

ABB 1200V ACB





ABW Air Circuit Breaker

Designed for the protection of high power electrical circuits, the ABW Air Circuit Breakers are state-of-the art products in terms of technology and design.

The characteristics that make this line stand out include:

Wide range of current adjustment

ABW16	640 to 1600A
ABW20	800 to 2000A
ABW25	1000 to 2500A
ABW32	1280 to 3200A
ABW40	1600 to 4000A
ABW50	2000 to 5000A
ABW63	2520 to 6300A

High short circuit breaking capacity, with $I_{cs} = I_{cu}$ for the entire series

$I_{cu} = I_{cs} @ 460/480/500V$	ABW16	65 kA
	ABW20	85 kA
	ABW25...32	85 kA
	ABW40...50	100 kA
	ABW63	120 kA

Available in two versions: FIXED and WITHDRAWABLE



Microprocessed electronic protection units, with LSIG protection and the possibility for network communication



Complete range of accessories



ABW 1600 A



ABW 5000 A

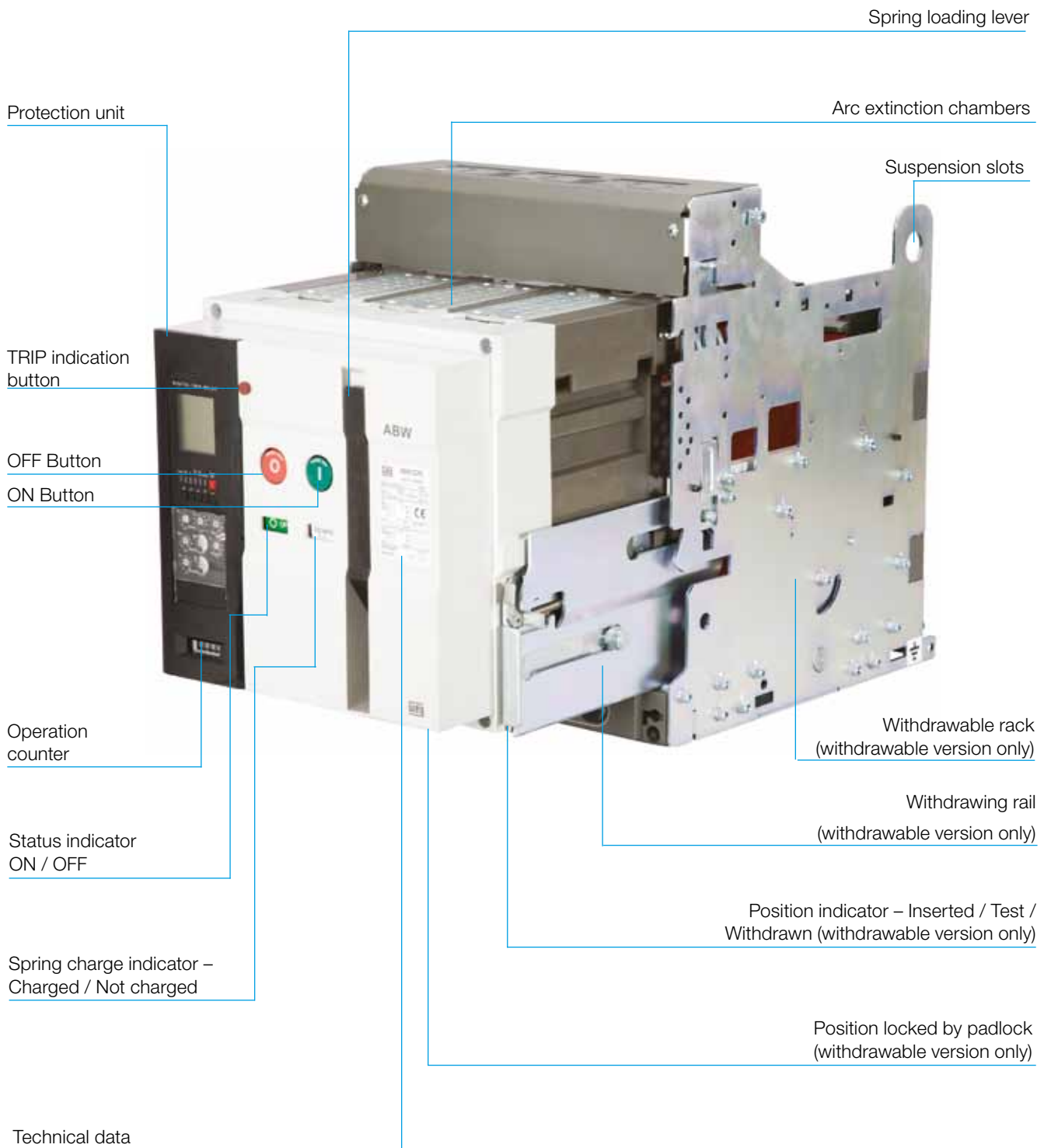


ABW 3200 A



ABW 6300 A

Construction Characteristics



Technical Data

		ABW16	ABW20	ABW25	ABW32	ABW40	ABW50	ABW63
Max. Rated Current - In max. (A) (40°C)		1600	2000	2500	3200	4000	5000	6300
Rated Operational Voltage - Ue (V)		690						
Rated Insulation Voltage - Ui (V)		1000						
Impulse Voltage - Uimp (kV)		12						
Frequency (Hz)		50 / 60						
Number of poles		3 / 4						
Versions		Fixed / Withdrawable						
Protection units		Electronic						
Rated ultimate short-circuit breaking capacity - Icu (kA)	220 / 380 / 415 V	65	85			100		120
	440 / 480 / 500 V	65	85			100		120
	550 / 600 / 690 V	50	85			85		100
Rated service short-circuit breaking capacity - Ics (kA)	220 / 380 / 415 V	65	85			100		120
	440 / 480 / 500 V	65	85			100		120
	550 / 600 / 690 V	50	85			85		100
Rated short-time withstand current - Icw (kA)	1s	50	85			85		100
	2s	42	75			75		90
	3s	36	65			65		85
Rated making capacity - Icm (kA peak)	220 / 380 / 415 V	143	187			220		264
	440 / 480 / 500 V	143	187			220		264
	550 / 600 / 690 V	105	187			187		220
Utilisation category		B						
Operating time (ms)	Max. total breaking time	40						
	Max. closing time	80						
Mechanical lifespan (number of operations)		20000	15000			10000		10000
Electrical lifespan (number of operations)		5000	5000			2000		2000
Altitude (m)		≤ 2000 ¹⁾						
Ambient temperature	Operating	-5...40°C ²⁾						
	Storage	-20...60°C						
Weight (kg)	Withdrawable ³⁾	61	85			143		184
	Fixed	32	42			74		96
Connection terminal - Fixed / Withdrawable	Horizontal	Standard						
	Vertical	Standard - change position				Optional (under request)		
External dimensions HxWxD (mm)	3P	Withdrawable	430x334x424	430x412x424			460x629x449	460x785x449
		Fixed	320x354x328	320x432x328			380x649x363	380x805x363
	4P	Withdrawable	430x419x424	430x527x424			460x799x449	460x1015x449
		Fixed	320x439x328	320x547x328			380x819x363	380x1035x363

Notes:

1) For installation above 2000m from sea level, please consider derating factors, as shown in the chart below;

2) For ambient temperature above 40°C, check maximum rated current values in the chart below;

3) Including withdrawable rack.

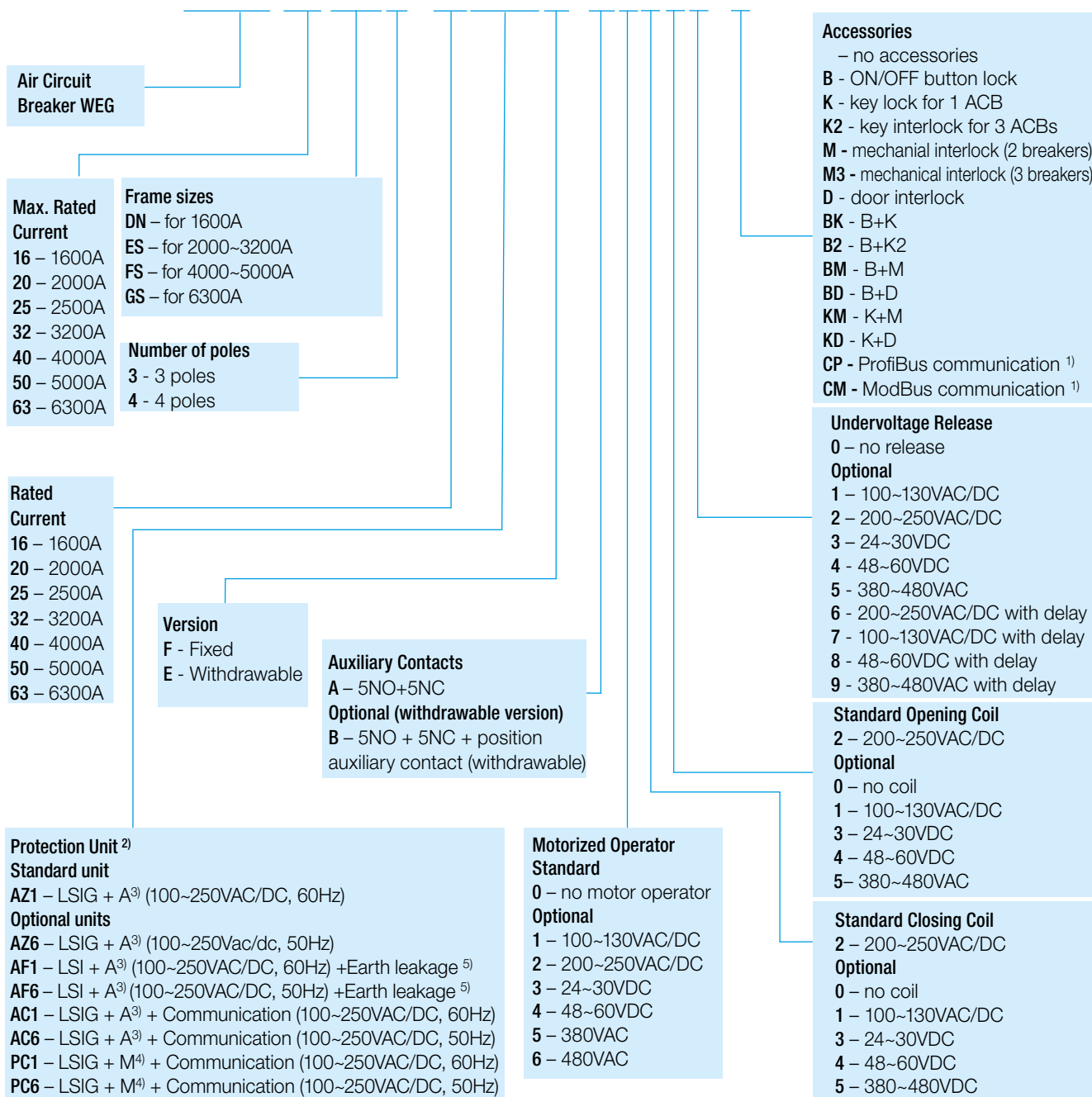
Altitude - h	Rated voltage reduction factor	Insulation voltage	Rated current reduction factor
h ≤ 2000m	690	1000	1.00
2000 < h ≤ 3000m	590	900	0.99
3000 < h ≤ 4000m	520	700	0.96
4000 < h ≤ 5000m	460	600	0.94

Ambient temperature	Horizontal position terminal						
	ABW16	ABW20	ABW25	ABW32	ABW40	ABW50	ABW63
40°C	1600	2000	2500	3200	4000	5000	6300
45°C	1600	2000	2500	3200	3900	5000	6300
50°C	1600	2000	2500	3100	3800	4900	6200
55°C	1550	2000	2400	3000	3700	4800	6100
60°C	1500	2000	2300	2900	3600	4700	6000

Vertical position terminal						
ABW16	ABW20	ABW25	ABW32	ABW40	ABW50	ABW63
1600	2000	2500	3200	4000	5000	6300
1600	2000	2500	3200	3950	5000	6300
1600	2000	2500	3150	3850	4950	6250
1600	2000	2450	3050	3750	4850	6150
1550	2000	2350	2950	3650	4750	6050

Selection Guide

ABW16DN3-16AZ1F-A0220



Accessories supplied as standard for the entire range
Auxiliary contacts (5NO+5NC)
Alarm contacts
Opening coil 200-250VAC/DC
Closing coil 200-250VAC/DC
Operation counter
Position locking with Padlock (padlock not included) – withdrawable version only
Position indicator (Inserted /Test/ Withdrawn) – withdrawable version only

Accessories supplied as optional
Motor operator
Undervoltage release
Condenser trip device
Key lock
Key interlock
Door frame
Transparent cover
Mechanical interlock
Door interlock
Position auxiliary contacts

Note:

1) To be used with circuit breakers that have protection units type AC or PC.

2) For further information about the protection units, see pages 12, 13 and 14.

3) A - Current measurement

4) M - Current, voltage, power and frequency measurements

5) The current transformer ABW-ZCT must be used for earth leakage protection (supplied how accessory), see page 9.

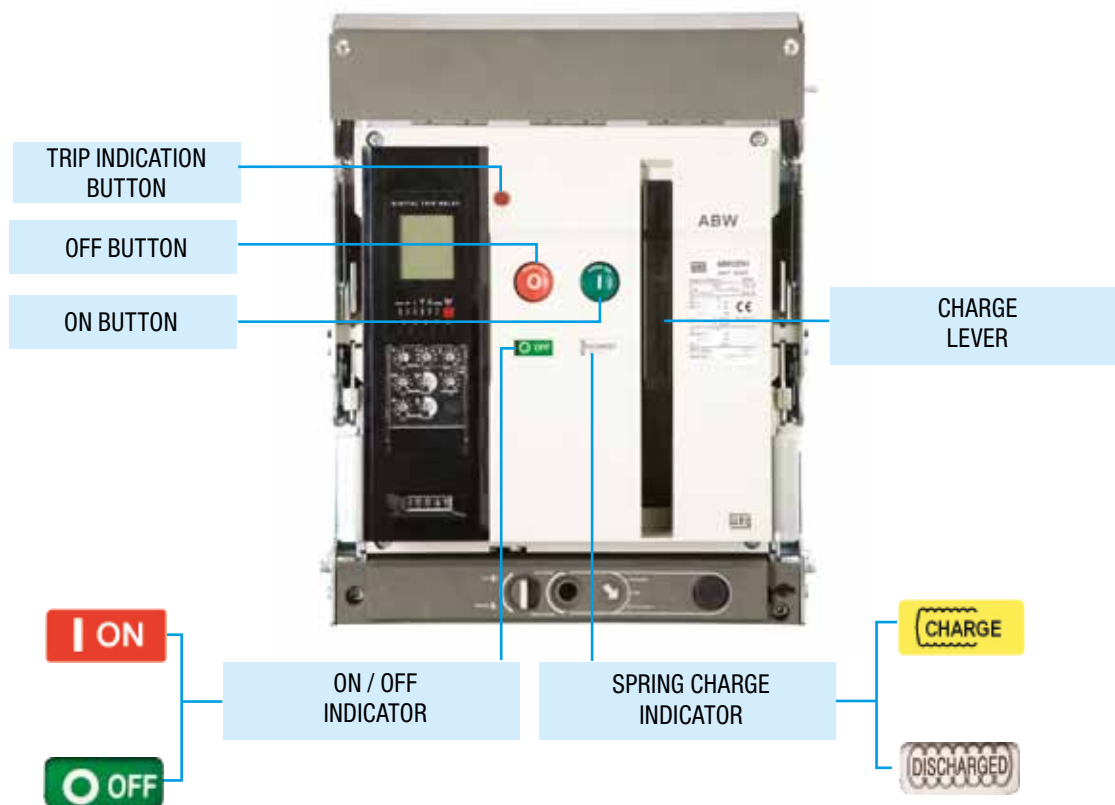
Operation System

ABW air circuit breakers operate through a spring system, which can be manually charged through a front lever, or electrically through a motor (supplied as an accessory).

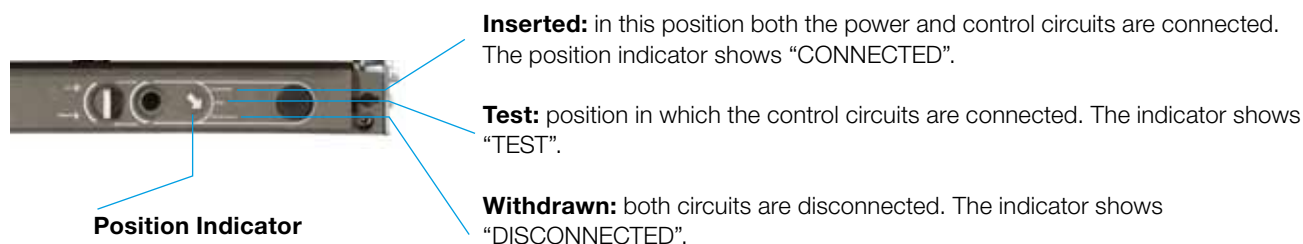
With the springs charged, situation in which the charge indicator shows “CHARGED”, the circuit breaker can be operated locally using the ON and OFF buttons.

Remote operation is also possible, through the Open and Close coils assembled inside the circuit breaker. The closing coil has an “antipumping” electronic circuit, which prevents successive switching on a single command.

Another feature of this product is the indicator on the front showing the status of the product: ON or OFF.



