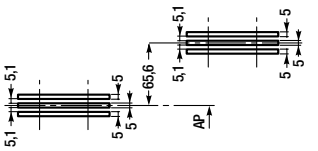
	E		A1	A2	B1	B2	B3	B4	B5	C	C1
	1 pole	2 poles									
3000 A	815	995	190	180	118	250	110,5	14,5	136	408	146
5000 A	885	1115	215	230	127	252	119,5	16	141	427	130

Insulating distance (safety perimeter)

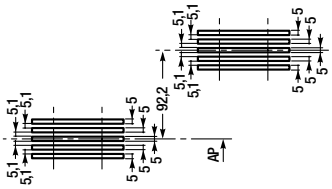
Voltage V		Metallic walls		Insulated walls	
		M	N	M	N
3000 A	⩽ 300	200	100	100	65
	> 300	400	300	200	100
5000 A	⩽ 300	400	400	250	250
	> 300	-	-	250	250

Connecting section

CEX 3000 A



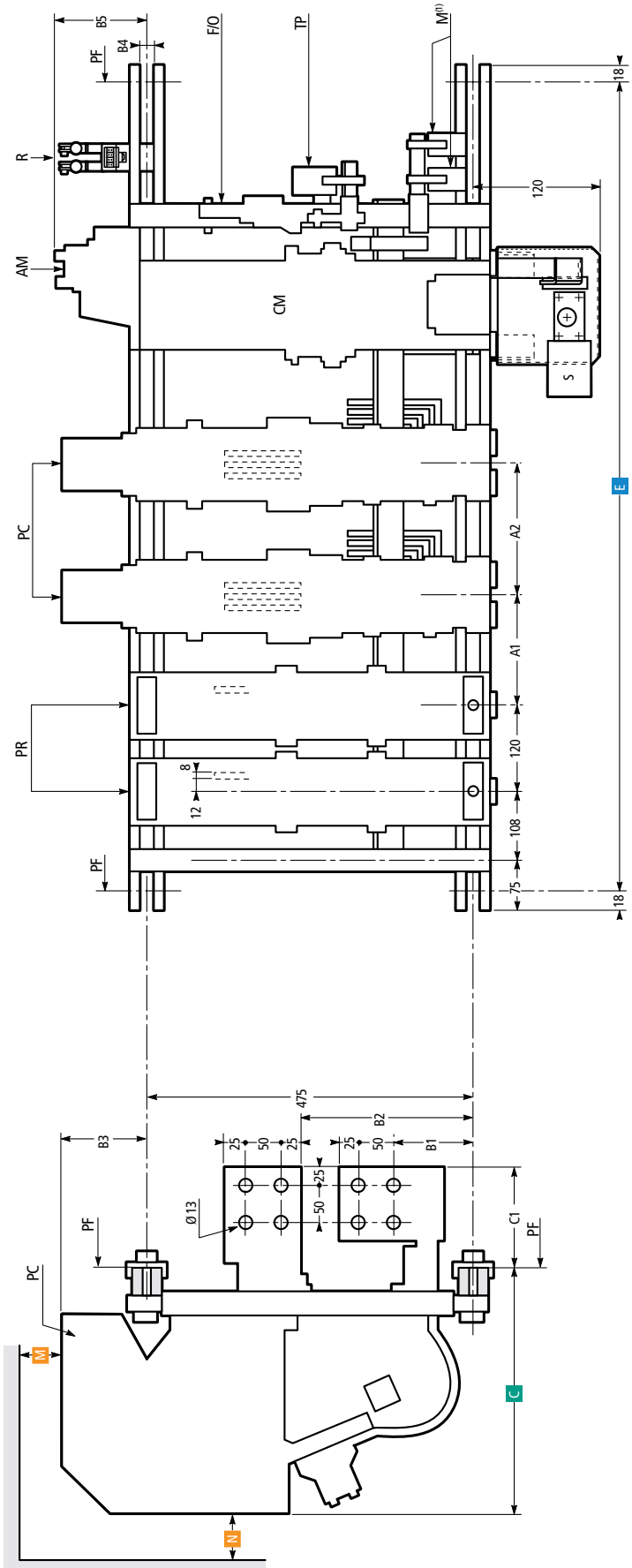
CEX 5000 A

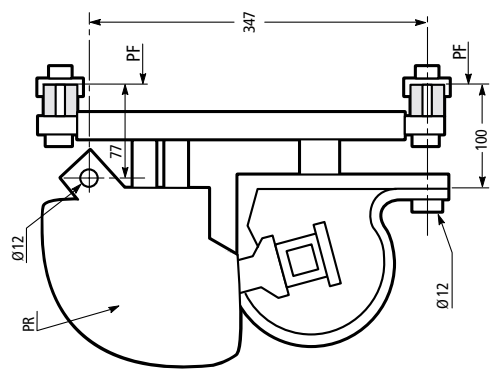


Overall dimensions

in mm

CEX 54 3000 - 60 5000 A *2.2* — *Single-pole and two-pole break*





AM *Mechanical latching with electrical release (single or double).*
AP *pole axis.*
CM *closing magnetic circuit.*
F/O *insertion contact for economy resistor.*
M *M type block(1).*
PC *contactor pole.*
PF *fixation plane.*

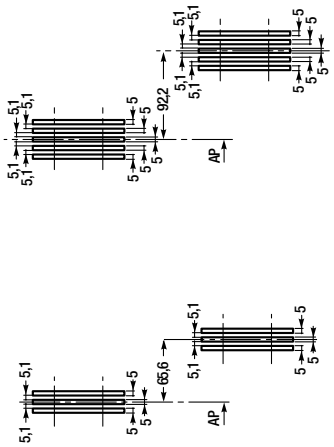
PR *two 500 A rupturing poles.*
R *economy resistor.*
S *Condemnation in open position through safety lock.*
TP *block with 2 delayed contacts(1).*
(1) *Auxiliary contacts block, shape to be specified.*

	E		A1	A2	B1	B2	B3	B4	B5	C	C1
	1 pole	2 poles									
3000 A	930	1110	144	180	118	250	110,5	14,5	136	408	146
5000 A	1000	1230	169	230	127	252	119,5	16	141	427	130

Insulating distance (safety perimeter)

Voltage V		Metallic walls		Insulated walls	
		M	N	M	N
3000 A	⩽ 300	200	100	100	65
	> 300	400	300	200	100
5000 A	⩽ 300	400	400	250	250
	> 300	-	-	250	250

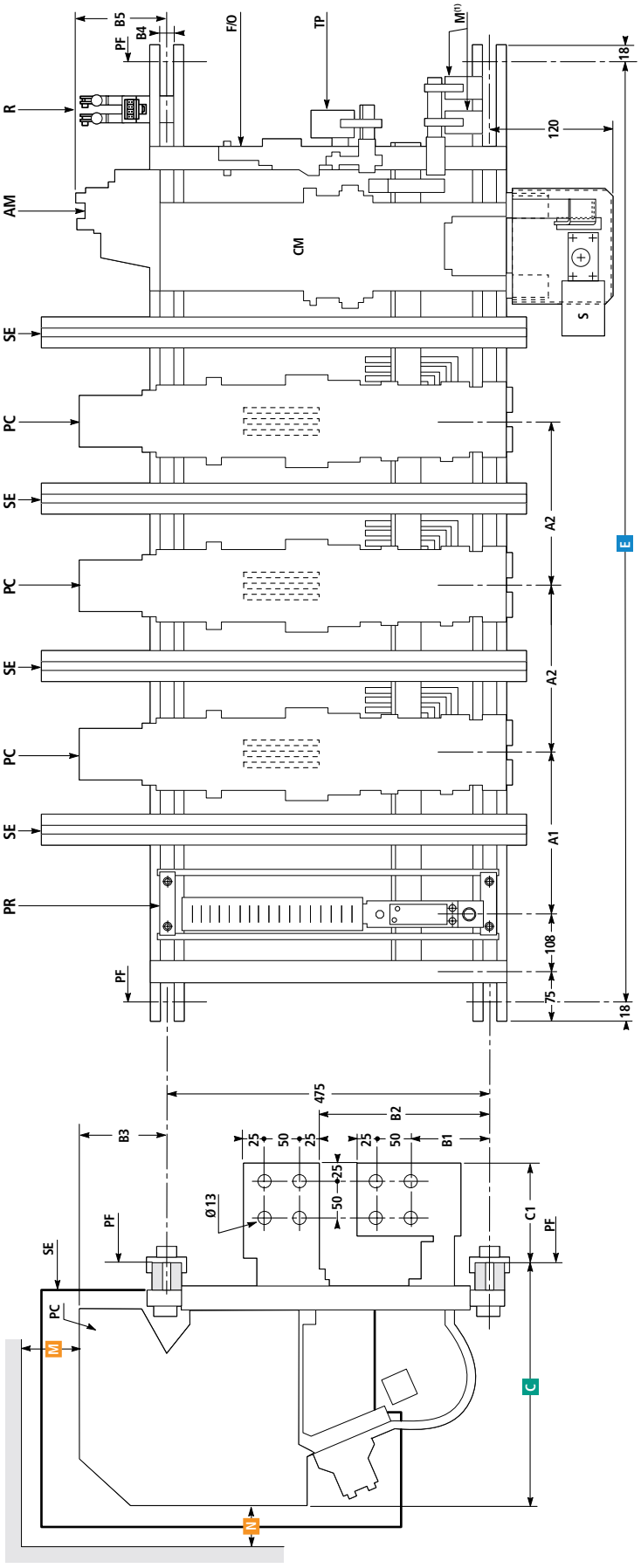
Connecting section



Overall dimensions

in mm

CEX 54 3000 A *3.1* — *Two-pole break*



AM *Mechanical latching with electrical release (single or double).*
AP *pole axis.*
CM *closing magnetic circuit.*
F/O *insertion contact for economy resistor.*
M *M type block(1).*
PC *contactor pole.*
PF *fixation plane.*

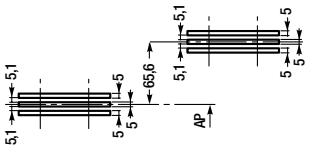
PR *800A or 1000A rupturing pole.*
R *economy resistor.*
S *Condemnation in open position through safety lock.*
SE *Separator.*
TP *block with 2 delayed contacts(1).*
(1) Auxiliary contacts block, shape to be specified.

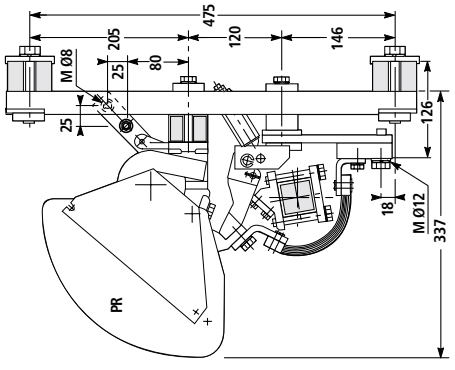
	E	A1	A2	B1	B2	B3	B4	B5	C	C1
3000 A	1474	226	216	118	250	110,5	14,5	136	408	146

Insulating distance (safety perimeter)

	M	N
Metallic walls	400	300
Insulated walls	250	150

Connecting section



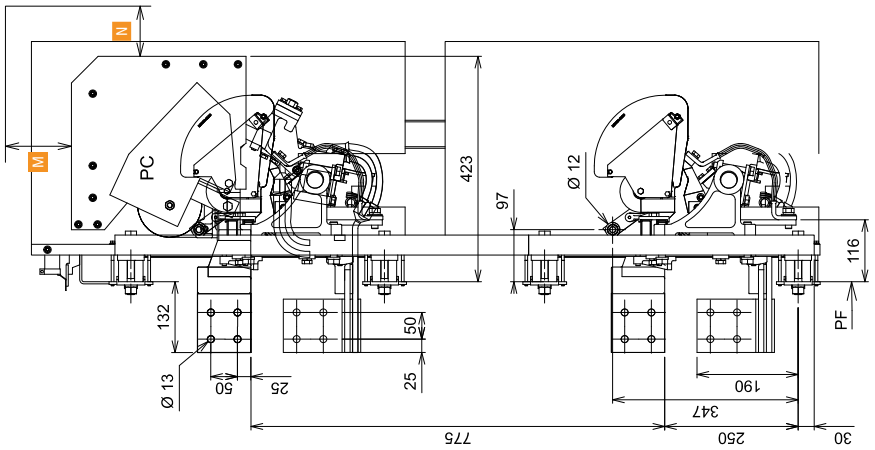


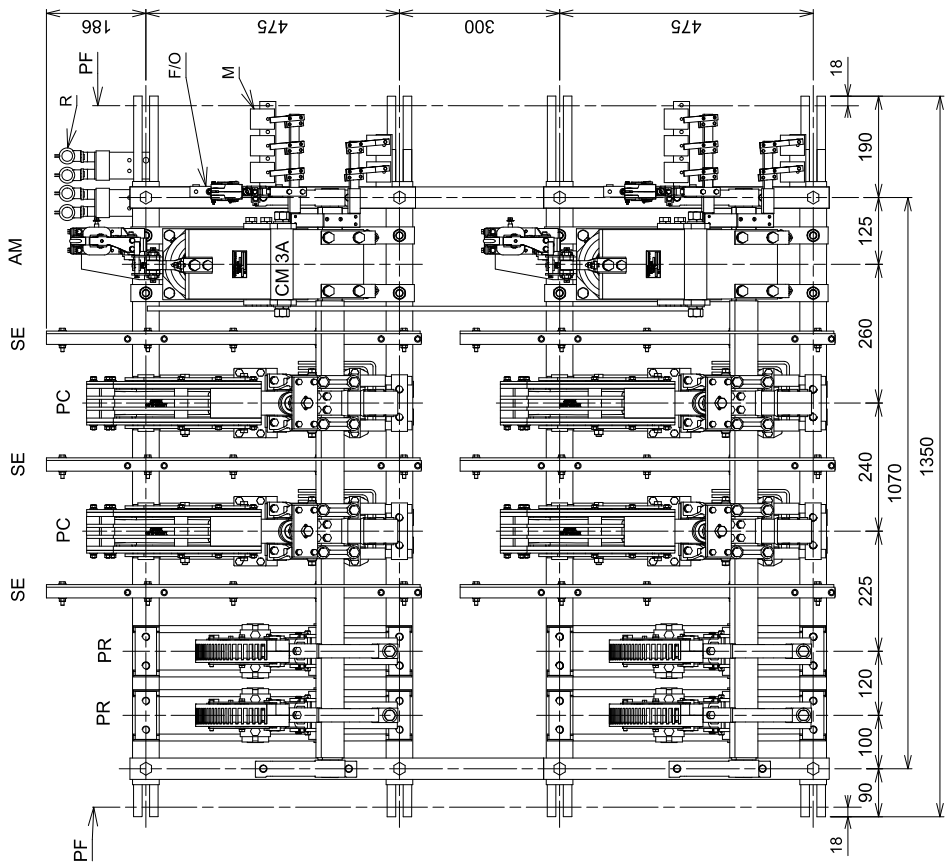
Overall dimensions

in mm

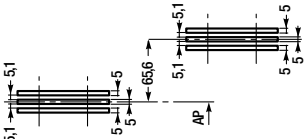
2xCEX 54 3000 A

2 bipolar breaks in series





Connecting section

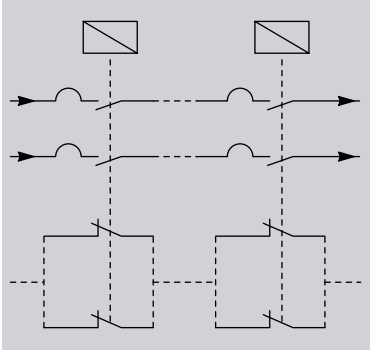


Insulating distance (safety perimeter)

	M	N
Metallic walls	400	300
Insulated walls	250	150

PF *fixation plane.*
PR *800A or 1000A rupturing pole.*
R *economy resistor.*
SE *Separator.*
TP *block with 2 delayed contacts(1).*
(1) Auxiliary contacts block, shape to be specified.

AM *Mechanical latching with electrical release (single or double).*
AP *pole axis.*
CM *closing magnetic circuit.*
F/O *insertion contact for economy resistor.*
M *M type block(1).*
PC *Contactor pole.*

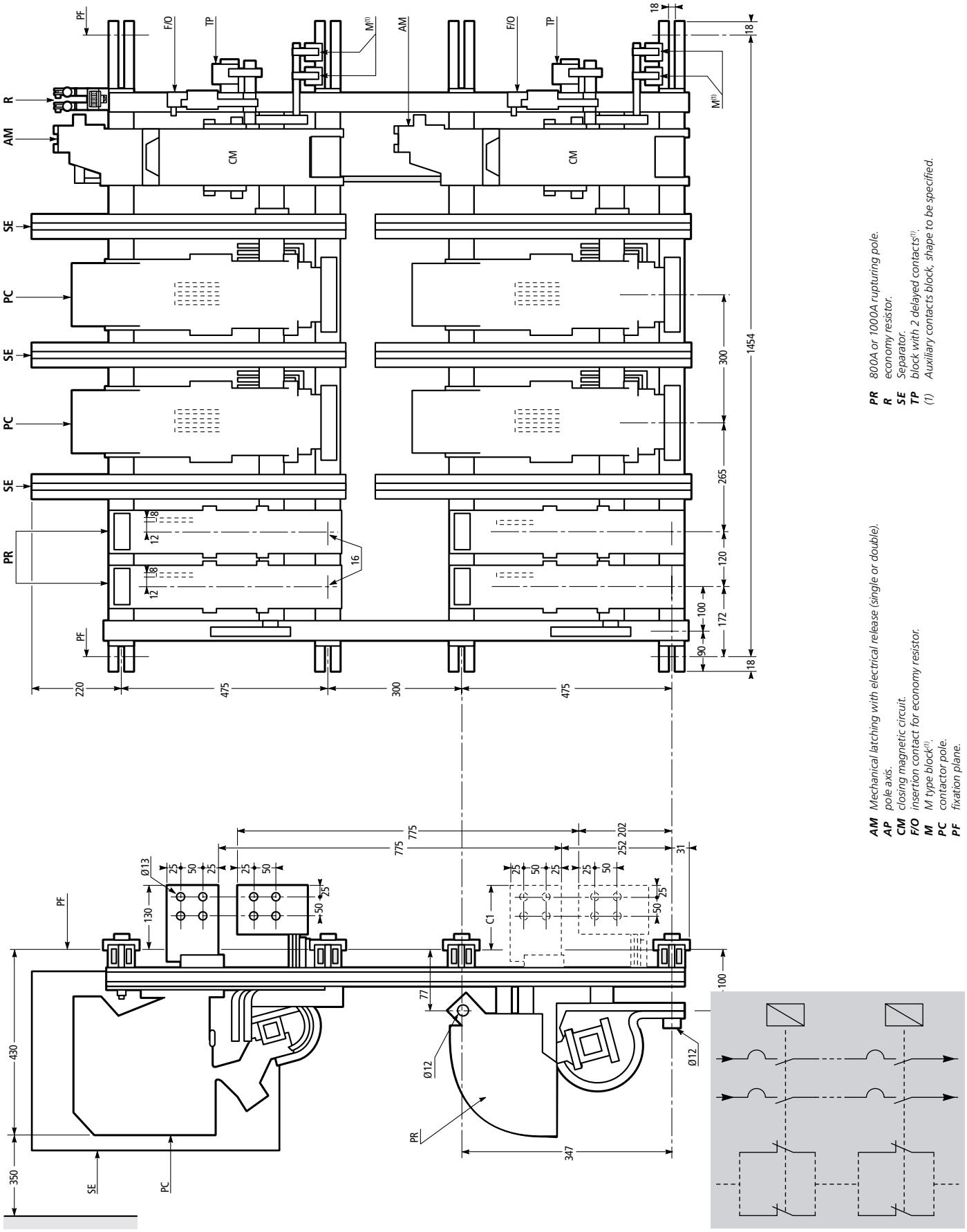


Overall dimensions

in mm

2xCEX 60 5000 A

2 bipolar breaks in series



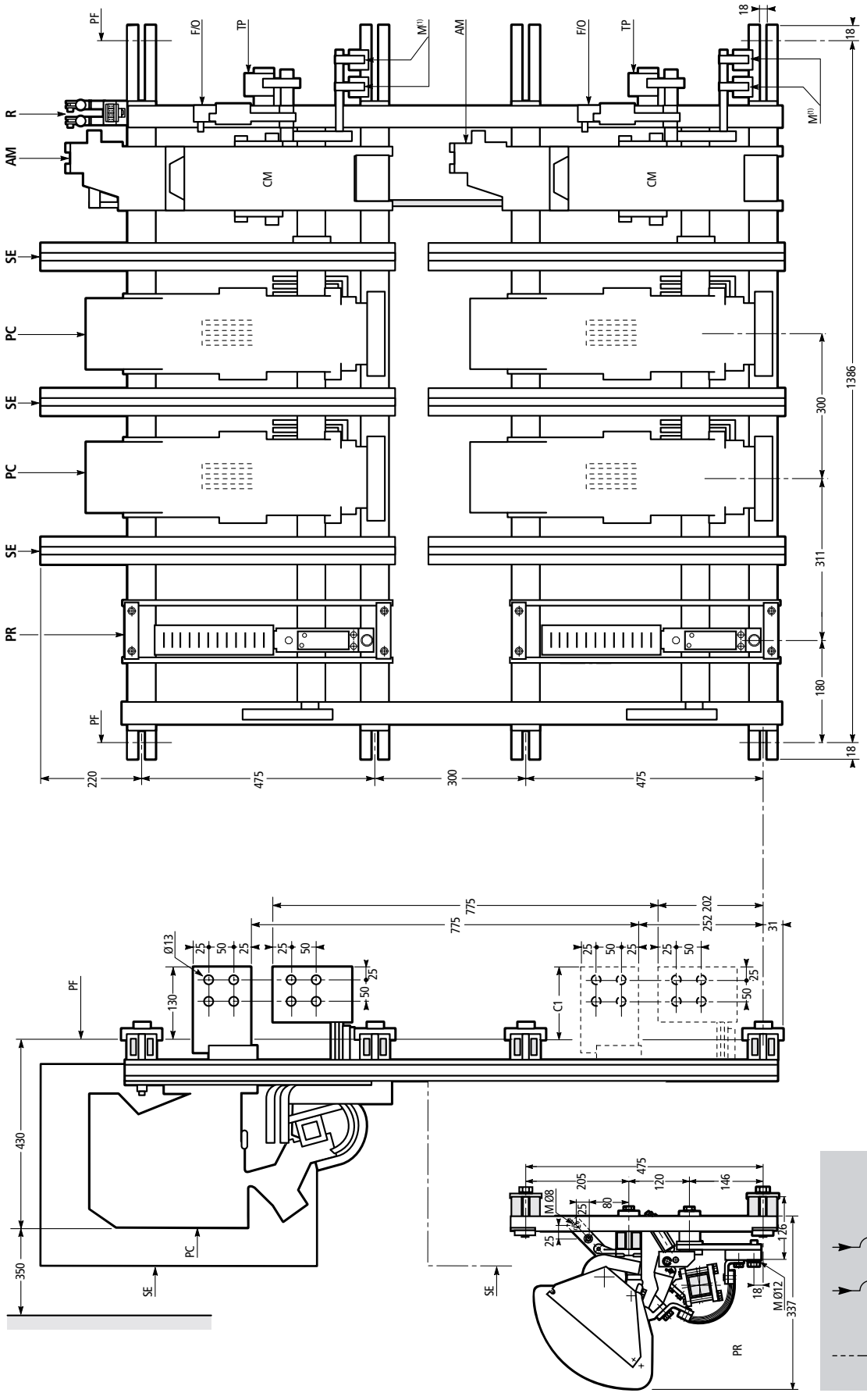
PR *800A or 1000A rupturing pole.*
R *economy resistor.*
SE *Separator.*
TP *block with 2 delayed contacts(1).*
(1) Auxiliary contacts block, shape to be specified.

