

MEGABREAK

Air circuit breakers

A Group Brand |  legrand



bticino

AIR CIRCUIT BREAKERS UP TO 6300A FIXED



T803...



T804...

All the air circuit breakers are supplied without electronic control units to be chosen, at the moment of the order, in the following versions. The FIXED circuit breakers are supplied with: manual control, terminal board for output aux connection, horizontal rear terminals, 4 auxiliary open/closed/released contacts, protective front cover, mechanical signalling of the tripped/released control unit.

Item		FIXED VERSION
		MEGABREAK - B
Frame 1		Breaking capacity Icu 42kA (415 Vac)
3P	4P	In (A)
T803B630	T804B630	630
T803B800	T804B800	800
T803B1000	T804B1000	1000
T803B1250	T804B1250	1250
T803B1600	T804B1600	1600

Item		FIXED VERSION
		MEGABREAK - A
Frame 1		Breaking capacity Icu 50kA (415 Vac)
3P	4P	In (A)
T803A630	T804A630	630
T803A800	T804A800	800
T803A1000	T804A1000	1000
T803A1250	T804A1250	1250
T803A1600	T804A1600	1600
T804A2000	T804A2000	2000
T803A2500	T804A2500	2500
Frame 2		
T803A3200	T804A3200	3200
T803A4000	T804A4000	4000

Item		FIXED VERSION
		MEGABREAK - H
Frame 1		Breaking capacity Icu 65kA (415 Vac)
3P	4P	In (A)
T803H630	T804H630	630
T803H800	T804H800	800
T803H1000	T804H1000	1000
T803H1250	T804H1250	1250
T803H1600	T804H1600	1600
T803H2000	T804H2000	2000
T803H2500	T804H2500	2500
Frame 2		
T803H3200	T804H3200	3200
T803H4000	T804H4000	4000

Item		FIXED VERSION
		MEGABREAK - L
Frame 2		Breaking capacity Icu 100kA (415 Vac)
3P	4P	In (A)
T803L630	T804L630	630
T803L800	T804L800	800
T803L1000	T804L1000	1000
T803L1250	T804L1250	1250
T803L1600	T804L1600	1600
T803L2000	T804L2000	2000
T803L2500	T804L2500	2500
T803L3200	T804L3200	3200
T803L4000	T804L4000	4000
Frame 3		
3P	4P	
T803L5000	T804L5000	5000
T803L6300	T804L6300	6300

AIR CIRCUIT BREAKERS UP TO 6300A DRAW-OUT



T803...E...



T804...E...

All the air circuit breakers are supplied without electronic control units to be chosen, at the moment of the order, in the following versions. The DRAW-OUT circuit breakers are supplied with: draw-out cell (mounted), draw-out pliers (mounted), manual control, terminal board for output aux connection, flat terminals, 4 auxiliary contacts, sliding contacts to connect the output auxiliaries, protective front cover, safety shutters, crank handle, padlock block for connected circuit breaker, mechanical signalling of the tripped/disconnected control unit.

Item		DRAW-OUT VERSION
		MEGABREAK - B
Frame 1		Breaking capacity Icu 42kA (415 Vac)
3P	4P	In (A)
T803BE630	T804BE630	630
T803BE800	T804BE800	800
T803BE1000	T804BE1000	1000
T803BE1250	T804BE1250	1250
T803BE1600	T804BE1600	1600

Item		DRAW-OUT VERSION
		MEGABREAK - A
Frame 1		Breaking capacity Icu 50kA (415 Vac)
3P	4P	In (A)
T803AE630	T804AE630	630
T803AE800	T804AE800	800
T803AE1000	T804AE1000	1000
T803AE1250	T804AE1250	1250
T803AE1600	T804AE1600	1600
T804AE2000	T804AE2000	2000
T803AE2500	T804AE2500	2500
Frame 2		
T803AE3200	T804AE3200	3200
T803AE4000	T804AE4000	4000

Item		DRAW-OUT VERSION
		MEGABREAK - H
Frame 1		Breaking capacity Icu 65kA (415 Vac)
3P	4P	In (A)
T803HE630	T804HE630	630
T803HE800	T804HE800	800
T803HE1000	T804HE1000	1000
T803HE1250	T804HE1250	1250
T803HE1600	T804HE1600	1600
T803HE2000	T804HE2000	2000
T803HE2500	T804HE2500	2500
Frame 2		
T803HE3200	T804HE3200	3200
T803HE4000	T804HE4000	4000

Item		DRAW-OUT VERSION
		MEGABREAK - L
Frame 2		Breaking capacity Icu 100kA (415 Vac)
3P	4P	In (A)
T803LE630	T804LE630	630
T803LE800	T804LE800	800
T803LE1000	T804LE1000	1000
T803LE1250	T804LE1250	1250
T803LE1600	T804LE1600	1600
T803LE2000	T804LE2000	2000
T803LE2500	T804LE2500	2500
T803LE3200	T804LE3200	3200
T803LE4000	T804LE4000	4000
Frame 3		
3P	4P	
T803LE5000	T804LE5000	5000
T803LE6300	T804LE6300	6300

ELECTRONIC CONTROL UNITS



MP4/TA



MP6TH

The standard electronic control units can be adjusted using the potentiometer and are supplied with: display of settings and data, signalling LED (status, alarms) and communication connector for RS-485 bus systems. The advanced electronic control units are TOUCH SCREEN type and can adjust the protections, display the alarms and the electrical magnitudes and the circuit breaker status on a colour display.

Item	STANDARD ELECTRONIC CONTROL UNITS
	Protection
MP4/BA	Li
MP4/SA	Lsi
MP4/TA	Lsig

Item	ADVANCED ELECTRONIC CONTROL UNITS
	Protection
MP6SH	Lsi
MP6TH	Lsig

Item	ACCESSORIES FOR ELECTRONIC CONTROL UNITS
M8COM	communication option of the electronic control units
M8ALIM12	external module for relay auxiliary power supply
M8TA	external neutral for circuit breakers up to 4000 A
M8TA63	external neutral for circuit breakers up to 6300 A
M7TICPROG	programmable contact module

DISCONNECTORS UP TO 6300A



T803M...



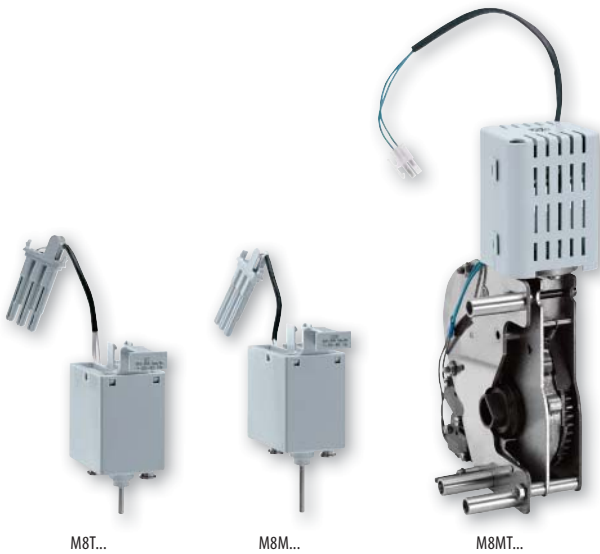
T803ME...

