

Robust safety

Extract from Main Catalogue HPL2010
IZM26 Circuit-breakers
IN26 Switch-disconnectors



Powering Business Worldwide



IZM26 Circuit-breakers, IN26 Switch-disconnectors

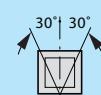
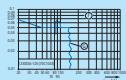
You will find complete information on circuit-breakers
Series NRX up to 4000 A

- Circuit-breakers IZMX16,
Switch-disconnectors INX16
- Circuit-breakers IZMX40,
Switch-disconnectors INX40

here:

www.eaton.eu

→ Customer Support → Catalogues → Circuit Protection →
Catalogue Circuit-breaker – Series NRX



Circuit-breaker IZM26, switch-disconnector IN26
from 800 A to 6300 A

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$I_{cu} = I_{cs}$ at $U_e = 440/690 (1100)$ V AC I_{cu} : Rated ultimate short-circuit breaking capacity at rated operational voltage U_e I_{cs} : rated service short-circuit breaking capacity at rated operational voltage U_e		Basic switching capacity (B)	Normal switching capacity (N)	High switching capacity (H)	(S)
Circuit-breaker	Rated operational current I_n A	I_{cu}/I_{cs} kA/kA	I_{cu}/I_{cs} kA/kA	I_{cu}/I_{cs} kA/kA	I_{cu}/I_{cs} kA/kA
IZM20	800 - 1600	50/50	65/65	-	-
IZM20	2000	50/50	65/65	-	-
IZM32	800 - 1600	65/65	85/85	100/85	-
IZM32	2000 - 3200	65/65	85/85	100/85	-
IZM40	4000	-	85/65	100/65	-
IZM63	4000 - 6300	-	85/85	100/100	-
IZM32S	3200	-	-	-	25

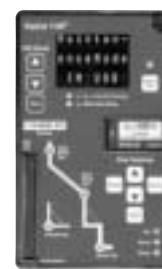
$I_{cu} = I_{cs}$ at $U_e = 440/690 (1100)$ V AC I_{cw} at $t = 1$ s/t = 3 s I_{cw} : Rated short-time withstand current		Basic switching capacity (B)	Normal switching capacity (N)	High switching capacity (H)
		I_{cw}/I_{cw} kA/kA	$t = 1$ s/t = 3s	$t = 1$ s/t = 3s
Circuit-breaker	Rated operational current I_n A	I_{cw}/I_{cw} kA/kA	$t = 1$ s/t = 3s	I_{cw}/I_{cw} kA/kA
IZM20	800 - 1600	50/-	65/40	-
IZM20	2000	50/30	65/40	-
IZM32	800 - 1600	65/-	85/65	85/65
IZM32	2000 - 3200	65/50	85/65	85/65
IZM40	4000	-	85/65	100/65
IZM63	4000 - 6300	-	85/65	100/65

I_{cm} at $U_e = 440/690 \text{ V AC}$ I_{cm} : Rated short-circuit making capacity (Peak value) at rated operational voltage U_e		Basic switching capacity (B)	Normal switching capacity (N)	High switching capacity (H)	(S)
Switch-disconnector	Rated operational current I_n A	I_{cm} kA	I_{cm} kA	I_{cm} kA	I_{cm} kA
IN20	800 - 1600	105	143	-	-
IN20	2000	105	143	-	-
IN32	800 - 1600	143	187	-	-
IN32	2000 - 3200	143	187	-	-
IN40	4000	-	187	220	-
IN63	4000 - 6300	-	187	220	-
IN32S	3200	-	-	-	52

I_{cm} at $U_e = 440/690 \text{ V AC}$ I_{cw} at $t = 1 \text{ s}/t = 3 \text{ s}$ I_{cw} : Rated short-time withstand current		Basic switching capacity (B)	Normal switching capacity (N)	High switching capacity (H)
Switch-disconnector	Rated operational current I_n A	I_{cw}/I_{cw} kA/kA	I_{cw}/I_{cw} kA/kA	I_{cw}/I_{cw} kA/kA
IN20	800 - 1600	50/-	65/40	-
IN20	2000	50/30	65/40	-
IN32	800 - 1600	65/-	85/65	-
IN32	2000 - 3200	65/50	85/65	-
IN40	4000	-	85/65	100/65
IN63	4000 - 6300	-	85/65	100/65



IZM26 ...-A...	IZM26 ...-V...	IZM26 ...-U...	IZM26 ...-P...
System protection DTA Digitrip 520 LI	Selectivity protection DTV Digitrip 520 LSI(G)	Universal protection DTU Digitrip 520MC LSI(G)	Universal protection with power measurement DTP Digitrip 1150i LSI(G)



Current range	200 A – 3200 A	200 A – 6300 A	200 A – 6300 A	200 A – 6300 A
RMS value monitoring	●	●	●	●
Protective functions				
General				
Ordering options	LI	LSI, LSIG	LSI, LSIG, LSIA	LSI, LSIG, LSIA
Rating plug (I_n)	●	●	●	●
Overtemperature trip	●	●	●	●
Overload protection	L			
Overload trip	$(0.4 - 1.0) \times I_n$	$(0.4 - 1.0) \times I_n$	$(0.4 - 1.0) \times I_n$	$(0.4 - 1.0) \times I_n$
Long delay time I^2t at $6 \times I_r$	2 - 24 s	2 - 24 s	2 - 24 s	2 - 24 s
Long delay time I^4t	–	–	–	1 - 5 s
Thermal memory	●	●	●	●
Overload alarm signal	–	–	○ ¹⁾	○ ¹⁾ : $(0.5 - 1.0) \times I_r$
Short-time delayed short-circuit protection	S			
Short delay pickup	–	$(2 - 10) \times I_r$ and M1 ²⁾	$(2 - 10) \times I_r$ and M1 ²⁾	$(2 - 10) \times I_r$ and M1 ²⁾
Short delay time I^2t at $8 \times I_r$	–	100 - 500 ms	100 - 500 ms	100 - 500 ms
Short delay time, flat characteristic curve	–	100 - 500 ms	100 - 500 ms	100 - 500 ms
Zone selectivity ZSI ¹⁾	–	○	○	○
Non-delayed short-circuit protection	I			
Non-delayed short-circuit protection	$(2 - 10) \times I_n$	$(2 - 10) \times I_n$ and M1 ²⁾	$(2 - 10) \times I_n$ and M1 ²⁾	$(2 - 10) \times I_n$ and M1 ²⁾
Switch-off function	–	●	●	●
Closing releases MCR	●	●	●	●
Ground operational fault protection	G			
Ground/fault alarm	–	–	○ ¹⁾	○ ¹⁾
Ground fault protection release	–	$(0.25 - 10) \times I_n$	$(0.25 - 10) \times I_n$ ³⁾	$(0.25 - 10) \times I_n$ ³⁾
Short delay time I^2t at $0.625 \times I_n$	–	100 - 500 ms	100 - 500 ms	100 - 500 ms
Short delay time, curve	–	100 - 500 ms	100 - 500 ms	100 - 500 ms
Zone selectivity ZSI ¹⁾	–	○	○	○
Thermal memory	–	●	●	●
Neutral conductor-conductor protection	N	●	Only for type LSI	Only for type LSI
				Only for type LSI

Notes

I_n = rating plug (rated current module) = rated operational current current transformer

I_r = Set value overload trip (= Rated operational current of system)

¹⁾ Requires an external 24 V DC control voltage supply.