In relation to the installation version, the circuit breakers can be installed as fixed or as withdrawable. The withdrawable version is indicated for applications where eventual replacement or maintenance must be done in the shortest time possible. These circuit breakers can be positioned at three distinct points in the withdrawable rack:



Accessories

Auxiliary Contacts ¹⁾

Indicate circuit breaker status – ON or OFF.

Configuration		5NO + 5NC	
		Resistive load	Inductive load
Switch capacity (A)	125 VAC	10	6
	250 VAC	10	6
	460 VAC	5	6
	30 VDC	10	6
	125 VDC	0.6	0.6
	250 VDC	0.3	0.3

Alarm Contacts

These contacts are incorporated into the protection units and indicate trigger occurrence for any of the protection functions.

Configuration	2NO (generic) + 4NO (individual)	
Switch capacity (A)	250 VAC	5
	380 VAC	3
	30 VDC	5
	125 VDC	1
Minimum application levels		5VDC / 10mA

Closing Coil ¹⁾



These coils allow remote closing of the circuit breaker through electrical control. This remote control is valid only if the springs of the operating mechanism is charged.

Operation voltage		Reference	Consumption (VA or W)	
Range	0.75...1.1 x Un	-	Energization	Steady-state
	110~130 VAC/DC	ABW-BF E10	200	5
	200~250 VAC/DC	ABW-BF E12		
	380~480 VAC	ABW-BF C34		
	24~30 VDC	ABW-BF E55		
	48~60 VDC	ABW-BF E27		
Closing time (ms)			≤ 80	
“Anti-pumping” characteristic			Yes, through electronic circuit	
Minimum supply time for operation (ms)			200	

Opening Coil ¹⁾



These coils allow remote opening of the circuit breaker through electric control.

Operation voltage		Reference	Consumption (VA or W)	
Range	0.60...1.1 x Un	-	Energization	Steady-state
	110~130 VAC/DC	ABW-BA E10	200	5
	200~250 VAC/DC	ABW-BA E12		
	380~480 VAC	ABW-BA C34		
	24~30 VDC	ABW-BA E55		
	48~60 VDC	ABW-BA E27		
Trip time (ms)			≤ 40	

Note: 1) Accessories supplied as standard for the entire line.

Accessories

Motor Operator



The motorized drive is used for automatic charging of the circuit breaker springs operating mechanism. The operation begins immediately after circuit breaker opening and, at the end of this process, an auxiliary contact indicates that the springs are charged. Even if the motorized operation is installed, it is still possible to charge the springs manually through the front lever.

Reference	ABW-AM E10	ABW-AM E27	ABW-AM E12	ABW-AM C34	ABW-AM D33	ABW-AM D74
Supply Voltage	110~130VAC/DC	48~60VDC	200~250VAC/DC	24~30VDC	380VAC	440~480VAC
Load current (A)	1	3	0.5	5	0.3	0.3
Starting Current (A)	5 x Load Current					
Motor speed (rpm)	1500~1900					
Charge Time (to spring charging) (s)	≤ 5					

Charged Spring Auxiliary Contact

It has a built-in contacts which transmits the signal to the opening, when motor charging is completed. It includes 2NO contacts; one of these is used for communication and the other indicates the complete charging.

Undervoltage Release



Automatically disconnects the circuit breaker in cases of undervoltage or phase loss.

Pick-up voltage	0.65...0.85 x Un
Drop-out voltage	0.4...0.6 x Un
Trip time (instantaneous)	≤50ms

Operation voltage range	Consumption (VA or W)		Reference
	Energization	Steady-state	
110~130 VAC/DC	200	5	ABW-UVT E10
200~250 VAC/DC			ABW-UVT E12
380~480 VAC			ABW-UVT E55
24~30 VDC			ABW-UVT C34
48~60 VDC			ABW-UVT E27

Undervoltage Time Delay Module



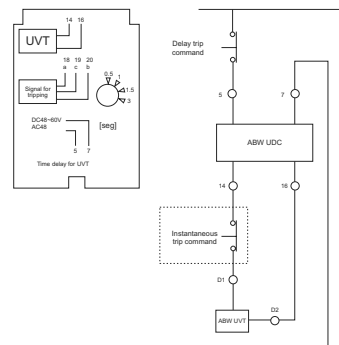
Delays the opening of the circuit after the command from the undervoltage release.

Pick-up voltage	0.65...0.85 x Un
Drop-out voltage	0.4...0.6 x Un

Operation voltage range	Consumption (VA or W)		Trip time (s)	Reference
	Energization	Steady-state		
110~130 VAC/DC	200	5	0.5 - 1 - 1.5 - 3	ABW-UDC E10
200~250 VAC/DC				ABW-UDC E12
380~480 VAC				ABW-UDC E55
48~60 VDC				ABW-UDC E27

Accessories

Electrical Wiring for undervoltage time delay module



Current transformer for earth leakage protection



The current transformer ABW-ZCT must be connected on ABW (protection unit AF) to measure and protect the circuit against earth leakage.



Circuit breakers	Diameter	Reference
ABW16...63	120 mm	ABW-ZCT-120
ABW16...63	200 mm	ABW-ZCT-200

Position Auxiliary Contacts



Enables remote indication of circuit breaker position inside withdrawable rack.

Circuit Breakers	Reference
ABW 16...63 (withdrawable)	ABW-PS4

Configuration		2NO for INSERTED position 1NO for TEST position 1NO for WITHDRAWN position		
ABW Status		Disconnected		Connected
ABW position		Disconnected	Test	Connected
Contact Operation	CL - C (connected)	OFF	OFF	ON
	CL - T (Test)	OFF	ON	OFF
	CL - D (Disconnected)	ON	OFF	OFF
Switching Capacity (A)	Voltage	Resistive load	Inductive load	
	125 VAC	10	10	
	250 VAC	10	10	
	460 VAC	5	2.5	
	30 VDC	10	10	
	125 VDC	10	10	
	250 VDC	3	1.5	

Accessories

Key Lock

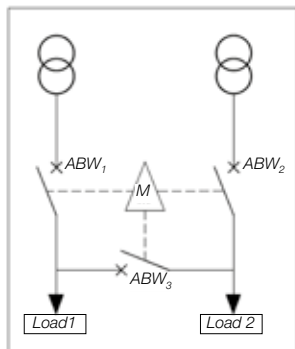
Locks the circuit breaker in the OFF position.

Circuit Breakers	Reference
ABW 16...63	ABW-BK1

Key Interlock

Allows mutual interlock of three circuit breakers by using the key lock fitted to each circuit breaker.

Circuit Breakers	Reference
ABW 16...63	ABW-IK2



■	Release
■	Lock

ABW (1)	ABW (2)	ABW (3)	Status	
			Load1	Load2
■	■	■	OFF	OFF
■	■	■	OFF	ON
■	■	■	ON	OFF
■	■	■	ON	ON
■	■	■	OFF	OFF
■	■	■	OFF	ON
■	■	■	ON	OFF

Terminals

The contacts can be rotated allowing the assembly in a vertical or horizontal position for ABW16...32. The vertical terminals are supplied on request in sets of three units for ABW40...63.

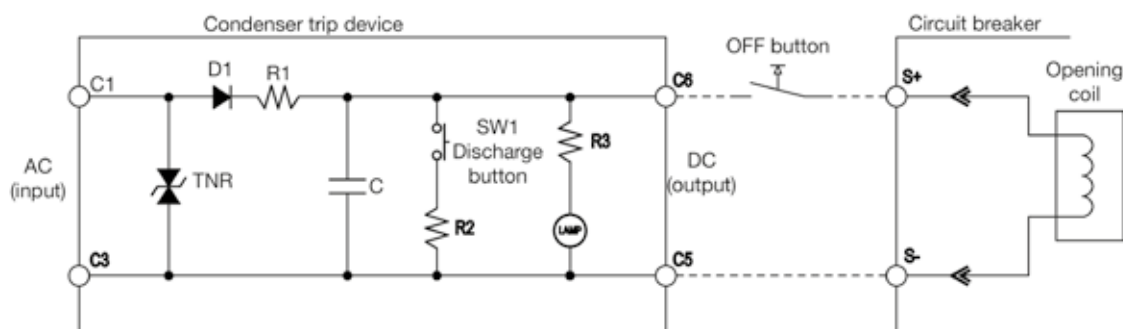
Condenser Trip Device



Electrically trips the circuit breaker within a preset time when control power supply is OFF. It discharges a capacitor by operating directly in the opening coil. Includes a lamp to indicate if the capacitor is charged and a discharge button. Installation on panel door.

Characteristics	Specification	
Reference	ABW-CTD D58	ABW-CTD D68
Supply voltage (VAC)	100...110	200...220
Operation voltage range	0.85...1.1 x Un	
Rated frequency (Hz)	50/60	
Charging time (s)	≤ 5	
Possible trip time (m)	3	2

Electrical Wiring



Accessories

Door Frame

A door frame can be fitted to cover the cut out in the panel and provide IP protection.



	Circuit breakers	Version	Reference
	ABW16...63	Fixed	ABW-DFF
	ABW16...63	Withdrawable	ABW-DFE
Protection degree	IP 3x		

Transparent Cover

Transparent covers provide IP protection even if the breaker is in the isolated position



	Circuit breakers	Reference
	ABW16...63	ABW-DC
Protection degree	IP 5x	

Mechanical Interlock

Enables two circuit breakers to be mechanically interlocked simultaneously through a flexible cable system.



	Circuit Breakers	Quantity	Reference
	ABW16, 40 and 50	2	ABW-IM1
	ABW20, 25, 32, and 63	2	ABW-IM2
	ABW16, 40 and 50	3	ABW-IM3
	ABW20, 25, 32 and 63	3	ABW-IM4
Cable length (m)	1.6		

Door Interlock

Prevents panel door from being opened while the circuit breaker is in operation.



	Circuit Breakers	Reference
	ABW16...63	ABW-DI
Cable length (m)	1.6	

Communication Module

The communication module has an I/O unit that allows remote circuit breaker's operation. The ABWs, with protection units AC or PC, are able to communicate via network, allowing the user to verify the status of the circuit breaker through ModBus (standard) or ProfiBus-DP (ABW-CP is required). However, to control the circuit breaker, it requires a communication module ABW-CM for ModBus communication or ABW-CP for ProfiBus-DP communication. It can be installed either on the withdrawable rack or on DIN rail.



Circuit Breakers	Communication	Reference
ABW 16...63	ProfiBus	ABW-CP
ABW 16...63	Modbus	ABW-CM

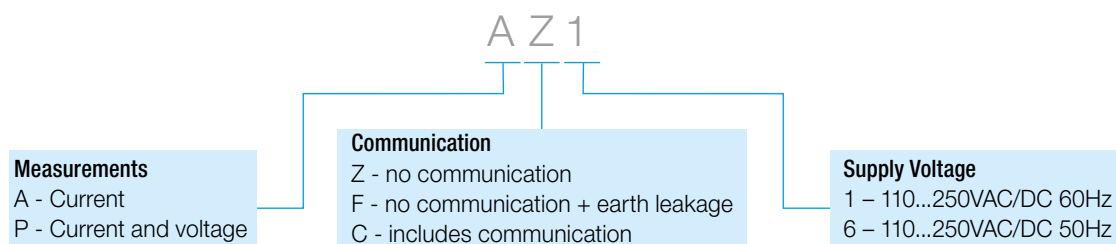
Accessories

Protection unit

On ABW air circuit breakers, protection against over currents is performed through the ABW-OCR electronic protection units.

The ABW-OCR AZ1 is supplied as standard for the circuit breakers from ABW16 up to ABW63 and offers protection against overload (L), timed short circuit (S), instantaneous short circuit (I), ground fault (G) and earth leakage (needs an external CT supplied as optional). These protections may be adjusted through the front dials.

Other protection units are supplied as optional accessories, allowing network communication, measurements and other protections.



		AZ	AF	AC	PC
Circuit breakers		ABW16...63	ABW16...63	ABW16...63	ABW16...63
Supply voltage*		110...250VAC/DC	110...250VAC/DC	110...250VAC/DC	110...250VAC/DC
Consumption		5VA	5VA	5VA	5VA
Rated frequency	1	60Hz	60Hz	60Hz	60Hz
	6	50Hz	50Hz	50Hz	50Hz
Protection functions	L - Long-time delay (overload)	■	■	■	■
	S - Short-time delay short-circuit	■	■	■	■
	I - Instantaneous short-circuit	■	■	■	■
	G - Ground fault	■	■	■	■
	Earth leakage (external CT is needed - under request)	-	■	-	-
	ZSI (protective coordination)	■	■	■	■
	Over and under current	-	-	-	■
	Frequency out of range	-	-	-	■
	Unbalance (voltage/current)	-	-	-	■
	Pre trip alarm	-	-	-	■
	Discrimination / Trip type indication	■ (LEDs / aux. cont.)	■ (LEDs / aux. cont.)	■ (LEDs / aux. cont.)	■ (LEDs / aux. cont.)
Measurements	Current (R / S / N / T)	■	■	■	■
	3-phase Voltage/Current/RMS/Vector	-	-	-	■
	Power (P, Q, S), FP (3-phase)	-	-	-	■
	Frequency	-	-	-	■
Fault recording	Recording possibility	■	■	■	■
	Number of records	10	10	10	256
	Events sequence	■	■	■	■
	Broken current value	■	■	■	■
	Breaking total time	■	■	■	■
	Event recording	-	-	-	256
Digital outputs		3 fixed	3 fixed	3 fixed	3 programmable
Parameterization	Front adjustment knobs	■	■	■	■
	Display + navigation keys	■	■	■	■
	Parameterization password	■	■	■	■
Network communication	Serial connection	-	-	RS485	RS485
	ModBus Protocol (Status y measurements)	-	-	■	■
	ModBus Protocol (Status, measurements and operation)	-	-	ABW-CM required	ABW-CM required
	ProfiBus Protocol (Status, measurements and operation)	-	-	ABW-CP required	ABW-CP required
	Baud rate	-	-	9600bps, 19200bps, 38400bps	9600bps, 19200bps, 38400bps

* Protection unit is self-powered when breaker's current $I > 20\% I_n$. For communication, external power is required.

Trip units

Type A

Technical Features

The characteristics of the ABW-OCR116 protection unit meet all requirements for most systems and applications. It is supplied standard for ABW16...63 circuit breakers.

- LSIG protections
- 3 fixed digital outputs to indicate the alarms of each protection
- Sequence of events, for the last 10 faults
- Protective coordination by ZSI (Zone Selective Interlocking)

Display

The digital display indicates the values of instantaneous current in each phase. It is also possible to check other information, available in the system menus.

Indication LEDs

LED	Function
Alarm	Overload alarm - switches on in 90% I_r and flashes in 105% I_r
SP	Indicates self-protection and battery test
I_r	Indicates overload tripping (L)
I_{sd}/I_i	Indicates timed (S) or instantaneous (I) short circuit tripping
I_g	Indicates ground fault (G)
Comm	Indicates communication status trip (optional)

Navigation Keys

Used for navigating through the available menus.

Key	Function
	Menu
	Move the cursor or setting right/left on screen
	Move the cursor up on screen or increase a setting value
	Move the cursor down on screen or decrease a setting value
	Enter
	Fault reset / ESC from menu



Setting of the Protection Functions

Trip unit type	Parameter	Function / Setting range
AZ AC	I_u	Rated current setting (0.5-0.6-0.7-0.8-0.9-1.0) x I_n
	I_r	Overload current setting (function L) (0.8-0.83-0.85-0.88-0.89-0.9-0.93-0.95-0.95-1.0) x I_u
	t_r	Overload tripping delay setting (0.5-1-2-4-8-12-16-20-OFF) s @ 6x I_r
	I_{sd}	Short-time short-circuit current setting (function S) (1.5-2-3-4-5-6-7-8-9-10-OFF) x I_r
	t_{sd}	Short-time tripping delay setting I_{sd} I^2t OFF (0.05-0.1-0.2-0.3-0.4) s / I^2t ON (0.1-0.2-0.3-0.4) s
	I_i	Instantaneous short-circuit current setting (function I) (2-3-4-6-8-10-12-15-OFF) x I_n
	I_g	Ground fault current setting (function G) (0.2-0.3-0.4-0.5-0.6-0.7-0.8-1-OFF) x I_n
	t_g	Ground fault time delay I^2t OFF (0.05-0.1-0.2-0.3-0.4) s / I^2t ON (0.1-0.2-0.3-0.4) s
AF	I_g	Earth leakage current setting (0.5-1-2-3-5-10-20-30-OFF) (A)
	t_g	Earth leakage time delay (140-230-350-800-950) ms

Trip units

Type P

Technical Features

This unit was developed to meet the needs for electrical applications and systems that require high technical aspects. Supplied as accessory for the entire line.

- LSIG protection
- Protection against under and overcurrent, under and overvoltage, current unbalance and frequency out of range.
- Records up to 256 fault information
- Records up to 256 events related to setting change, operation and state change (user choice)
- Protective coordination by ZSI (Zone Selective Interlocking)
- Measurement of current, phase angle, voltage, power, frequency, power factor, and others

Display

The digital display indicates the values of instantaneous current in each phase. It is also possible to check other information, available in the system menus.

Indication LEDs

LED	Function
Alarm	Overload alarm
SP	Indicates self-protection and battery test
Ir	Indicates overload tripping (L)
Isd/li	Indicates timed (S) or instantaneous (I) short circuit tripping
Ig	Indicates ground fault (G)
Comm	Indicates communication status trip (optional)

Navigation Keys

Used for navigating through the available menus.