Item	DISCONNECTORS - FIXED VERSION	
	Supplied with rear terminals and auxiliary contacts	
Frame 1		
3P	4P	In (A)
T803M1250	T804M1250	1250
T803M1600	T804M1600	1600
T803M2000	T804M2000	2000
T803M2500	T804M2500	2500
Frame 2		
T803M3200	T804M3200	3200
T803M4000	T804M4000	4000
Frame 3		
T803M6300	T804M6300	6300

Item	DISCONNECTORS - DRAW-OUT VERSION	
	Supplied with base with flat rear terminals and safety lock system	
Frame 2		
3P	4P	In (A)
T803ME1250	T804ME1250	1250
T803ME1600	T804ME1600	1600
T803ME2000	T804ME2000	2000
T803ME2500	T804ME2500	2500
Frame 2		
T803ME3200	T804ME3200	3200
T803ME4000	T804ME4000	4000
Frame 3		
T803ME6300	T804ME6300	6300

The electronic control units associated with the circuit breakers with 42kA breaking capacity Icu can be fitted only with item M7TICPROG. Items M8COM, M8TA and M8TA63 must be supplied already assembled (therefore they must be ordered with the circuit breakers).

ELECTRIC AUXILIARIES



INSTALLATION ACCESSORIES



Item	SHUNT TRIP
	The excitation of the coil opens the circuit breakers.
M8T024C	24 Vac/dc
M8T048C	48 Vac/dc
M8T110C	110-130 Vac/dc
M8T230C	220-250 Vac/dc
M8T415	415-480 Vac

Item	UNDERVOLTAGE RELEASE
M8M024C	24 Vac/dc
M8M048C	48 Vac/dc
M8M110C	110-130 Vac/dc
M8M230C	220-250 Vac/dc
M8M415	415-480 Vac

Item	DELAYED UNDERVOLTAGE RELEASE
	They must be associated with an equivalent voltage release, each module provides a delay of 1s (up to a maximum of 3s)
M8MR110C	110-130 Vac/dc
M8MR230C	220-250 Vac/dc

Item	MOTOR OPERATORS
	For the remote control of the MEGABREAK, it is necessary to use an undervoltage release or a shunt trip and a closing coil, matched with the motor.
M8MT024C	24 Vac/dc
M8MT048C	48 Vac/dc
M8MT110C	110-130 Vac/dc
M8MT230C	220-250 Vac/dc
M8MT415	400-440 Vac/dc
M8MT480	480 Vac

Item	CLOSING COILS
M8C024C	24 Vac/dc
M8C048C	48 Vac/dc
M8C110C	110-130 Vac/dc
M8C230C	220-250 Vac/dc
M8C415	415-480 Vac

Item	KEYLOCKS
	Items MT805AP and MT805AR must be associated with item MT805A
MT805A	2-way open position
MT805AP	open position - Profalux type key
MT805AR	open position - Ronis type key
MT805EP	draw-out position - Profalux type key
MT805ER	draw-out position - Ronis type key

Item	LOCKING DEVICES
MT806AT	block preventing the connection of draw-out circuit breakers with different rated current
MT805SS	connection lock and padlockable safety shutter
MT807SD	door interlock (right and left)
MT807OP	open position padlock block
MT807LT	padlock block for pushbuttons

Item	VARIOUS INSTALLATION ACCESSORIES
M8POS	connected/test/draw-out contact
M8PC	"ready to close" contact with charged springs
M8AGG	additional signalling contact
M8SB	signalling contact for electric auxiliaries
MT807CM	operation counter
MT809PS	lifting plates

DRAW-OUT ACCESSORIES



M803B1



M803B1

CELLS FOR DRAW-OUT VERSION, FIXED PART		
3P	4P	In (A)
M803P1600	M804P1600	Frame 1 (42kA)
M803B1	M804B1	Frame 1
M803B2	M804B2	Frame 2
M803B3	M804B3	Frame 3

TRANSFORMATION KITS FOR DRAW-OUT VERSION		
3P	4P	In (A)
M803P1	M804P1	Frame 1
M803P2	M804P2	Frame 2
M803P3	M804P3	Frame 3

INTERLOCK PLATES

Interlock plates are the same for all the circuit breakers of the same FRAME, and must be completed, in the order, by the connection cables, to be chosen in the lengths and versions shown below.

MT817F1	for 3P and 4P circuit breakers in frame 1
MT817F2	for 3P and 4P circuit breakers in frame 2
MT817F3	for 3P and 4P circuit breakers in frame 3

CABLES FOR MECHANICAL INTERLOCK

The interlock cables selected must be of lengths suitable for the installation modes of the circuit breakers inside the distribution cabinets. The cable selection does not depend on the type of interlocked circuit breaker, or the version.

MT807M1	interlock length 2600 mm
MT807M2	interlock length 3000 mm
MT807M3	interlock length 3600 mm
MT807M4	interlock length 4000 mm
MT807M5	interlock length 4600 mm
MT807M6	interlock length 5600 mm

Note: The rear terminal kits for frame 2 circuit breakers are the same as those for frame 3 circuit breakers. However, the quantity of items must be doubled.

CONNECTION ACCESSORIES



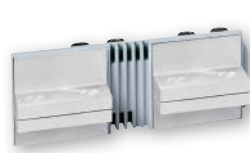
MT8P3P1



MT8HV3P1



MT8HV3P1S



MT8H4P1S



REAR TERMINAL KITS FOR CIRCUIT BREAKERS WITH Icu OF 42kA		
3P	4P	Version
MT8P3P1600	MT8P4P1600	fixed, flat terminals
MT8HV3P1*	MT8HV4P1*	fixed and draw-out, vertical terminals
MT8H3P1600	MT8H4P1600	draw-out, horizontal terminals

REAR TERMINAL KITS FOR CIRCUIT BREAKERS FRAME 1

3P	4P	Version
MT8P3P1	MT8P4P1	fixed, flat terminals
MT8HV3P1*	MT8HV4P1*	fixed, vertical terminals
MT8HV3P1S	MT8HV4P1S	draw-out, adjustable terminals

REAR TERMINAL KITS FOR CIRCUIT BREAKERS FRAME 2

3P	4P	Version
MT8P3P2	MT8P4P2	fixed, flat terminals
MT8HV3P2*	MT8HV4P2*	fixed and draw-out, adjustable terminals

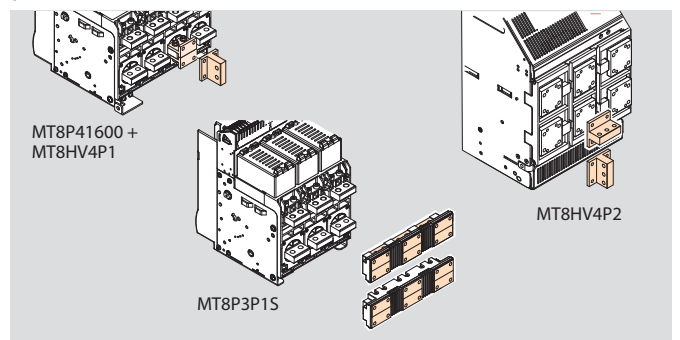
KIT OF POLE SPREADERS FOR CIRCUIT BREAKERS IN FRAME 1

3P	4P	Version
MT8P3P1S	MT8P4P1S	fixed, flat terminals
MT8V3P1S	MT8V4P1S	fixed, vertical terminals
MT8H3P1S	MT8H4P1S	fixed, horizontal terminals

VARIOUS CONNECTION ACCESSORIES

3P	4P	
MT8SF3P	MT8SF4P	insulating shields

* For installation on fixed circuit breakers, the corresponding flat terminal must also be purchased