AM *Mechanical latching with electrical release (single or double).*
AP *pole axis.*
CM *closing magnetic circuit.*
F/O *insertion contact for economy resistor.*
M *M type block(1).*
PC *contactor pole.*
PF *fixation plane.*

Overall dimensions

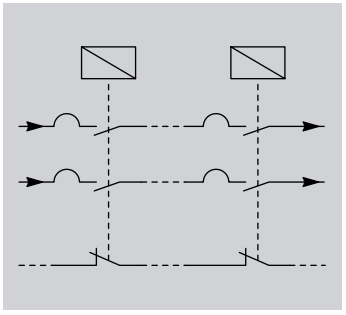
in mm

2xCEX 54 3000 to 60 5000 A *2 bipolar breaks in series*



PR *rupturing pole 1000 A.*
R *economy resistor.*
SE *Separator.*
TP *block with 2 delayed contacts(1).*
(1) Auxiliary contacts block, shape to be specified.

AM *Mechanical latching with electrical release (single or double).*
AP *pole axis.*
CM *closing magnetic circuit.*
F/O *insertion contact for economy resistor.*
M *M type block(1).*
PC *contactor pole.*
PF *fixation plane.*



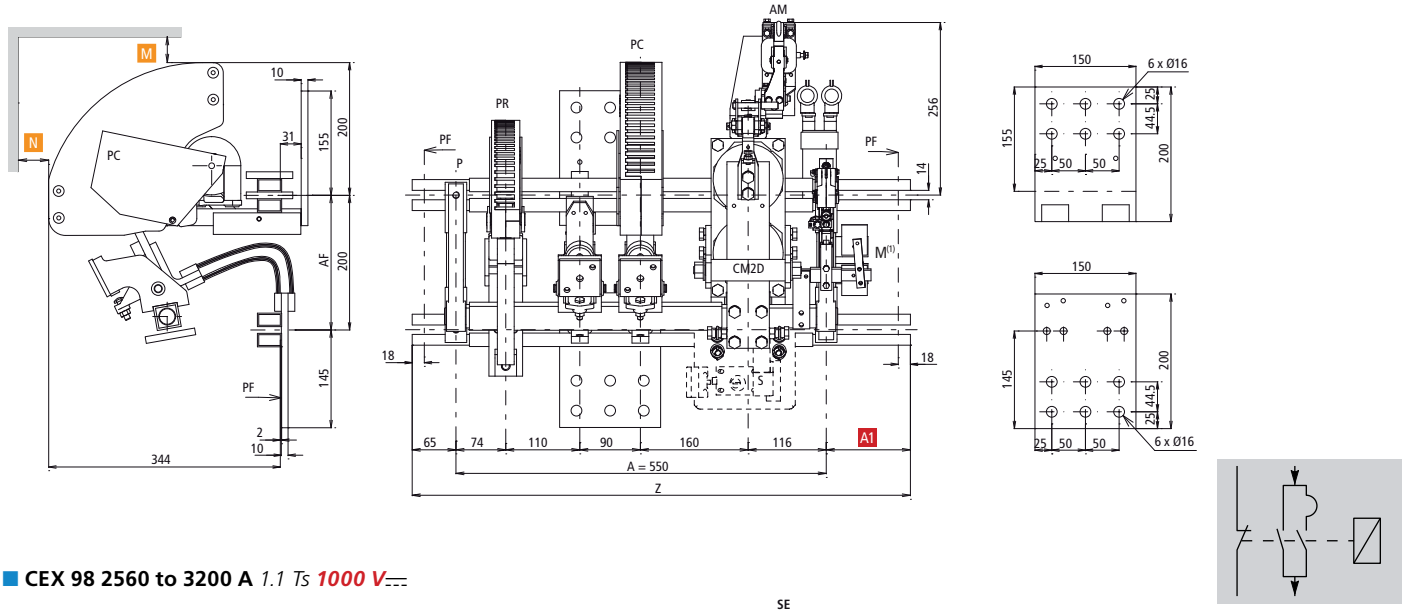
Overall dimensions - LEN version

in mm

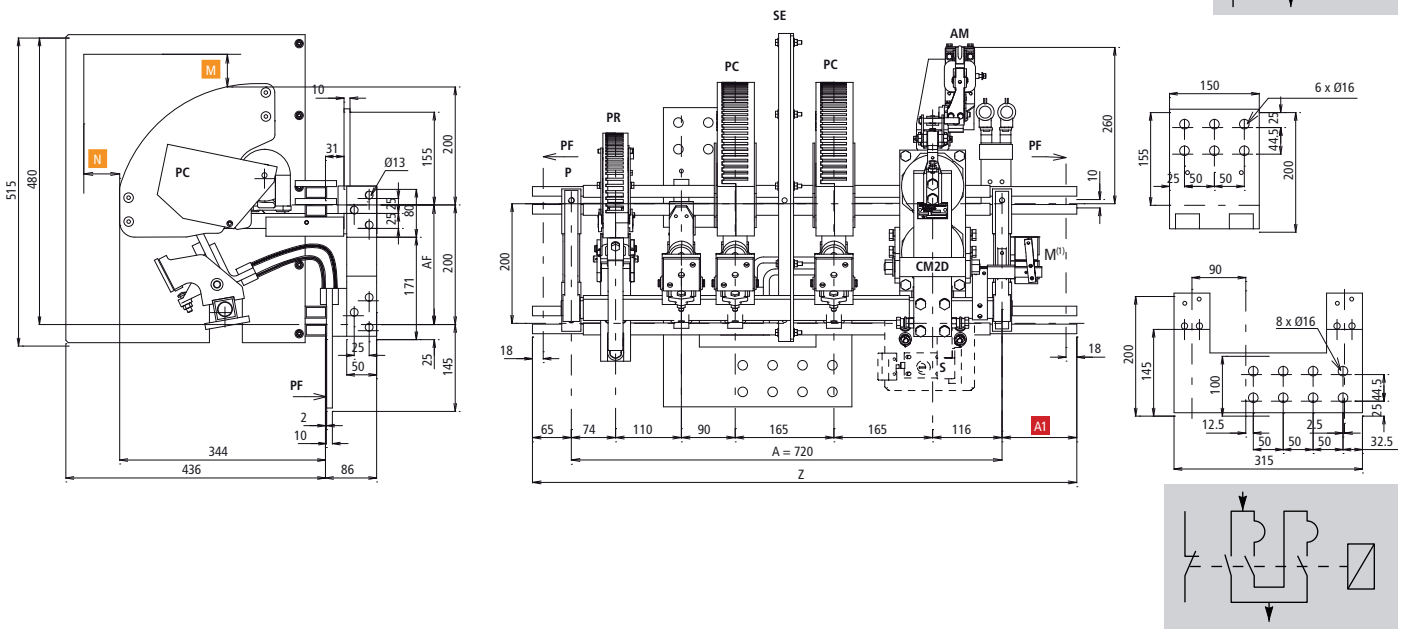
CEX 98 2560 to 3200 A

Single-pole and two-pole break en series

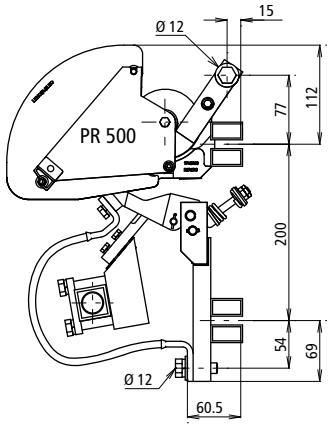
CEX 98 2560 à 3200 A *1.1 Ts* ***600 V⎓***



CEX 98 2560 to 3200 A *1.1 Ts* ***1000 V⎓***



500A rupturing pole *with overlapping*



AF *Fixation axis.*
AM *Mechanical latching with electrical release (single or double).*
S *Condamnation en position ouvert par serrure de sécurité*
CM2D *Closing magnetic circuit.*
PC *Contactor pole.*
PF *Fixation plane.*
PR *Rupturing pole 500 A avec recouvrement.*
SE *Separator.*
Z *Total length of fixation bars (Z = 65 + A + A1)*
(1) Auxiliary contacts block, shape to be specified.
LEN version: *Standard dimensions*
LER version: *Reduced dimensions, page 123.*
Nota : *possibility of an off-load manual closing system, please refer to page 122.*

Insulating distance (safety perimeter)

Voltage V	Metallic walls		Insulated walls	
	M	N	M	N
⩽ **220**	150	200	120	160
> **220**	200	240	150	200

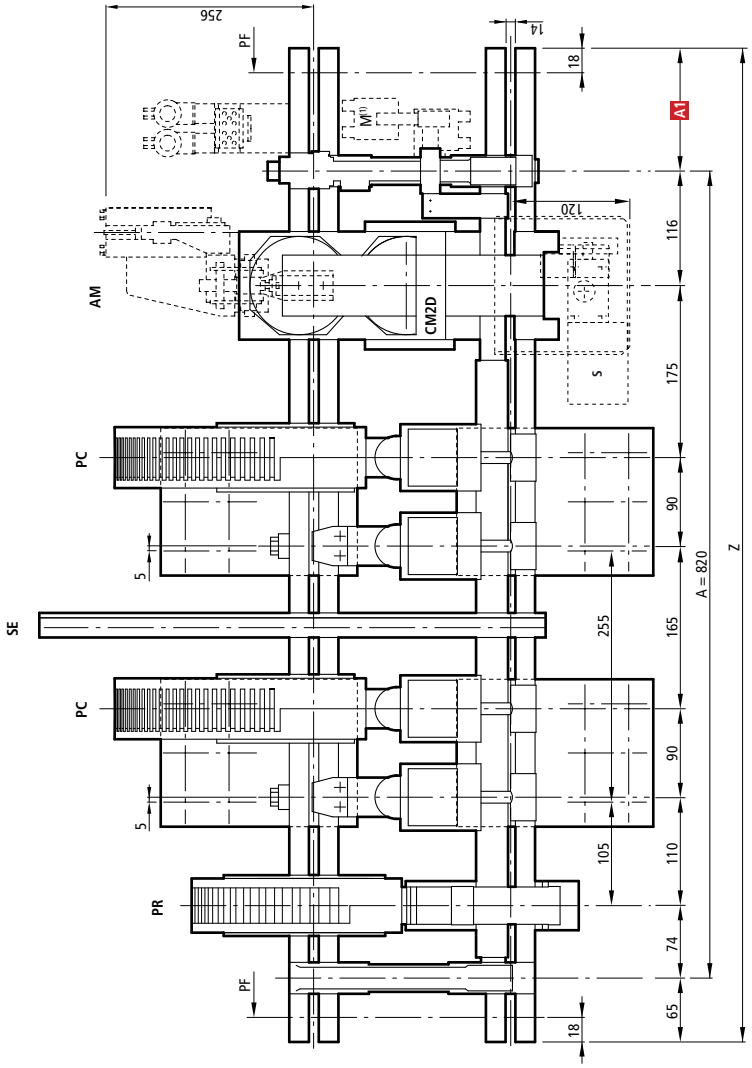
Protrusion A1

Number blocs temporisés	Number of blocs M(1)	A1 (mm)
0	2	75
0	3	125
0	4	125
0	5	190
0	6	190
1	1	86
1	2	125
1	3	125
1	4	190
1	5	190

Overall dimensions - LEN version

in mm

CEX 98 2560 to 3200 A *2.1* — *Two-pole break*

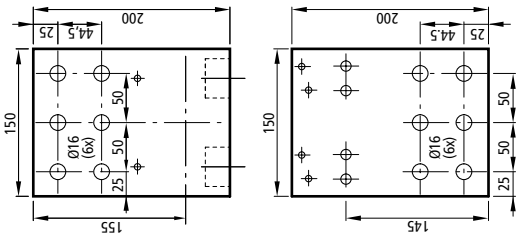


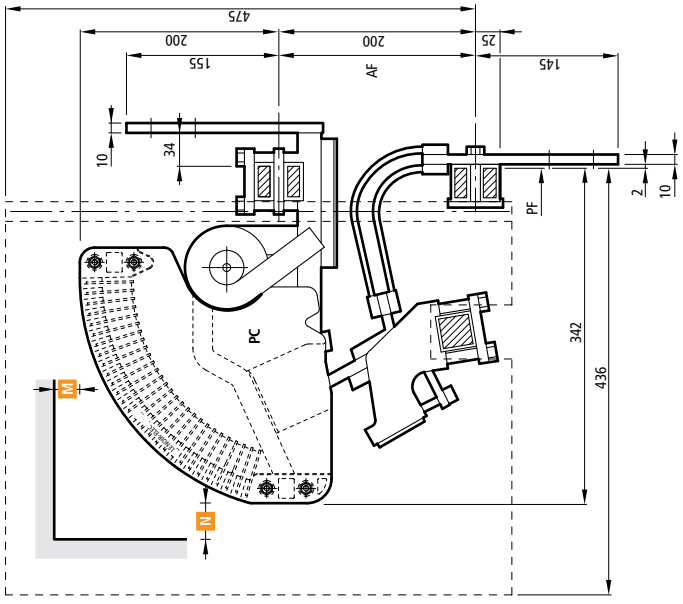
Insulating distance (safety perimeter)

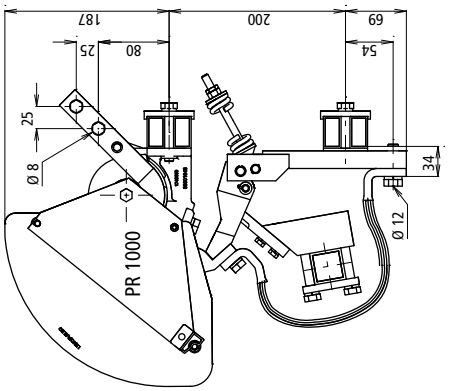
Voltage V	Metallic walls M	Metallic walls N	Insulated walls M	Insulated walls N
⩽ 220	150	200	120	160
> 220	200	240	150	200

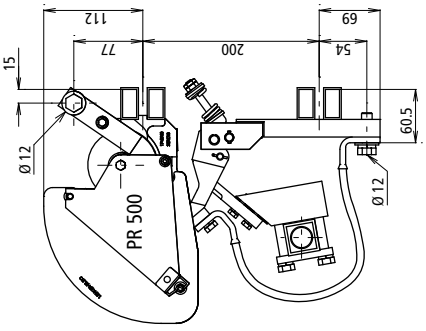
Protrusion A1

Number of delayed blocks	Number of blocs M(1)	A1 (mm)
0	2	75
0	3	125
0	4	125
0	5	190
0	6	190
1	1	86
1	2	125
1	3	125
1	4	190
1	5	190



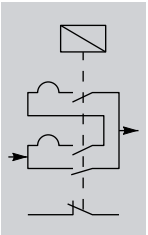






AF *fixation axis.*
AM *Mechanical latching with electrical release (single or double).*
S *Condamnation en position ouvert par serrure de sécurité*
CM2D *Closing magnetic circuit.*
PC *contactor pole.*
PF *fixation plane.*
PR *rupturing pole 500 A avec recouvrement.*

SE *Separator.*
Z *total length of fixation bars (Z = 65 + A + A1)*
(1) Auxiliary contacts block, shape to be specified.
LEN version: *Standard dimensions*
LER version: *Reduced dimensions, page 123.*
Nota : *possibility of an off-load manual closing system, please refer to page 122.*

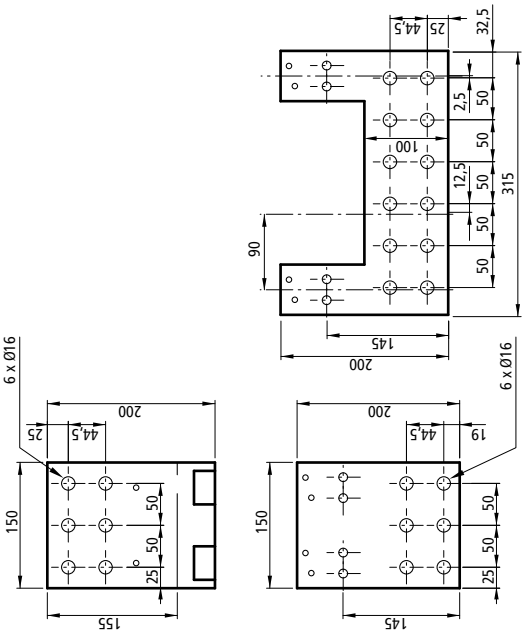


Overall dimensions - LEN version

in mm

CEX 06 2560 to 3200 A *3.1* ***Three-pole break***

Dimensions *cotes en mm*



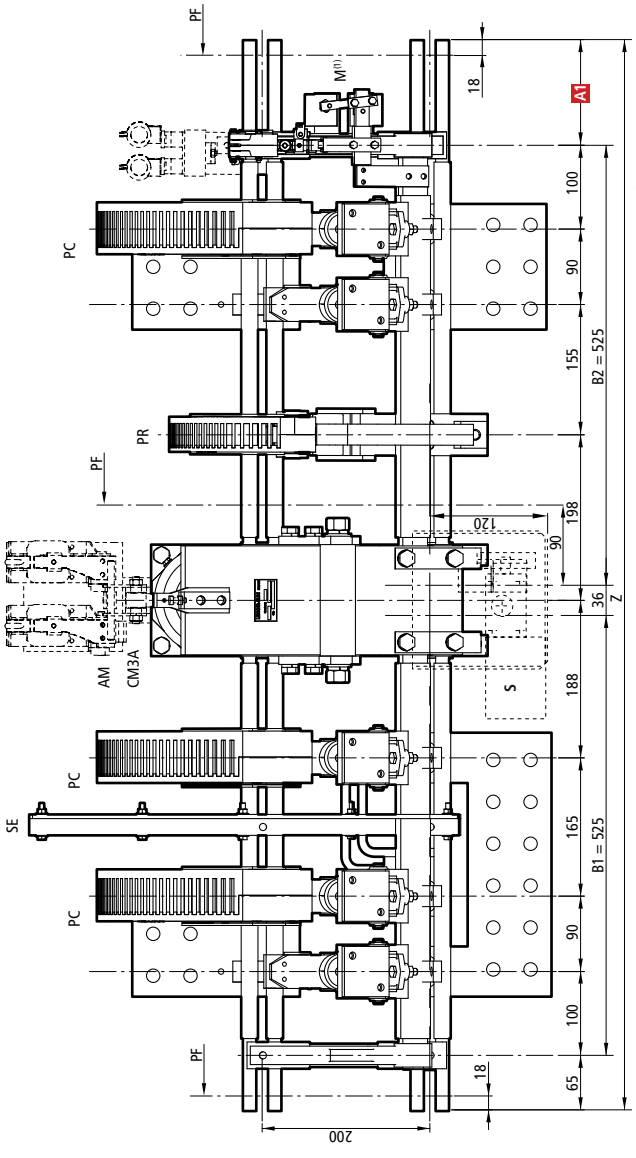
AF *Fixation axis.*
AM *Mechanical latching with electrical release (single or double).*
S *Condemnation in open position through safety lock*
CM2D *Closing magnetic circuit.*
PC *Contactor pole.*
PF *Fixation plane.*
PR *Rupturing pole 500 A avec recouvrement.*
SE *Separator.*
Z *Total length of fixation bars (Z = 1151 + A1)*
(1) Auxiliary contacts block, shape to be specified.
LEN version: *Standard dimensions*
LER version: *Reduced dimensions, page 123.*

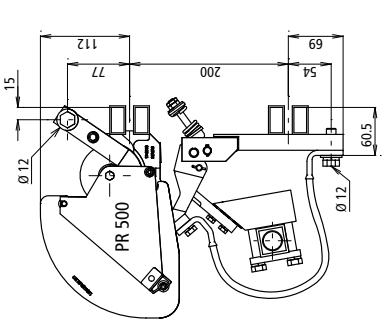
Insulating distance (safety perimeter)