²⁾ Additionally available M1 set values:

● Standard

○ Optional

IZM20

M1 = $14 \times I_n$ for rated operational currents von 200 A to 1250 A
M1 = $12 \times I_n$ for rated operational currents from 1600 A to 2000 A

IZM32

M1 = $14 \times I_n$ for rated operational currents von 200 A to 1250 A
M1 = $12 \times I_n$ for rated operational current from 1600 A to 2500 A
M1 = $10 \times I_n$ for rated operational currents from 3200 A

IZM40

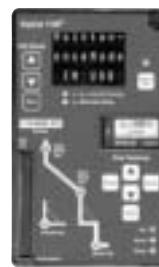
M1 = $12 \times I_n$ for rated operational currents from 4000 A

IZM63

M1 = $14 \times I_n$ for rated operational currents from 2000 A to 2500 A
M1 = $12 \times I_n$ for rated operational currents von 3200 A to 5000 A
M1 = $10 \times I_n$ for rated operational currents from 6300 A

³⁾ In combination with ARMS function limited to 1200 A.

IZM26 ...-A...	IZM26 ...-V...	IZM26 ...-U...	IZM26 ...-P...
System protection DTA Digitrip 520 LI	Selectivity protection DTV Digitrip 520 LSI(G)	Universal protection DTU Digitrip 520MC LSI(G)	Universal protection with power measuring DTP Digitrip 1150i LSI(G)



System diagnostics		IZM26 ...-A...	IZM26 ...-V...	IZM26 ...-U...	IZM26 ...-P...
Cause of trip LEDs		●	●	●	●
Current at trip point		—	—	● ¹⁾	● ¹⁾
Remote signaling contacts	A	—	—	● ¹⁾	● ¹⁾
Programmable signal contacts	A	—	—	—	● ¹⁾
System monitor		IZM26 ...-A...	IZM26 ...-V...	IZM26 ...-U...	IZM26 ...-P...
Digital display		—	—	4-digit LED	24-digit LED
Current display (%)		—	—	●	●
Phase voltage (%)		—	—	—	●
Power and energy (%)		—	—	—	●
Apparent power kVA reference and delivery		—	—	—	●
Reactive power kVAR		—	—	—	●
Power factor		—	—	—	●
Crest factor		—	—	—	●
Power quality, harmonics		—	—	—	●
THD factor (%)		—	—	—	●
Fieldbus communication		IZM26 ...-A...	IZM26 ...-V...	Modbus, PROFIBUS	Modbus, PROFIBUS
Additional functions		IZM26 ...-A...	IZM26 ...-V...	IZM26 ...-U...	IZM26 ...-P...
Trip history (3 events)		—	—	—	●
Electronic operations counter		—	—	—	●
Test possibility ²⁾		Hand held test unit and integrated function			
Maintenance mode ARMS		—	—	○ ¹⁾	○ ¹⁾
Curve-form plotting		—	—	—	●

Notes

I_n = rating plug (rate current module) = rated operational current current transformer

I_r = Set value overload trip (= rated operational current of system)

¹⁾Requires an external 24 V DC control voltage supply.

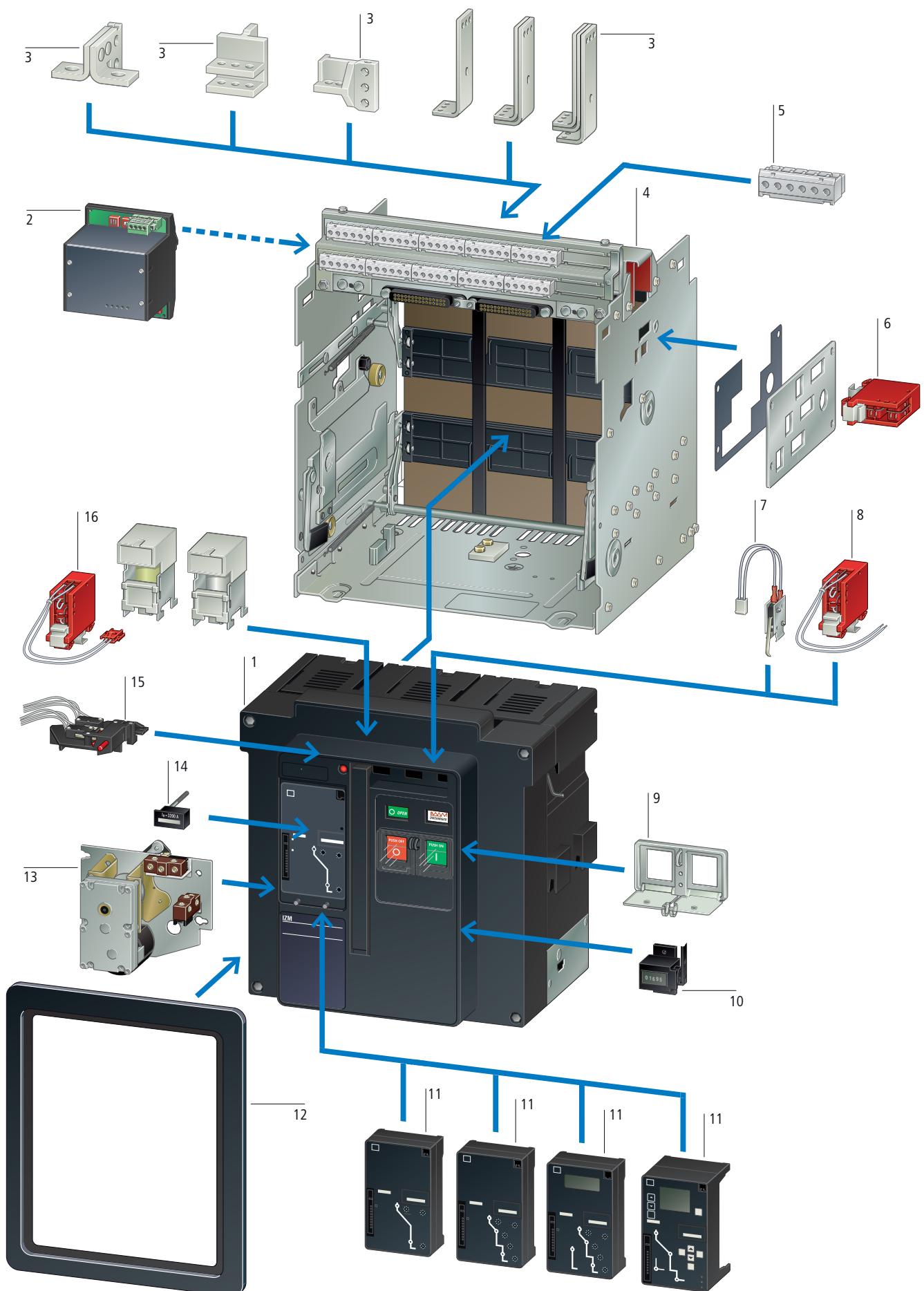
²⁾ Hand-held tester for simulating secondary current