MT8P3P1S

TECHNICAL DATA

AIR CIRCUIT BREAKERS

		630				800				1000				1250				1600			
Number of poles		3P-4P				3P-4P				3P-4P				3P-4P				3P-4P			
Release rated current In (A)		630				800				1000				1250				1600			
Rated insulating voltage Ui (V)		1000				1000				1000				1000				1000			
Rated pulse withstand voltage Uimp (kV)		12				12				12				12				12			
Rated voltage Ue (Vac a 50-60 Hz)		690				690				690				690				690			
Type		B	A	H	L	B	A	H	L	B	A	H	L	B	A	H	L	B	A	H	L
Frame		1		2		1		2		1		2		1		2		1		2	
Ultimate breaking capacity Icu (kA)	230 Vac	42	50	65	100	42	50	65	100	42	50	65	100	42	50	65	100	42	50	65	100
	415 Vac	42	50	65	100	42	50	65	100	42	50	65	100	42	50	65	100	42	50	65	100
	500 Vac	42	50	65	100	42	50	65	100	42	50	65	100	42	50	65	100	42	50	65	100
	600 Vac	42	50	60	75	42	50	60	75	42	50	60	75	42	50	60	75	42	50	60	75
	690 Vac	42	50	55	65	42	50	55	65	42	50	55	65	42	50	55	65	42	50	55	65
Service breaking capacity Ics (%Icu)		100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Rated closing capacity Icm (kA)	230 Vac	88	105	143	220	88	105	143	220	88	105	143	220	88	105	143	220	88	105	143	220
	415 Vac	88	105	143	220	88	105	143	220	88	105	143	220	88	105	143	220	88	105	143	220
	500 Vac	88	105	143	220	88	105	143	220	88	105	143	220	88	105	143	220	88	105	143	220
	600 Vac	88	105	132	165	88	105	132	165	88	105	132	165	88	105	132	165	88	105	132	165
	690 Vac	88	105	121	143	88	105	121	143	88	105	121	143	88	105	121	143	88	105	121	143
Short-time withstand current Icw (kA) for 1s	230 Vac	42	50	65	85	42	50	65	85	42	50	65	85	42	50	65	85	42	50	65	85
	415 Vac	42	50	65	85	42	50	65	85	42	50	65	85	42	50	65	85	42	50	65	85
	500 Vac	42	50	65	85	42	50	65	85	42	50	65	85	42	50	65	85	42	50	65	85
	600 Vac	42	50	60	75	42	50	60	75	42	50	60	75	42	50	60	75	42	50	60	75
	690 Vac	42	50	55	65	42	50	55	65	42	50	55	65	42	50	55	65	42	50	55	65
Single-pole breaking capacity: I _{su} for systems with earth phase; I _{lit} for IT systems	230 Vac	19.2	30	30	48	19.2	30	30	48	19.2	30	30	48	19.2	30	30	48	19.2	30	30	48
	415 Vac	19.2	30	30	48	19.2	30	30	48	19.2	30	30	48	19.2	30	30	48	19.2	30	30	48
Neutral protection (% phase I)		0-50-100				0-50-100				0-50-100				0-50-100				0-50-100			
Utilization category		B				B				B				B				B			
Aptitude to insulation		yes				yes				yes				yes				yes			
Maximum No. of operations	mechanical	10000				10000				10000				10000				10000			
	electrical	5000				5000				5000				5000				5000			
Opening time		15 ms				15 ms				15 ms				15 ms				15 ms			
Closing time		30 ms				30 ms				30 ms				30 ms				30 ms			

		2000			2500			3200			4000			5000	6300
Number of poles		3P-4P			3P-4P			3P-4P			3P-4P			3P-4P	3P-4P
Release rated current In (A)		2000			2500			3200			4000			5000	6300
Rated insulating voltage Ui (V)		1000			1000			1000			1000			1000	1000
Rated pulse withstand voltage Uimp (kV)		12			12			12			12			12	12
Rated voltage Ue (Vac at 50-60 Hz)		690			690			690			690			690	690
Type		A	H	L	A	H	L	A	H	L	A	H	L	L	L
Frame		1		2	1		2	2			2			3	3
Ultimate breaking capacity Icu (kA)	230 Vac	50	65	100	50	65	100	50	65	100	50	65	100	100	100
	415 Vac	50	65	100	50	65	100	50	65	100	50	65	100	100	100
	500 Vac	50	65	100	50	65	100	50	65	100	50	65	100	100	100
	600 Vac	50	60	75	50	60	75	50	65	75	50	65	75	75	75
	690 Vac	50	55	65	50	55	65	50	65	65	50	65	65	65	65
Service breaking capacity Ics (%Icu)		100	100	100	100	100	100	100	100	100	100	100	100	100	100
Rated closing capacity Icm (kA)	230 Vac	105	143	220	105	143	220	105	143	220	105	143	220	220	220
	415 Vac	105	143	220	105	143	220	105	143	220	105	143	220	220	220
	500 Vac	105	143	220	105	143	220	105	143	220	105	143	220	220	220
	600 Vac	105	132	165	105	132	165	105	143	165	105	143	165	165	165
	690 Vac	105	121	143	105	121	143	105	143	143	105	143	143	143	143
Short-time withstand current Icw (kA) for 1s	230 Vac	50	65	85	50	65	85	50	65	85	50	65	85	100	100
	415 Vac	50	65	85	50	65	85	50	65	85	50	65	85	100	100
	500 Vac	50	65	85	50	65	85	50	65	85	50	65	85	100	100
	600 Vac	50	60	75	50	60	75	50	65	75	50	65	75	75	75
	690 Vac	50	55	65	50	55	65	50	65	65	50	65	65	65	65
Breaking capacity I _{su} /I _{lit} (kA) in IT systems	230 Vac	30	30	48	30	30	48	48	48	48	48	48	48	75.6	75.6
	415 Vac	30	30	48	30	30	48	48	48	48	48	48	48	75.6	75.6
Neutral protection (% phase I)		0-50-100			0-50-100			0-50-100			0-50-100			0-50-100	
Utilization category		B			B			B			B			B	
Aptitude to insulation		yes			yes			yes			yes			yes	
Maximum No. of operations	mechanical	10000			10000			10000			10000			5000	
	electrical	5000			5000			5000			5000			2500	
Opening time		15 ms			15 ms			15 ms			15 ms			15 ms	
Closing time		30 ms			30 ms			30 ms			30 ms			30 ms	

DISCONNECTORS (AC23-DC23)

		1250	1600	2000	2500	3200	4000	6300
Number of poles		3P-4P	3P-4P	3P-4P	3P-4P	3P-4P	3P-4P	3P-4P
Rated insulating voltage Ui (V)		1000	1000	1000	1000	1000	1000	1000
Rated pulse withstand voltage Uimp (kV)		12	12	12	12	12	12	12
Rated voltage Ue (Vac a 50-60 Hz)		690	690	690	690	690	690	690
Frame		1	1	1	1	2	2	3
Rated closing capacity Icm (kA)	230 Vac	143	143	143	143	220	220	220
	415 Vac	143	143	143	143	220	220	220
	500 Vac	143	143	143	143	220	220	220
	600 Vac	132	132	132	132	165	165	165
	690 Vac	121	121	121	121	143	143	143
Short-time withstand current Icw (kA) for 1s	230 Vac	65	65	65	65	85	85	100
	415 Vac	65	65	65	65	85	85	100
	500 Vac	65	65	65	65	85	85	100
	600 Vac	60	60	60	60	75	75	75
	690 Vac	55	55	55	55	65	65	65
Aptitude to insulation		yes	yes	yes	yes	yes	yes	yes
Maximum No. of operations	mechanical	10000	10000	10000	10000	10000	10000	5000
	electrical	5000	5000	5000	5000	5000	5000	2500
Opening time		15 ms	15 ms	15 ms	15 ms	15 ms	15 ms	15 ms
Closing time		30 ms	30 ms	30 ms	30 ms	30 ms	30 ms	30 ms