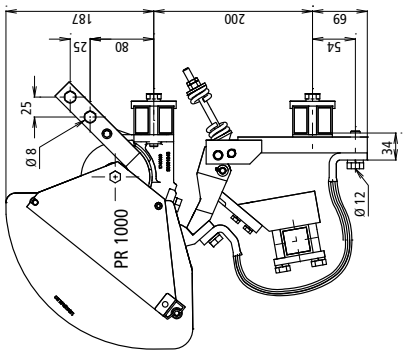
Voltage V	Metallic walls M	Metallic walls N	Insulated walls M	Insulated walls N
≤ 220	150	200	120	160
> 220	200	240	150	200

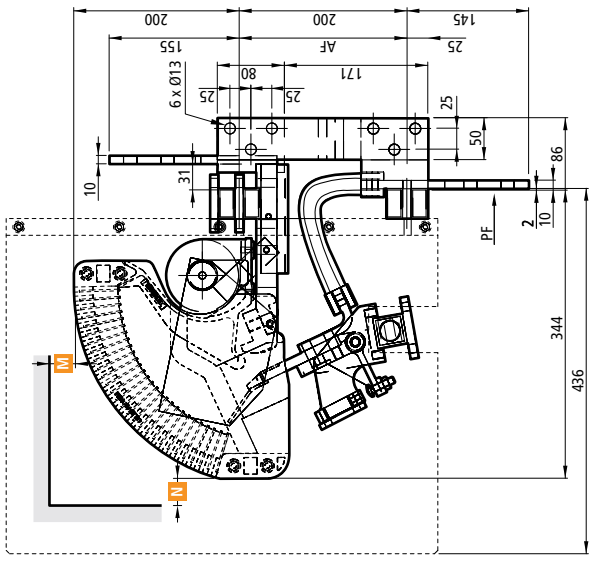
Protrusion A1

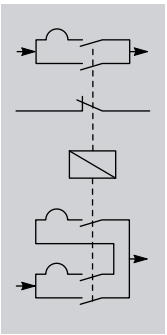
Number of delayed blocks	Number of blocs M(1)	A1 (mm)
0	2	75
0	3	125
0	4	125
0	5	190
0	6	190
1	1	86
1	2	125
1	3	125
1	4	190
1	5	190







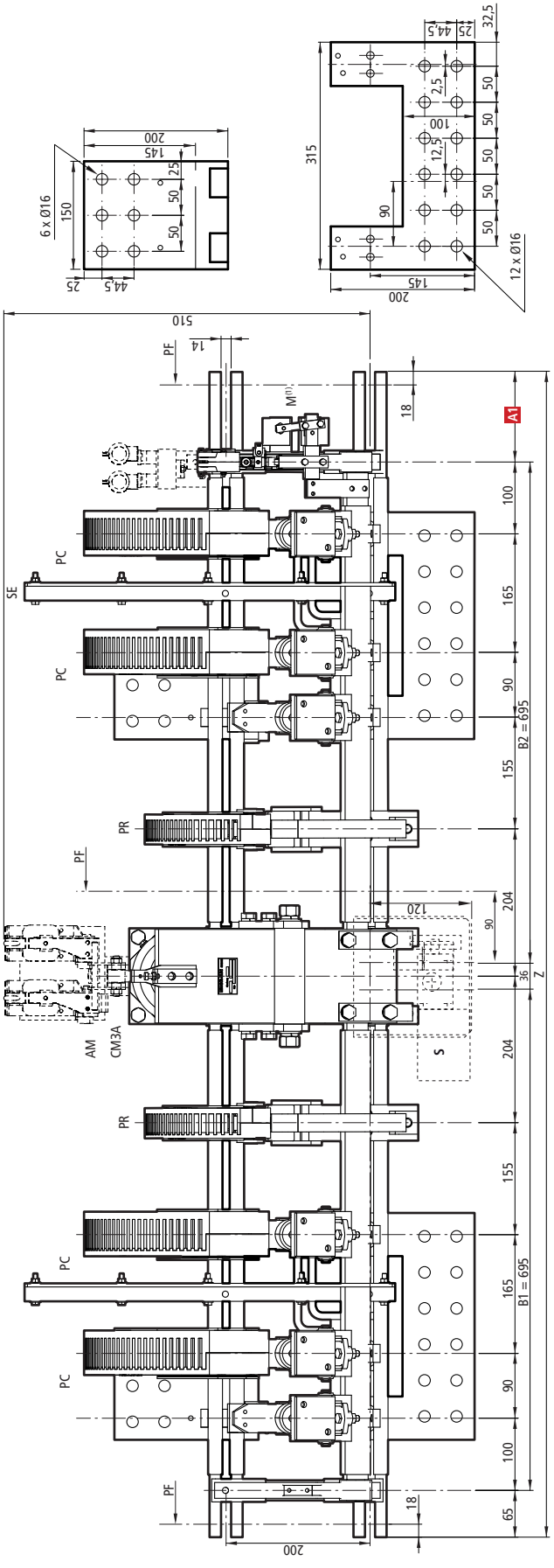




Overall dimensions - LEN version

in mm

CEX 06 2560 to 3200 A *4.2* — *2 bipolar breaks in series (four-pole break)*



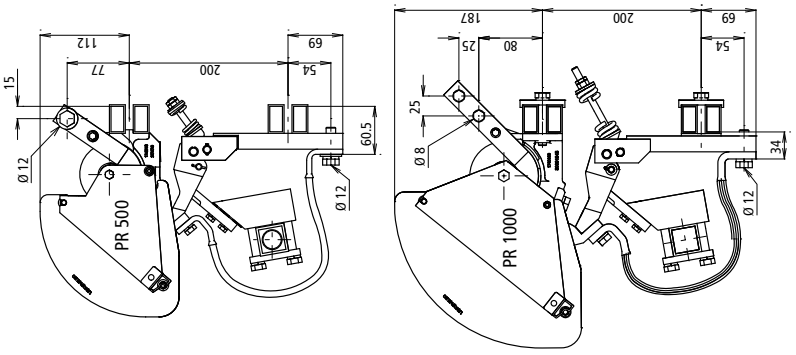
AF Fixation axis.
AM Mechanical latching with electrical release (single or double).
S Condemnation in open position through safety lock.
CM2D Closing magnetic circuit.
PC Contactor pole.
PF Fixation plane.
PR Rupturing pole 500 A avec recouvrement.
SE Separator.
Z Total length of fixation bars (Z = 1493 + A1)
(1) Auxiliary contacts block, shape to be specified.
LEN version: Standard dimensions
LER version: Reduced dimensions, page 123.

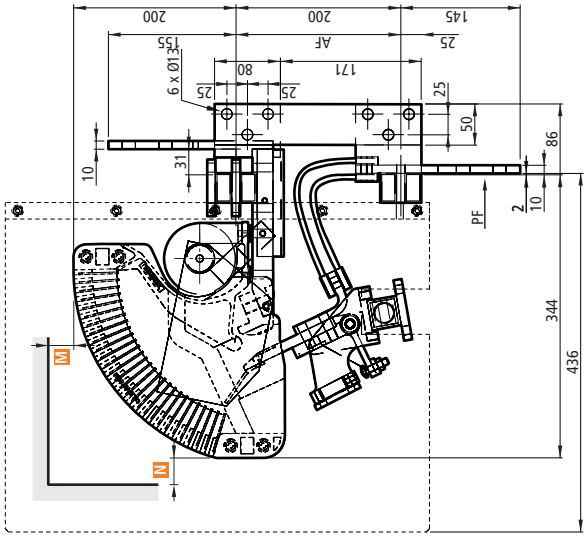
Insulating distance (safety perimeter)

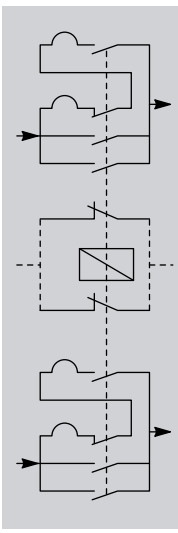
Voltage V	Metallic walls		Insulated walls	
	M	N	M	N
⩽ 220	150	200	120	160
> 220	200	240	150	200

Protrusion A1

Number of delayed blocks	Number of blocs M(1)	A1 (mm)
0	2	75
0	3	125
0	4	125
0	5	190
0	6	190
1	1	86
1	2	125
1	3	125
1	4	190
1	5	190



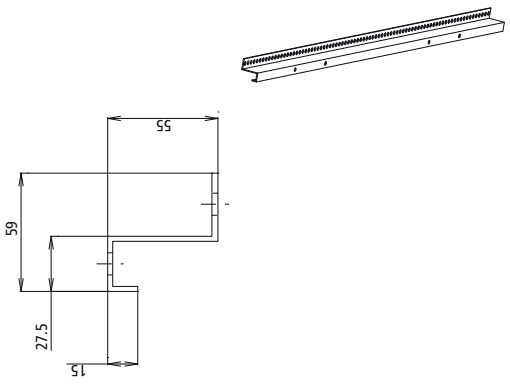




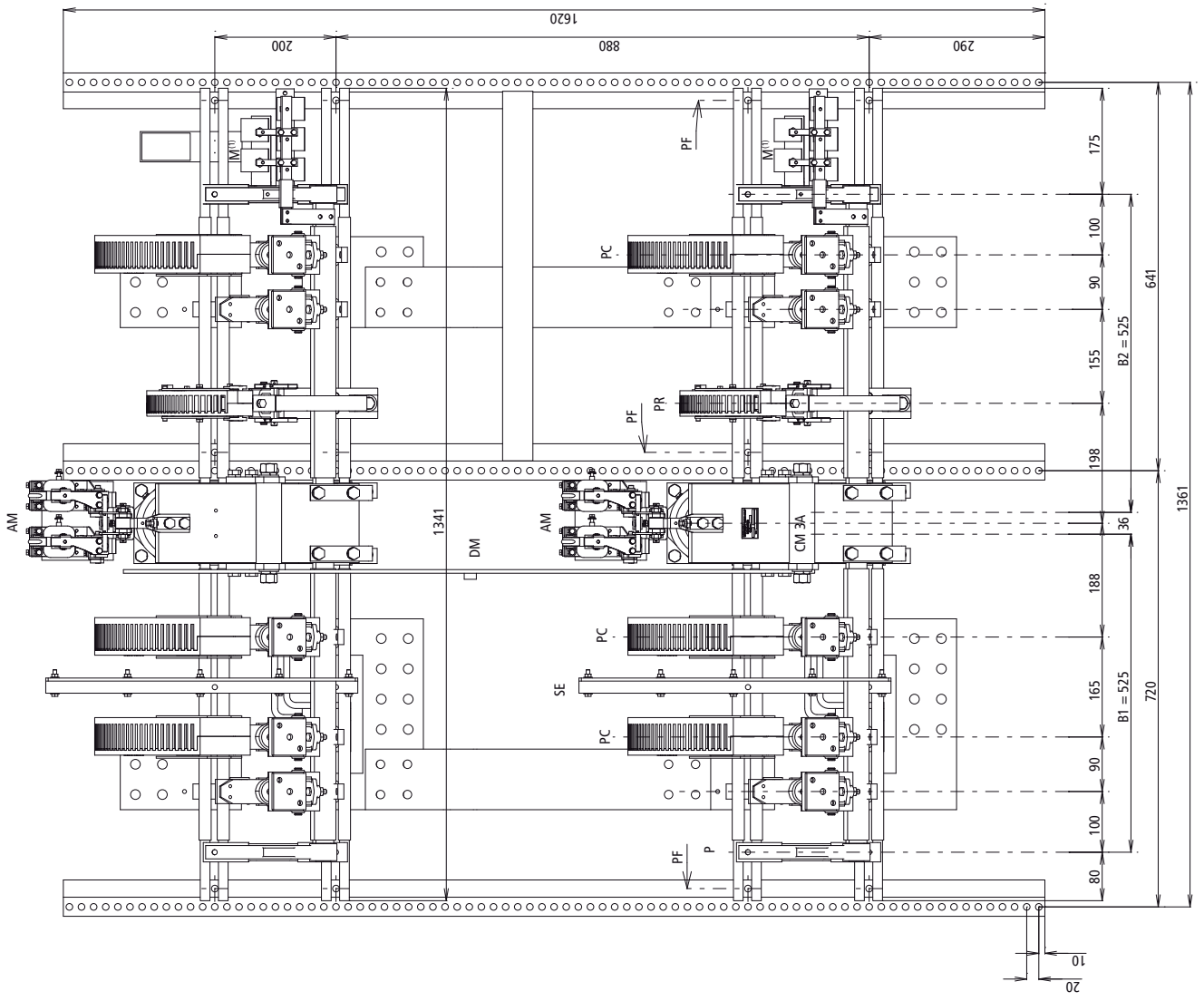
Overall dimensions - LEN version

in mm

2xCEX 06 2560 to 3200 A *3.1* *2 three-pole break*



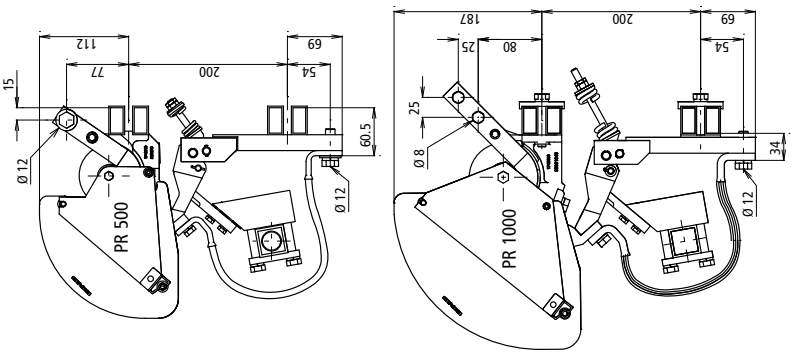
CM3A *Closing magnetic circuit*
PC *Contactor pole.*
PR *Rupturing pole 500 A.*
AM *Mechanical latching with electrical release (single or double).*
DM *Déverrouillage manuel.*
SE *Separator.*
AF *Fixation axis.*
PF *Fixation plane.*
(1) Auxiliary contacts block, shape to be specified.



Overall dimensions

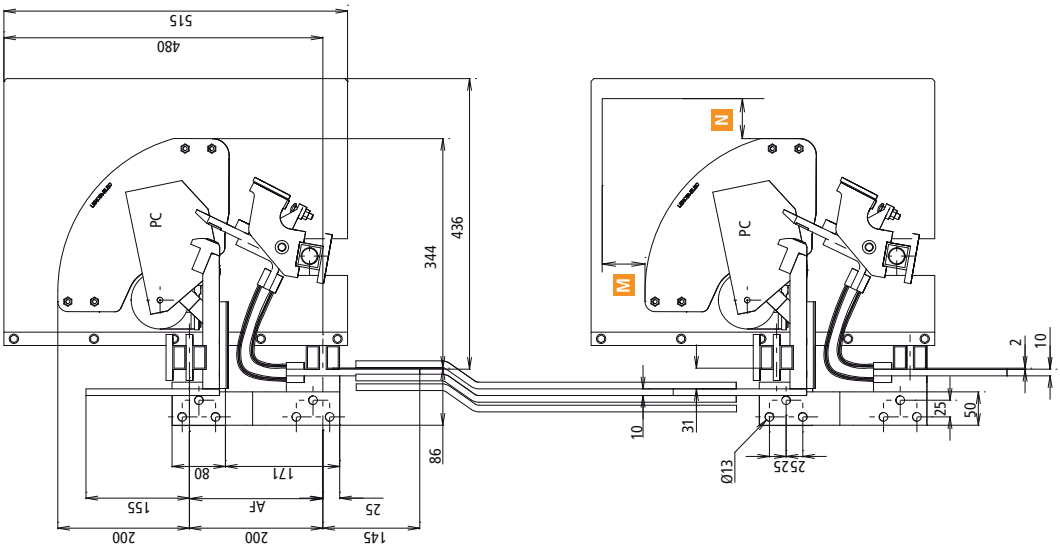
in mm

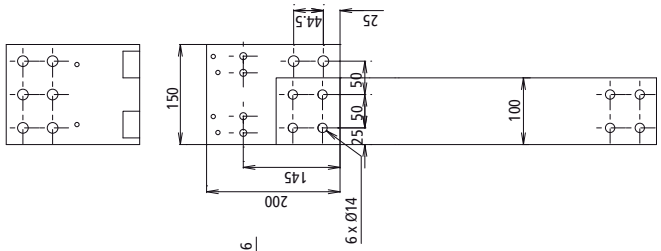
2xCEX 06 2560 to 3200 A *3.1* *2 three-pole break*

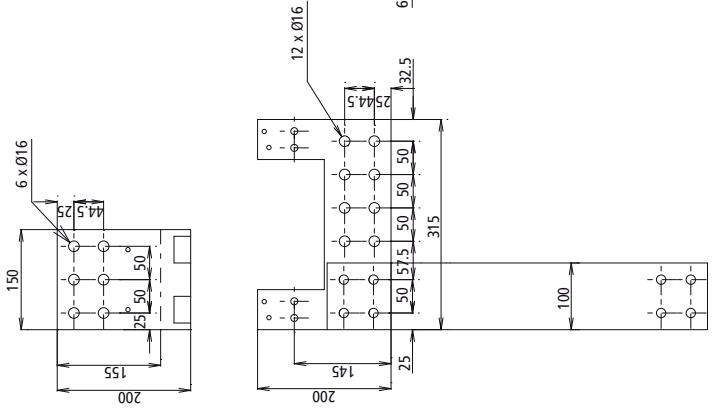


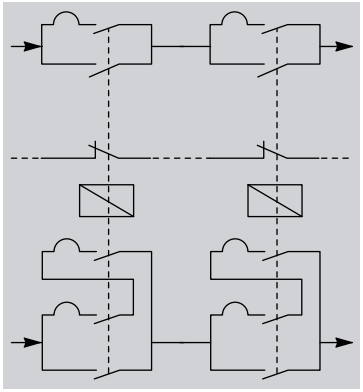
Insulating distance (safety perimeter)

Voltage V	Metallic walls		Insulated walls	
	M	N	M	N
≤ 220	150	200	120	160
> 220	200	240	150	200





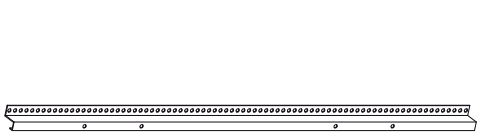


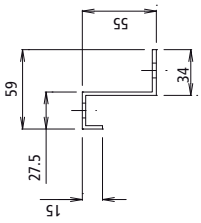


Overall dimensions

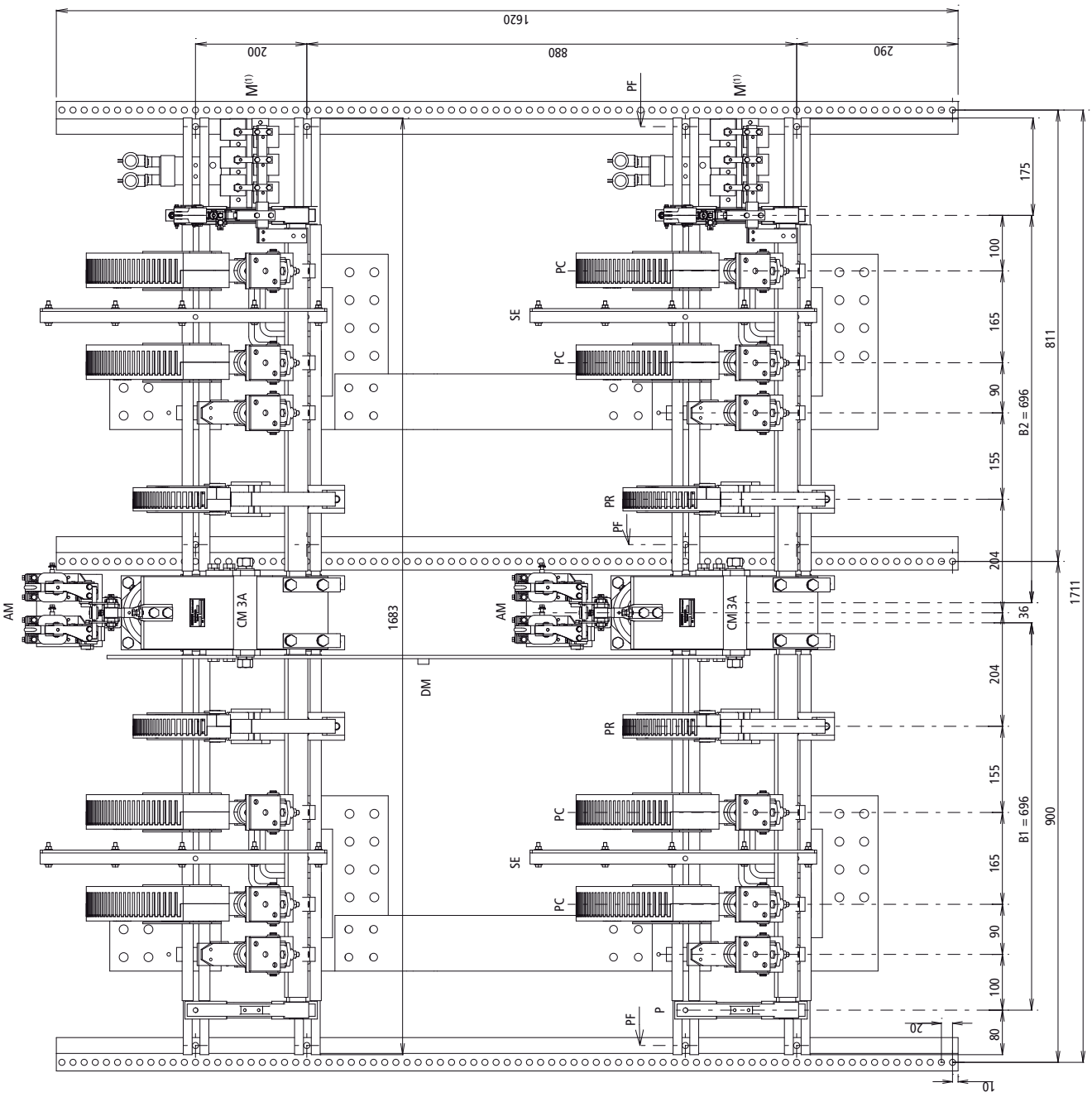
in mm

2xCEX 06 2560 to 3200 A *4.2* *2 four-pole break*





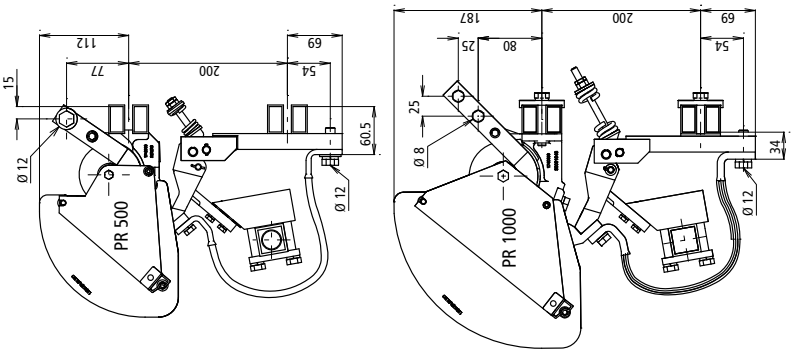
CM3A *Closing magnetic circuit*
PC *Contactor pole.*
PR *Rupturing pole 500 A.*
AM *Mechanical latching with electrical release (single or double).*
DM *Déverrouillage manuel.*
SE *Separator.*
AF *Fixation axis.*
PF *Fixation plane.*
(1) Auxiliary contacts block, shape to be specified.