● Standard

○ Optional



System overview



IZM circuit-breakers	1	Latch check switch	7	Door escutcheon	12
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PROFIBUS and Modbus communication interfaces	2	Auxiliary contacts	8	Motor operator	13
→ Page 18/75		Signalling switch ON-OFF, 2 C		Automatic charging of the spring-operated stored energy mechanism	
Main terminal kits	3	→ Page 18/71		→ Page 18/68	
Vertical connections 3 and 4 pole		Locking cover of ON/OFF buttons	9	Rating plug sensor and current transformer	14
Front connections 3 and 4 pole		→ Page 18/72		→ Page 18/76	
→ Page 18/79		Switching operations counters	10	Overload trip switch	15
Cassettes for withdrawable units	4	→ Page 18/68		Overcurrent trip (OTS), 2 C	
Cassettes 2000 A to 6300 A		Trip units	11	→ Page 18/71	
→ Page 18/66		Type A circuit-breakers		Voltage releases	16
Control circuit terminal units	5	Type V circuit-breakers		→ Page 18/69	
Either 2 or 15 units		Type U circuit-breakers		Closing releases	16
→ Page 18/80		Circuit-breakers P-Part no.		→ Page 18/69	
Position signalling switch for withdrawable units	6	→ Page 18/74		Under voltage releases	16
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Key to type references

IZM	20	B	3	-	A	08	W
IN	32	N	4		V	10	F
	40	H			U	12	
	63	S			P	16	
						20	
						25	
						32	
						40	
						50	
						63	

IZM, IN = Product family

Frame size

- 20: Narrow 800 - 2000 A
- 32: Standard 800 - 3200 A
- 40: Double narrow 4000 A
- 63: Double wide 4000 - 6300 A

Switching capacity

- B = Basic
- N = Normal
- H = High
- S = Special type for 1100 V (only for size 32, 3200 A)

Number of poles

- 3: 3 pole
- 4: 4 pole

Trip type

- A= System protection = Digitrip 520 LI
- V= Selective protection = Digitrip 520 LSI(G)
- U= Universal protection = Digitrip 520MC LSI(G)
- P= Universal protection with power measurement = Digitrip 1150i+ LSI(G)

Rated operational current

- 08: 800 A
- 10: 1000 A
- 12: 1250 A
- 16: 1600 A
- 20: 2000 A
- 25: 2500 A
- 32: 3200 A
- 40: 4000 A
- 50: 5000 A
- 63: 6300 A

Model

- W = Withdrawable
- F = Fixed





IZM26: Robust safety

Eaton's IZM26 circuit-breakers offer a proven and complete range of air circuit-breakers up to 6300 A. Four sizes enable the ideal circuit-breaker to be selected economically for any project. In this way, only the module width increases with the required rated operational current, enabling the most compact and economical size to be selected.

The particularly rugged circuit-breakers are already in use 100,000 times in harsh industrial environments worldwide. Large material thicknesses and a high short-time withstand current are its characteristic features.

Applications

The circuit-breakers can be used in four main application areas depending on the type of equipment to be protected:

- System protection,
- Motor protection,
- Transformer protection,
- Generator protection.

These key applications make different demands on the switches, which are met with a range of trip units.

Switches with closing release

They are particularly suitable for synchronization tasks.

Coupler switches

Beside the IZM26 circuit-breakers, IN26 switch-disconnectors are available. These are used, for example, as coupler switches between different power supplies.

Modular design

Because components are installed from the front, retrofitting accessories is especially quick and easy. This allows flexible response to changing requirements within the system.

Standard scope of delivery as usual

- With the new IZM26, you also select a basic device that is already fitted with an electronic release and horizontal terminal adapters.
- The standard mounting is on a horizontal mounting plate or on horizontal traverses in the switching cabinet.
- With four-pole devices, the neutral conductor is arranged on the left (front view).
- The neutral conductor can be loaded 100% like the phase conductors.
- The circuit-breakers are provided with a standard mechanical reclosing lockout. After an overload trip, the fault is usually examined first of all. After the fault is identified and rectified, the mechanical reclosing lockout is reset by pressing the red mechanical trip indicator on the front of the circuit-breaker.
- An "Automatic Reset" can be ordered as an option. This enables the circuit-breaker to be restored to operation immediately at any time after the spring-operated stored energy mechanism is retensioned. In these applications compulsory fault analysis is intentionally avoided.
- The number of control cable terminals depends on the accessories fitted.

- If a cassette is ordered without the basic device, this is already fitted with the maximum number of control cable terminals.
- The standard consists of 2 NO contacts and 2 NC contacts for ON/OFF status indication.
- A coding mechanism between the basic device and the cassette prevents impermissible combinations ("Rejection Interlock").

Expansion of Standard equipment supplied for IZM26

Some order types from the past can no longer be found since the following options are now already part of the standard scope of delivery:

- The door escutcheon is now always included in the scope of delivery. With withdrawable designs this is supplied with the cassette (withdrawable unit).
- On withdrawable units the circuit-breaker can be pulled out to inspect the arc chutes. With fixed units, it is recommended that sufficient space is provided above the circuit-breaker to enable inspection. An additional cover is not required.
- All basic devices that are provided with universal protection (with Digitrip 520M...), now feature a display.
- On each circuit-breaker the integrated Digitrip electronic release is factory fitted with a sealable protective cover.
- If a motor operator is ordered, the "Spring-operated stored energy mechanism tensioned" indicator switch is automatically provided.