DOWNGRADING IN TEMPERATURE

FIXED	up to 40°C		50°C		60°C		65°C		70°C	
	I _{max} (A)	I _r /I _n	I _{max} (A)	I _r /I _n	I _{max} (A)	I _r /I _n	I _{max} (A)	I _r /I _n	I _{max} (A)	I _r /I _n
42kA	630	1	630	1	630	1	630	1	630	1
	800	1	800	1	800	1	800	1	800	1
	1000	1	1000	1	1000	1	1000	1	1000	1
	1250	1	1250	1	1250	1	1250	1	1225	0.98
	1600	1	1600	1	1536	0.96	1440	0.9	1376	0.86
F1	630	1	630	1	630	1	630	1	630	1
	800	1	800	1	800	1	800	1	800	1
	1000	1	1000	1	1000	1	1000	1	1000	1
	1250	1	1250	1	1250	1	1250	1	1250	1
	1600	1	1600	1	1600	1	1600	1	1600	1
	2000	1	2000	1	1960	0.98	1920	0.96	1880	0.94
F2	2500	1	2450	0.98	2350	0.94	2250	0.9	2150	0.86
	630	1	630	1	630	1	630	1	630	1
	800	1	800	1	800	1	800	1	800	1
	1000	1	1000	1	1000	1	1000	1	1000	1
	1250	1	1250	1	1250	1	1250	1	1250	1
	1600	1	1600	1	1600	1	1600	1	1600	1
	2000	1	2000	1	2000	1	2000	1	2000	1
	2500	1	2500	1	2500	1	2500	1	2500	1
	3200	1	3200	1	3200	1	3136	0.98	3008	0.94
	4000	1	3920	0.98	3680	0.92	3440	0.86	3120	0.78
F3	5000	1	5000	1	5000	1	5000	1	5000	1
	6300	1	6300	1	6048	0.96	5796	0.92	5544	0.88

DRAW-OUT	up to 40°C		50°C		60°C		65°C		70°C		
	I _{max} (A)	I _r /I _n	I _{max} (A)	I _r /I _n	I _{max} (A)	I _r /I _n	I _{max} (A)	I _r /I _n	I _{max} (A)	I _r /I _n	
42kA	630	1	630	1	630	1	630	1	630	1	
	800	1	800	1	800	1	800	1	800	1	
	1000	1	1000	1	1000	1	1000	1	1000	1	
	1250	1	1250	1	1250	1	1225	0.98	1175	0.94	
	1600	1	1536	0.96	1440	0.9	1376	0.86	1280	0.8	
F1	630	1	630	1	630	1	630	1	630	1	
	800	1	800	1	800	1	800	1	800	1	
	1000	1	1000	1	1000	1	1000	1	1000	1	
	1250	1	1250	1	1250	1	1250	1	1250	1	
	1600	1	1600	1	1600	1	1600	1	1600	1	
	2000	1	2000	1	1960	0.98	1920	0.96	1875	0.94	
	2500	1	2400	0.96	2250	0.9	2100	0.84	1950	0.78	
	630	1	630	1	630	1	630	1	630	1	
F2	800	1	800	1	800	1	800	1	800	1	
	1000	1	1000	1	1000	1	1000	1	1000	1	
	1250	1	1250	1	1250	1	1250	1	1250	1	
	1600	1	1600	1	1600	1	1600	1	1600	1	
	2000	1	2000	1	2000	1	2000	1	2000	1	
	2500	1	2500	1	2500	1	2500	1	2500	1	
	3200	1	3200	1	3200	1	3072	0.96	2880	0.9	
	4000	1	3760	0.94	3440	0.86	3200	0.8	2960	0.74	
	F3	5000	1	5000	1	5000	1	5000	1	5000	1
		6300	1	6174	0.98	5985	0.95	5796	0.92	5292	0.84

POWER CONSUMPTION FOR EACH POLE

In (A)	Circuit breakers				Disconnectors			
	Fixed		Draw-out		Fixed		Draw-out	
	F1	F2/F3	F1	F2/F3	F1	F2/F3	F1	F2/F3
630	13	10	32	19	13	10	32	19
800	20	16	51	31	20	16	51	31
1000	32	25	80	48	32	25	80	48
1250	50	39	125	75	50	39	125	75
1600	82	64	205	123	82	64	205	123
2000	128	100	320	192	128	100	320	192
2500	200	156	500	300	200	156	500	300
3200	-	256	-	492	-	256	-	492
4000	-	400	-	768	-	400	-	768
5000	-	325	-	625	-	-	-	-
6300	-	516	-	992	-	516	-	992

RELEASE RATED CURRENT IN (A) AT 40°C

In (A)	L1-L2-L3	N
630	630	0-315-630
800	800	0-400-800
1000	1000	0-500-1000
1250	1250	0-625-1250
1600	1600	0-800-1600
2000	2000	0-1000-2000
2500	2500	0-1250-2500
3200	3200	0-1600-3200
4000	4000	0-2000-4000
5000	5000	0-2500-5000
6300	6300	0-3150-6300

SELECTIVITY

SELECTIVITY WITH DOWNSTREAM BTDIN/MEGATIKER (400 Vac)

Downstream circuit breaker	In (A)	Upstream MEGABREAK				
		630	800	1000	1250	1600-6300
BTDIN45/60/100/250	≤125	T	T	T	T	T
M1 160 E/B/N	≤160	T	T	T	T	T
M2 250 B/F/H	≤250	T	T	T	T	T
MA/MH 160	≤160	T	T	T	T	T
MA/MH/ML 250	≤250	T	T	T	T	T
M4 630	≤400	T	T	T	T	T
	≤630	T	T	T	T	T
M5 1600	≤630	T	T	T	T	T
	800	-	T	T	T	T
	1000	-	-	T	T	T
	1250	-	-	-	T	T
M5 1600 (base)	630	T	T	T	T	T
	800	-	T	T	T	T
M5 1600(select.)	630	T	T	T	T	T
	800	-	T	T	T	T
M5 1600	1250	-	-	-	T	T
	1600	-	-	-	-	T

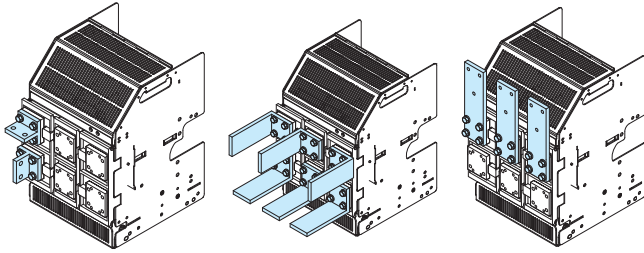
SELECTIVITY AMONG MEGABREAK (400 Vac)