Overall dimensions

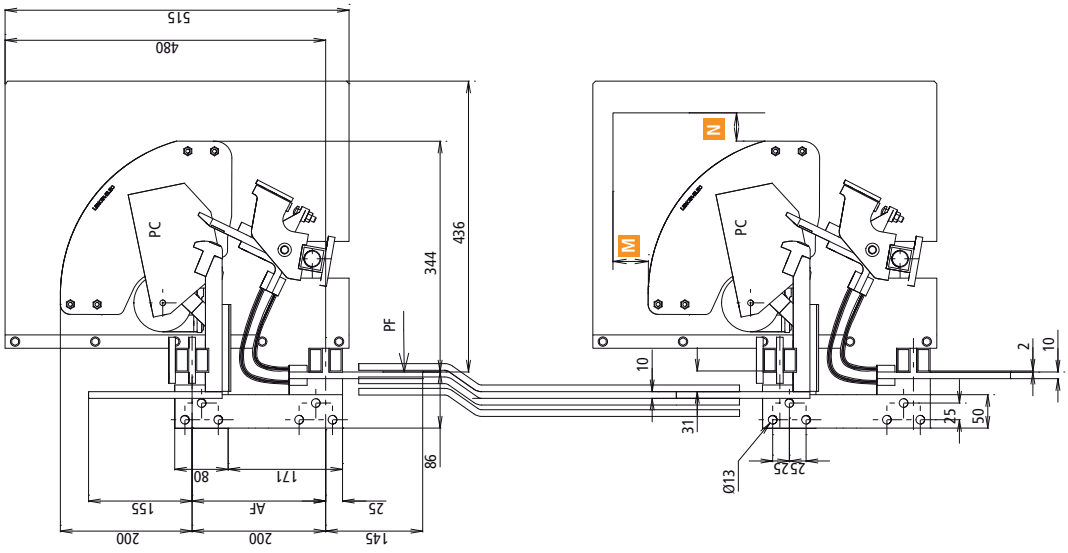
in mm

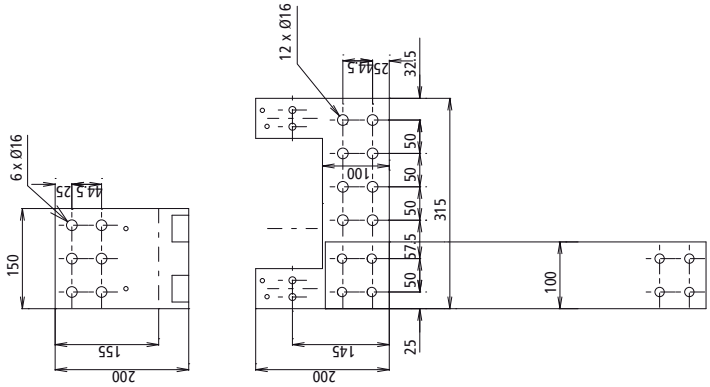
2xCEX 06 2650 to 3000 A *4.2* *2 four-pole break*

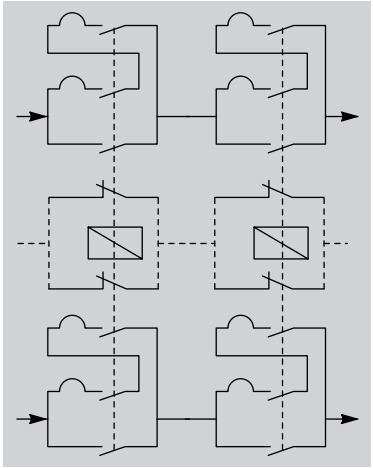


Insulating distance (safety perimeter)

Voltage V		Metallic walls		Insulated walls	
		M	N	M	N
≤	220	150	200	120	160
>	220	200	240	150	200





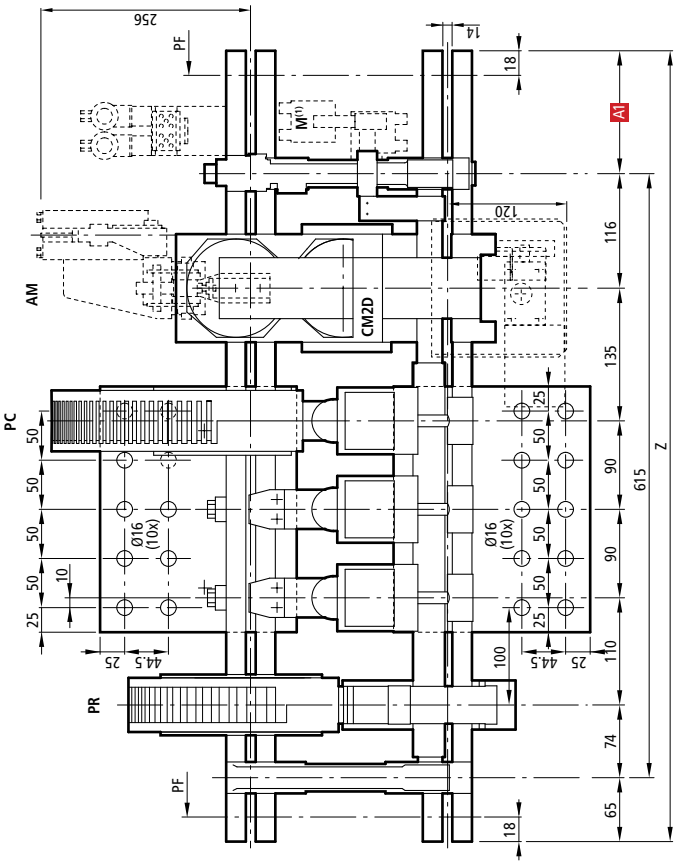


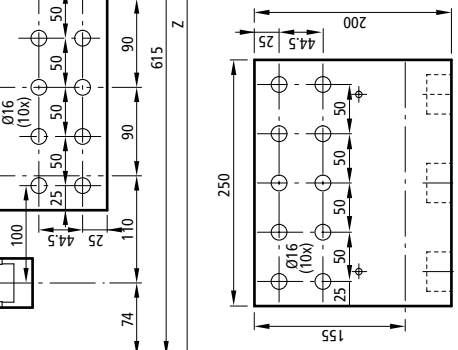
Overall dimensions - LEN version

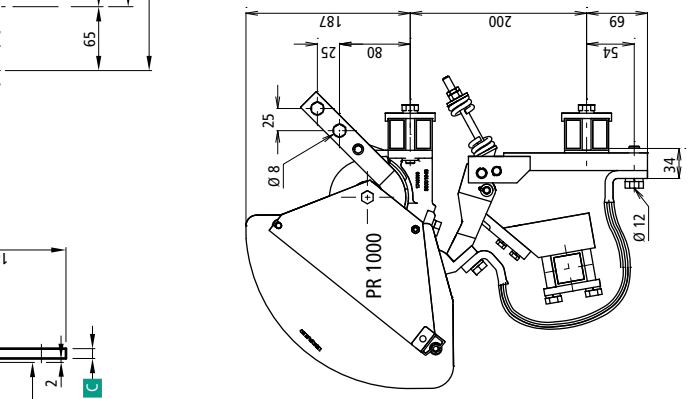
in mm

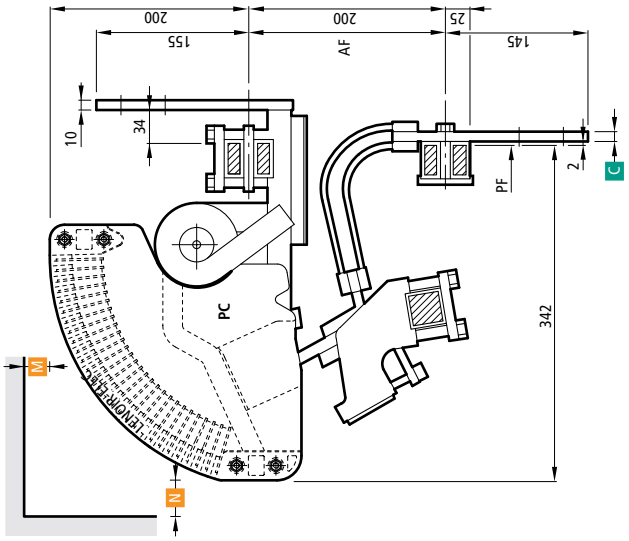
CEX 98 5000 A *1.1*

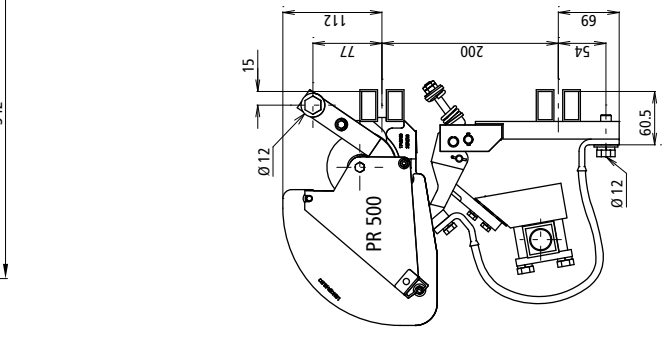
Single-pole break











Cote C

Calibre 5000 A	10
Calibre 5500 A	15

Insulating distance (safety perimeter)

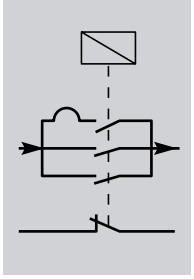
Voltage V	Metallic walls		Insulated walls	
	M	N	M	N
⩽ 220	150	200	120	160
> 220	200	240	150	200

Protrusion A1

Number of delayed blocks	Number of blocs M(1)	A1 (mm)
0	2	75
0	3	125
0	4	125
0	5	190
0	6	190
1	1	86
1	2	125
1	3	125
1	4	190
1	5	190

PR *rupturing pole 500 A avec recouvrement.*
Z *total length of fixation bars (Z = 680 + A1)*
(1) Auxiliary contacts block, shape to be specified.
LEN version: *Standard dimensions*
LER version: *Reduced dimensions, page 123.*
Nota : *possibility of an off-load manual closing system, please refer to page 122.*

AF *fixation axis.*
AM *Mechanical latching with electrical release (single or double).*
S *Condemnation in open position through safety lock*
CM2D *Closing magnetic circuit.*
PC *contactor pole.*
PF *fixation plane.*

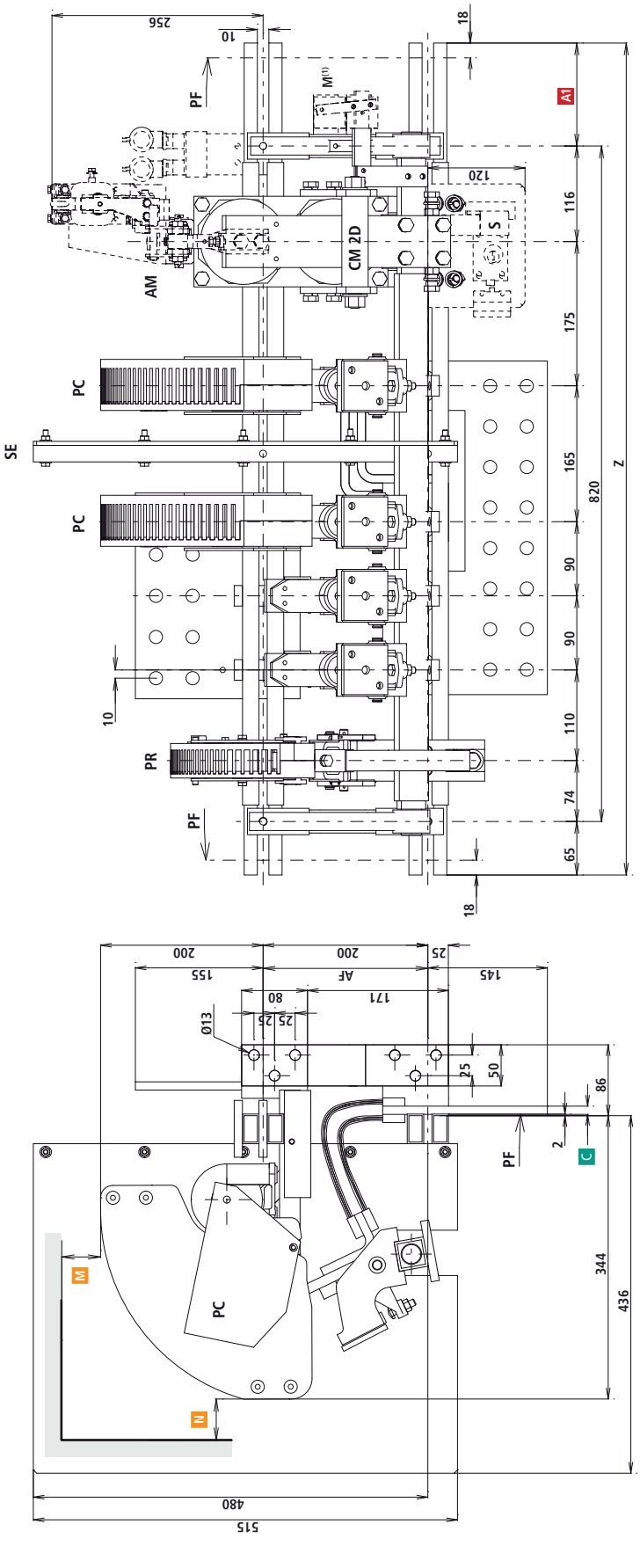


Overall dimensions - LEN version

in mm

CEX 98 5000 A *1.1*

Two-pole break in series



Cotes

	C	D	E
Calibre 5000 A	10	405	30,3
Calibre 5500 A	15	425	40,3

Insulating distance (safety perimeter)

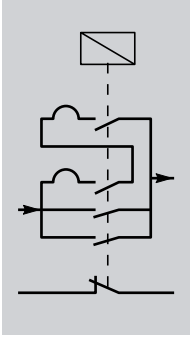
Voltage V	Metallic walls		Insulated walls	
	M	N	M	N
⩽ 220	150	200	120	160
> 220	200	240	150	200

Protrusion A1

Number of delayed blocks	Number of blocs M(1)	A1 (mm)
0	2	75
0	3	125
0	4	125
0	5	190
0	6	190
1	1	86
1	2	125
1	3	125
1	4	190
1	5	190

PR *rupturing pole 500 A avec recouvrement.*
Z *total length of fixation bars (Z = 885 + A1)*
(1) Auxiliary contacts block, shape to be specified.
LEN version: *Standard dimensions*
LER version: *Reduced dimensions, page 123.*
Nota : *possibility of an off-load manual closing system, please refer to page 122.*

AF *fixation axis.*
AM *Mechanical latching with electrical release (single or double).*
S *Condemnation in open position through safety lock*
CM2D *Closing magnetic circuit.*
PC *contactor pole.*
PF *fixation plane.*

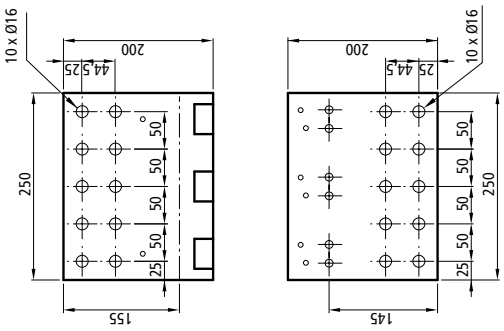


Overall dimensions - LEN version

in mm

CEX 06 5000 to 5500 A *2.2* ***Two-pole break in series***

Dimensions *cotes en mm*



Cote C

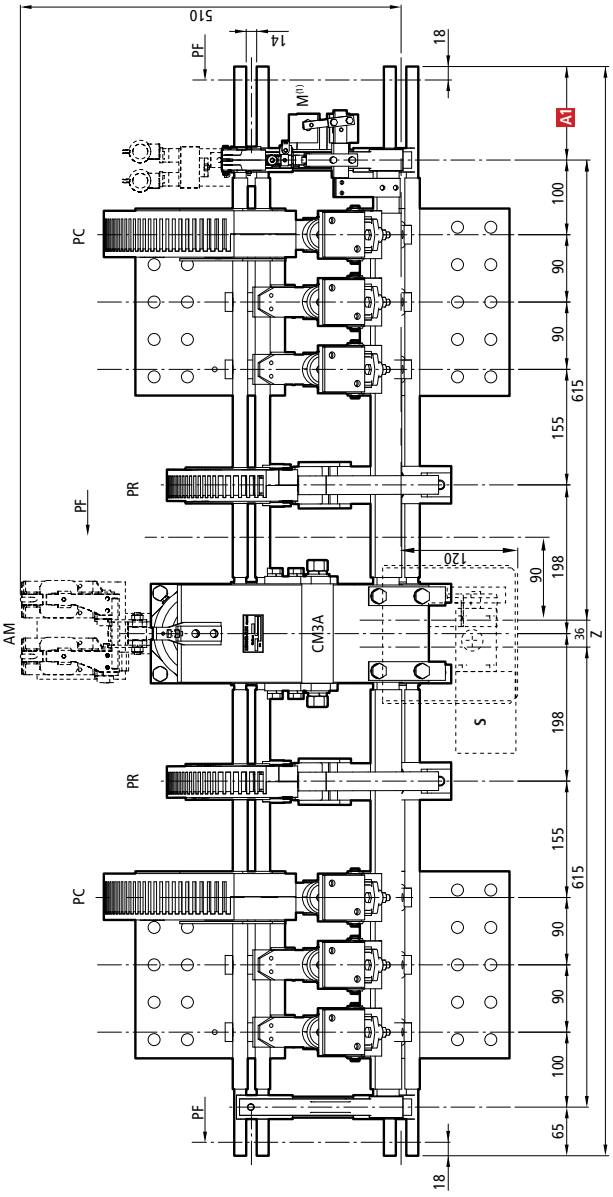
Calibre 5000 A	10
Calibre 5500 A	15

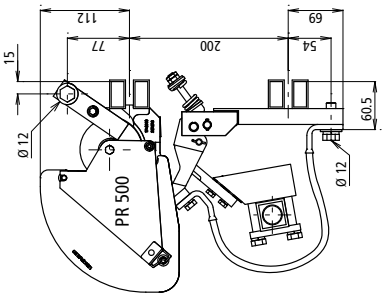
Insulating distance (safety perimeter)

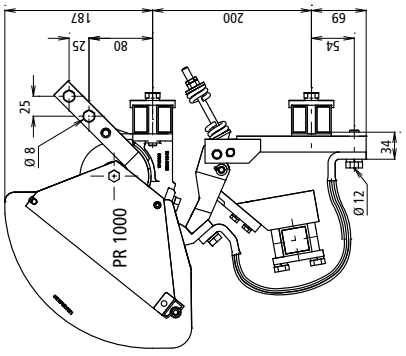
Voltage V	Metallic walls		Insulated walls	
	M	N	M	N
⩽ 220	150	200	120	160
> 220	200	240	150	200

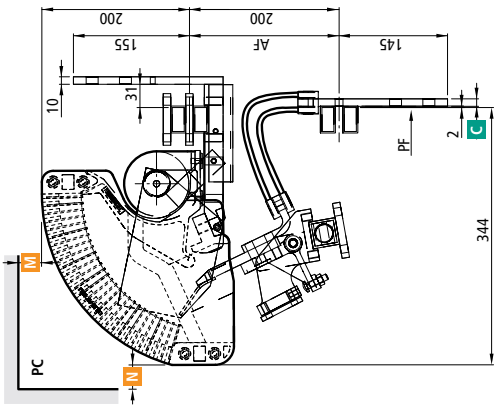
Protrusion A1

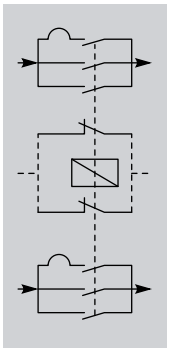
Number of delayed blocks	Number of blocs M(1)	A1 (mm)
0	2	75
0	3	125
0	4	125
0	5	190
0	6	190
1	1	86
1	2	125
1	3	125
1	4	190
1	5	190