Key	Function
	Menu
	Move the cursor or setting right/left on screen
	Move the cursor up on screen or increase a setting value
	Move the cursor down on screen or decrease a setting value
	Enter
	Fault reset / ESC from menu

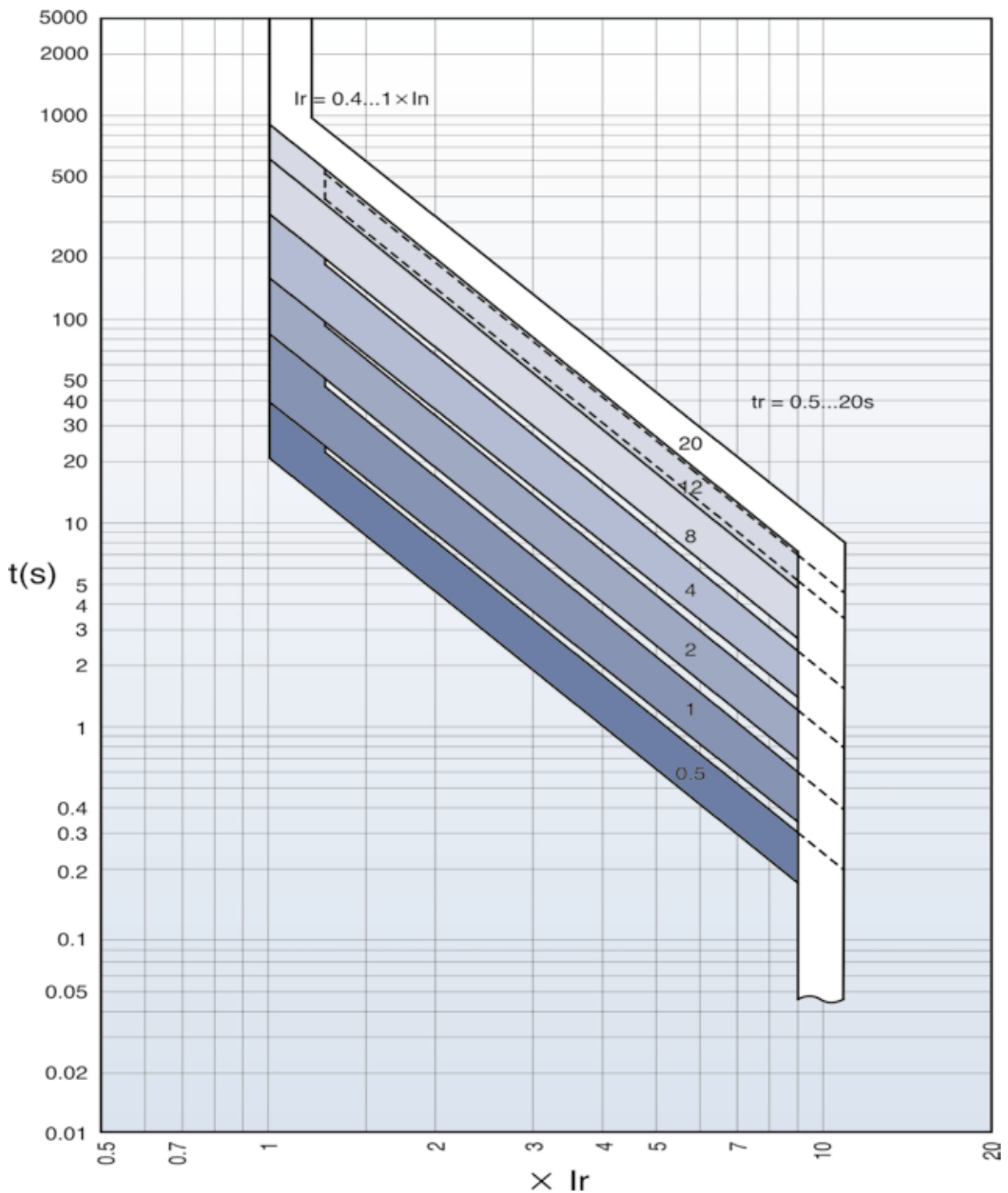


Setting of the Protection Functions

Parameter	Function / Setting range
Ir	Overload current setting (function L) (0.4-0.5-0.6-0.7-0.8-0.9-1.0) x In
tr	Overload tripping delay setting Ir (0.5-1-2-4-8-12-16-20-OFF) s @ 6xIr
Isd	Short-time short-circuit current setting (function S) (1.5-2-3-4-5-6-7-8-9-10-OFF) x Ir
tsd	Short-time tripping delay setting Isd I ² t OFF (0.05-0.1-0.2-0.3-0.4) s / I ² t ON (0.1-0.2-0.3-0.4) s
li	Instantaneous short-circuit current setting (function I) (2-3-4-6-8-10-12-15-OFF) x In
Ig	Ground fault current setting (function G) (0.2-0.3-0.4-0.5-0.6-0.7-0.8-1-OFF) x In
tg	Ground fault time delay I ² t OFF (0.05-0.1-0.2-0.3-0.4) s / I ² t ON (0.1-0.2-0.3-0.4) s

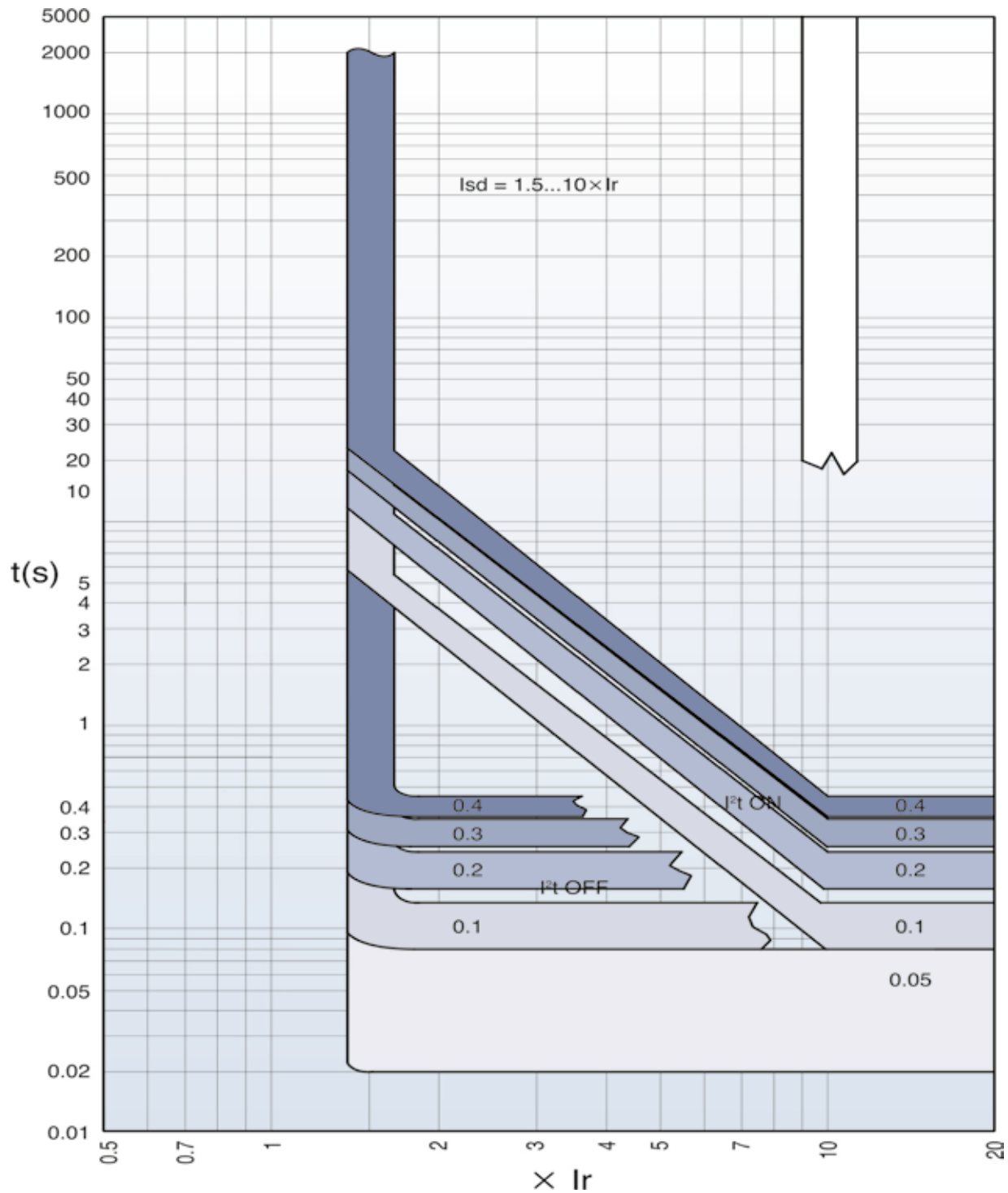
Characteristic curves

Protection function L - Overload adjustment - I_r and t_r



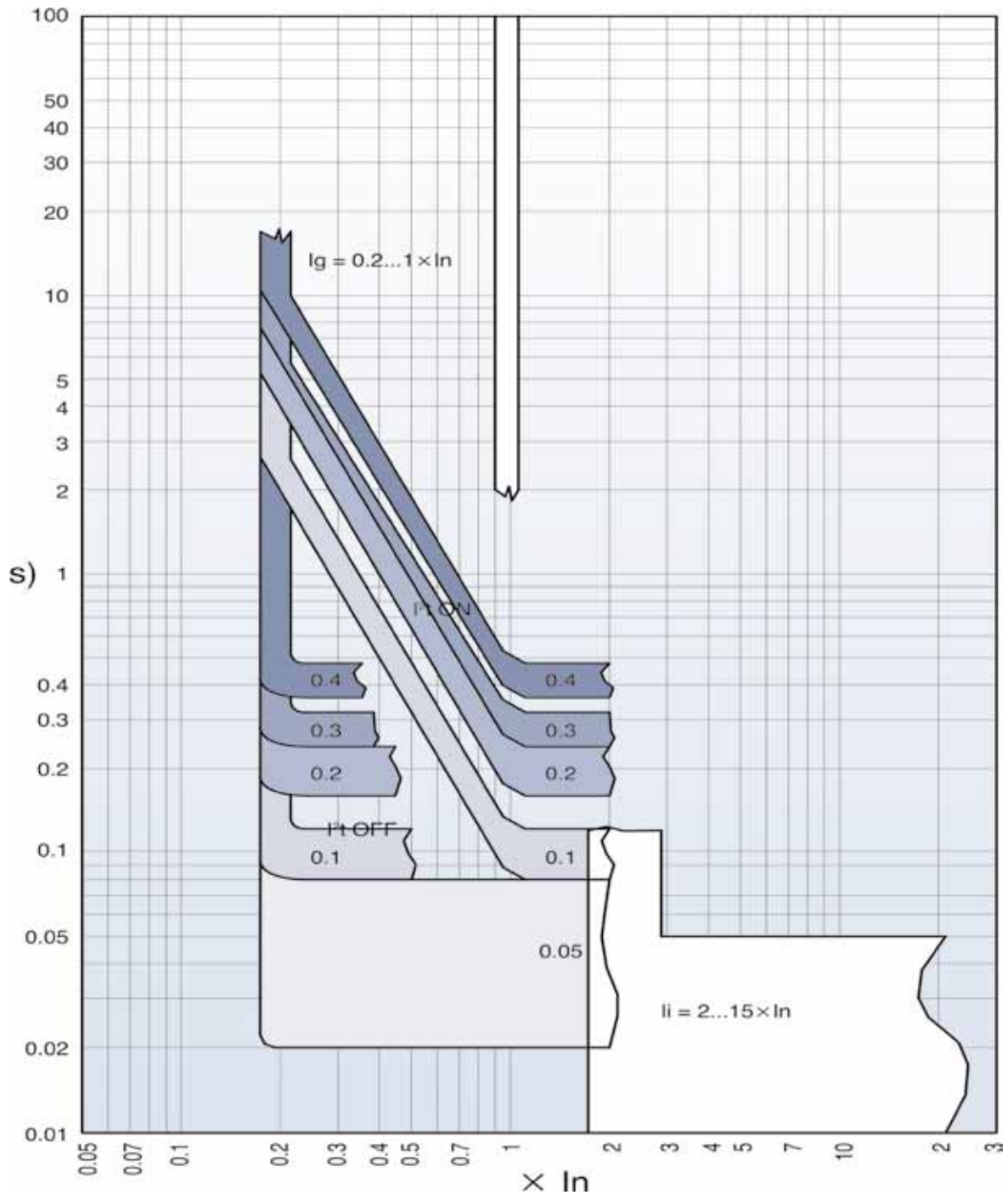
Characteristic curves

Protection function S - Timed short circuit adjustment - I_{sd} and t_{sd}



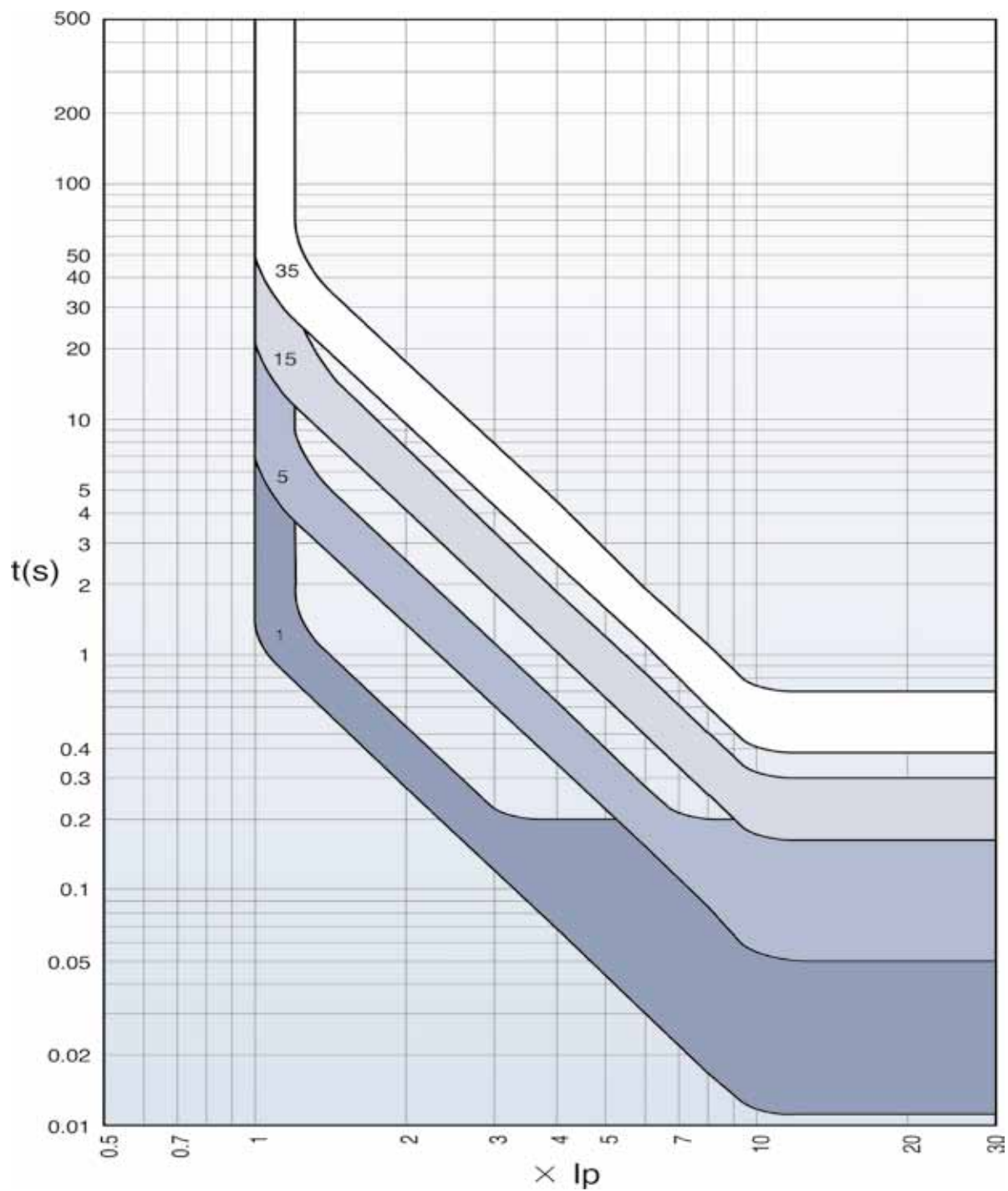
Characteristic curves

Protection function I - Short circuit instantaneous adjustment- li
Protection function G - Ground fault adjustment - Ig and tg