Downstream	In (A)	Upstream MEGABREAK												
		MB						MA						
		630	800	1000	1250	1600	630	800	1000	1250	1600	2000	2500	
MB	630	T	T	T	T	T	T	T	T	T	T	T	T	T
	800	-	T	T	T	T	-	T	T	T	T	T	T	T
	1000	-	-	T	T	T	-	-	T	T	T	T	T	T
	1250	-	-	-	T	T	-	-	-	T	T	T	T	T
	1600	-	-	-	-	T	-	-	-	-	T	T	T	T
MA	630	-	-	-	-	-	T	T	T	T	T	T	T	T
	800	-	-	-	-	-	-	T	T	T	T	T	T	T
	1000	-	-	-	-	-	-	-	T	T	T	T	T	T
	1250	-	-	-	-	-	-	-	-	T	T	T	T	T
	1600	-	-	-	-	-	-	-	-	-	T	T	T	T
	2000	-	-	-	-	-	-	-	-	-	-	T	T	T
	2500	-	-	-	-	-	-	-	-	-	-	-	T	T

Downstr.	In (A)	Upstream MEGABREAK															
		MH							ML								
		630	800	1000	1250	1600	2000	2500	630	800	1000	1250	1600	2000	2500	3200	≥4000
MB	630	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	800	-	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	1000	-	-	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	1250	-	-	-	T	T	T	T	T	T	T	T	T	T	T	T	T
	1600	-	-	-	-	T	T	T	T	T	T	T	T	T	T	T	T
MA	630	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	800	-	T	T	T	T	T	T	-	T	T	T	T	T	T	T	T
	1000	-	-	T	T	T	T	T	-	-	T	T	T	T	T	T	T
	1250	-	-	-	T	T	T	T	-	-	-	T	T	T	T	T	T
	1600	-	-	-	-	T	T	T	-	-	-	-	T	T	T	T	T
	2000	-	-	-	-	-	T	T	-	-	-	-	-	T	T	T	T
MH	630	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	800	-	T	T	T	T	T	T	-	T	T	T	T	T	T	T	T
	1000	-	-	T	T	T	T	T	-	-	T	T	T	T	T	T	T
	1250	-	-	-	T	T	T	T	-	-	-	T	T	T	T	T	T
	1600	-	-	-	-	T	T	T	-	-	-	-	T	T	T	T	T
	2000	-	-	-	-	-	T	T	-	-	-	-	-	T	T	T	T
	2500	-	-	-	-	-	-	T	-	-	-	-	-	-	T	T	T
ML	630	-	-	-	-	-	-	-	T	T	T	T	T	T	T	T	T
	800	-	-	-	-	-	-	-	-	T	T	T	T	T	T	T	T
	1000	-	-	-	-	-	-	-	-	-	T	T	T	T	T	T	T
	1250	-	-	-	-	-	-	-	-	-	-	T	T	T	T	T	T
	1600	-	-	-	-	-	-	-	-	-	-	-	T	T	T	T	T
	2000	-	-	-	-	-	-	-	-	-	-	-	-	T	T	T	T
	2500	-	-	-	-	-	-	-	-	-	-	-	-	-	T	T	T
	3200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	T	T
	4000-6300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	T

BUSBARS AND CONNECTIONS

MINIMUM DIMENSIONS OF THE CONNECTION BUSBARS



FIXED VERSION

In (A)	FRAME 1		FRAME 2	
	Vertical	Horizontal	Vertical	Horizontal
630	50x10	60x10	1x40x10 or 2x40x5	2x40x5
800	60x10	60x10	1x50x10 or 2x50x5	2x50x5
1000	80x10	80x10	1x50x10 or 2x50x5	2x50x5
1250	80x10	2x60x10	2x50x5	1x50x10 + 1x50x5
1600	2x60x10	2x80x10	1x50x10 + 1x50x5	2x50x10
2000	2x80x10	3x80x10	2x50x10	2x60x10
2500	3x80x10	3x80x10	3x50x10	3x60x10
3200			3x100x10	3x100x10
4000			4x100x10	5x100x10
5000	6x100x10	6x100x10		
6300	7x100x10	7x100x10		

DRAW-OUT VERSION FRAME 1 AND FRAME 2

In (A)	Vertical busbars (mm)	Horizontal busbars (mm)
630	50x10	60x10
800	60x10	60x10
1000	80x10	80x10
1250	80x10	2x60x10
1600	2x60x10	2x80x10
2000	2x80x10	3x80x10
2500	3x80x10	3x80x10
3200	3x100x10	3x100x10
4000	4x100x10	5x100x10
5000	6x100x10	6x100x10
6300	7x100x10	7x100x10

VERTICAL TERMINALS

Iu (A)	Output (A)			Busbar section (mm ²)
	35°C	45°C	55°C	
630	630	630	630	1 x (50x10)
800	800	800	800	1 x (60x10)
1000	1000	1000	1000	1 x (80x10)
1250	1250	1250	1250	1 x (80x10)
1600	1600	1600	1500	2 x (60x10)
2000	2000	2000	1800	2 x (80x10)
2500	2500	2500	2500	3 x (80x10)
3200	3200	3100	2800	3 x (100x10)
4000	4000	3980	3500	4 x (100x10)

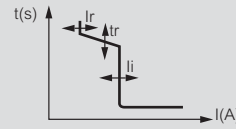
HORIZONTAL AND FRONT TERMINALS

Iu (A)	Output (A)			Busbar section (mm ²)
	35°C	45°C	55°C	
630	630	630	630	1 x (60x10)
800	800	800	800	1 x (60x10)
1000	1000	1000	1000	1 x (80x10)
1250	1250	1250	1200	2 x (80x10)
1600	1550	1450	1350	2 x (60x10)
2000	2000	2000	1750	3 x (80x10)
2500	2500	2450	2400	3 x (80x10)
3200	3000	2880	2650	3 x (100x10)
4000	3600	3510	3150	6 x (60x10)

The values shown are for installation in MAS cabinets

ELECTRONIC CONTROL UNIT ADJUSTMENTS

MP4 LI



Adjustment of the tripping current for overload

Ir from 0.4 to 1 x In (6 + 6 steps) with 2 selectors (0.4 to 0.9 with 0.1 steps, and 0.0 to 0.1 with 0.02 steps)

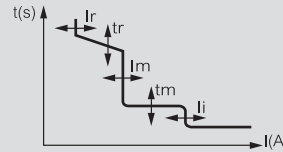
Adjustment of the tripping time for overload

tr - to 6 x Ir (4 + 4 steps)
tr = 5-10-20-30 s (MEM ON) 30-20-10-5 s (MEM OFF)

Adjustment of the tripping current for short circuit

Im from 1.5 to 10 Ir (9 steps) Im = 1.5-2-2.5-3-4-5-6-8-10 x Ir
Neutral protection: IN = I-II-III-IV x Ir (0-50-100-100 %)

MP4 LSI



Adjustment of the tripping current for overload

Ir from 0.4 to 1 x In (6 + 6 steps) with 2 selectors (0.4 to 0.9 with 0.1 steps, and 0.0 to 0.1 with 0.02 steps)

Adjustment of the tripping time for overload

tr - to 6 x Ir (4 + 4 steps)
tr = 5-10-20-30 s (MEM ON) 30-20-10-5 s (MEM OFF)