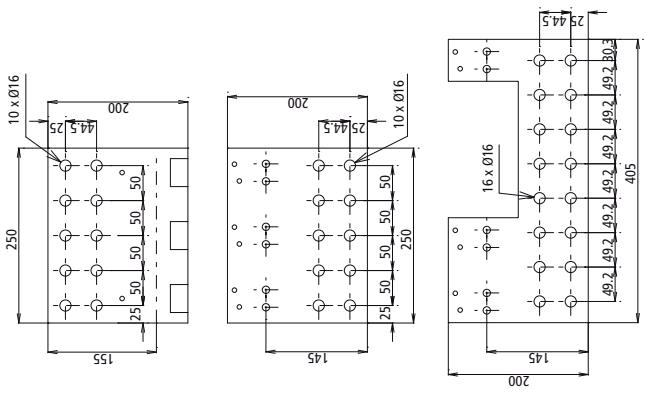
AF *Fixation axis.*
AM *Mechanical latching with electrical release (single or double).*
S *Condemnation in open position through safety lock*
CM3A *Closing magnetic circuit.*
PC *Contactor pole.*
PR *Rupturing pole.*
Acc *Accrochage.*
PF *Fixation plane.*
Z *Total length of fixation bars (Z = 1331 + A1)*
(1) Auxiliary contacts block, shape to be specified.
LEN version: *Standard dimensions*
LER version: *Reduced dimensions, page 123.*

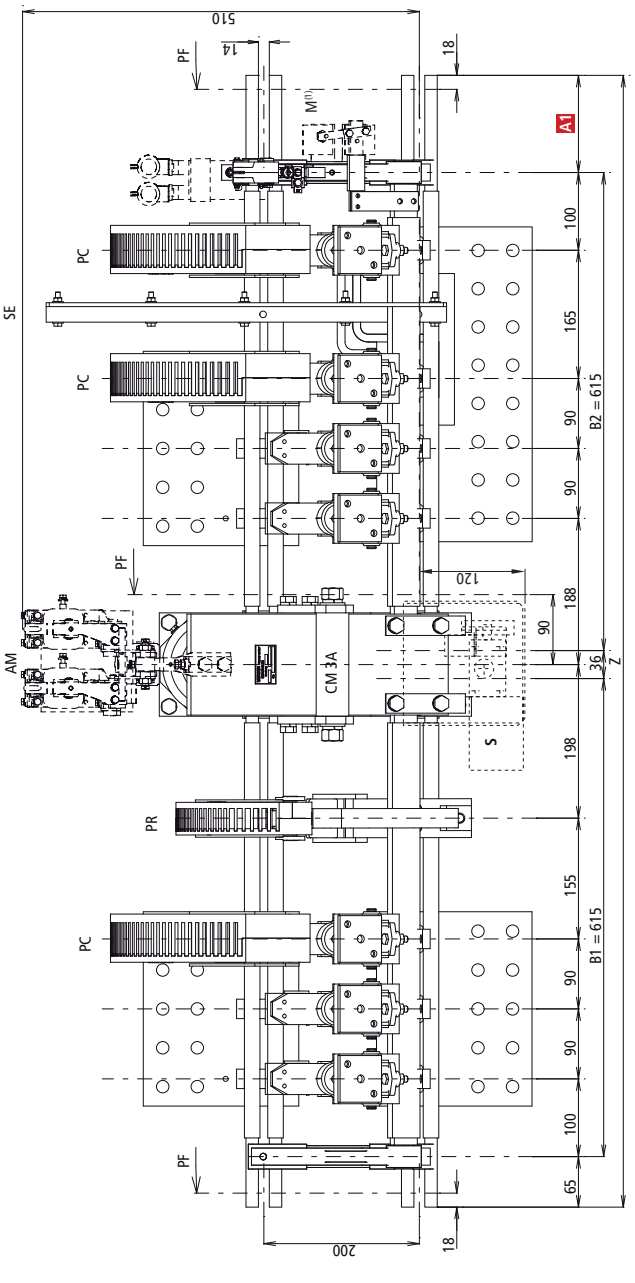
Overall dimensions - LEN version

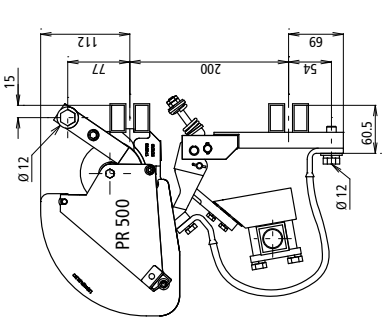
in mm

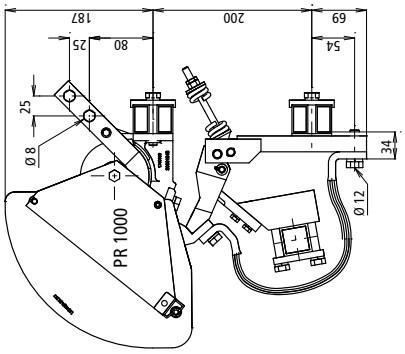
CEX 06 5000 to 5500 A *3.1* — *Three-pole break*

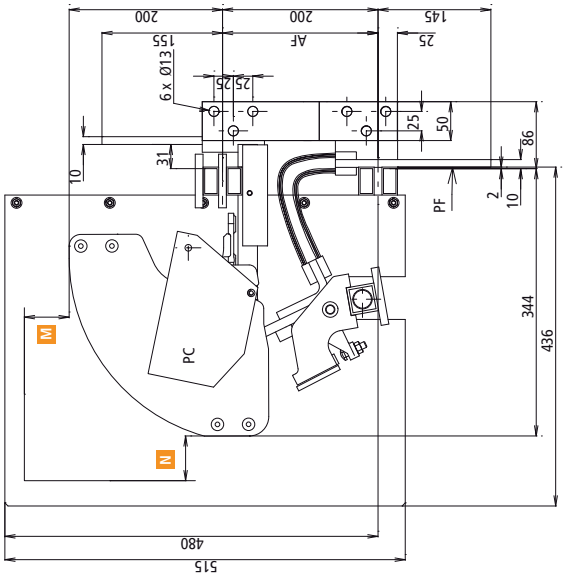
Dimensions *cotes en mm*

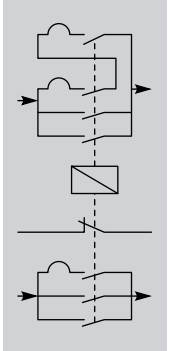












AF *Fixation axis.*
AM *Mechanical latching with electrical release (single or double).*
S *Condemnation in open position through safety lock*
CM3A *Closing magnetic circuit.*
PC *Contactor pole.*
PF *Fixation plane.*
PR *rupturing pole 500 A avec recouvrement.*
Z *total length of fixation bars (Z = 1331 + A1)*
(1) *Auxiliary contacts block, shape to be specified.*
LEN version: *Standard dimensions*
LER version: *Reduced dimensions, page 123.*

Insulating distance (safety perimeter)

Voltage V	Metallic walls M	Metallic walls N	Insulated walls M	Insulated walls N
⩽ 220	150	200	120	160
> 220	200	240	150	200

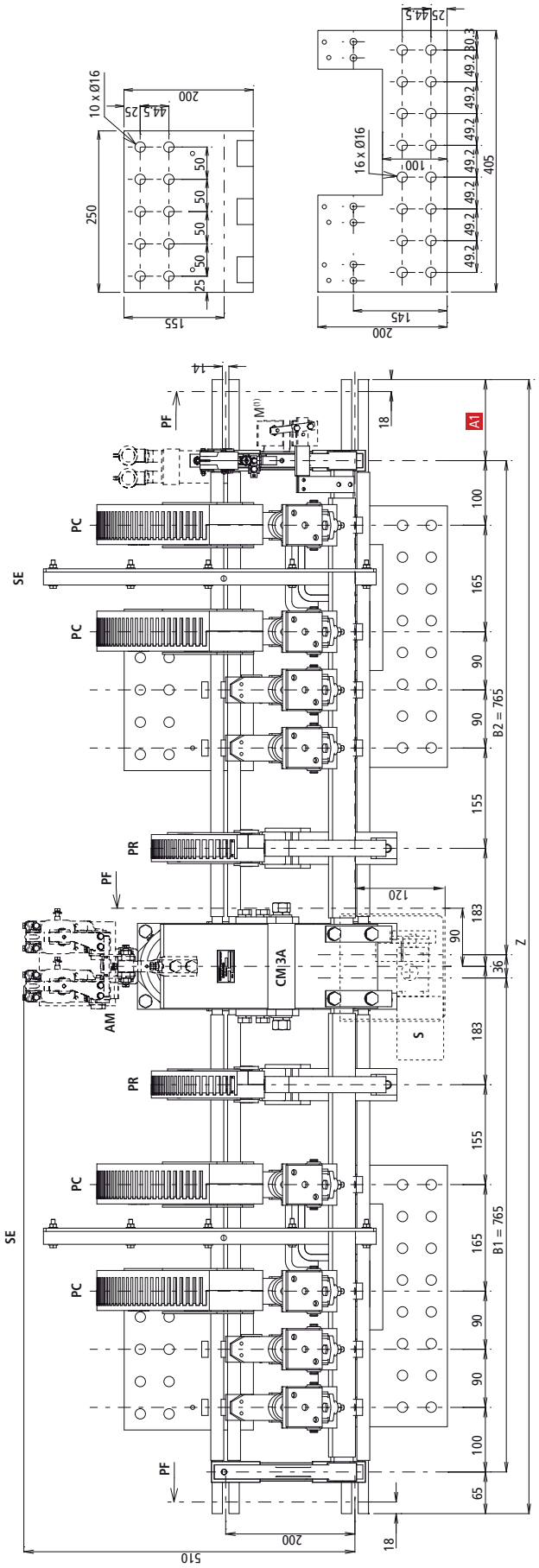
Protrusion A1

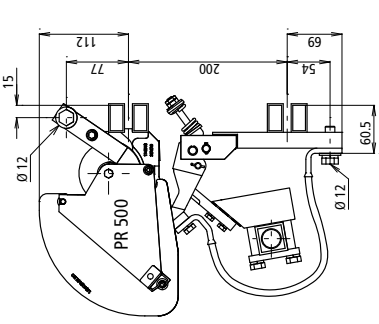
Number of delayed blocks	Number of blocs M(1)	A1 (mm)
0	2	75
0	3	125
0	4	125
0	5	190
0	6	190
1	1	86
1	2	125
1	3	125
1	4	190
1	5	190

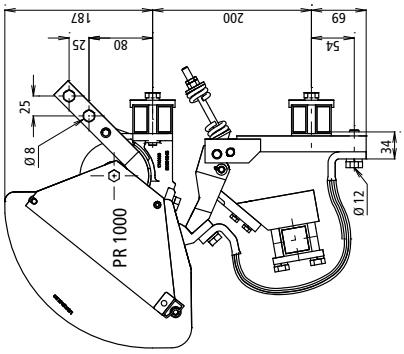
Overall dimensions - LEN version

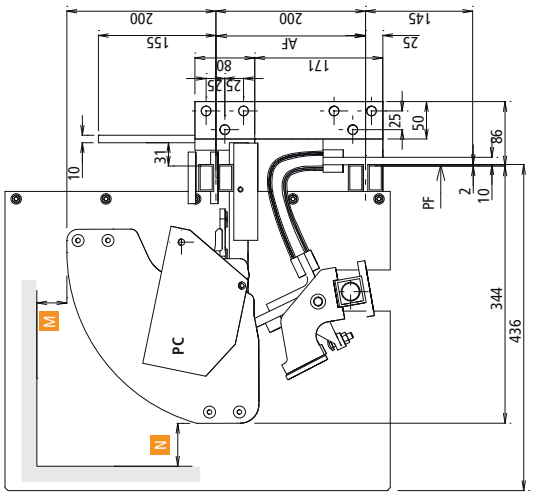
in mm

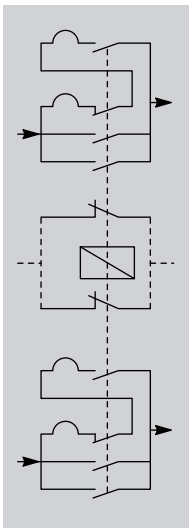
CEX 06 5000 to 5500 A *4.2*











AF *Fixation axis.*
AM *Mechanical latching with electrical release (single or double).*
S *Condemnation in open position through safety lock*
CM3A *Closing magnetic circuit.*
PC *Contactor pole.*
PF *Fixation plane.*
PR *rupturing pole 500 A avec recouvrement.*

Z *total length of fixation bars (Z = 1631 + A1)*
(1) *Auxiliary contacts block, shape to be specified.*
LEN version: *Standard dimensions*
LER version: *Reduced dimensions, page 123.*

Insulating distance (safety perimeter)

Voltage V	Metallic walls		Insulated walls	
	M	N	M	N
⩽ 220	150	200	120	160
> 220	200	240	150	200

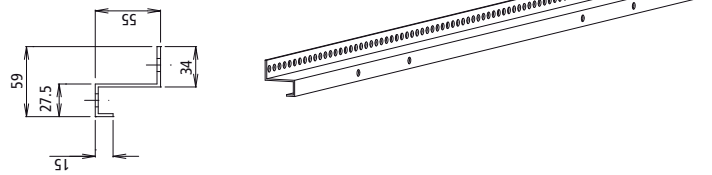
Protrusion A1

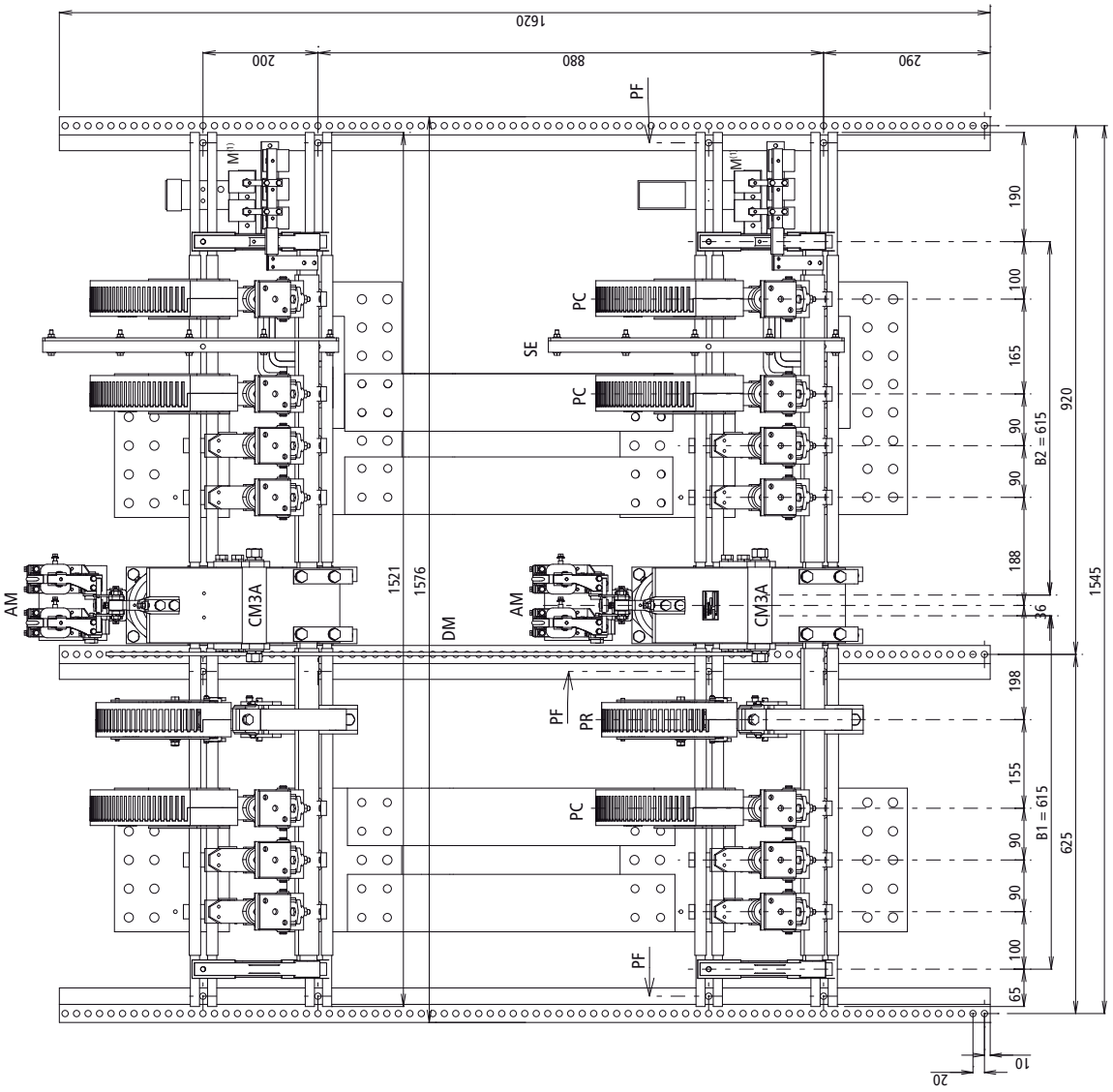
Number of delayed blocks	Number of blocs M(1)	A1 (mm)
0	2	75
0	3	125
0	4	125
0	5	190
0	6	190
1	1	86
1	2	125
1	3	125
1	4	190
1	5	190

Overall dimensions

in mm

2xCEX 06 5000 to 5500 A *3.1* ***Three-pole break***



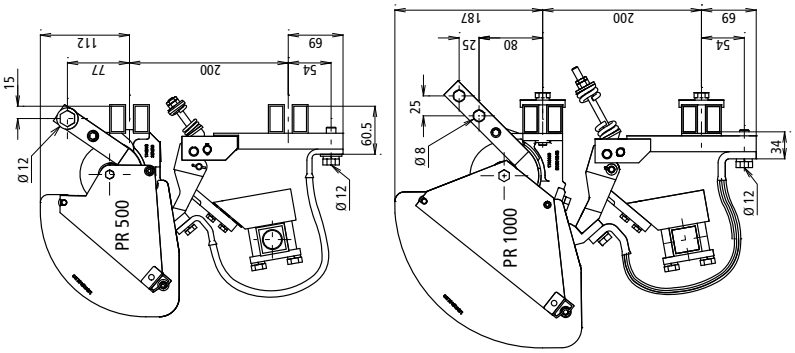


CM3A *Closing magnetic circuit*
PC *Contactor pole.*
PR *Rupturing pole 500 A.*
AM *Mechanical latching with electrical release (single or double).*
DM *Déverrouillage manuel.*
SE *Separator.*
AF *Fixation axis.*
PF *Fixation plane.*
(1) Auxiliary contacts block, shape to be specified.