Other benefits of the IZM26

- There are still four main variants of overcurrent release units. Only the fourth variant was renamed and is now "P" (as in Power Measurement) instead of "D" (as in Digital trip). On each P circuit-breaker (Digitrip 1150) the power measurement is already an integral part of the electronic release.
- The voltage tap-off for power measurement is integrated in the device so that an additional external voltage transformer is unnecessary. This solution saves costs, space and installation effort.
- Certain applications require the use of an interface to the external control voltage supply (see below). A new feature is that the electronic release can be prepared for an external control voltage supply of 120 V AC or 240 V AC (order option).
- A switching operations counter can now be used thanks to the separate mounting position, also independently of a motor operator.
- Withdrawable unit operation: The unit is actuated with a hand crank supplied. This is now possible also with a standard tool (square drive socket 3/8").
- Four sizes are available to ensure the optimum device for any application. As before, the entire rated operational current range from 800 A to 6300 A can be covered with two sizes.
- Sizes IZM40 and IZM63 are produced in simple terms by doubling sizes IZM20 and IZM32. This consequently provides on the IZM40 and IZM63 two terminals for each phase on the incoming side and on the outgoing side. This facilitates the thermal design of the switchboard and in some switchboard systems simplifies production and reduces the number of busbar adapter variants.
- The phase sequence for the IZM40 and IZM63 is as follows: (NN)AABBCC.
- The IZM for 6300 A is now offered with horizontal connection as standard, thus considerably simplifying the busbar connection for most switchboard systems.

External control voltage supply

- The standard protection functions of the IZM26 operate generally independently of an external control voltage supply. The power supply of the electronics unit, for example for overload and short-circuit protection, is implemented via the current transformers integrated in the circuit-breaker.
- The universal release unit with display can be fed with a 24 V DC/48 V DC supply or a 120 V AC or 240 V AC supply if required so that the display function can also be used without a load. An external power supply is needed if communication functions are required.
- The P release unit should always be operated with an external power supply as it is normally selected due to its extensive control voltage dependent functions.

Communication capability

The communication-capability of the IZM26 circuit-breakers enable them to open up new possibilities in power distribution. They can thus provide and transmit all important operational information. This increases system transparency and shortens the response times to states such as overcurrent, phase asymmetry and over-voltage.

A rapid intervention in a process can, for example, prevent downtimes and help to schedule maintenance activities and therefore boost plant availability.

A Modbus interface is offered as an alternative in addition to the Profibus interface.

Greater safety for maintenance personnel with ARMS™

If the IZM26 is fitted with the newly patented ARMS system (Arcflash Reduction Maintenance System™), a non-delayed immediate disconnection is ensured in the event of an arc fault. This disconnection is even faster than that of a non-delayed short-circuit release..

This function can be activated directly on the circuit-breaker or via an external switch, such as when maintenance personnel enter a hazardous area. Other components from the ARCON protective system, in conjunction with the IZM26 enable arc fault protection in stages. ARCON on the Internet: www.moeller.net/arcon

Selection criteria for IZM26 circuit-breakers

Fundamental criteria for the selection of circuit-breakers:

- Max short-circuit current $I_{k\max}$ at the circuit-breaker's point of installation: this value determines the short-circuit breaking capacity or the short-circuit current carrying capacity of the circuit-breaker. It is compared to the I_{cu} , I_{cs} and I_{cw} values of the circuit-breaker and determines essentially its size (see Technical data).
- Rated operational current I_n which should flow through the respective branch circuit: This value must not be greater than the maximum switch rated operational current of the circuit-breaker. The rated operational current can be adjusted down using additional rated operational current modules.
- Ambient temperature of the circuit-breaker: This is generally the internal temperature in the control panel. Observe the derating values with increased ambient temperature (see Technical data).
- Circuit-breaker type: fixed mounted or withdrawable units, 3 or 4 pole.
- Minimum short-circuit current, which flows through the switching device: The release must recognize this value as a short-circuit and may react with a trip.
- Protection functions of the circuit-breaker: This is determined by the selection of the respective overcurrent release.

Documentation

Operating manual
AWB1230-1605de (deutsch)
AWB1230-1605en (english)

CurveSelect characteristics program

Display tripping characteristics according to user settings and assess their interaction effectively:
www.moeller.net/de/support



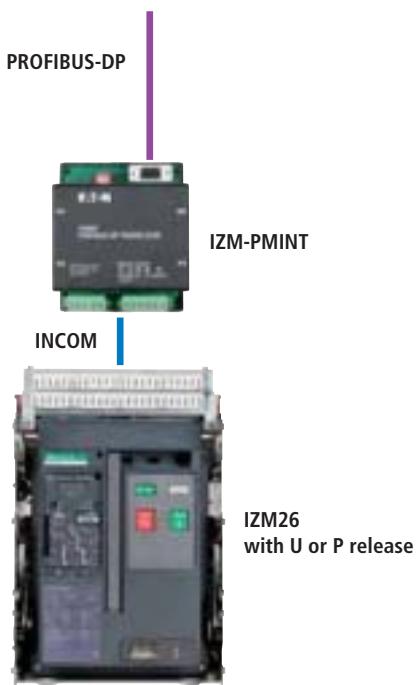
Components for IZM26 communication

The IZM26 series devices can be connected to a PROFIBUS-DP or Modbus RTU field bus. Interfaces IZM-PMINT and IZM-MMINT are compact devices for mounting on top-hat rails, i.e. independently of the switch. They output all information available in the trip unit to the fieldbus, including switch status, current, voltage, power, and energy, as well as diagnostic information such as overcurrent, phase asymmetry and overvoltage. The fieldbus also facilitates actuation of the motor operator and therefore its remote operation.

Requirements

The communications modules can be used in combination with IZMX26...-U or IZMX26...-P... circuit-breakers.

PROFIBUS-DP configuration



Communications module IZM-PMINT has a 9-pin D-Sub socket for connection to PROFIBUS. The module works as a slave on PROFIBUS-DP; the data is defined through a standardized device master data file, which permits smooth integration of the IZM in a DP line.

PROFIBUS

- On the PROFIBUS-DP side the module supports automatic baud rate detection; the PROFIBUS-DP bus address is set through the trip unit's display. The maximum cable length is 2.4 km.
- To operate the IZM-PMINT, a supply voltage of 24 V DC or 240 V AC is required.