Adjustment of the tripping current for short circuit

Im from 1.5 to 10 Ir (9 steps) Im = 1.5-2-2.5-3-4-5-6-8-10 x Ir

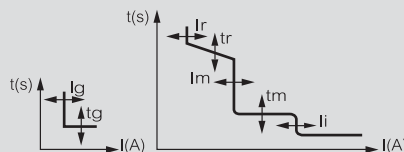
Adjustment of the tripping time for short circuit

tm from 0 to 0.3 s (4 + 4 steps) tm = 0-0.1-0.2-0.3 s (t=cost), 0.3-0.2-0.1-0.01 s (I²t=cost)

Instantaneous fixed protection

li from 2 to Icw x In (9 steps) li=2-3-4-6-8-10-12-15-Icw x In
Neutral protection: IN = I-II-III-IV x Ir (0-50-100-100 %)

MP4 LSIg



Adjustment of the tripping current for overload

Ir from 0.4 to 1 x In (6 + 6 steps) with 2 selectors (0.4 to 0.9 with 0.1 steps, and 0.0 to 0.1 with 0.02 steps)

Adjustment of the tripping time for overload

tr - to 6 x Ir (4 + 4 steps)
tr = 5-10-20-30 s (MEM ON) 30-20-10-5 s (MEM OFF)

Adjustment of the tripping current for short circuit

Im from 1.5 to 10 Ir (9 steps) Im = 1.5-2-2.5-3-4-5-6-8-10 x Ir

Adjustment of the tripping time for short circuit

tm from 0 to 0.3 s (4 + 4 steps) tm = 0-0.1-0.2-0.3 s (t=cost), 0.3-0.2-0.1-0.01 s (I²t=cost)

Instantaneous fixed protection

li from 2 to Icw x In (9 steps) li=2-3-4-6-8-10-12-15-Icw x In

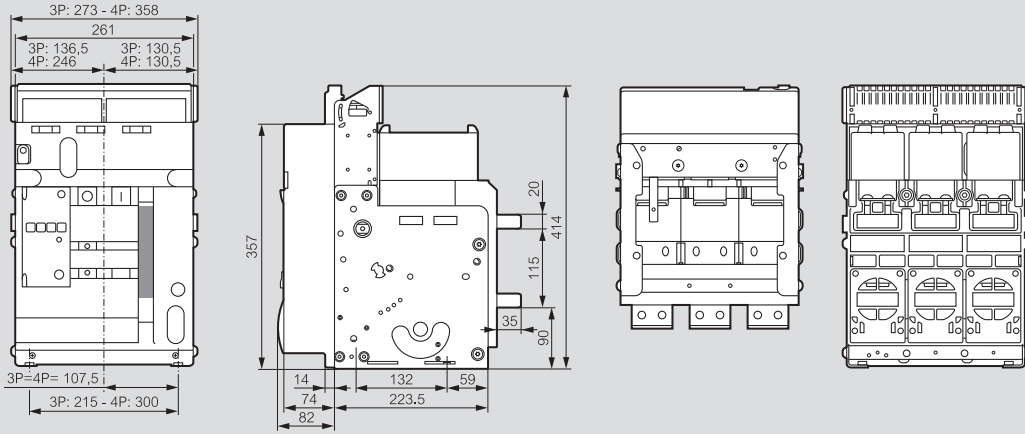
Adjustment of the tripping current for earth fault

Ig from 0.2 to 1 x In (9 steps)
tg from 0.1 to 1 x In (4 steps)

Neutral protection: IN = I-II-III-IV x Ir (0-50-100-100 %)

DIMENSIONAL DATA

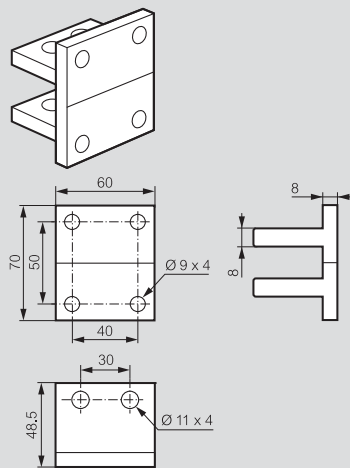
FIXED VERSION - FRAME 1



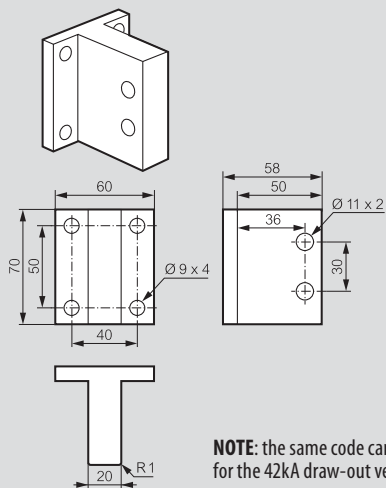
FIXED REAR TERMINALS, 800 - 2500 A VERSION



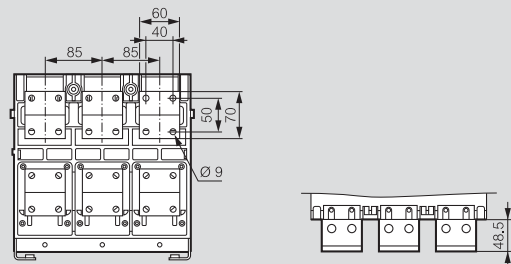
REAR TERMINALS FOR BUSBAR FLAT CONNECTION



REAR TERMINALS FOR BUSBAR CONNECTION

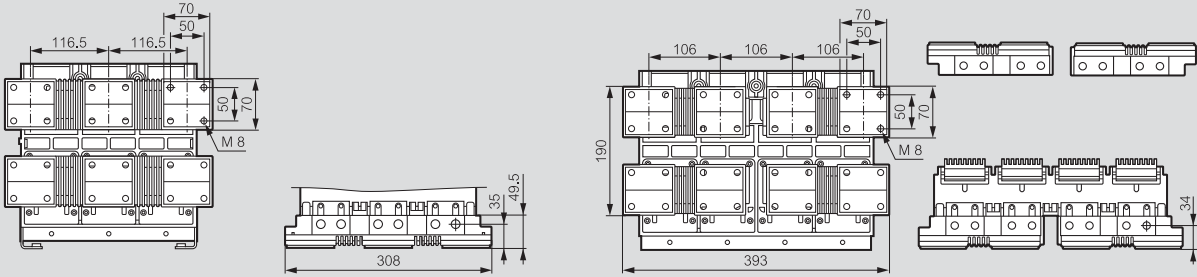


NOTE: the same code can be used for the 42kA draw-out version

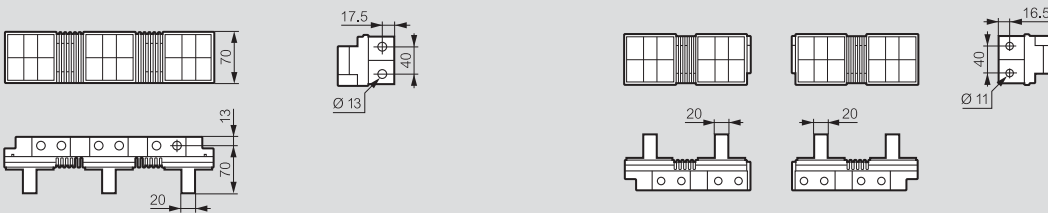


DIMENSIONAL DATA

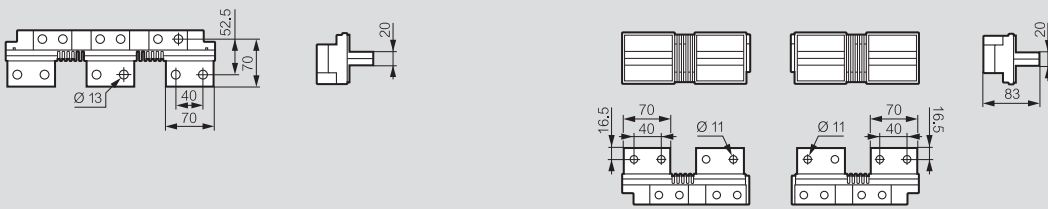
REAR SPREADERS FOR BUSBAR FLAT CONNECTION