Overall dimensions

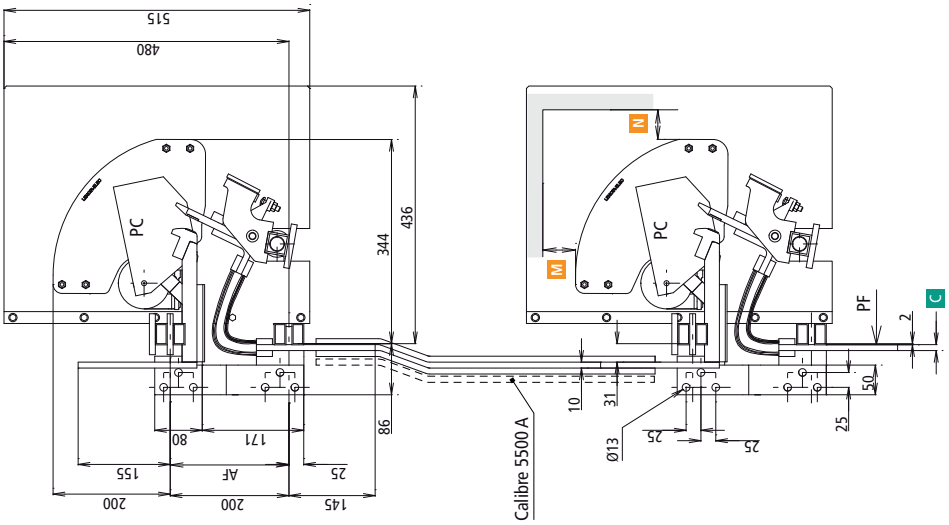
in mm

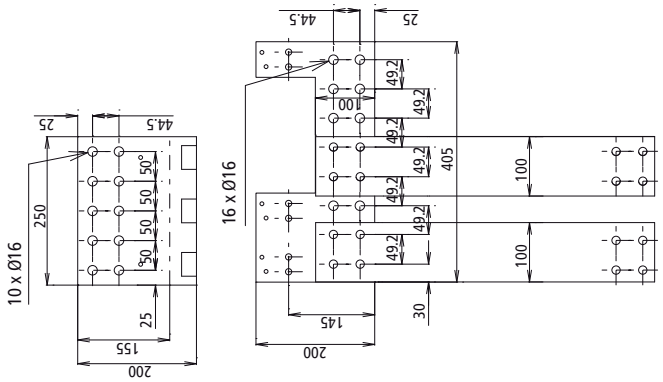
2xCEX 06 5000 to 5500 A *3.1* — *2 three-pole break*

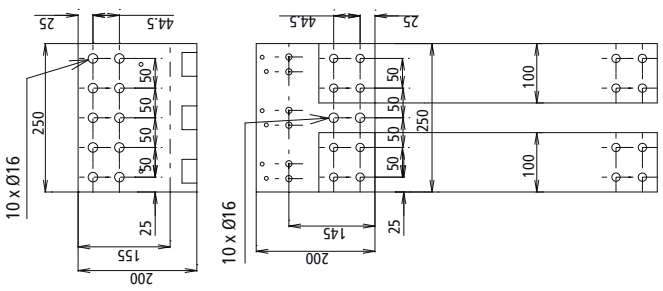


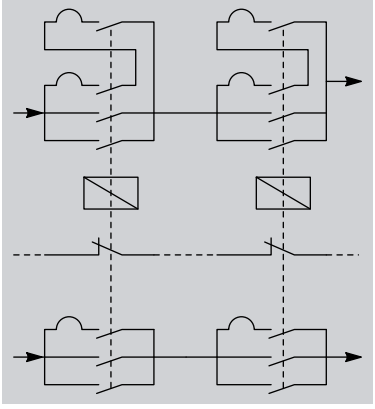
Cote C	
Calibre 5000 A	10
Calibre 5500 A	15

Insulating distance (safety perimeter)				
	Metallic walls		Insulated walls	
Voltage V	M	N	M	N
⩽ 220	150	200	120	160
> 220	200	240	150	200





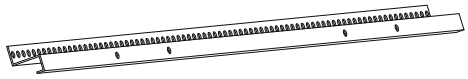


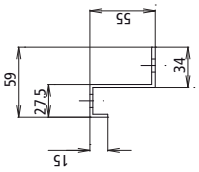


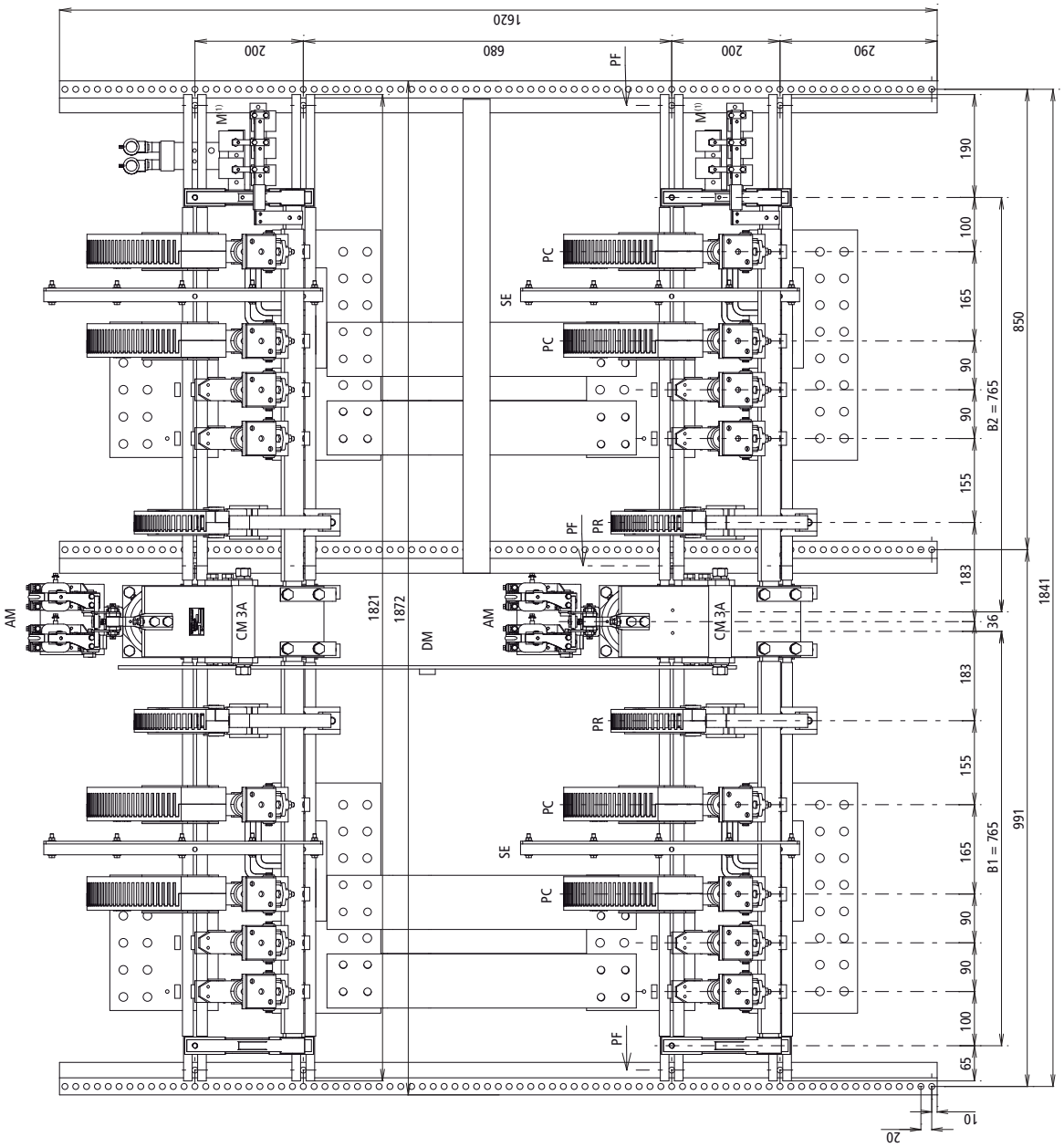
Overall dimensions

in mm

2xCEX 06 5000 to 5500 A *4.2* — *2 four-pole break*





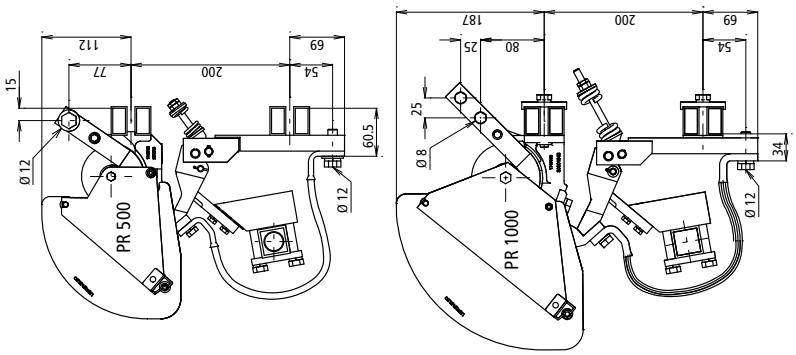


CM3A *Closing magnetic circuit*
PC *Contactor pole.*
PR *Rupturing pole 500 A.*
AM *Mechanical latching with electrical release (single or double).*
DM *Déverrouillage manuel.*
SE *Separator.*
AF *Fixation axis.*
PF *Fixation plane.*
(1) Auxiliary contacts block, shape to be specified.

Overall dimensions

in mm

2xCEX 06 5000 to 5500 A *4.2* *2 four-pole breaks*

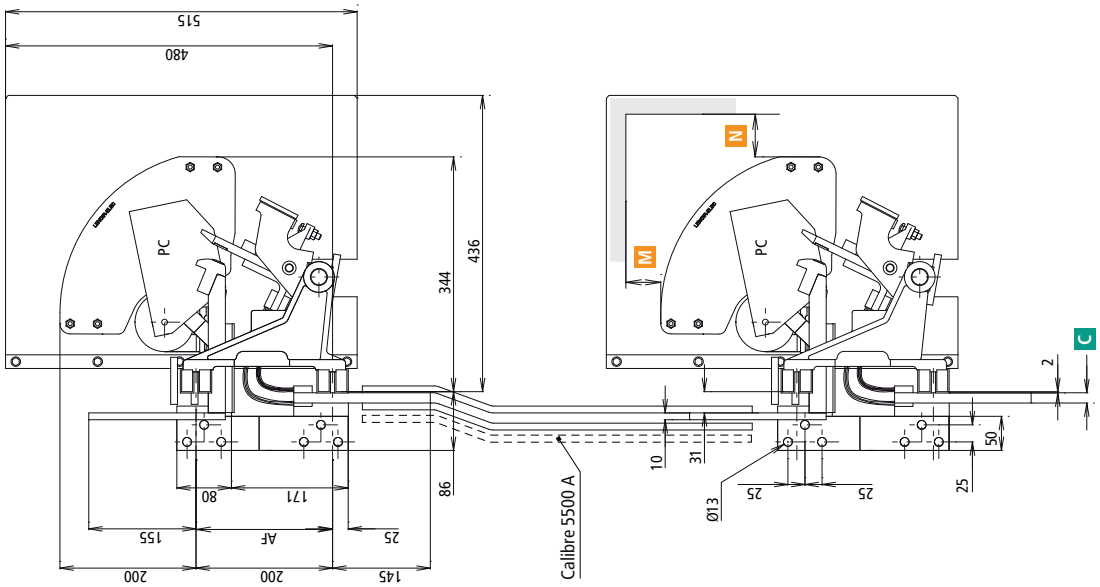


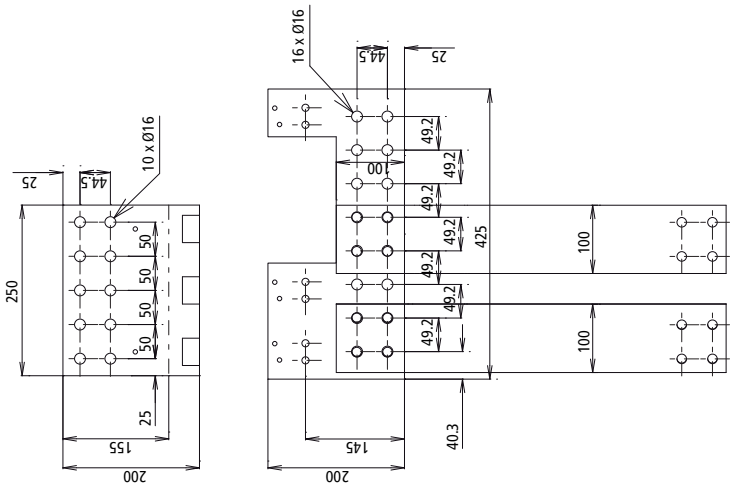
Cote C

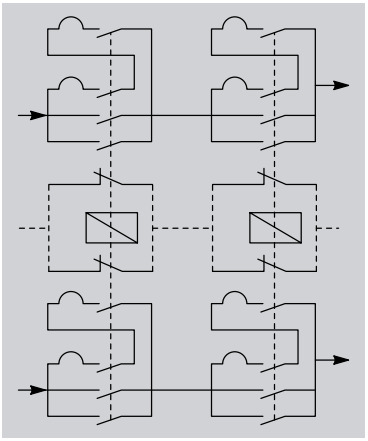
Calibre 5000 A	10
Calibre 5500 A	15

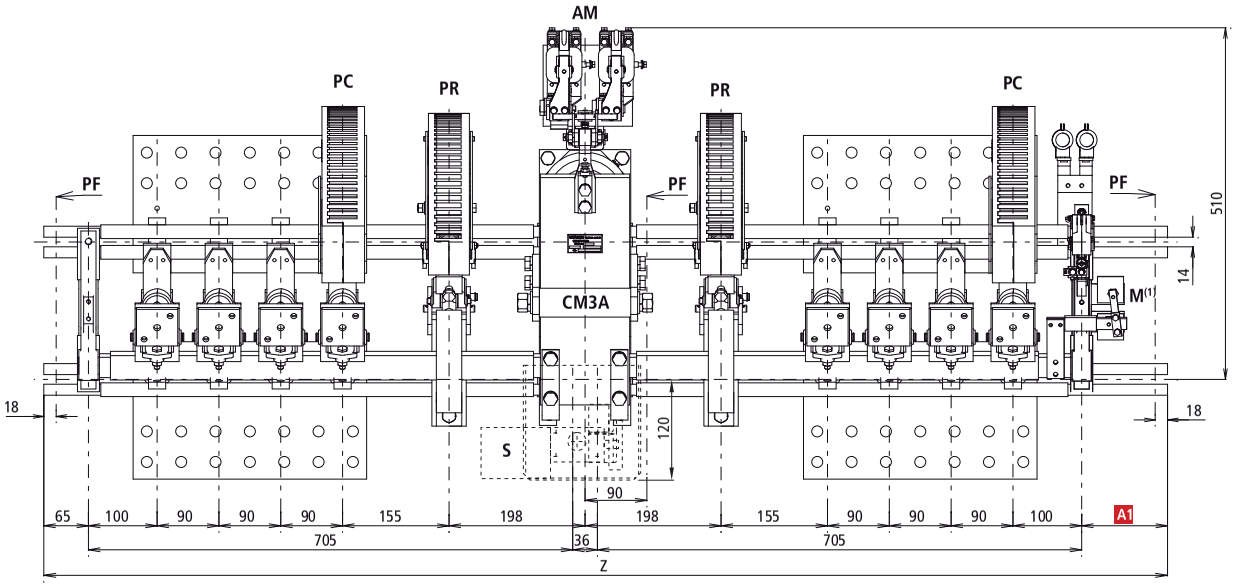
Insulating distance (safety perimeter)

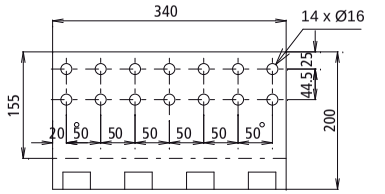
Voltage V	Metallic walls		Insulated walls	
	M	N	M	N
⩽ 220	150	200	120	160
> 220	200	240	150	200

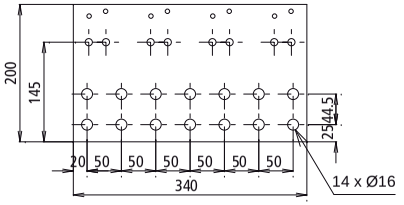


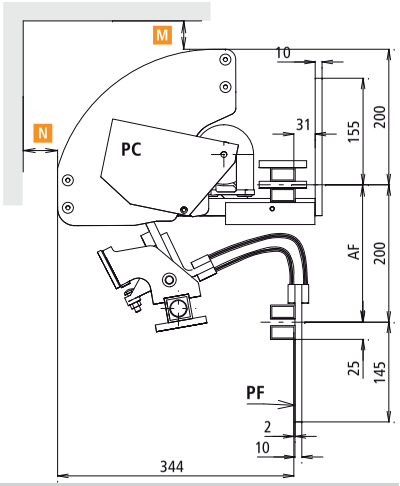


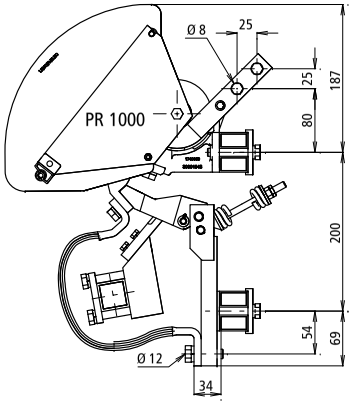


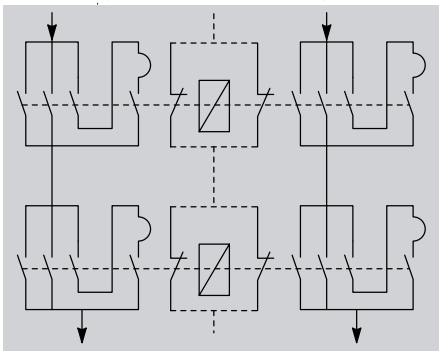












CM3A *Closing magnetic circuit.*
PC *Pole à fermeture.*
PR *Rupturing pole 1000 A.*
AM *Mechanical latching with electrical release (single or double).*
AF *Fixation axis.*
PF *Fixation plane.*
S *Condemnation in open position through safety lock*
(1) Auxiliary contacts block, shape to be specified.
LEN version: *Standard dimensions.*
LER version: *Reduced dimensions, page 123.*

Insulating distance (safety perimeter)

Voltage V	Metallic walls		Insulated walls	
	M	N	M	N
≤ **220**	150	200	120	160
> **220**	200	240	150	200

Protrusion A1

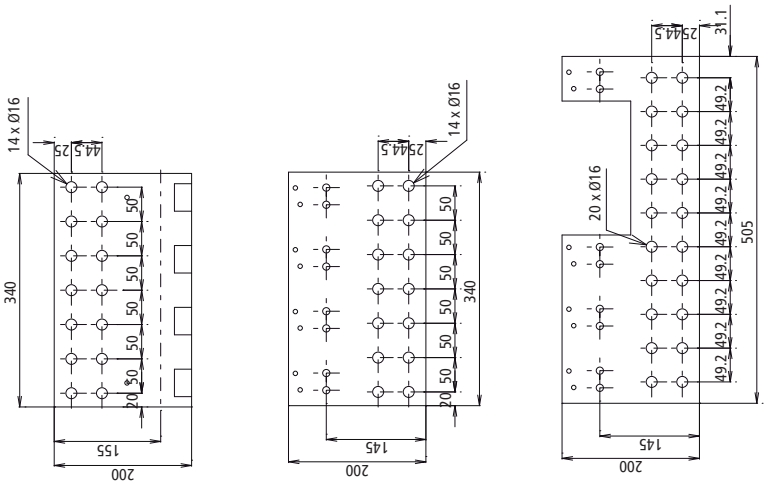
Number of delayed blocks	Number of blocs M(1)	A1 (mm)
0	**2**	**75**
0	**3**	**125**
0	**4**	**125**
0	**5**	**190**
0	**6**	**190**
1	**1**	**86**
1	**2**	**125**
1	**3**	**125**
1	**4**	**190**
1	**5**	**190**

Overall dimensions - LEN version

in mm

CEX 06 7500 A *3.1*

Three-pole break

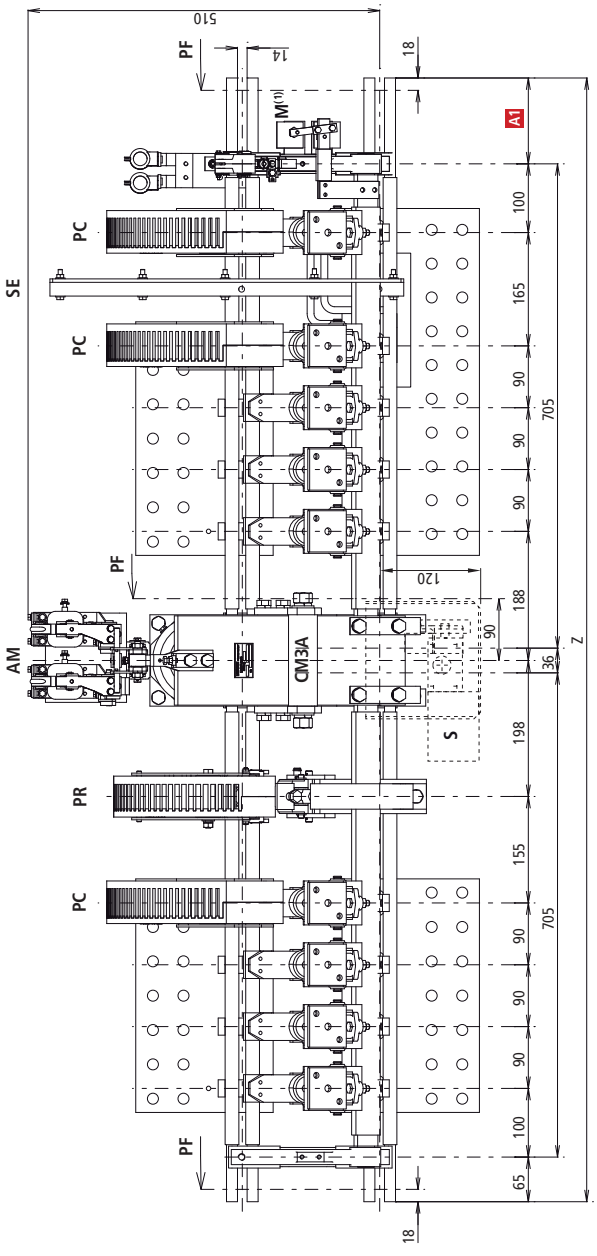


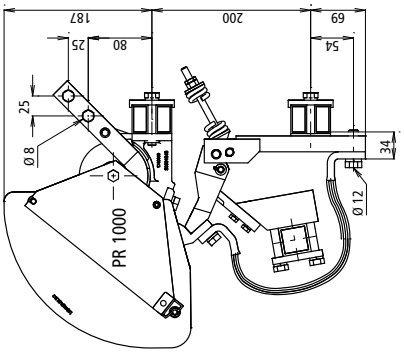
Insulating distance (safety perimeter)

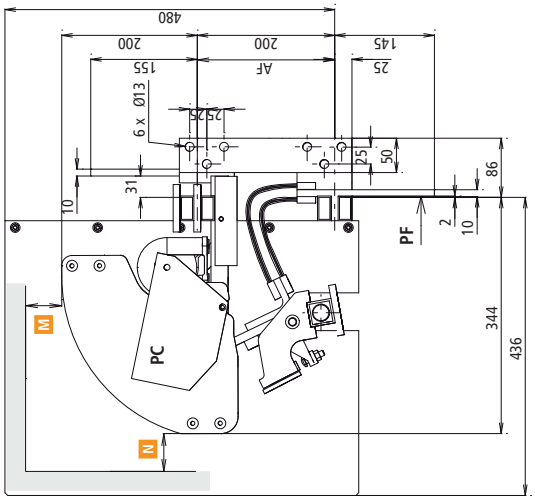
Voltage V	Metallic walls M	Metallic walls N	Insulated walls M	Insulated walls N
⩽ 220	150	200	120	160
> 220	200	240	150	200

Protrusion A1

Number of delayed blocks	Number of blocs M(1)	A1 (mm)
0	2	75
0	3	125
0	4	125
0	5	190
0	6	190
1	1	86
1	2	125
1	3	125
1	4	190
1	5	190



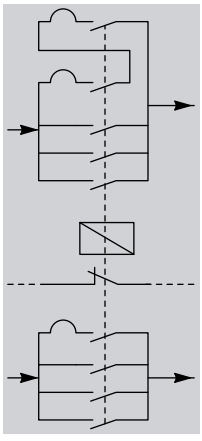




CM3A *Closing magnetic circuit.*
PC *Pole à fermeture.*
PR *Rupturing pole 1000 A.*
AM *Mechanical latching with electrical release (single or double).*
AF *Fixation axis.*
PF *Fixation plane.*
S *Condemnation in open position through safety lock.*

(1) Auxiliary contacts block, shape to be specified.