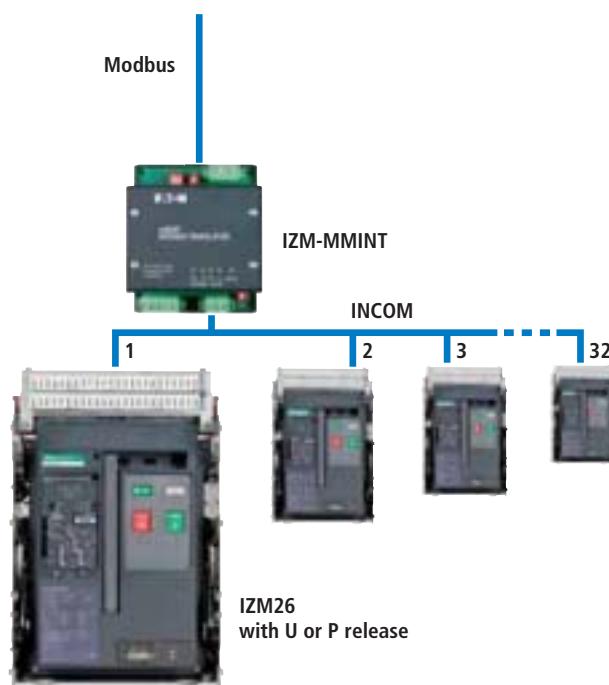
INCOM

- The data connection to the circuit-breaker is implemented through a serial INCOM data connection. A shielded, twisted-pair data cable (recommended are Belden 9463 or 3073F) can be used.
- The INCOM bus must be terminated with a 100 Ω terminating resistor, connected between the two cable strands at the circuit-breaker end.
- The maximum cable length is 3 km.

Data access via PROFIBUS-DP

The data on PROFIBUS-DP are offered according to the profile for low-voltage switchgear (LVSG) of PROFIBUS International (PROFIBUS and PROFINET User Group). Five different data structures with varying numbers of parameters are available through the device master data file. This allows a data filter to be easily implemented, which simplifies integration of the IZM data into the control system.

Modbus configuration



Communications module IZM-MMINT has a plug-in screw terminal for connection to Modbus. The module operates as a Modbus slave. The interface to the circuit-breaker can be operated as a bus, so that up to 32 IZM26 units can be connected to an IZM-MMINT. This makes the use of the IZM with the Modbus architecture specially efficient.

Modbus

- The baud rate for Modbus communications is selectable with coding switches on the IZM-MMINT; the bus address (up to 247) is set through the display of the trip unit. The maximum cable length is 1.2 km.
- The Modbus must be terminated with a 120 Ω terminating resistor. If the IZM-MMINT is the last device in the network, a built-in terminating resistor can be activated there with a coding switch.
- To operate the IZM-MMINT, a supply voltage of 24 V DC or 240 V AC is required.

INCOM

- The data connection to the circuit-breaker is implemented through a serial INCOM bus connection. A shielded, twisted-pair data cable (recommended are Belden 9463 or 3073F) can be used.
- The INCOM bus must be terminated with a 100 Ω terminating resistor, connected between the two cable strands at the circuit-breaker end.
- The maximum cable length is 3 km.

Data access via Modbus

The data for each circuit-breaker connected to the INCOM bus is contained in comprehensive data tables. Each data point is available as floating-point (IEEE) or fixed-point value. This variance allows the integration of the IZM to be adapted to the Modbus architecture. This allows a data filter to be easily implemented, which simplifies integration of the IZM data into the control system.





Switching capacity $I_{cu} = I_{cs}$ kA	Rated operational current $I_n = I_u$ A	Frame size A	Setting range		Overload release I_r	Short-circuit releases Delayed $I_{sd} = I_r \times \dots$	Non-delayed $I_i = I_n \times \dots$	Fixed mounted Part no. Article no.	Price See price list	Withdrawable units Part no. Article no.	Price See price list	Std. pack
			Overload release I_r	Short-circuit releases Delayed $I_{sd} = I_r \times \dots$								
50	800	IZM20	320 – 800	–	2 – 10	IZM20B3-A08F 123400	IZM20B3-A08W 123160					
Circuit-breakers for system protection												
Including main terminals at rear and control circuit terminals according to ordered options.												
65	800	IZM32	320 – 800			IZM20B3-A10F 123401	IZM20B3-A10W 123161					
	1000		400 – 1000			IZM20B3-A12F 123402	IZM20B3-A12W 123162					
	1250		500 – 1250			IZM20B3-A16F 123403	IZM20B3-A16W 123163					
	1600		640 – 1600			IZM20B3-A20F 123404	IZM20B3-A20W 123164					
	2000		800 – 2000			IZM20N3-A08F 123430	IZM20N3-A08W 123190					
	800		320 – 800			IZM20N3-A10F 123431	IZM20N3-A10W 123191					
	1000		400 – 1000			IZM20N3-A12F 123432	IZM20N3-A12W 123192					
	1250		500 – 1250			IZM20N3-A16F 123433	IZM20N3-A16W 123193					
	1600		640 – 1600			IZM20N3-A20F 123434	IZM20N3-A20W 123194					
	2000		800 – 2000			IZM32B3-A08F 123899	IZM32B3-A08W 123609					
85	800	IZM32	320 – 800			IZM32B3-A10F 123900	IZM32B3-A10W 123610					
	1000		400 – 1000			IZM32B3-A12F 123901	IZM32B3-A12W 123611					
	1250		500 – 1250			IZM32B3-A16F 123902	IZM32B3-A16W 123612					
	1600		640 – 1600			IZM32B3-A20F 123903	IZM32B3-A20W 123613					
	2000		800 – 2000			IZM32B3-A25F 123904	IZM32B3-A25W 123614					
	2500		1000 – 2500			IZM32B3-A32F 123905	IZM32B3-A32W 123615					
	3200		1280 – 3200			IZM32N3-A08F 123939	IZM32N3-A08W 123649					
	800		320 – 800			IZM32N3-A10F 123940	IZM32N3-A10W 123650					
	1000		400 – 1000			IZM32N3-A12F 123941	IZM32N3-A12W 123651					
	1250		500 – 1250			IZM32N3-A16F 123942	IZM32N3-A16W 123652					
100	800	IZM32H3	320 – 800			IZM32N3-A20F 123943	IZM32N3-A20W 123653					
	1000		400 – 1000			IZM32N3-A25F 123944	IZM32N3-A25W 123654					
	1250		500 – 1250			IZM32N3-A32F 123945	IZM32N3-A32W 123655					
	1600		640 – 1600			IZM32H3-A08F 123979	IZM32H3-A08W 123689					
	2000		800 – 2000			IZM32H3-A10F 123980	IZM32H3-A10W 123690					
	2500		1000 – 2500			IZM32H3-A12F 123981	IZM32H3-A12W 123691					
	3200		1280 – 3200			IZM32H3-A16F 123982	IZM32H3-A16W 123692					
	800		320 – 800			IZM32H3-A20F 123983	IZM32H3-A20W 123693					
	1000		400 – 1000			IZM32H3-A25F 123984	IZM32H3-A25W 123694					
	1250		500 – 1250			IZM32H3-A32F 123985	IZM32H3-A32W 123695					
	1600		640 – 1600									
	2000		800 – 2000									
	2500		1000 – 2500									
	3200		1280 – 3200									