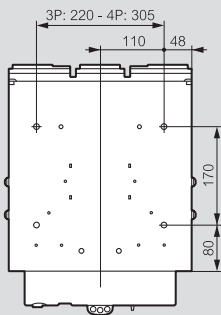
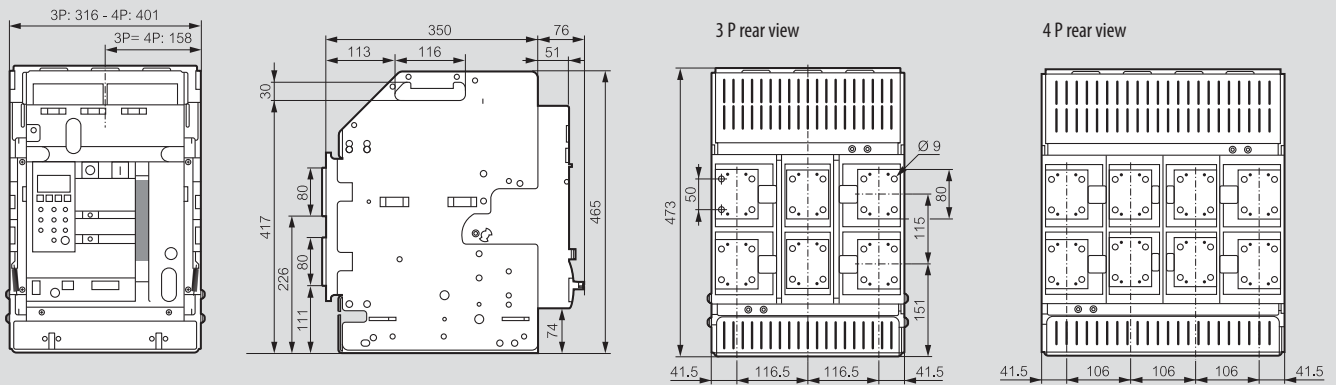
REAR SPREADERS FOR BUSBAR VERTICAL CONNECTION



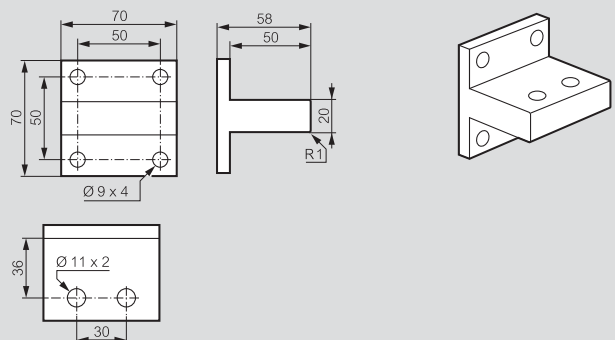
REAR SPREADERS FOR BUSBAR HORIZONTAL CONNECTION