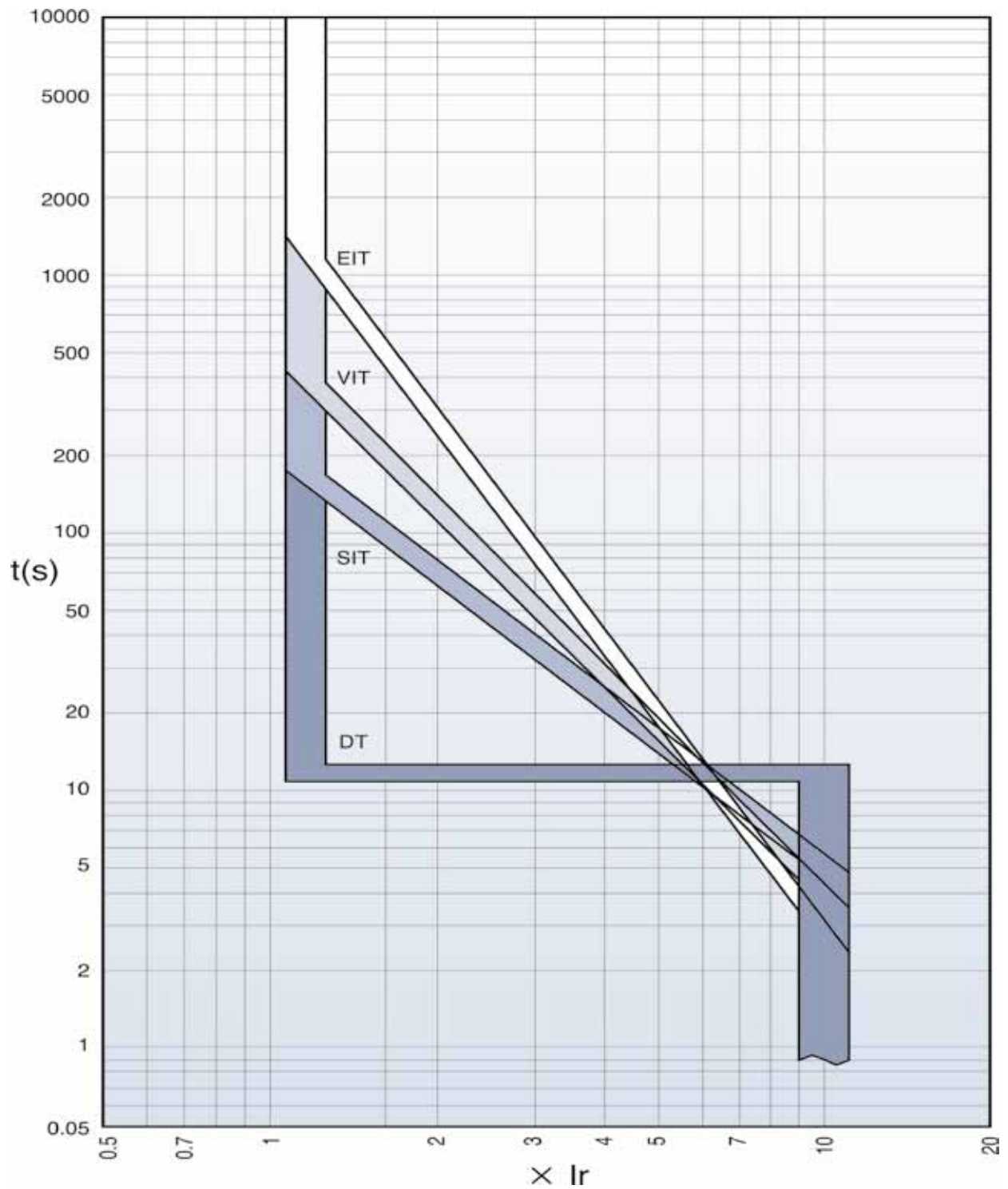
Characteristic curves

Pre Alarm indication curve (available only on type P protection unit)



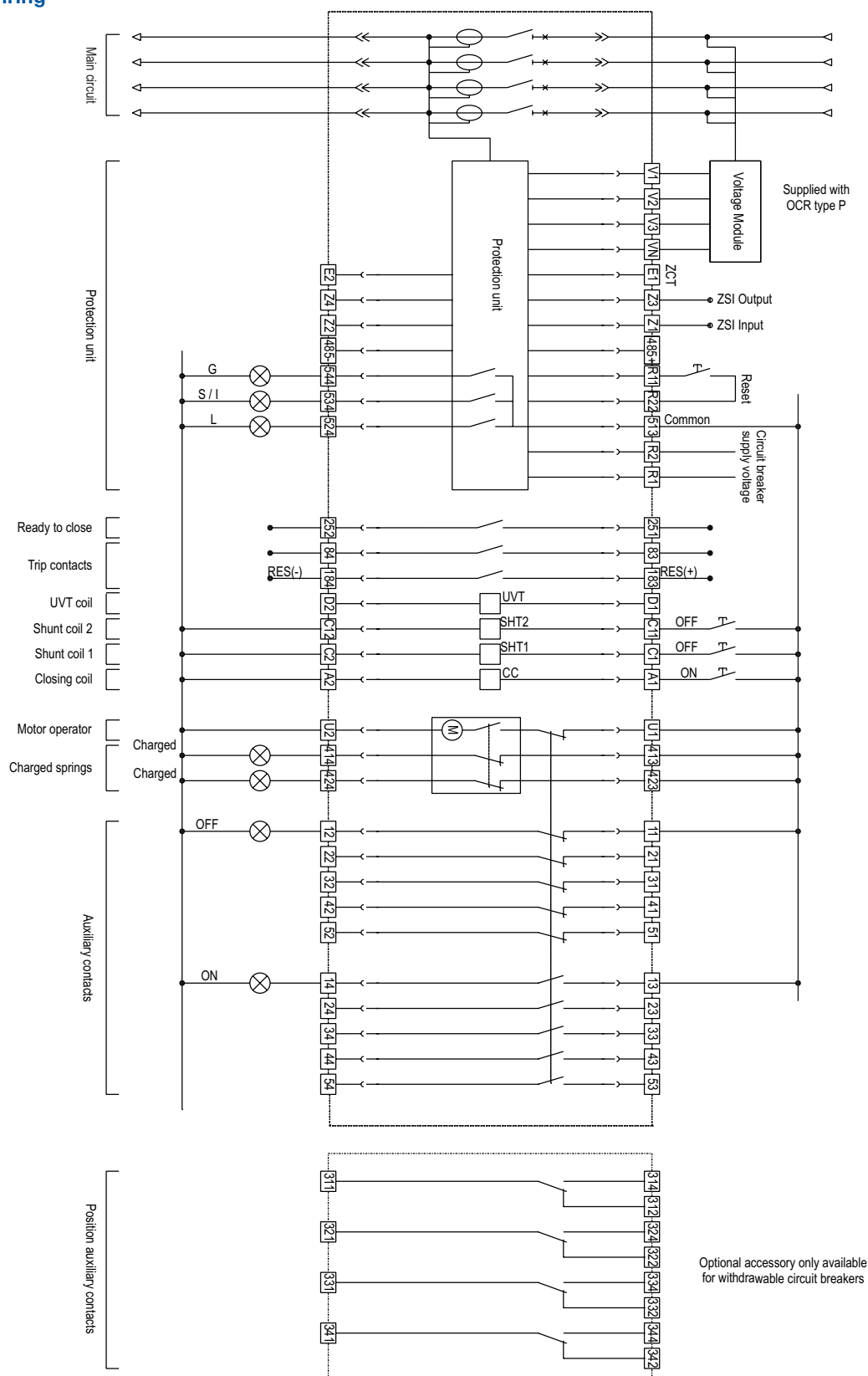
Characteristic curves

Current x Time characteristic curve adjustment - IDTML (available only on type P protection unit)



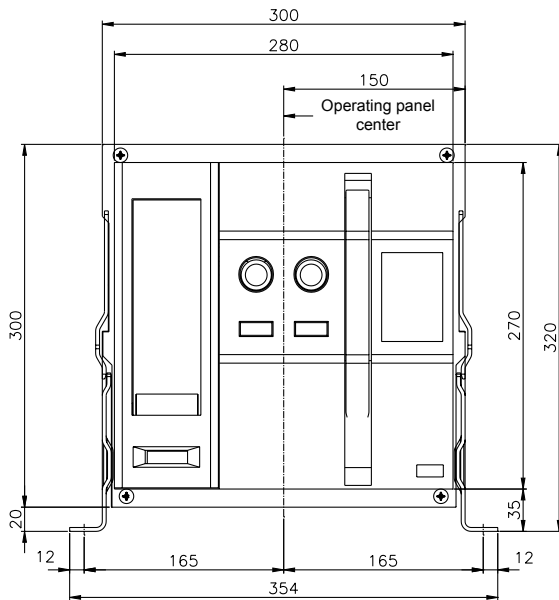
ABW – OCRAZ1

Electrical Wiring

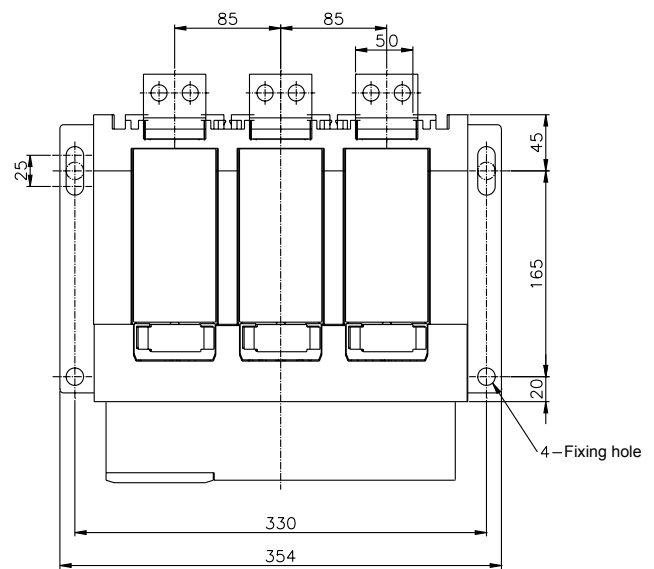


ABW16 – 3P Fixed Version

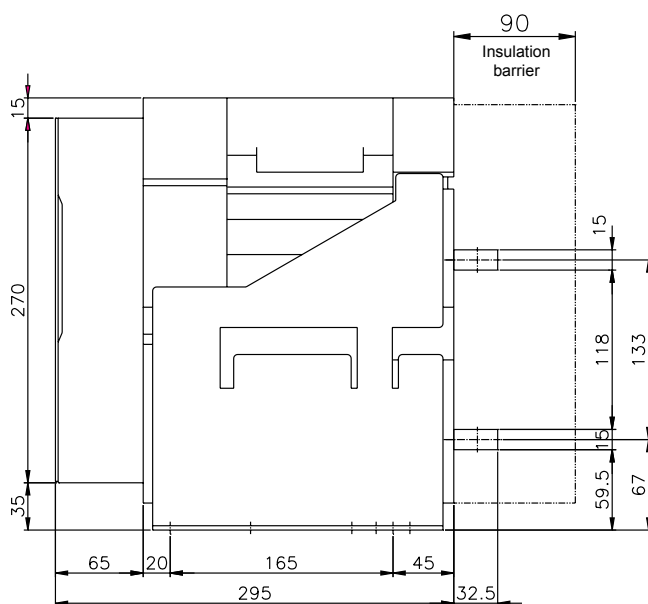
ABW16
Front view



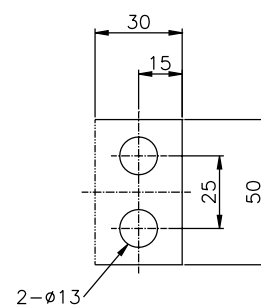
ABW16
Top view



ABW16
Side view



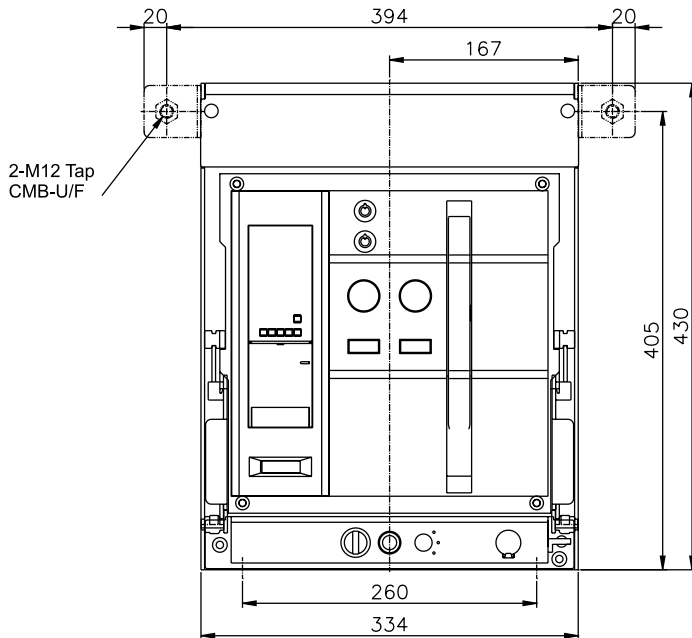
ABW16
Horizontal terminals



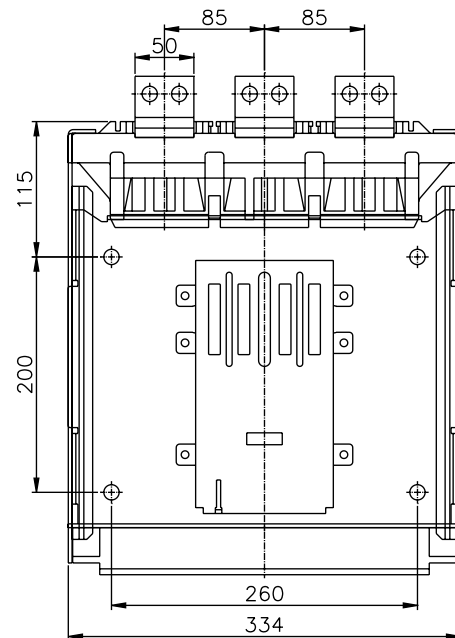
Dimensions (mm)

ABW16 – 3P Withdrawable Version

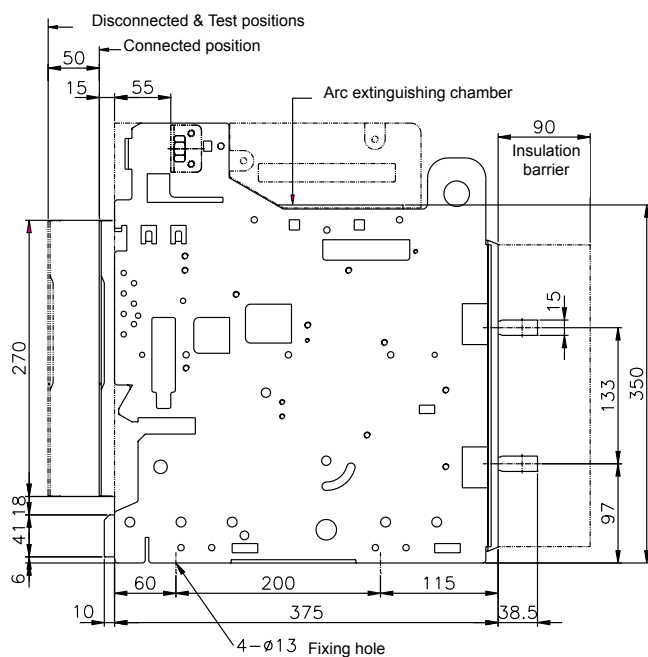
ABW16
Front view



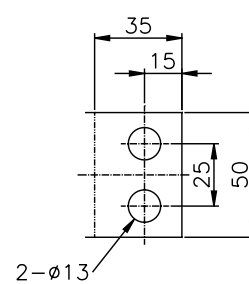
ABW16
Bottom view



ABW16
Side view



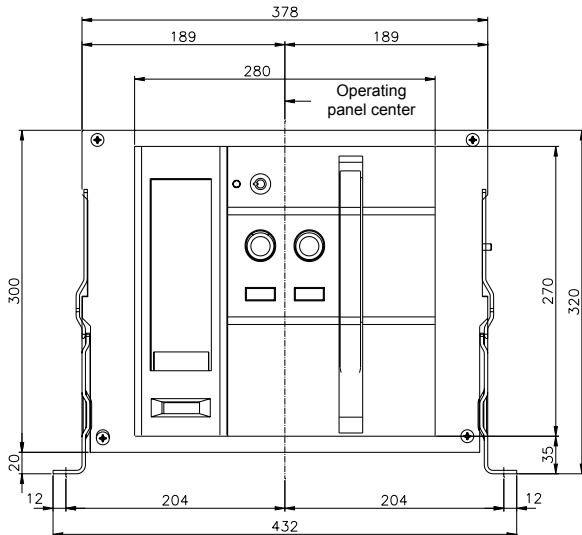
ABW16
Horizontal terminals



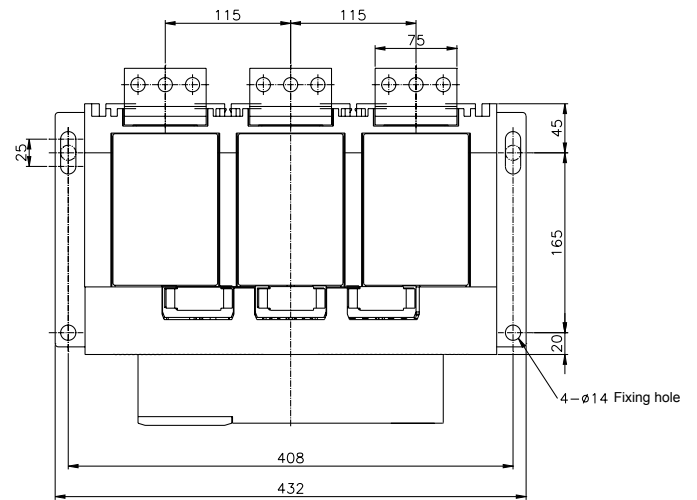
Dimensions (mm)