Switching capacity $I_{cu} = I_{cs}$ kA	Rated operational current $I_n = I_u$ A	Frame size A	Setting range		Overload release I_r	Short-circuit releases $I_{sd} = I_r \times \dots$	Delayed	Non-delayed	Fixed mounted Part no. Article no.	Price See price list	Withdrawable units Part no. Article no.	Price See price list	Std. pack
			Delayed	Non-delayed									
											Cassette must be ordered separately.		
Selectively-opening circuit-breakers													
Including main terminals at rear and control circuit terminals according to ordered options.													
50	800	IZM20	320 – 800	2 - 10	2 - 10, OFF	IZM20B3-V08F 123406			IZM20B3-V08W 123166				1 off
	1000		400 – 1000			IZM20B3-V10F 123407			IZM20B3-V10W 123167				
	1250		500 – 1250			IZM20B3-V12F 123408			IZM20B3-V12W 123168				
	1600		640 – 1600			IZM20B3-V16F 123409			IZM20B3-V16W 123169				
	2000		800 – 2000			IZM20B3-V20F 123410			IZM20B3-V20W 123170				
	800		320 – 800			IZM20N3-V08F 123436			IZM20N3-V08W 123196				
65	1000		400 – 1000			IZM20N3-V10F 123437			IZM20N3-V10W 123197				
	1250		500 – 1250			IZM20N3-V12F 123438			IZM20N3-V12W 123198				
	1600		640 – 1600			IZM20N3-V16F 123439			IZM20N3-V16W 123199				
	2000		800 – 2000			IZM20N3-V20F 123440			IZM20N3-V20W 123200				
	800	IZM32	320 – 800			IZM32B3-V08F 123907			IZM32B3-V08W 123617				
	1000		400 – 1000			IZM32B3-V10F 123908			IZM32B3-V10W 123618				
	1250		500 – 1250			IZM32B3-V12F 123909			IZM32B3-V12W 123619				
	1600		640 – 1600			IZM32B3-V16F 123910			IZM32B3-V16W 123620				
	2000		800 – 2000			IZM32B3-V20F 123911			IZM32B3-V20W 123621				
	2500		1000 – 2500			IZM32B3-V25F 123912			IZM32B3-V25W 123622				
85	3200		1280 – 3200			IZM32B3-V32F 123913			IZM32B3-V32W 123623				
	800		320 – 800			IZM32N3-V08F 123947			IZM32N3-V08W 123657				
	1000		400 – 1000			IZM32N3-V10F 123948			IZM32N3-V10W 123658				
	1250		500 – 1250			IZM32N3-V12F 123949			IZM32N3-V12W 123659				
	1600		640 – 1600			IZM32N3-V16F 123950			IZM32N3-V16W 123660				
	2000		800 – 2000			IZM32N3-V20F 123951			IZM32N3-V20W 123661				
	2500		1000 – 2500			IZM32N3-V25F 123952			IZM32N3-V25W 123662				
	3200		1280 – 3200			IZM32N3-V32F 123953			IZM32N3-V32W 123663				
	4000	IZM40	1600 – 4000			IZM40N3-V40F 124303			IZM40N3-V40W 124193				
	4000	IZM63	1600 – 4000			IZM63N3-V40F 124304			IZM63N3-V40W 124194				
	5000		2000 – 5000			IZM63N3-V50F 124305			IZM63N3-V50W 124195				
	6300		2520 – 6300			IZM63N3-V63F 124306			IZM63N3-V63W 124196				



Switching capacity kA	Rated operational current A	Fame size	Setting range Overload release I _r A	Short-circuit releases		Fixed mounted Part no. Article no.	Price See price list	Withdrawable units Part no. Article no.	Price See price list	Std. pack
				Delayed I _{sd} = I _r × ...	Non-delayed I _i = I _n × ...					
I _{cu} = I _{cs} kA	I _n = I _u A							Cassette must be ordered separately.		

Selectively-opening circuit-breakers

Including main terminals at rear and control circuit terminals according to ordered options.

100	800	IZM32	320 – 800	2 - 10	2 - 10, OFF	IZM32H3-V08F 123987		IZM32H3-V08W 123697		1 off
	1000		400 – 1000			IZM32H3-V10F 123988		IZM32H3-V10W 123698		
	1250		500 – 1250			IZM32H3-V12F 123989		IZM32H3-V12W 123699		
	1600		640 – 1600			IZM32H3-V16F 123990		IZM32H3-V16W 123700		
	2000		800 – 2000			IZM32H3-V20F 123991		IZM32H3-V20W 123701		
	2500		1000 – 2500			IZM32H3-V25F 123992		IZM32H3-V25W 123702		
	3200		1280 – 3200			IZM32H3-V32F 123993		IZM32H3-V32W 123703		
	4000	IZM40	1600 – 4000			IZM40H3-V40F 124323		IZM40H3-V40W 124213		
	4000	IZM63	1600 – 4000			IZM63H3-V40F 124324		IZM63H3-V40W 124214		
	5000		2000 – 5000			IZM63H3-V50F 124325		IZM63H3-V50W 124215		
	6300		2520 – 6300			IZM63H3-V63F 124326		IZM63H3-V63W 124216		

Circuit-breaker for universal protection

Including main terminals at rear and control circuit terminals according to ordered options.