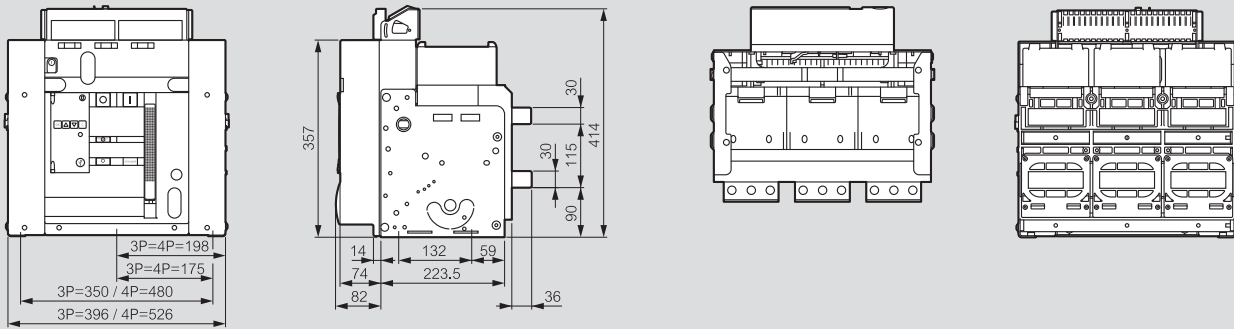
DRAW-OUT VERSION - FRAME 1



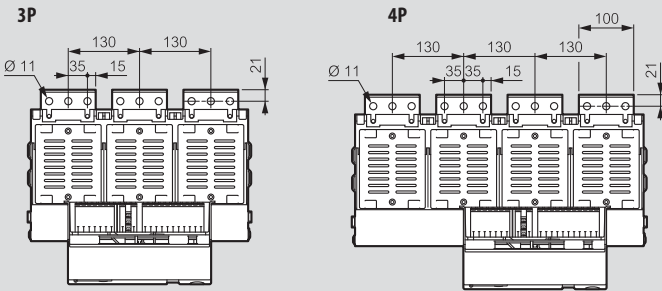
REAR TERMINALS FOR BUSBAR HORIZONTAL OR VERTICAL CONNECTION



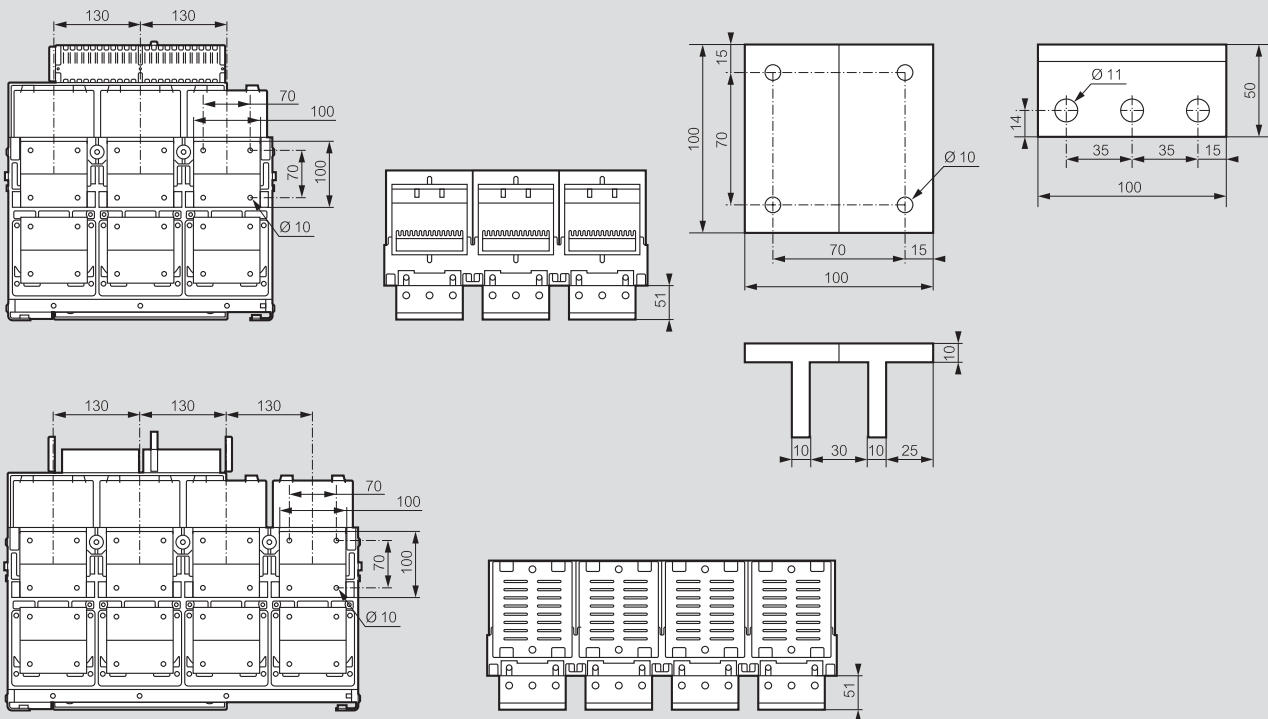
FIXED VERSION - FRAME 2



FIXED REAR TERMINALS, 3200 -4000 A VERSION

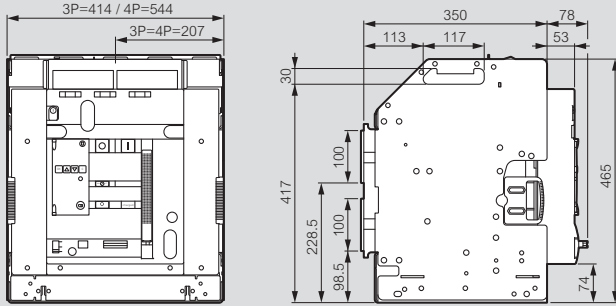


REAR TERMINALS FOR BUSBAR FLAT CONNECTION



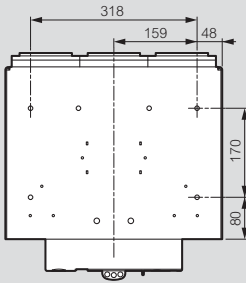
DIMENSIONAL DATA

DRAW-OUT VERSION - FRAME 2

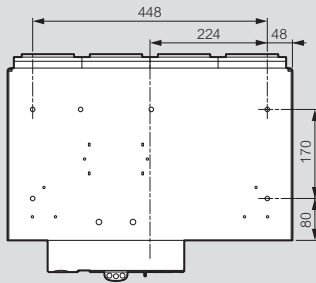


3P upper view

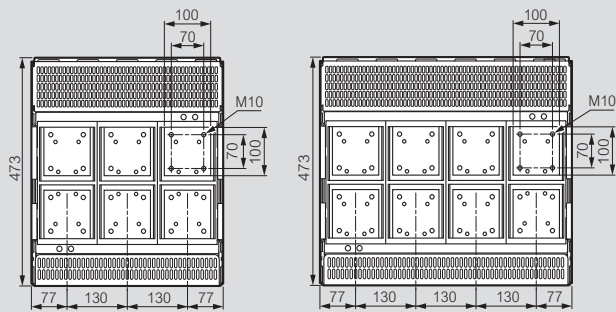
4P upper view



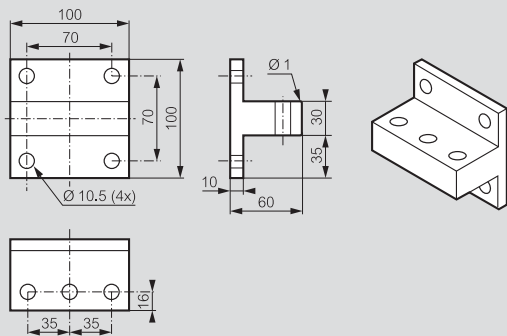
3P rear view



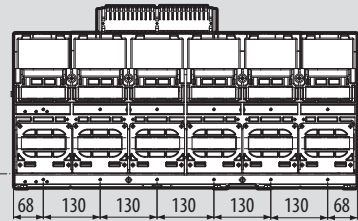
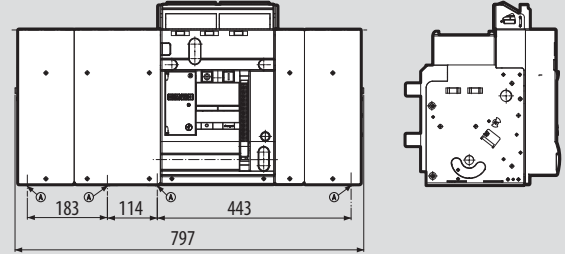
4P rear view



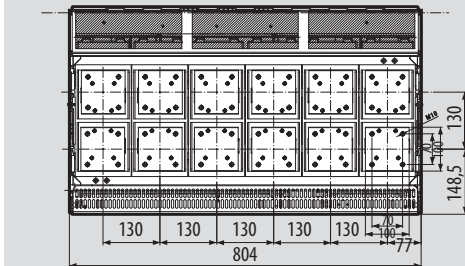
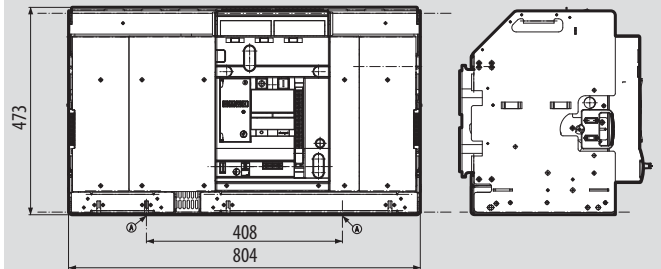
REAR TERMINALS FOR BUSBAR HORIZONTAL OR VERTICAL CONNECTION



FRAME 3 - IN = 6300 A



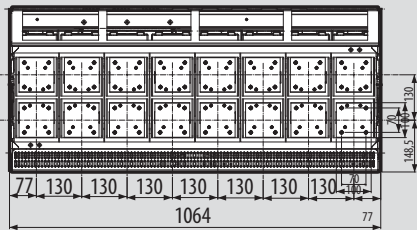
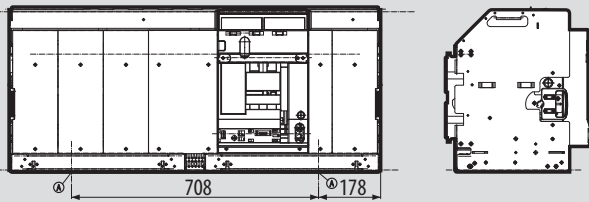
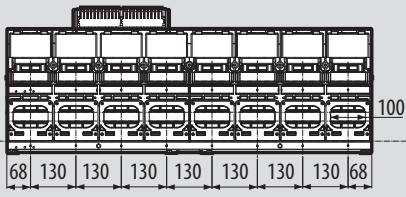
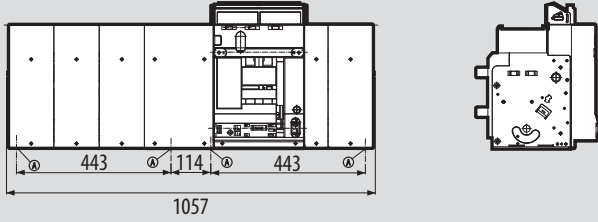
3P fixed



3P draw-out

DIMENSIONAL DATA

FRAME 3 - IN = 6300 A



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AD-EX-MB2016C - 07/2016