LEN version: *Standard dimensions.*
LER version: *Reduced dimensions, page 123.*

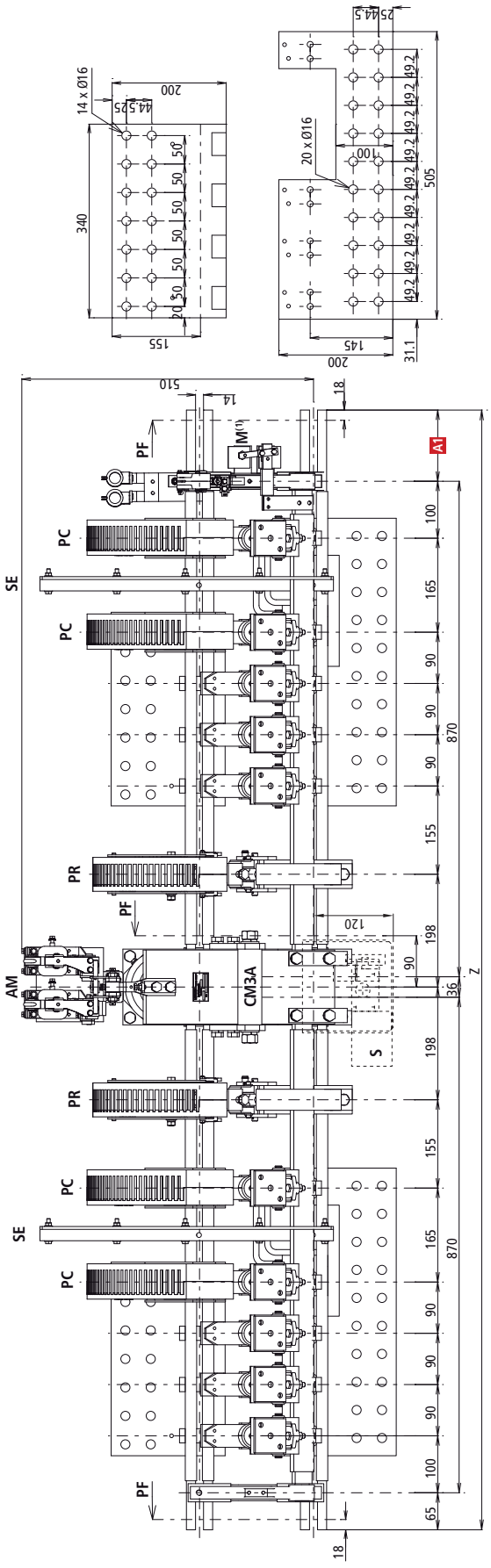


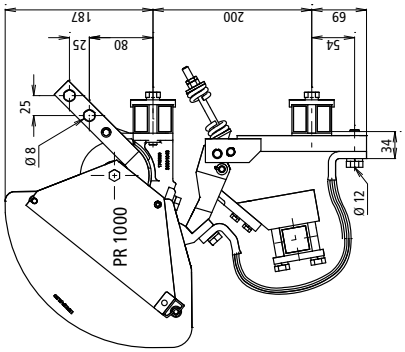
Overall dimensions - LEN version

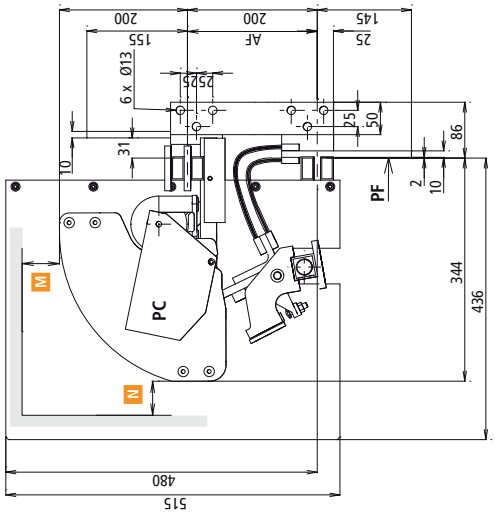
in mm

CEX 06 7500 A *4.2*

Four-pole break (2 bipolar break in series)







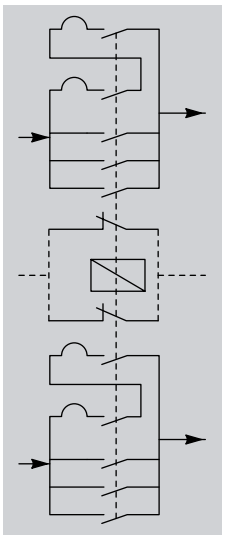
Insulating distance (safety perimeter)

Voltage V	Metallic walls M	Metallic walls N	Insulated walls M	Insulated walls N
⩽ 220	150	200	120	160
> 220	200	240	150	200

Protrusion A1

Number of delayed blocks	Number of blocs M(1)	A1 (mm)
0	2	75
0	3	125
0	4	125
0	5	190
0	6	190
1	1	86
1	2	125
1	3	125
1	4	190
1	5	190

CM3A *Closing magnetic circuit.*
PC *Pole à fermeture.*
PR *Rupturing pole 1000 A.*
AM *Mechanical latching with electrical release (single or double).*
AF *Fixation axis.*
PF *Fixation plane.*
S *Condemnation in open position through safety lock*
(1) Auxiliary contacts block, shape to be specified.
LEN version: *Standard dimensions.*
LER version: *Reduced dimensions, page 123.*

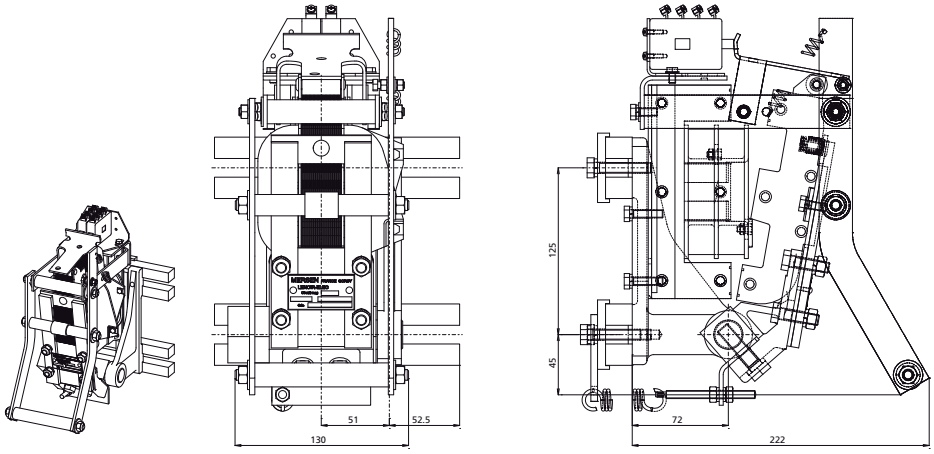


Overall dimensions

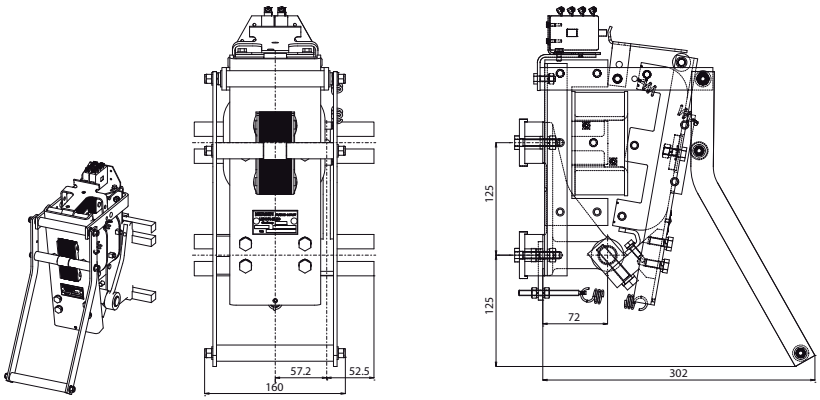
in mm

Off-load manual closing (optional)

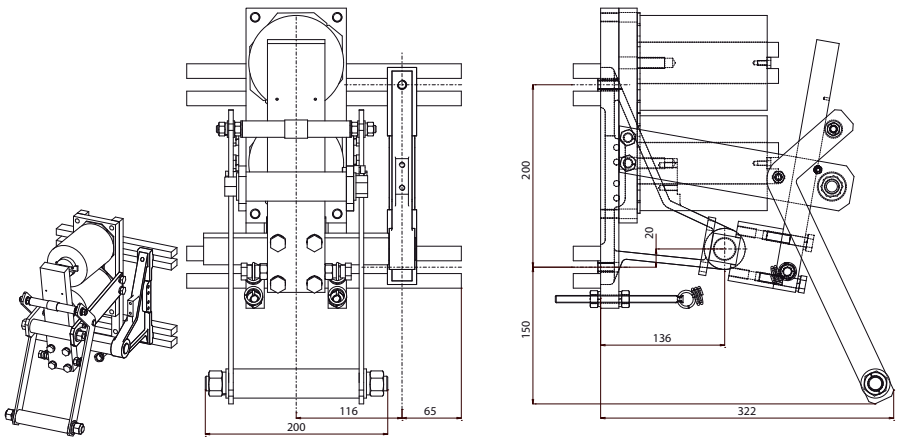
Dimensions *manual closing for CM16R*



Dimensions *manual closing for CM18*



Dimensions *manual closing for CM2D*

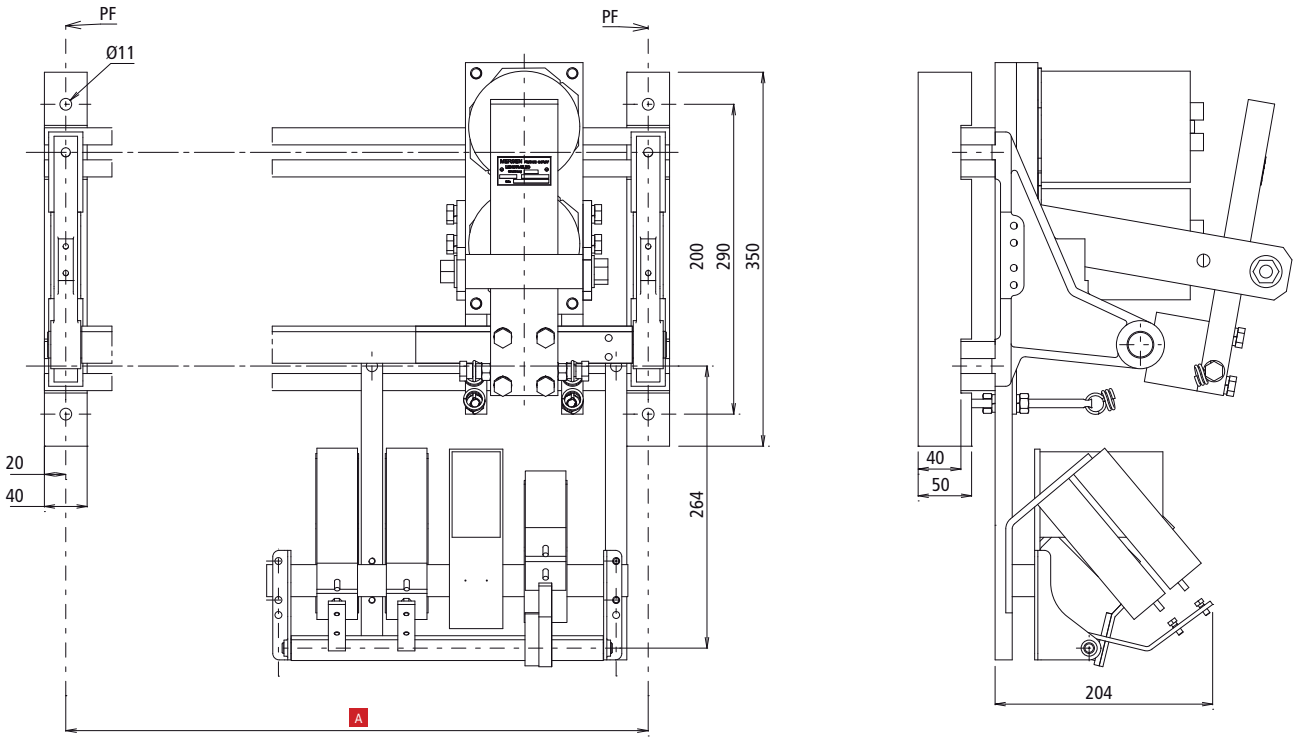


Overall dimensions

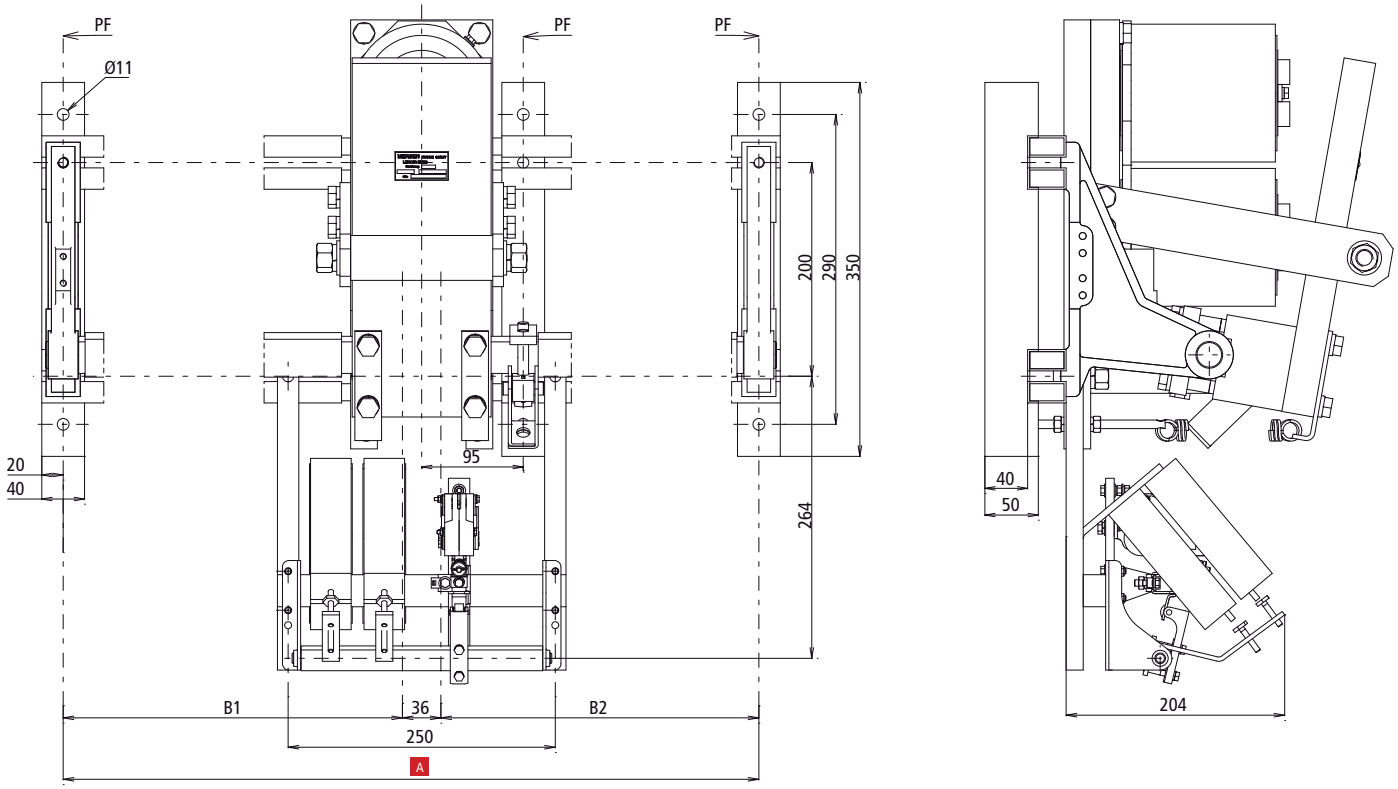
in mm

LER equipments (reduced dimensions)

Reduced dimensions, *auxiliaries below magnetic circuit type CM2D*



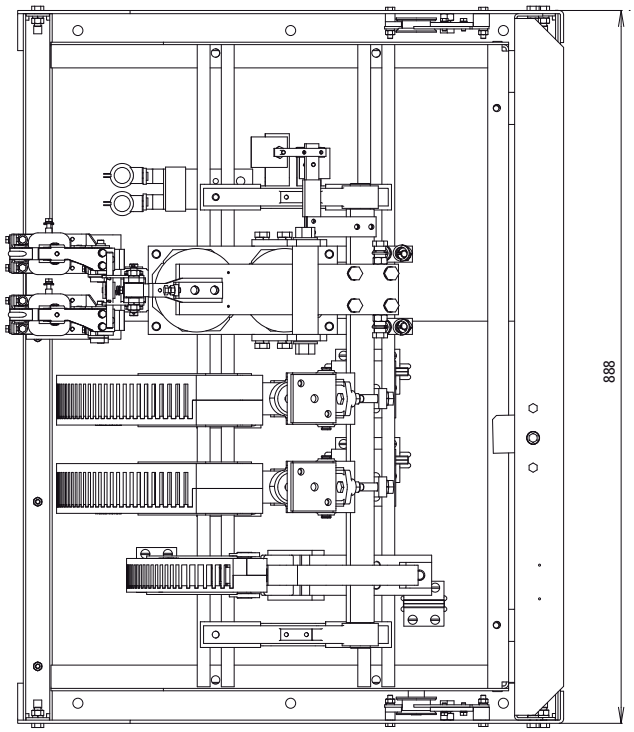
Reduced dimensions, *auxiliaries below magnetic circuit type CM3A*

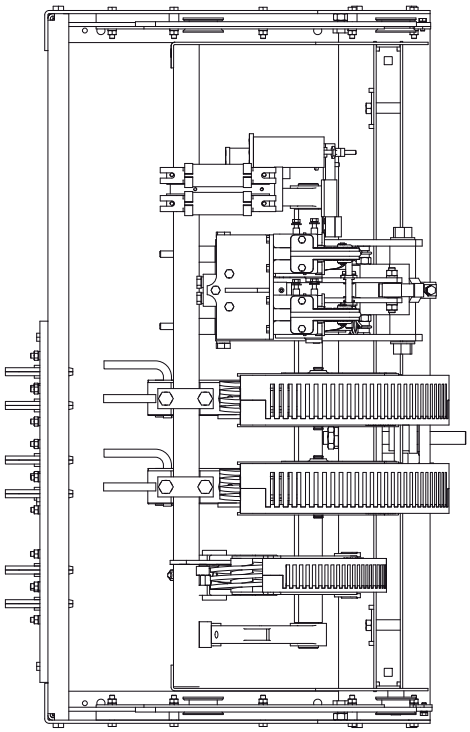


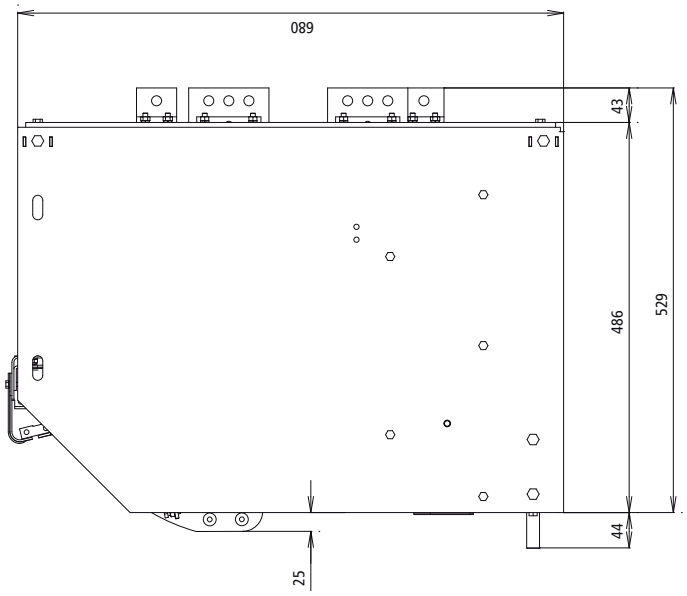
Overall dimensions

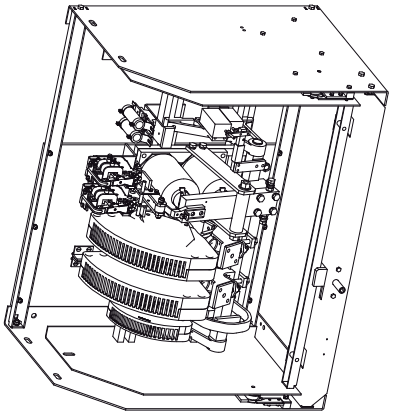
in mm

CEX 71 1250 to 2000 A *2.1 draw-out version*





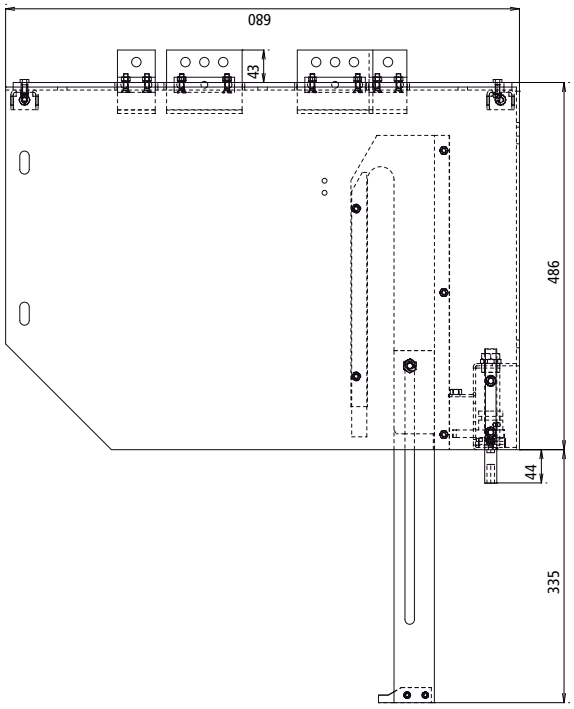


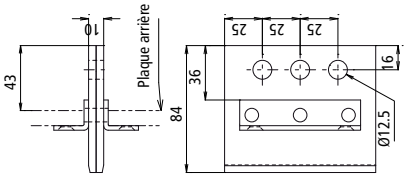


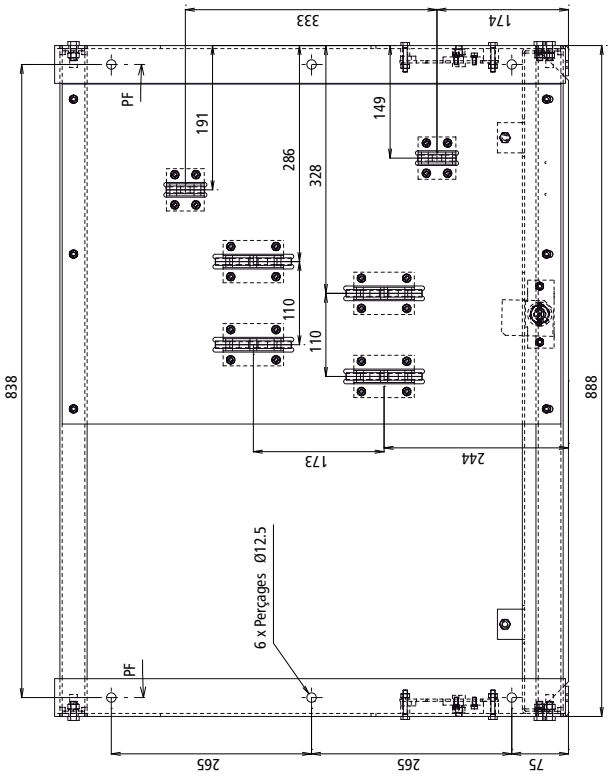
Overall dimensions

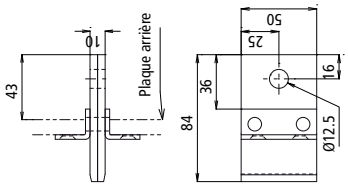
in mm

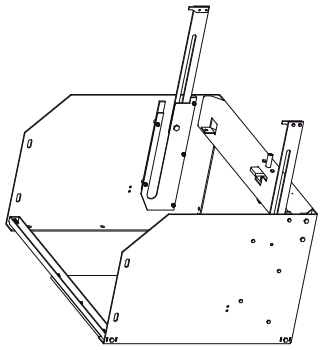
CEX 71 1250 to 2000 A *2.1 draw-out version*