50	800	IZM20	320 – 800	2 - 10	2 - 10, OFF	IZM20B3-U08F 123412		IZM20B3-U08W 123172		1 off
	1000		400 – 1000			IZM20B3-U10F 123413		IZM20B3-U10W 123173		
	1250		500 – 1250			IZM20B3-U12F 123414		IZM20B3-U12W 123174		
	1600		640 – 1600			IZM20B3-U16F 123415		IZM20B3-U16W 123175		
	2000		800 – 2000			IZM20B3-U20F 123416		IZM20B3-U20W 123176		
65	800		320 – 800			IZM20N3-U08F 123442		IZM20N3-U08W 123202		
	1000		400 – 1000			IZM20N3-U10F 123443		IZM20N3-U10W 123203		
	1250		500 – 1250			IZM20N3-U12F 123444		IZM20N3-U12W 123204		
	1600		640 – 1600			IZM20N3-U16F 123445		IZM20N3-U16W 123205		
	2000		800 – 2000			IZM20N3-U20F 123446		IZM20N3-U20W 123206		
	800	IZM32	320 – 800			IZM32B3-U08F 123915		IZM32B3-U08W 123625		
	1000		400 – 1000			IZM32B3-U10F 123916		IZM32B3-U10W 123626		
	1250		500 – 1250			IZM32B3-U12F 123917		IZM32B3-U12W 123627		
	1600		640 – 1600			IZM32B3-U16F 123918		IZM32B3-U16W 123628		
	2000		800 – 2000			IZM32B3-U20F 123919		IZM32B3-U20W 123629		
	2500		1000 – 2500			IZM32B3-U25F 123920		IZM32B3-U25W 123630		
	3200		1280 – 3200			IZM32B3-U32F 123921		IZM32B3-U32W 123631		



Switching capacity $I_{cu} = I_{cs}$ kA	Rated operational current $I_n = I_u$ A	Frame size	Setting range		Overload release I_r A	Short-circuit releases Delayed $I_{sd} = I_r \times \dots$	Non-delayed $I_i = I_n \times \dots$	Fixed mounted Part no. Article no.	Price See price list	Withdrawable units Part no. Article no.	Price See price list	Std. pack
			Delayed $I_{sd} = I_r \times \dots$	Non-delayed $I_i = I_n \times \dots$								
										Cassette must be ordered separately.		
Circuit-breaker for universal protection												
Including main terminals at rear and control circuit terminals according to ordered options.												
85	800	IZM32	320 – 800	2 - 10	2 - 10, OFF	IZM32N3-U08F 123955		IZM32N3-U08W 123665		1 off		
	1000		400 – 1000			IZM32N3-U10F 123956		IZM32N3-U10W 123666				
	1250		500 – 1250			IZM32N3-U12F 123957		IZM32N3-U12W 123667				
	1600		640 – 1600			IZM32N3-U16F 123958		IZM32N3-U16W 123668				
	2000		800 – 2000			IZM32N3-U20F 123959		IZM32N3-U20W 123669				
	2500		1000 – 2500			IZM32N3-U25F 123960		IZM32N3-U25W 123670				
	3200		1280 – 3200			IZM32N3-U32F 123961		IZM32N3-U32W 123671				
	4000	IZM40	1600 – 4000			IZM40N3-U40F 124307		IZM40N3-U40W 124197				
	4000	IZM63	1600 – 4000			IZM63N3-U40F 124308		IZM63N3-U40W 124198				
	5000		2000 – 5000			IZM63N3-U50F 124309		IZM63N3-U50W 124199				
	6300		2520 – 6300			IZM63N3-U63F 124310		IZM63N3-U63W 124200				
100	800	IZM32	320 – 800		2 - 10, OFF	IZM32H3-U08F 123995		IZM32H3-U08W 123705		1 off		
	1000		400 – 1000			IZM32H3-U10F 123996		IZM32H3-U10W 123706				
	1250		500 – 1250			IZM32H3-U12F 123997		IZM32H3-U12W 123707				
	1600		640 – 1600			IZM32H3-U16F 123998		IZM32H3-U16W 123708				
	2000		800 – 2000			IZM32H3-U20F 123999		IZM32H3-U20W 123709				
	2500		1000 – 2500			IZM32H3-U25F 124000		IZM32H3-U25W 123710				
	3200		1280 – 3200			IZM32H3-U32F 124001		IZM32H3-U32W 123711				
	4000	IZM40	1600 – 4000			IZM40H3-U40F 124327		IZM40H3-U40W 124217				
	4000	IZM63	1600 – 4000			IZM63H3-U40F 124328		IZM63H3-U40W 124218				
	5000		2000 – 5000			IZM63H3-U50F 124329		IZM63H3-U50W 124219				
	6300		2520 – 6300			IZM63H3-U63F 124330		IZM63H3-U63W 124220				



Switching capacity $I_{cu} = I_{cs}$ kA	Rated operational current $I_n = I_u$ A	Frame size	Setting range		Overload release I_r A	Short-circuit releases Delayed $I_{sd} = I_r \times \dots$	Non-delayed $I_i = I_n \times \dots$	Fixed mounted Part no. Article no.	Price See price list	Withdrawable units		
			Delayed $I_{sd} = I_r \times \dots$	Non-delayed $I_i = I_n \times \dots$						Part no. Article no.	Price See price list	Std. pack
										Cassette must be ordered separately.		
Circuit-breaker for universal protection with power monitoring												
Including main terminals at rear and control circuit terminals according to ordered options.												
50	800	IZM20	320 – 800	2 - 10	2 - 10, OFF	IZM20B3-P08F 123418		IZM20B3-P08W 123178			1 off	
	1000		400 – 1000			IZM20B3-P10F 123419		IZM20B3-P10W 123179				
	1250		500 – 1250			IZM20B3-P12F 123420		IZM20B3-P12W 123180				
	1600		640 – 1600			IZM20B3-P16F 123421		IZM20B3-P16W 123181				
	2000		800 – 2000			IZM20B3-P20F 123422		IZM20B3-P20W 123182				
65	800		320 – 800			IZM20N3-P08F 123448		IZM20N3-P08W 123208				
	1000		400 – 1000			IZM20N3-P10F 123449		IZM20N3-P10W 123209				
	1250		500 – 1250			IZM20N3-P12F 123450		IZM20N3-P12W 123210				
	1600		640 – 1600			IZM20N3-P16F 123451		IZM20N3-P16W 123211				
	2000		800 – 2000			IZM20N3-P20F 123452		IZM20N3-P20W 123212				
	800	IZM32	320 – 800			IZM32B3-P08F 123923		IZM32B3-P08W 123633				
	1000		400 – 1000			IZM32B3-P10F 123924		IZM32B3-P10W 123634				
	1250		500 – 1250			IZM32B3-P12F 123925		IZM32B3-P12W 123635				
	1600		640 – 1600			IZM32B3-P16F 123926		IZM32B3-P16W 123636				
	2000		800 – 2000			IZM32B3-P20F 123927		IZM32B3-P20W 123637				
	2500		1000 – 2500			IZM32B3-P25F 123928		IZM32B3-P25W 123638				
	3200		1280 – 3200			IZM32B3-P32F 123929		IZM32B3-P32W 123639				
85	800		320 – 800			IZM32N3-P08F 123963		IZM32N3-P08W 123673				
	1000		400 – 1000			IZM32N3-P10F 123964		IZM32N3-P10W 123674				
	1250		500 – 1250			IZM32N3-P12F 123965		IZM32N3-P12W 123675				
	1600		640 – 1600			IZM32N3-P16F 123966		IZM32N3-P16W 123676				
	2000		800 – 2000			IZM32N3-P20F 123967		IZM32N3-P20W 123677				
	2500		1000 – 2500			IZM32N3-P25F 123968		IZM32N3-P25W 123678				
	3200		1280 – 3200			IZM32N3-P32F 123969		IZM32N3-P32W 123679				
	4000	IZM40	1600 – 4000			IZM40N3-P40F 124311		IZM40N3-P40W 124201				
	4000	IZM63	1600 – 4000			IZM63N3-P40F 124312		IZM63N3-P40W 124202				
	5000		2000 – 5000			IZM63N3-P50F 124313		IZM63N3-P50W 124203				
	6300		2520 – 6300			IZM63N3-P63F 124314		IZM63N3-P63W 124204				