ABW20...32 – 3P Fixed Version

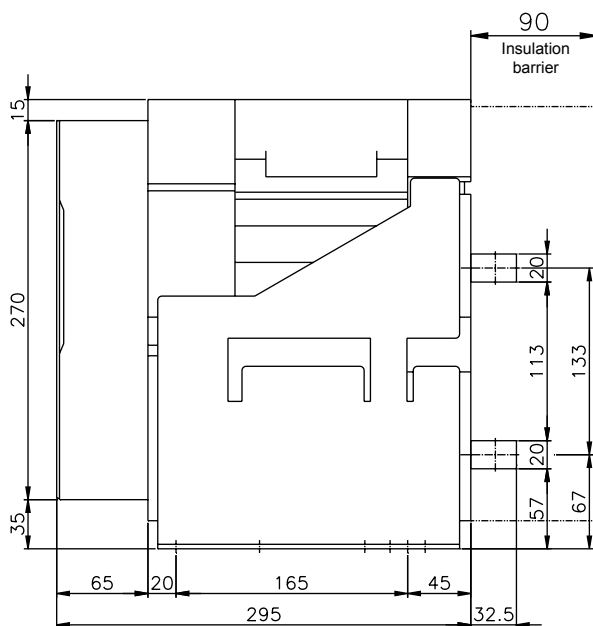
ABW20...32
Front view



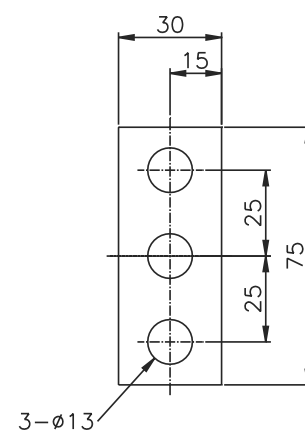
ABW20...32
Top view



ABW20...32
Side view



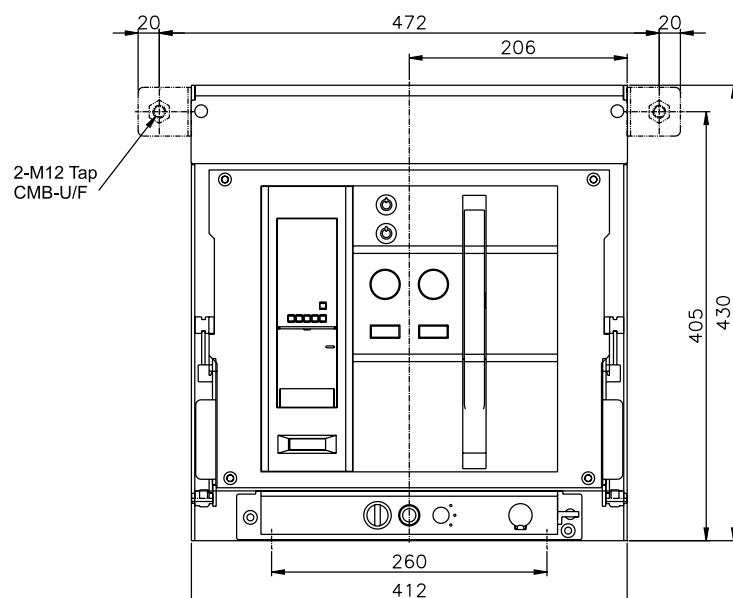
ABW20...32
Horizontal terminals



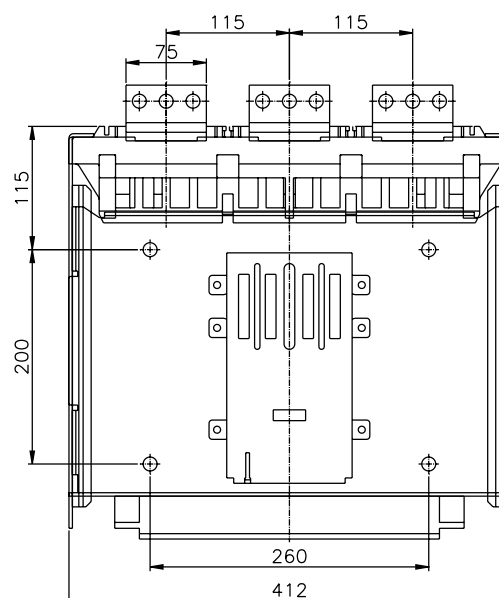
Dimensions (mm)

ABW20...32 – 3P Withdrawable Version

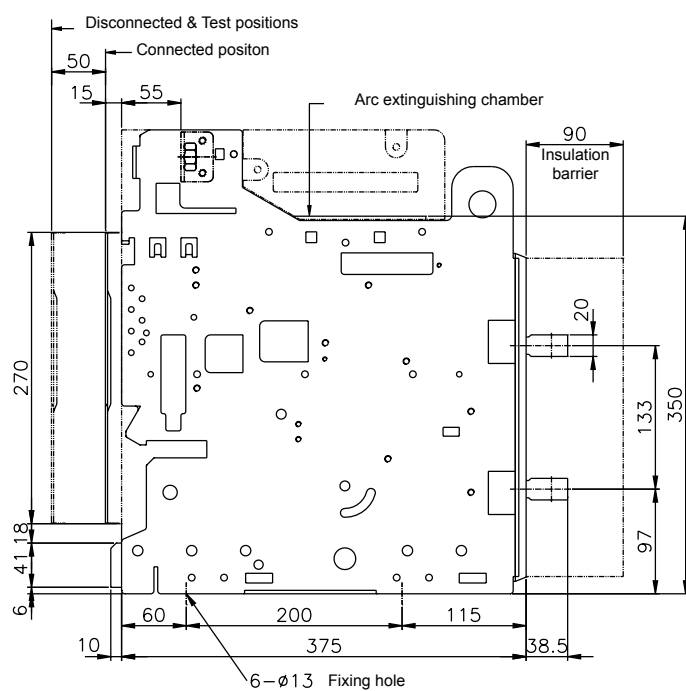
ABW20...32
Front view



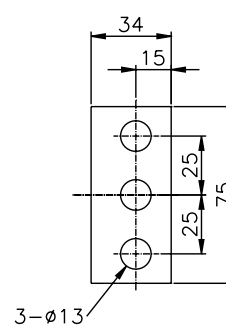
ABW20...32
Bottom view



ABW20...32
Side view



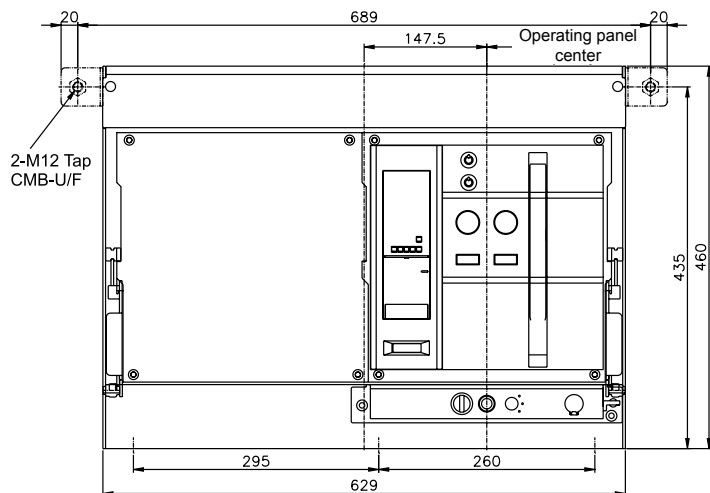
ABW20...32
Horizontal terminals



Dimensions (mm)

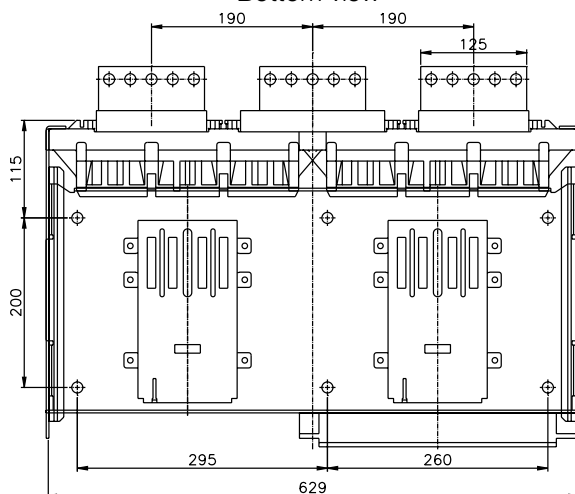
ABW40...50

Front view



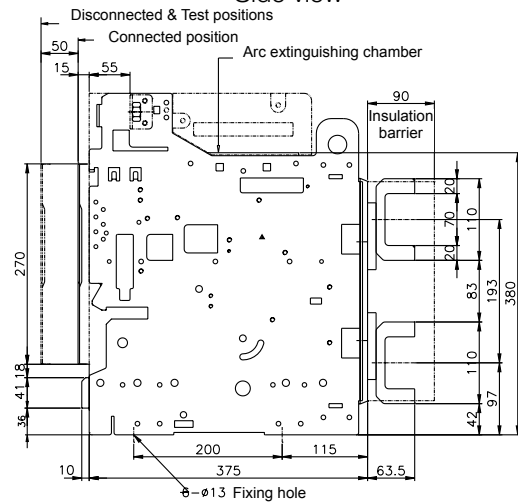
ABW40...50

Bottom view

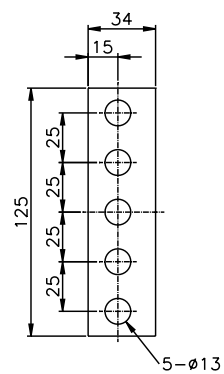


ABW40...50

Side view

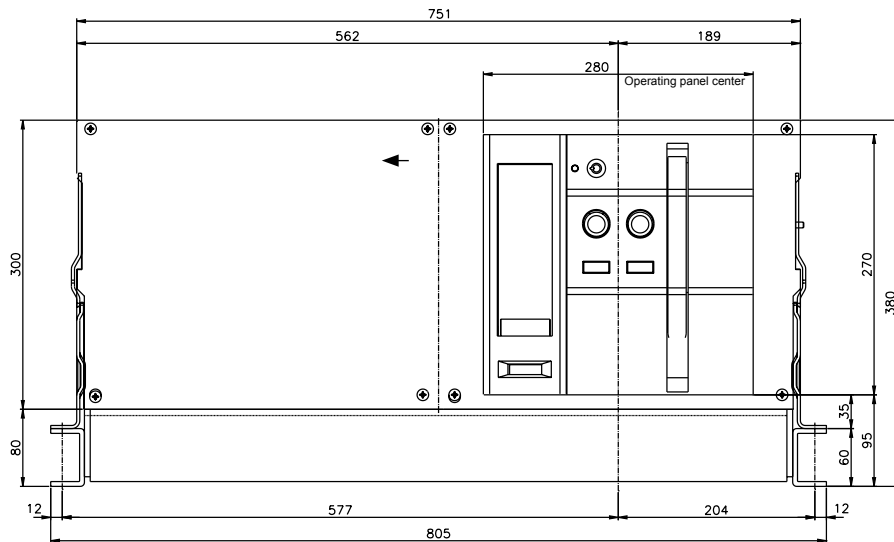


ABW40...50
Horizontal terminals

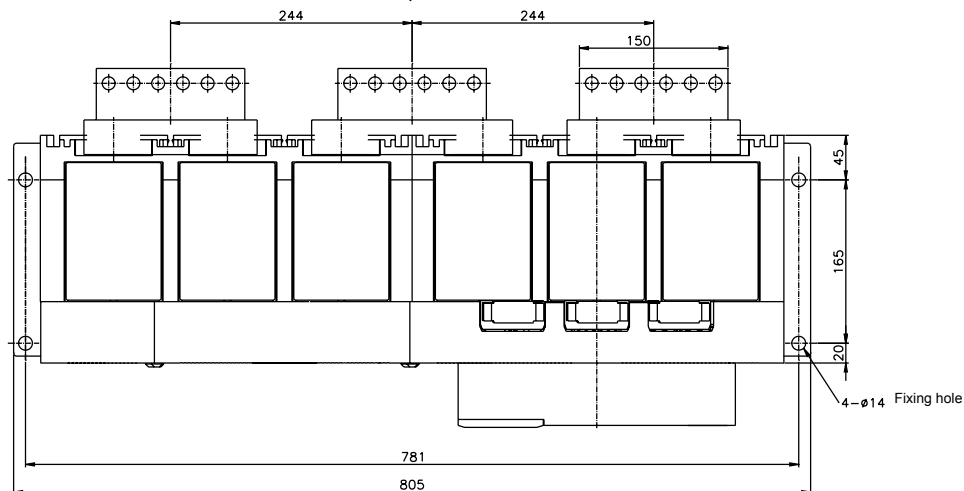


ABW63 – 3P Fixed Version

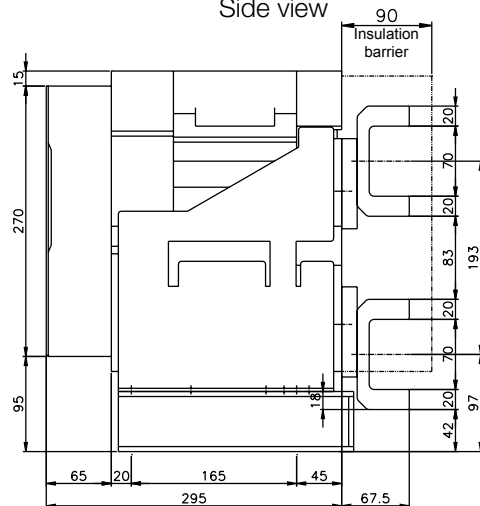
ABW63
Front view



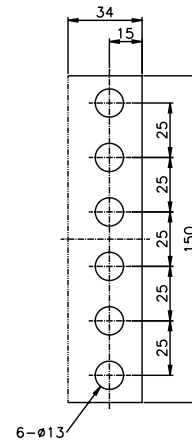
ABW63
Top view



ABW63
Side view



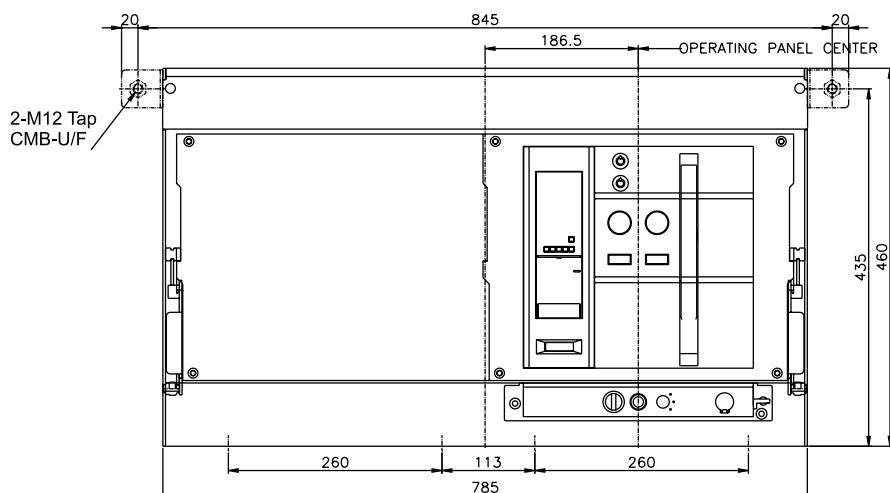
ABW63
Horizontal terminals



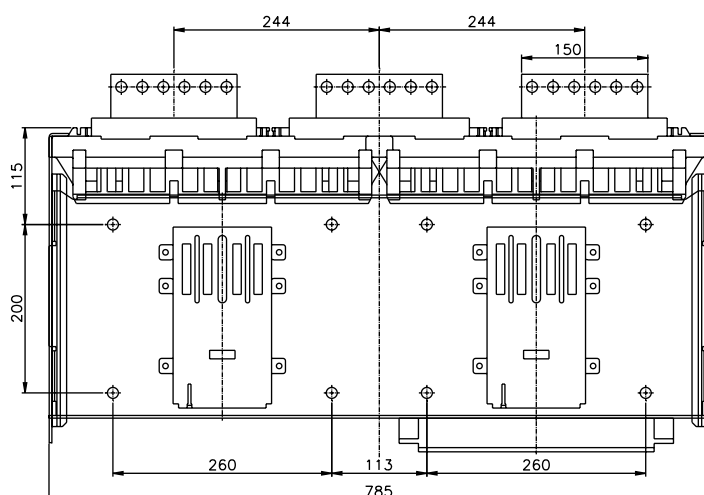
Dimensions (mm)