PF *Fixation plane.*

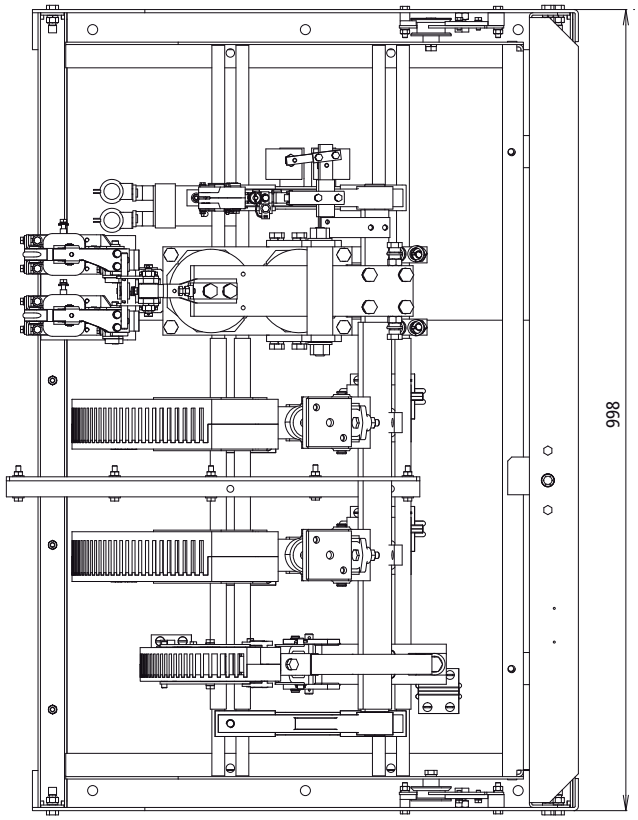
NOTA
Total depth: 860 mm
Drawn-out with device in place

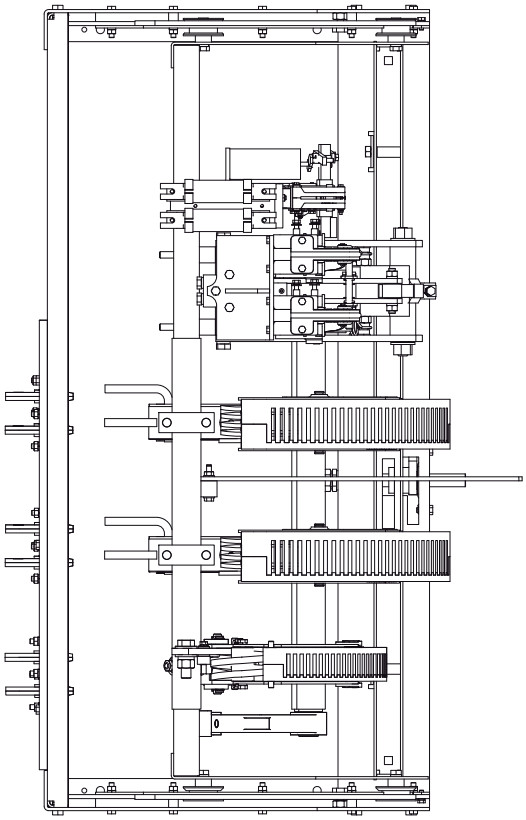
Effective width of connecting sections: 35 mm

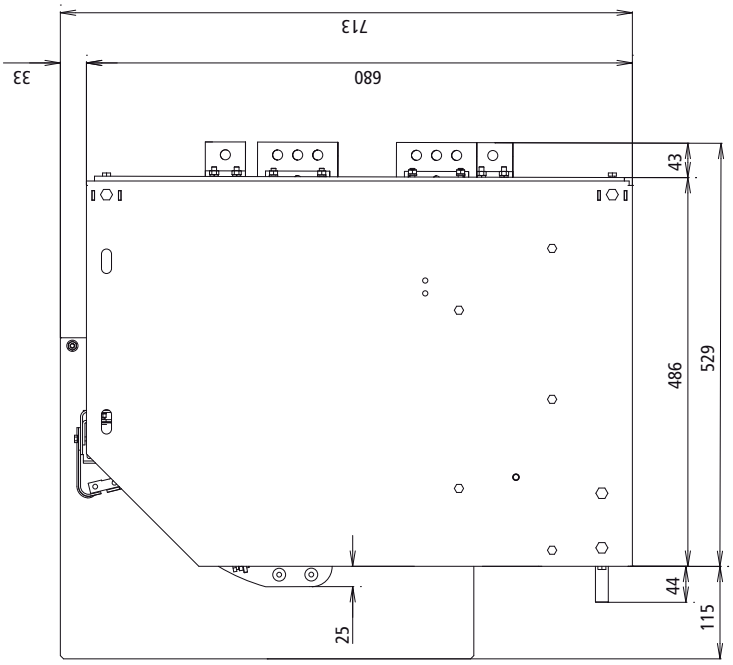
Overall dimensions

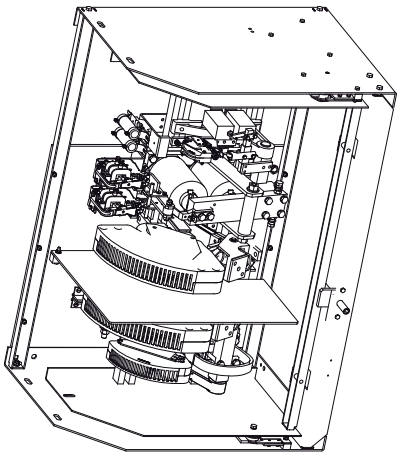
in mm

CEX 71 1250 to 2000 A *2.1 draw-out version with separator*





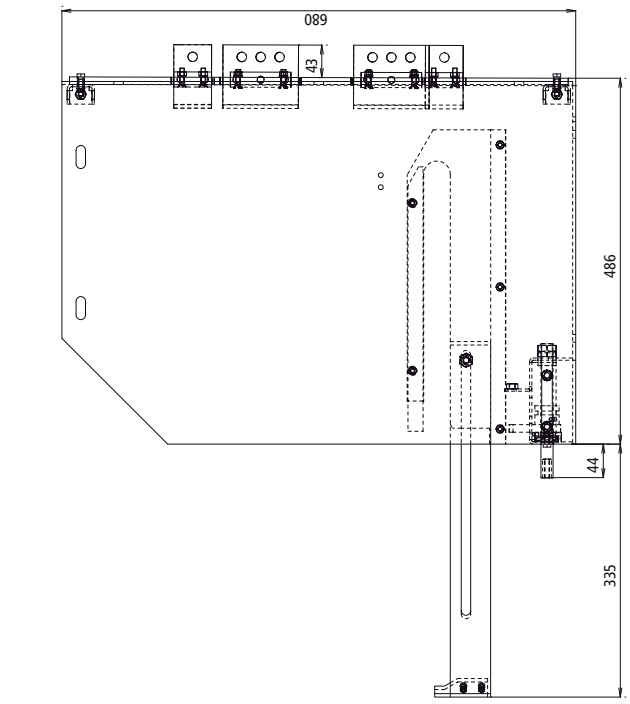


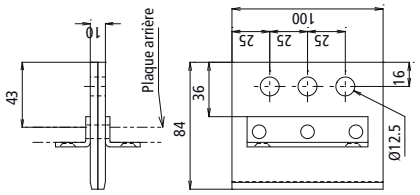


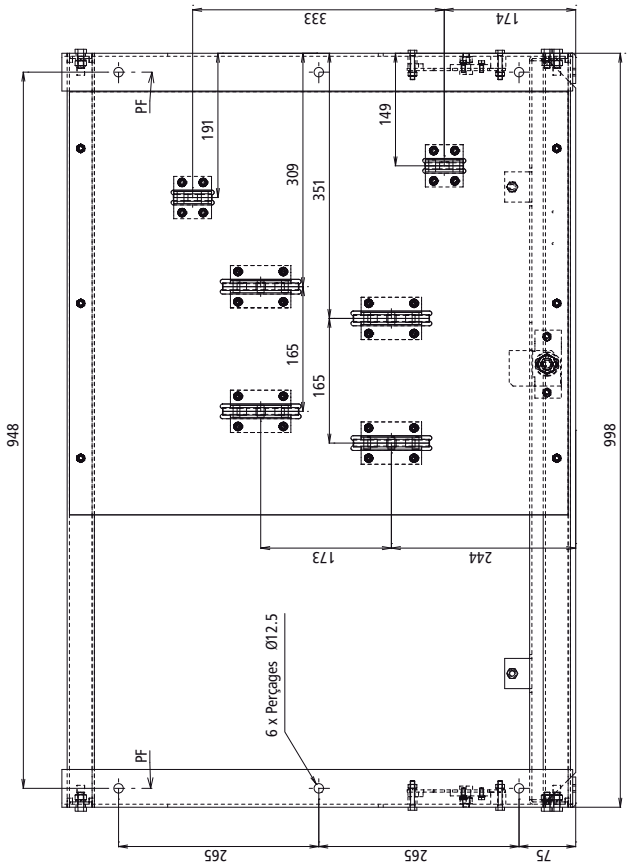
Overall dimensions

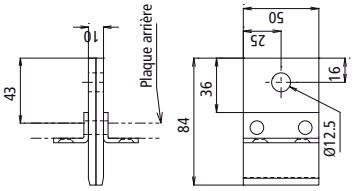
in mm

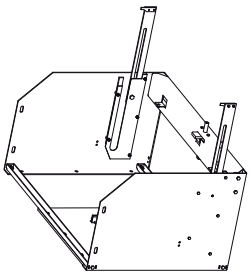
CEX 71 1250 to 2000 A *2.1 draw-out version with separator*











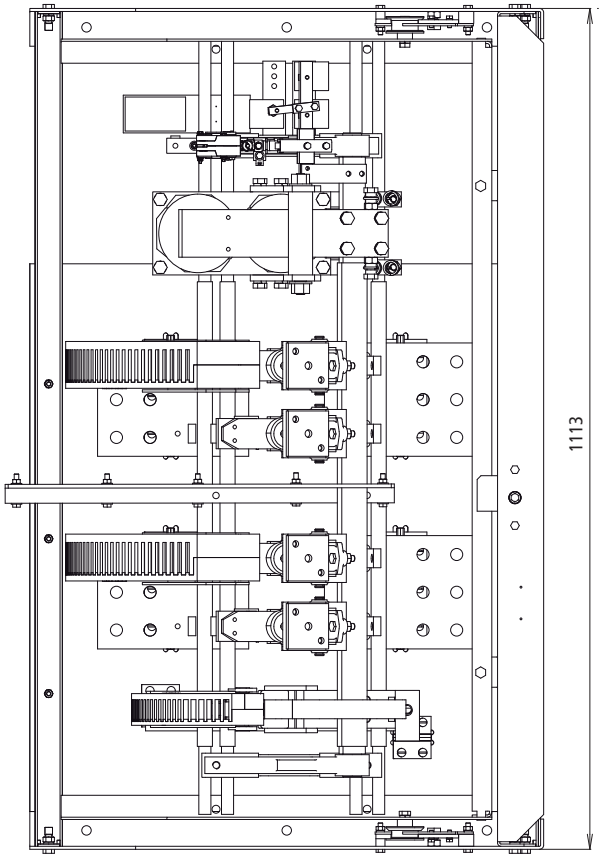
PF *Fixation plane.*

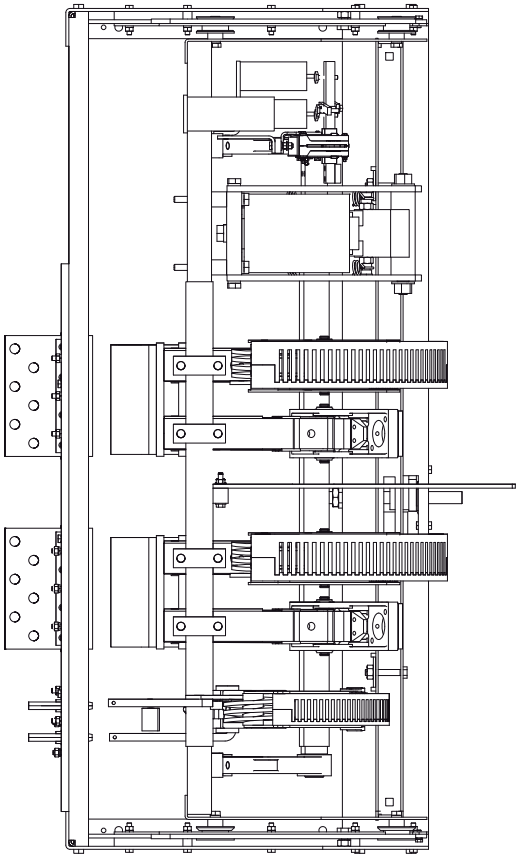
NOTA
Total depth: 860 mm
Drawn-out with device in place
Effective width of connecting sections: 35 mm

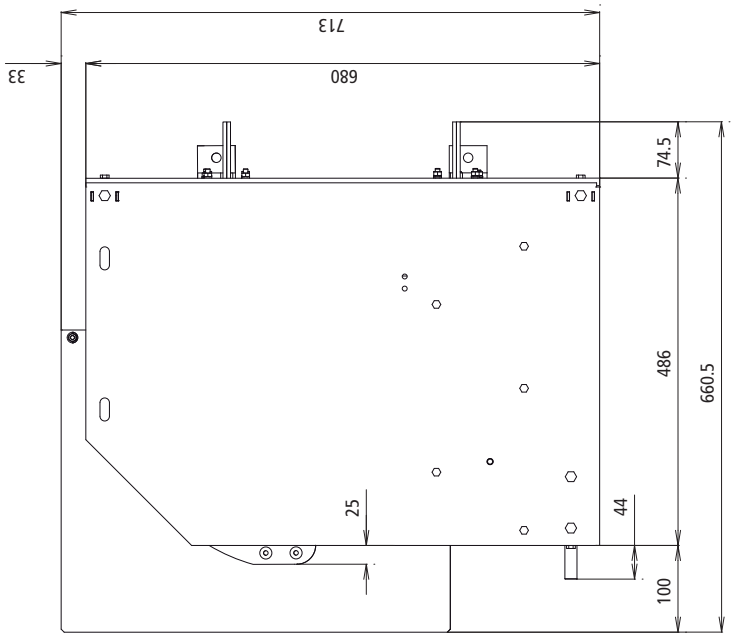
Overall dimensions

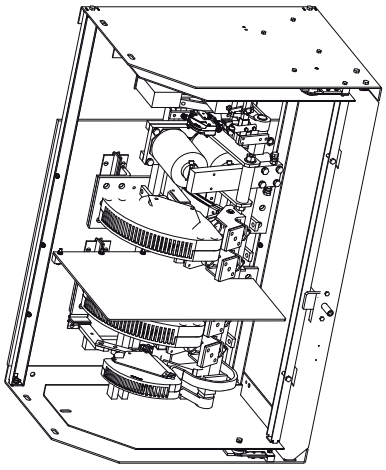
in mm

CEX 98 2560 to 3200 A *2.1 draw-out version with separator*





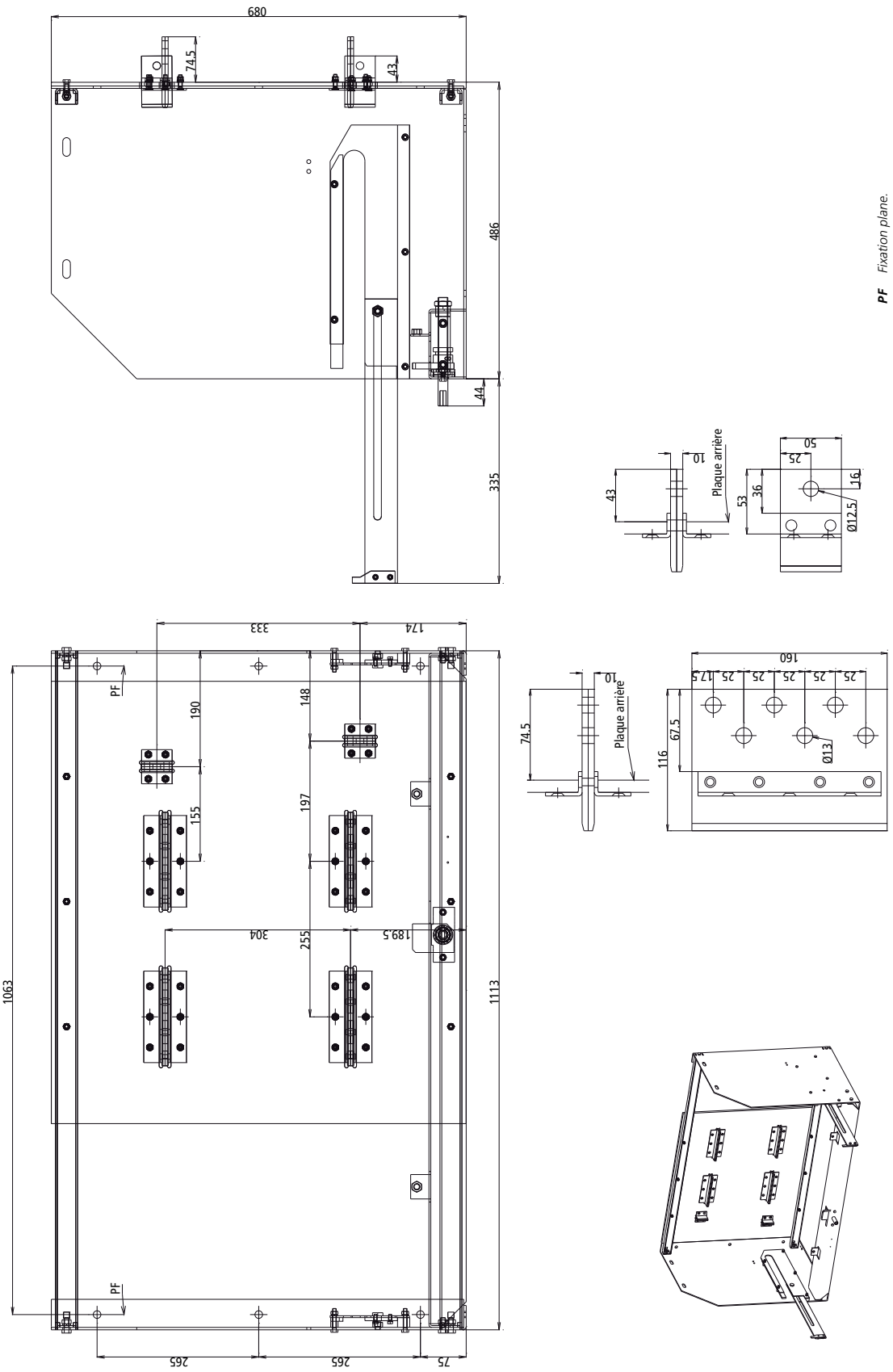




Overall dimensions

in mm

CEX 98 2560 to 3200 A *2.1 draw-out version with separator*



PF *Fixation plane.*

NOTA
Total depth: 860 mm
Drawn-out with device in place

Effective width of connecting sections: 35 and 66 mm