ABW63 – 3P Withdrawable Version

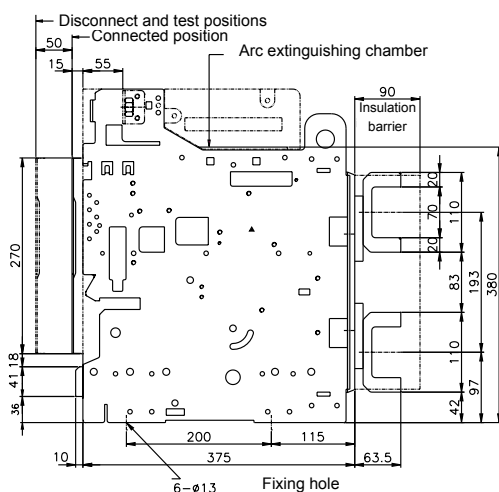
ABW63
Front view



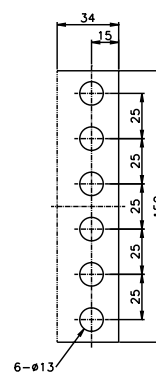
ABW63
Bottom view



ABW63
Side view



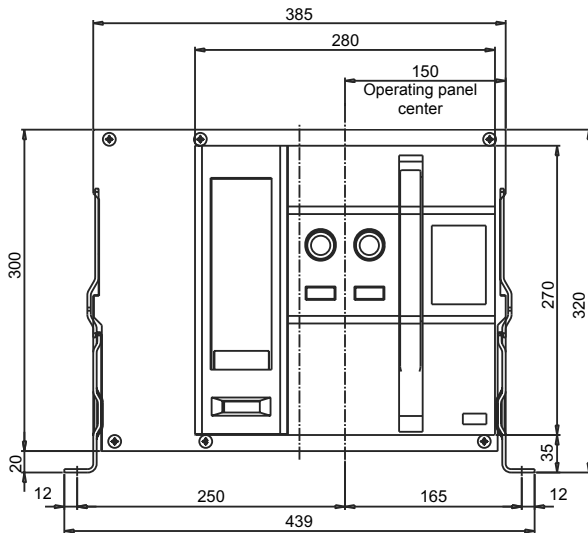
ABW63
Horizontal terminals



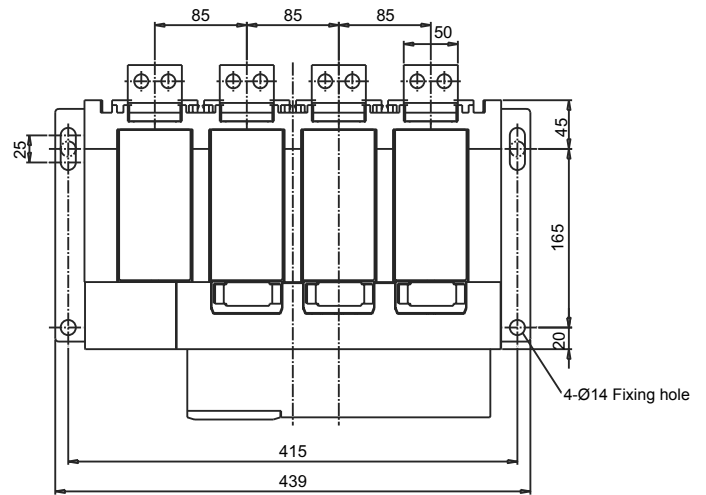
Dimensions (mm)

ABW16 - 4P Fixed Version

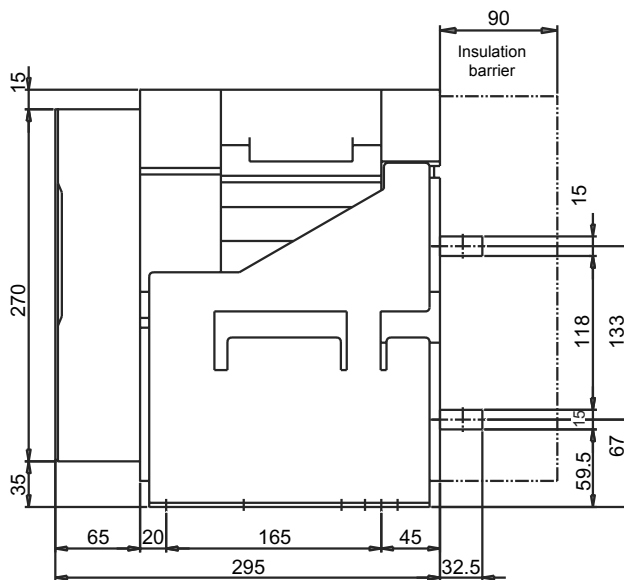
ABW16
Front view



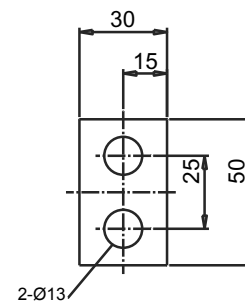
ABW16
Top view



ABW16
Side view



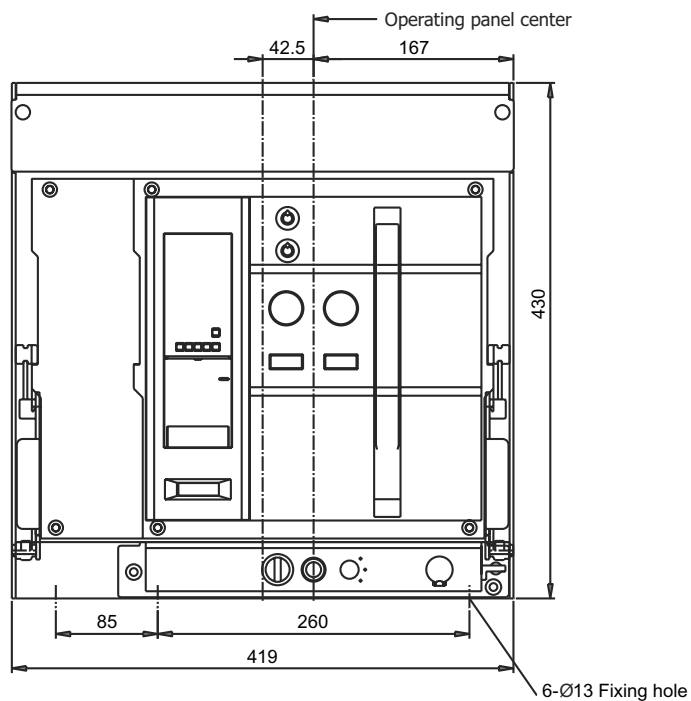
ABW16
Horizontal terminals



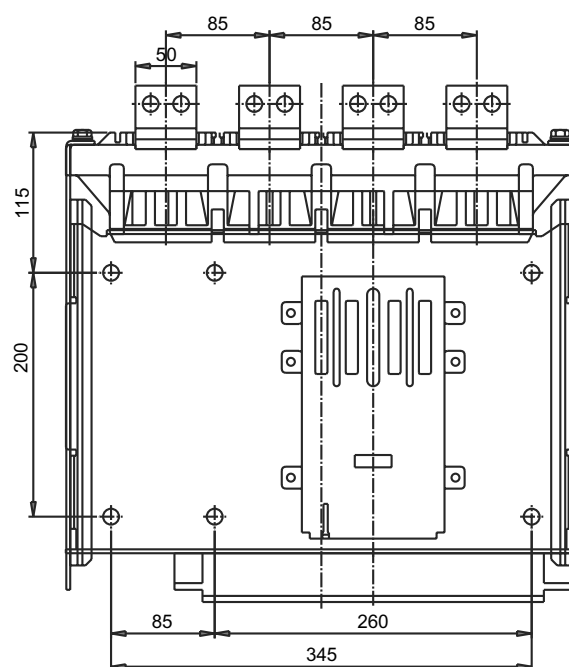
Dimensions (mm)

ABW16 - 4P Withdrawable Version

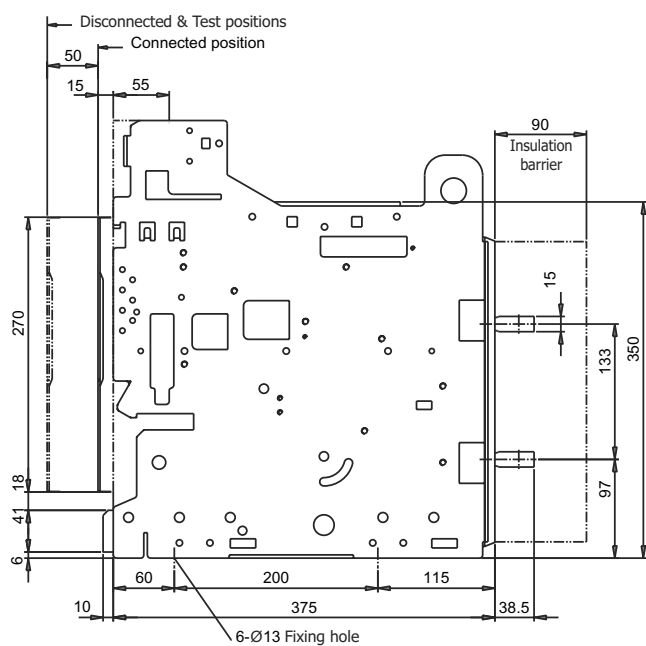
ABW16
Front view



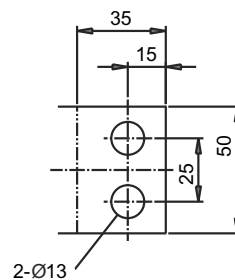
ABW16
Bottom view



ABW16
Side view



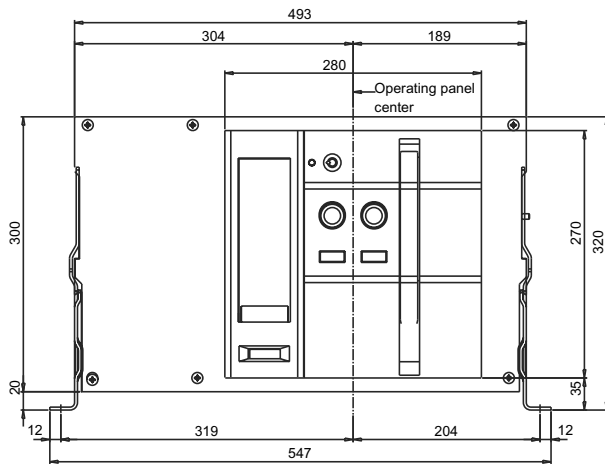
ABW16
Horizontal terminals



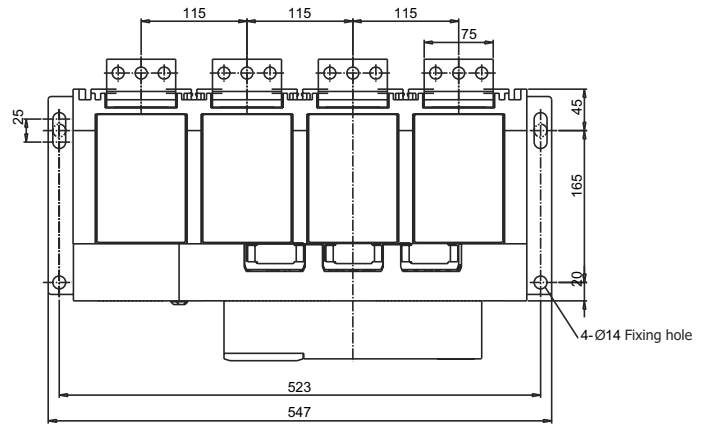
Dimensions (mm)

ABW20...32 - 4P Fixed Version

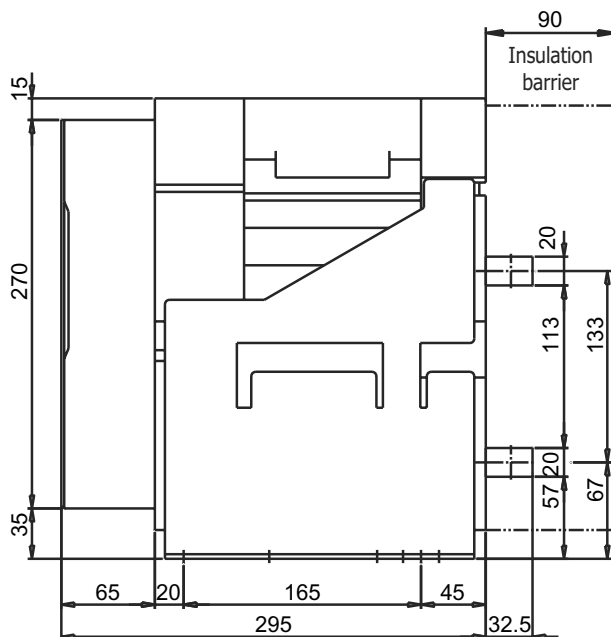
ABW20...32
Front view



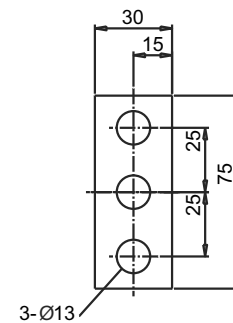
ABW20...32
Top view



ABW20...32
Side view



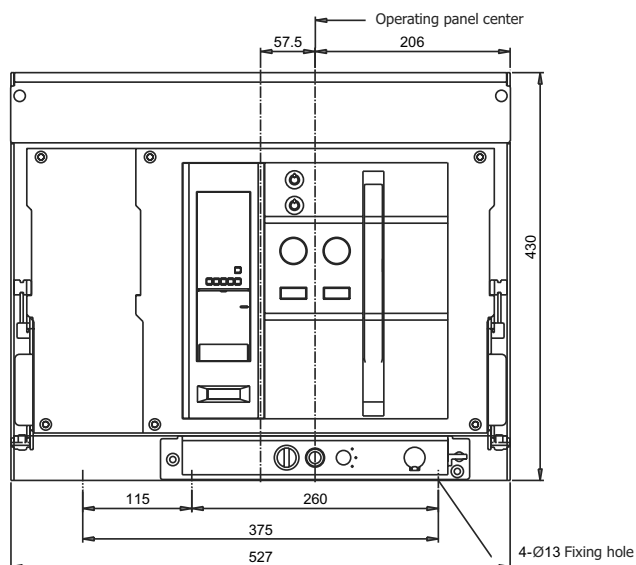
ABW20...32
Horizontal terminals



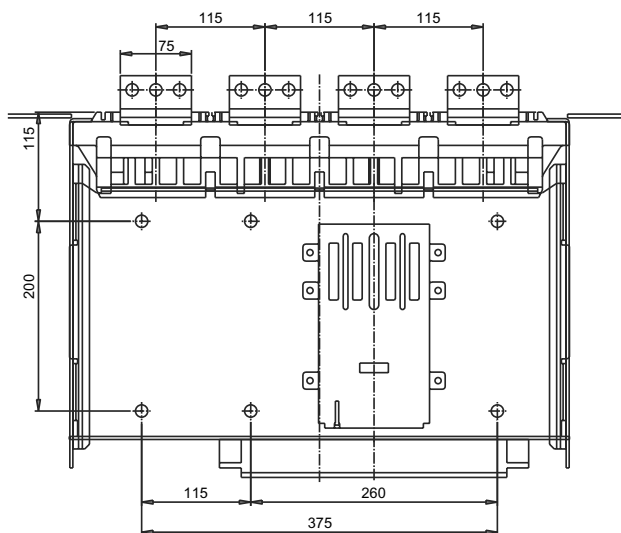
Dimensions (mm)

ABW20...32 - 4P Withdrawable Version

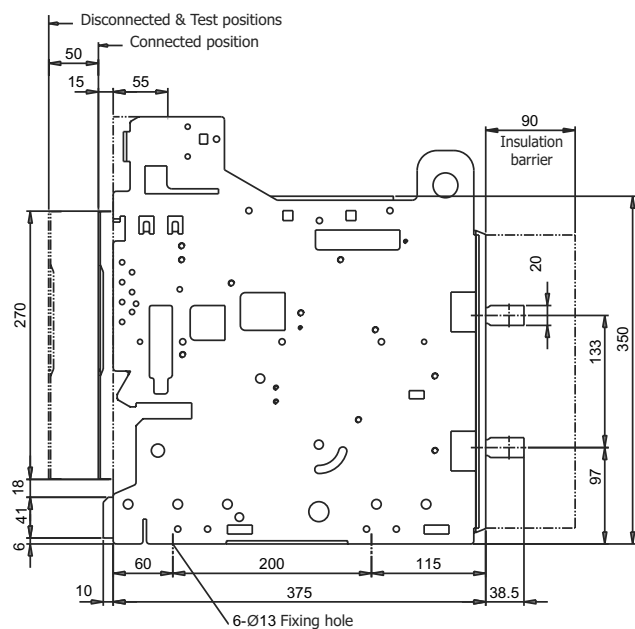
ABW20...32
Front view



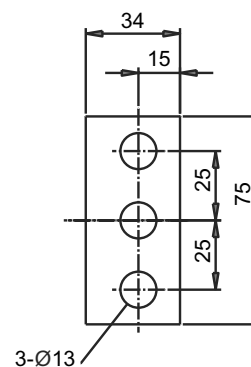
ABW20...32
Bottom view



ABW20...32
Side view



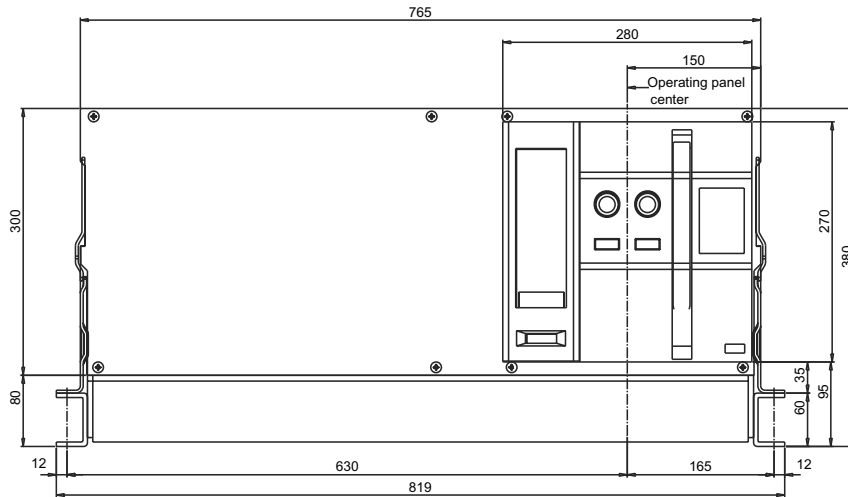
ABW20...32
Horizontal terminals



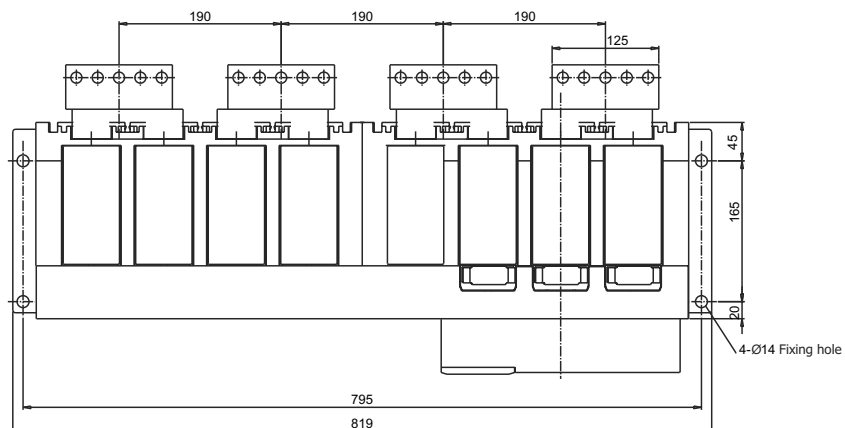
Dimensions (mm)

ABW40...50 - 4P Fixed Version

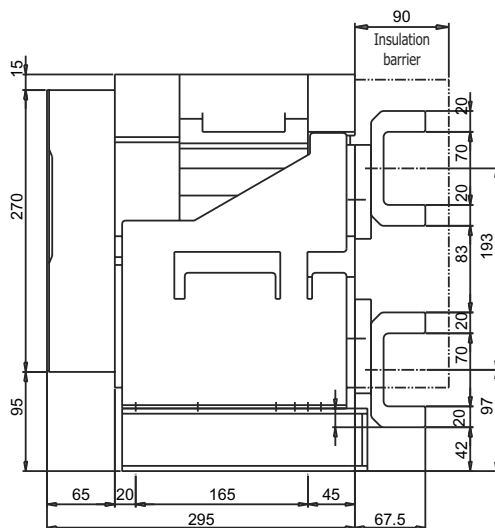
ABW40...50
Front view



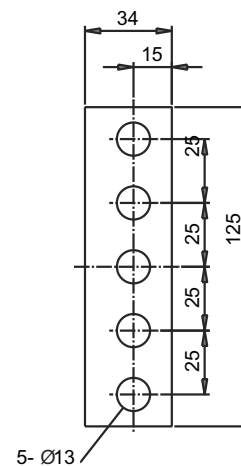
ABW40...50
Top view



ABW40...50
Side view



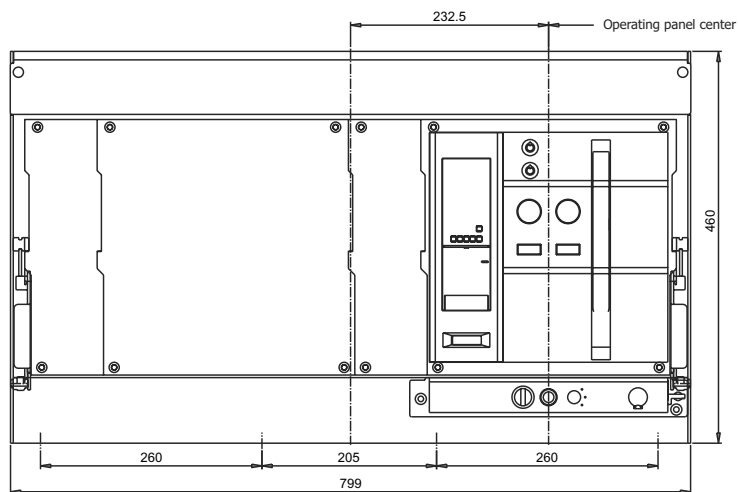
ABW40...50
Horizontal terminals



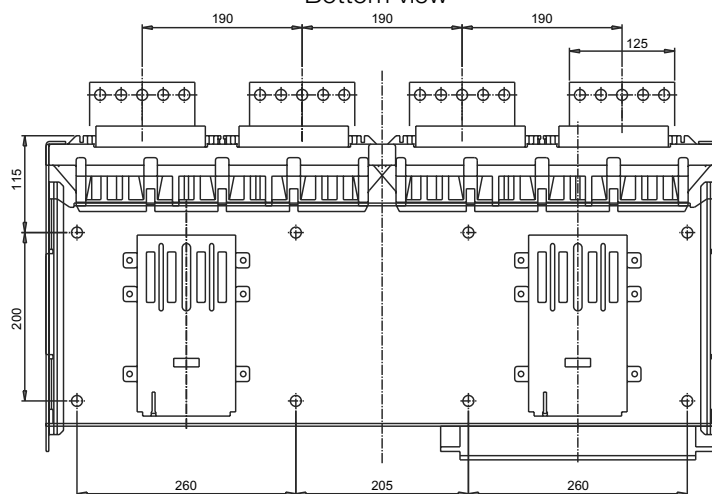
Dimensions (mm)

ABW40...50 - 4P Withdrawable Version

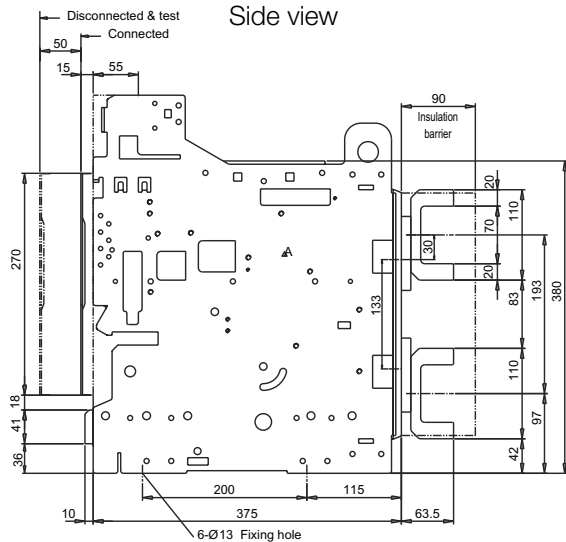
ABW40...50
Front view



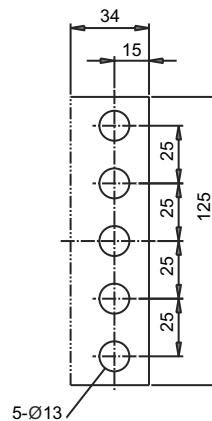
ABW40...50
Bottom view



ABW40...50
Side view



ABW40...50
Horizontal terminals

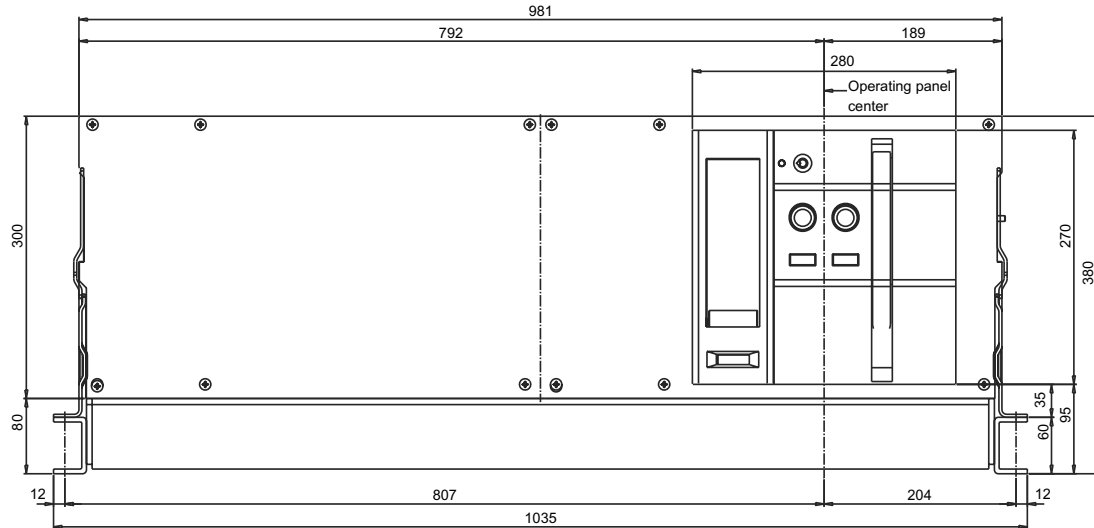


5-Ø13

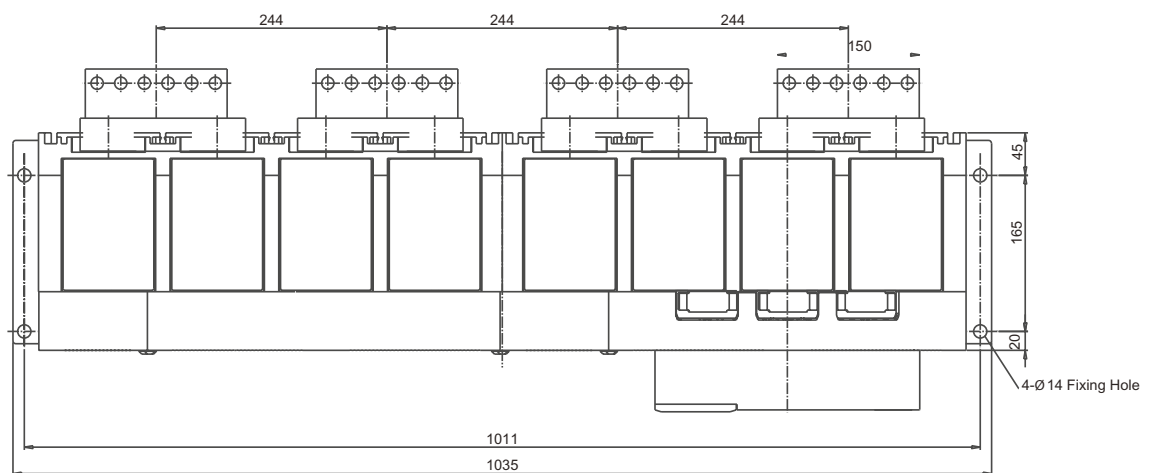
Dimensions (mm)

ABW63 - 4P Fixed Version

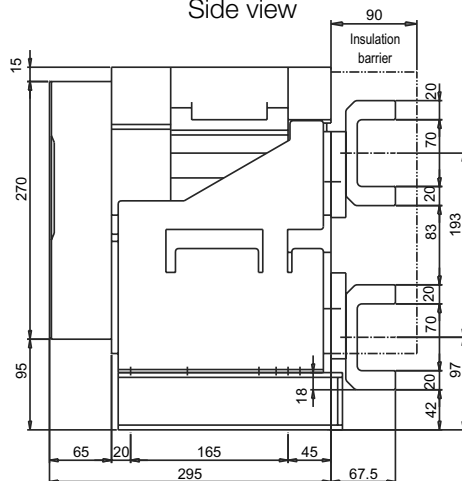
ABW63
Front view



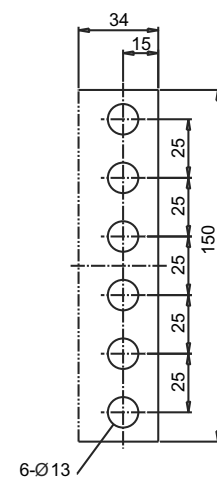
ABW63
Top view



ABW63
Side view



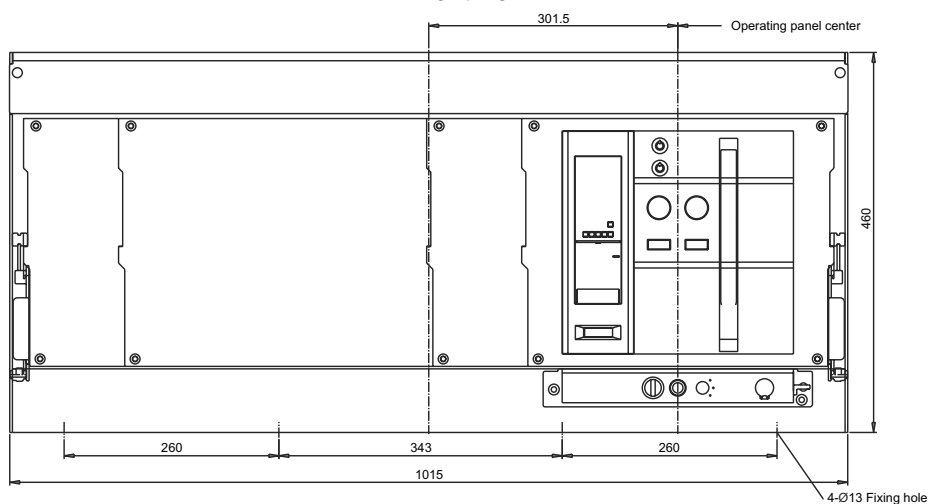
ABW63
Horizontal terminals



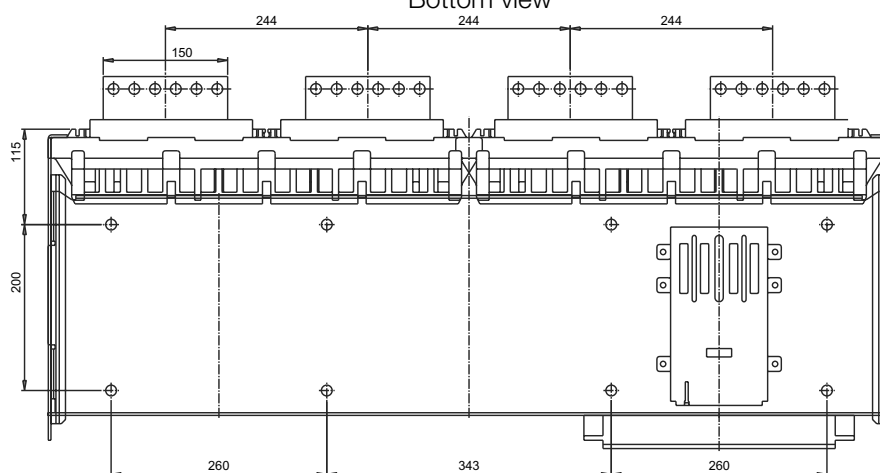
Dimensions (mm)

ABW63 - 4P Withdrawable Version

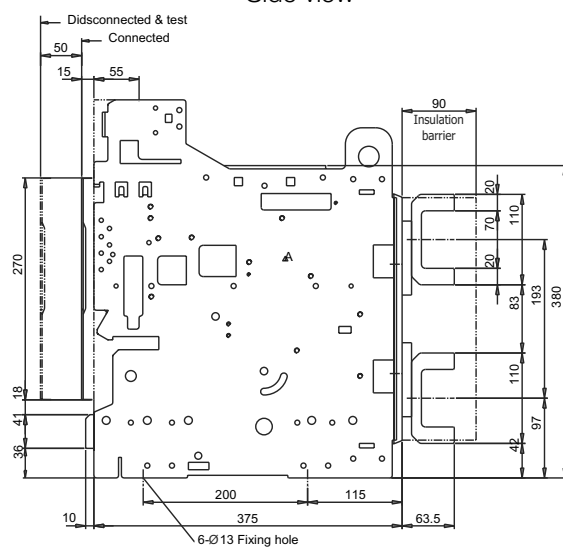
ABW63
Front view



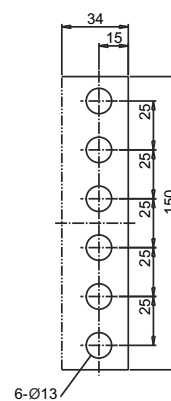
ABW63
Bottom view



ABW63
Side view



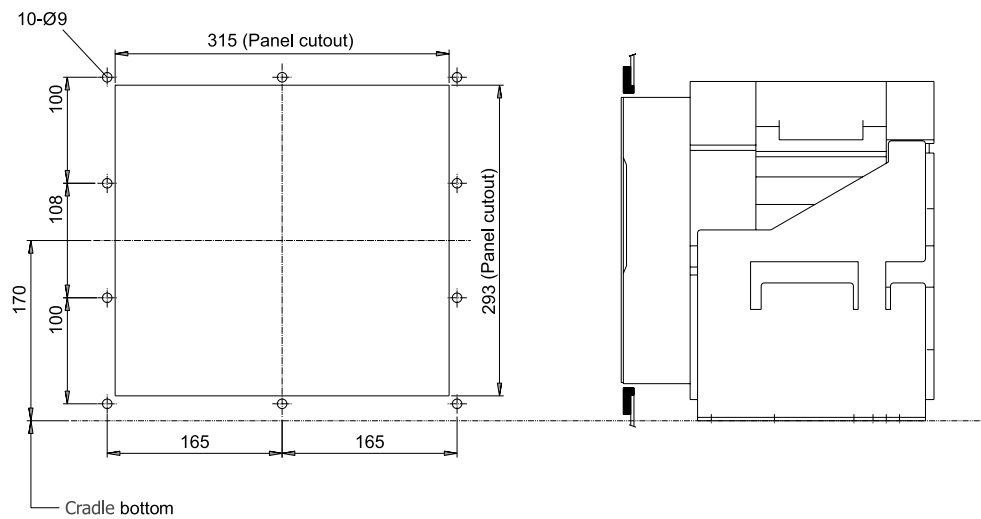
ABW63
Horizontal terminals



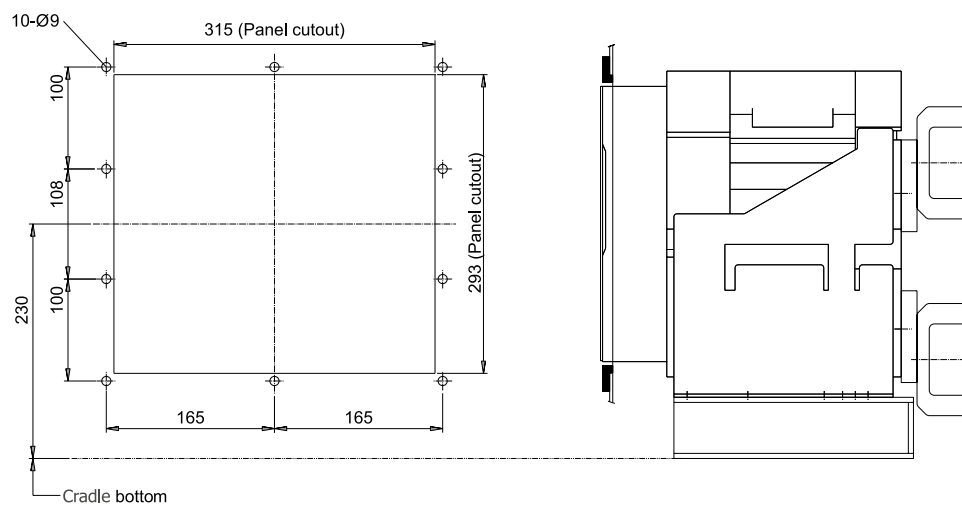
Dimensions (mm)

Panel Cutout - Fixed Version

ABW16~32

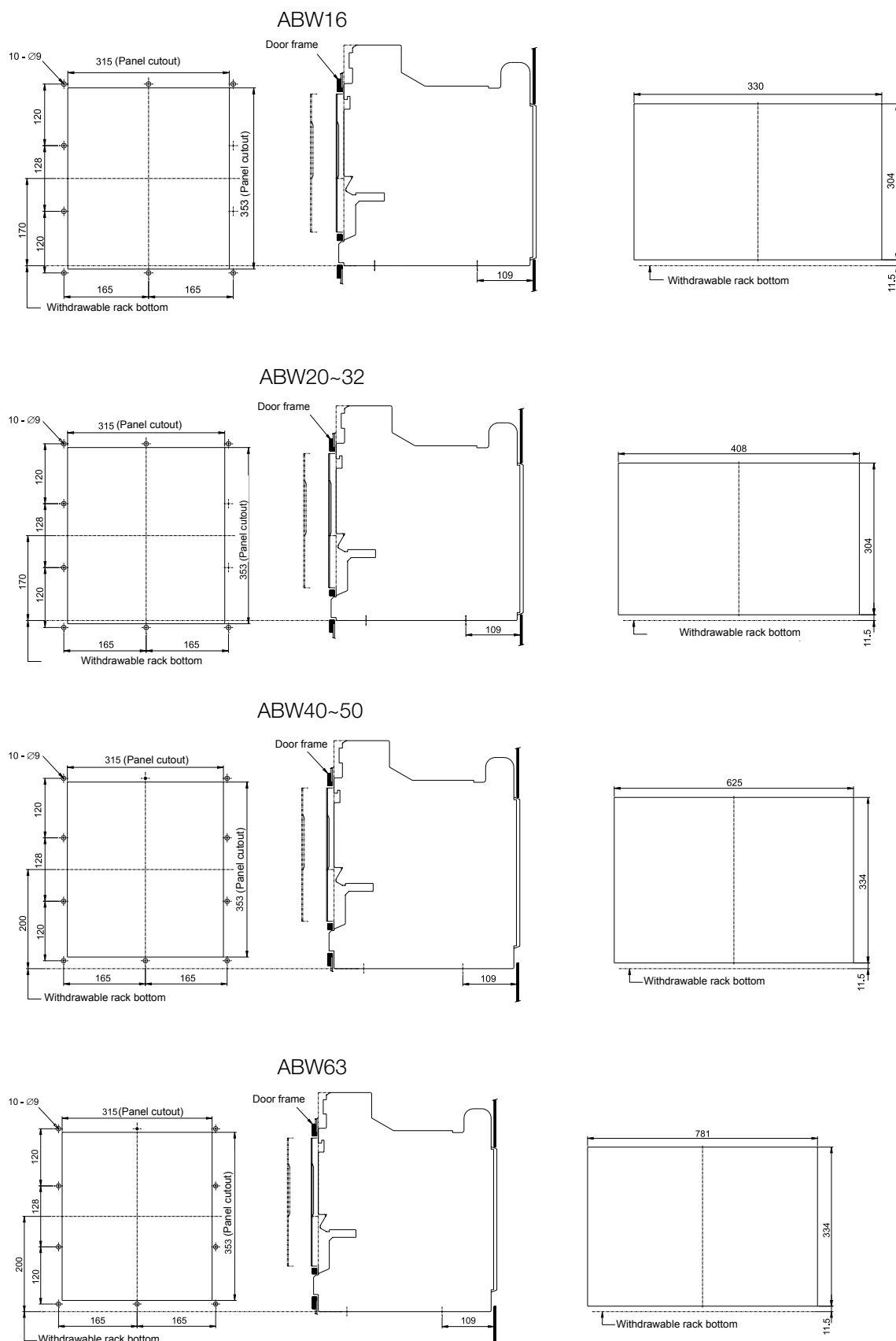


ABW40~63



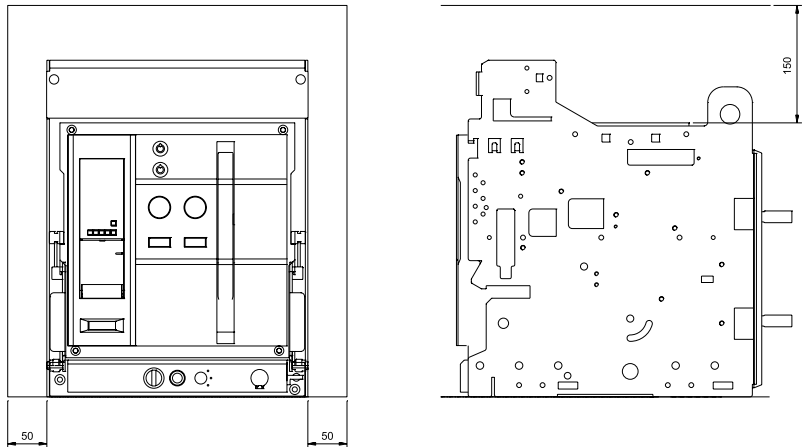
Dimensions (mm)

Panel Cutout - Withdrawable Version

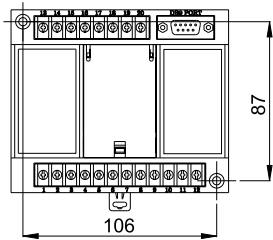


Dimensions (mm)

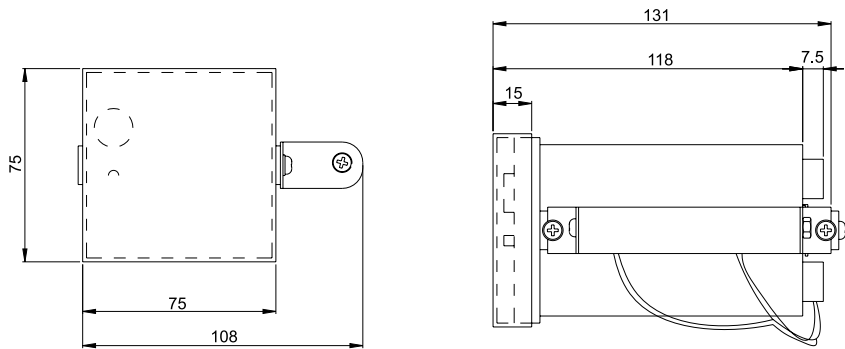
Minimum Distances



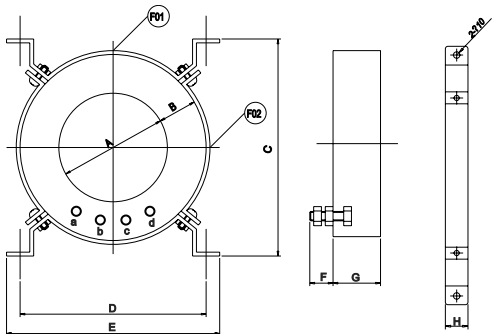
Undervoltage Time Delay Module ABW-UDC
Communication Modules ABW-CM or ABW-CP



Condenser Trip Device ABW-CTD



Current transformer - ABW-ZCT



Dimensions (mm)	A	B	C	D	E	F	G	H
ABW-ZCT-120	120	45	225	180	210	20	55	35
ABW-ZCT-200	200	53	310	260	286	20	70	35

Connections	
ABW-ZCT	Circuit Breaker ABW
Terminal "b"	Terminal "E1"
Terminal "c"	Terminal "E2"

WEG Worldwide Operations

ARGENTINA

WEG EQUIPAMIENTOS
ELECTRICOS S.A.
(Headquarters San
Francisco-Cordoba)
Sgo. Pampiglione 4849
Parque Industrial San Francisco
2400 - San Francisco
Phone: +54 (3564) 421484
Fax: +54 (3564) 421459
info-ar@weg.net
www.weg.net/ar

WEG PINTURAS
Mélian, 2983
Parque Industrial Burzaco
Buenos Aires - Argentina
Phone: (54-11) 4299-8000
tintas@weg.net

AUSTRALIA

WEG AUSTRALIA PTY. LTD.
14 Lakeview Drive Caribbean
Gardens Industrial Estate
Scoresby Vic 3179 Victoria
Phone: 61 (3) 9765 4600
Fax: 61 (3) 9753 2088
info-au@weg.net
www.weg.net/au

BELGIUM

WEG BENELUX S.A.
Rue de l'Industrie 30 D,
1400 Nivelles
Phone: + 32 (67) 88-8420
Fax: + 32 (67) 84-1748
info-be@weg.net
www.weg.net/be

CHILE

WEG CHILE S.A.
Los Canteros 8600
La Reina - Santiago
Phone: (56-2) 784 8900
Fax: (56-2) 784 8950
info-cl@weg.net
www.weg.net/cl

CHINA

WEG (NANTONG) ELECTRIC
MOTOR MANUFACTURING CO.,
LTD.
No. 128# - Xinkai South Road,
Nantong Economic &
Technical Development Zone,
Nantong, Jiangsu Province.
Phone: (86) 0513-85989333
Fax: (86) 0513-85922161
info-cn@weg.net
www.weg.net/cn

COLOMBIA

WEG COLOMBIA LTDA
Calle 46A N82 - 54
Porteria II - Bodega 7 - San
Cayetano II - Bogotá
Phone: (57 1) 416 0166
Fax: (57 1) 416 2077
info-co@weg.net
www.weg.net/co

DENMARK

WEG SCANDINAVIA DENMARK
Sales Office of WEG
Scandinavia AB
Anelysparken 43B
True
8381 Tilst - Denmark
Phone: +45 86 24 22 00
Fax : +45 86 24 56 88
info-se@weg.net
www.weg.net/se

FRANCE

WEG FRANCE SAS
ZI de Chenes - Le Loup
13 Rue du Morellon - BP 738
38297 Saint Quentin Fallavier
Phone: +33 (0) 4 74 99 11 35
Fax: +33 (0) 4 74 99 11 44
info-fr@weg.net
www.weg.net/fr

GERMANY

WEG GERMANY GmbH
Industriegebiet Türnich 3
Geigerstraße 7
50169 Kerpen-Türnich
Phone: +49 (0)2237/9291-0
Fax: +49 (0)2237/9292-200
info-de@weg.net
www.weg.net/de

GHANA

ZEST ELECTRIC GHANA
LIMITED - WEG Group
15, Third Close Street Airport
Residential Area, Accra PMB CT
175, Cantonments
Phone: 233 30 27 664 90
Fax: 233 30 27 664 93
info@zestghana.com.gh
www.zestghana.com.gh

INDIA

WEG ELECTRIC (INDIA) PVT.
LTD.
#38, Ground Floor, 1st Main
Road, Lower Palace Orchards,
Bangalore - 560 003
Phone(s): +91-80-4128 2007
+91-80-4128 2006
Fax: +91-80-2336 7624
info-in@weg.net
www.weg.net/in

ITALY

WEG ITALIA S.R.L.
V.le Brianza 20 - 20092 - Cinisello
Balsamo - Milano
Phone: (39) 02 6129-3535
Fax: (39) 02 6601-3738
info-it@weg.net
www.weg.net/it

JAPAN

WEG ELECTRIC MOTORS
JAPAN CO., LTD.
Yokohama Sky Building 20F,
2-19-12 Takashima,
Nishi-ku, Yokohama City,
Kanagawa, Japan 220-001
Phone: (81) 45 440 6063
info-jp@weg.net
www.weg.net/jp

MEXICO

WEG MEXICO, S.A. DE C.V.
Carretera Jorobas-Tula Km. 3.5,
Manzana 5, Lote 1
Fraccionamiento Parque
Industrial - Huehuetoca,
Estado de México - C.P. 54680
Phone: + 52 (55) 5321 4275
Fax: + 52 (55) 5321 4262
info-mx@weg.net
www.weg.net/mx

NETHERLANDS

WEG NETHERLANDS
Sales Office of
WEG Benelux S.A.
Hanzepoort 23C
7575 DB Oldenzaal
Phone: +31 (0) 541-571080
Fax: +31 (0) 541-571090
info-nl@weg.net
www.weg.net/nl

PORTUGAL

WEG EURO - INDÚSTRIA
ELÉCTRICA, S.A.
Rua Eng. Frederico Ulrich
Apartado 6074
4476-908 - Maia
Phone: +351 229 477 705
Fax: +351 229 477 792
info-pt@weg.net
www.weg.net/pt

RUSSIA

WEG RUSSIA
Russia, 194292, St. Petersburg,
Prospekt Kultury 44, Office 419
Phone: +7(812)363-21-72
Fax: +7(812)363-21-73
info-ru@weg.net
www.weg.net/ru

SOUTH AFRICA

ZEST ELECTRIC MOTORS
(PTY) LTD. WEG Group
47 Galaxy Avenue, Linbro
Business Park, Gauteng
Private Bag X10011, Sandton,
2146 Johannesburg
Phone: (27-11) 723-6000
Fax: (27-11) 723-6001
info@zest.co.za
www.zest.co.za

SPAIN

WEG IBERIA S.L.
Avenida de la Industria,25
28823 Coslada - Madrid
Phone: (34) 916 553 008
Fax : (34) 916 553 058
info-es@weg.net
www.weg.net/es

SINGAPORE

WEG SINGAPORE PTE LTD
159, Kampong Ampat,
#06-02A KA PLACE.
Singapore 368328.
Phone: +65 6858 9081
Fax: +65 6858 1081
info-sg@weg.net
www.weg.net/sg

SWEDEN

WEG SCANDINAVIA AB
Box 10196
Verkstadgatan 9
434 22 Kungsbacka
Phone: (46) 300 73400
Fax: (46) 300 70264
info-se@weg.net
www.weg.net/se

UK

WEG ELECTRIC
MOTORS (U.K.) LTD.
28/29 Walkers Road
Manorside Industrial Estate
North Moons Moat - Redditch
Worcestershire B98 9HE
Phone: 44 (0)1527 596-748
Fax: 44 (0)1527 591-133
info-uk@weg.net
www.weg.net/uk

UNITED ARAB EMIRATES

WEG MIDDLE EAST FZE
JAFZA - JEBEL ALI FREE ZONE
Tower 18, 19th Floor,
Office LB 18 1905
P.O. Box 262508 - Dubai
Phone: +971 (4) 8130800
Fax: +971 (4) 8130811
info-ae@weg.net
www.weg.net/ae

USA

WEG ELECTRIC CORP.
6655 Sugarloaf Parkway,
Duluth, GA 30097
Phone: 1-678-249-2000
Fax: 1-770-338-1632
info-us@weg.net
www.weg.net/us

VENEZUELA

WEG INDUSTRIAS VENEZUELA C.A.
Avenida 138-A
Edificio Torre Banco Occidental de
Descuento, Piso 6 Oficina 6-12
Urbanización San Jose de Tarbes
Zona Postal 2001
Valencia, Edo. Carabobo
Phone(s): (58) 241 8210582
(58) 241 8210799
(58) 241 8211457
Fax: (58) 241 8210966
info-ve@weg.net
www.weg.net/ve



WEG Equipamentos Elétricos S.A.
International Division
Av. Prefeito Waldemar Grubba, 3000
89256-900 - Jaraguá do Sul - SC - Brazil
Phone: 55 (47) 3276-4002
Fax: 55 (47) 3276-4060
www.weg.net