Switching capacity kA	Rated operational current A	Frame size A	Setting range		Overload release	Short-circuit releases		Fixed mounted Part no. Article no.	Price See price list	Withdrawable units Part no. Article no.	Price See price list	Std. pack
			Delayed	Non-delayed		$I_{sd} = I_r \times \dots$	$I_i = I_n \times \dots$					
$I_{cu} = I_{cs}$ kA	$I_n = I_u$ A	A	I_r A							Cassette must be ordered separately.		

Circuit-breaker for universal protection with power monitoring

Including main terminals at rear and control circuit terminals according to ordered options.

100	800	IZM32	320 – 800	2 - 10	2 - 10, OFF	IZM32H3-P08F 124003		IZM32H3-P08W 123713				1 off
	1000		400 – 1000			IZM32H3-P10F 124004		IZM32H3-P10W 123714				
	1250		500 – 1250			IZM32H3-P12F 124005		IZM32H3-P12W 123715				
	1600		640 – 1600			IZM32H3-P16F 124006		IZM32H3-P16W 123716				
	2000		800 – 2000			IZM32H3-P20F 124007		IZM32H3-P20W 123717				
	2500		1000 – 2500			IZM32H3-P25F 124008		IZM32H3-P25W 123718				
	3200		1280 – 3200			IZM32H3-P32F 124009		IZM32H3-P32W 123719				
	4000	IZM40	1600 – 4000			IZM40H3-P40F 124331		IZM40H3-P40W 124221				
	4000	IZM63	1600 – 4000			IZM63H3-P40F 124332		IZM63H3-P40W 124222				
	5000		2000 – 5000			IZM63H3-P50F 124333		IZM63H3-P50W 124223				
	6300		2520 – 6300			IZM63H3-P63F 124334		IZM63H3-P63W 124224				

Switching capacity kA	Rated operational current A	Setting range		Overload release	Short-circuit releases		Fixed mounted Part no. Article no.	Price See price list	Withdrawable units Part no. Article no.	Price See price list	Std. pack	
		Delayed	Non-delayed		$I_{sd} = I_r \times \dots$	$I_i = I_n \times \dots$						
$I_{cu} = I_{cs}$ kA	$I_n = I_u$ A	I_r A							Cassette must be ordered separately.			

IZM32 for 1100 V

Including main terminals at rear and control circuit terminals according to ordered options.

25	3200	1280 – 3200	–	2 - 10	IZM32S3-A32F-1100V 123725		IZM32S3-A32W-1100V 123721					1 off
25	3200	1280 – 3200	2 - 10	2 - 10, OFF	IZM32S3-V32F-1100V 123726		IZM32S3-V32W-1100V 123722					1 off
25	3200	1280 – 3200	2 - 10	2 - 10, OFF	IZM32S3-U32F-1100V 123727		IZM32S3-U32W-1100V 123723					1 off
25	3200	1280 – 3200	2 - 10	2 - 10, OFF	IZM32S3-P32F-1100V 123749		IZM32S3-P32W-1100V 123724					1 off



Switching capacity $I_{cu} = I_{cs}$ kA	Rated operational current $I_n = I_u$ A	Frame size	Setting range		Overload release I_r A	Short-circuit releases Delayed $I_{sd} = I_r \times \dots$	Non-delayed $I_i = I_n \times \dots$	Fixed mounted Part no. Article no.	Price See price list	Withdrawable units		Std. pack
			Overload release	Short-circuit releases						Part no. Article no.	Price See price list	
50	800	IZM20	320 – 800	–	2 - 10	IZM20B4-A08F 123520	IZM20B4-A08W 123280					
Circuit-breakers for system protection												
Including main terminals at rear and control circuit terminals according to ordered options.												
65	800	IZM20	320 – 800	–	2 - 10	IZM20B4-A10F 123521	IZM20B4-A10W 123281					
	1000		400 – 1000			IZM20B4-A12F 123522	IZM20B4-A12W 123282					
	1250		500 – 1250			IZM20B4-A16F 123523	IZM20B4-A16W 123283					
	1600		640 – 1600			IZM20B4-A20F 123524	IZM20B4-A20W 123284					
	2000		800 – 2000			IZM20N4-A08F 123550	IZM20N4-A08W 123310					
	800		320 – 800			IZM20N4-A10F 123551	IZM20N4-A10W 123311					
	1000		400 – 1000			IZM20N4-A12F 123552	IZM20N4-A12W 123312					
	1250		500 – 1250			IZM20N4-A16F 123553	IZM20N4-A16W 123313					
	1600		640 – 1600			IZM20N4-A20F 123554	IZM20N4-A20W 123314					
	2000		800 – 2000			IZM32B4-A08F 124044	IZM32B4-A08W 123754					
85	800	IZM32	320 – 800	–	2 - 10	IZM32B4-A10F 124045	IZM32B4-A10W 123755					
	1000		400 – 1000			IZM32B4-A12F 124046	IZM32B4-A12W 123756					
	1250		500 – 1250			IZM32B4-A16F 124047	IZM32B4-A16W 123757					
	1600		640 – 1600			IZM32B4-A20F 124048	IZM32B4-A20W 123758					
	2000		800 – 2000			IZM32B4-A25F 124049	IZM32B4-A25W 123759					
	2500		1000 – 2500			IZM32B4-A32F 124050	IZM32B4-A32W 123760					
	3200		1280 – 3200			IZM32N4-A08F 124084	IZM32N4-A08W 123794					
	800		320 – 800			IZM32N4-A10F 124085	IZM32N4-A10W 123795					
	1000		400 – 1000			IZM32N4-A12F 124086	IZM32N4-A12W 123796					
	1250		500 – 1250			IZM32N4-A16F 124087	IZM32N4-A16W 123797					
100	800	IZM32	320 – 800	–	2 - 10	IZM32N4-A20F 124088	IZM32N4-A20W 123798					
	1000		400 – 1000			IZM32N4-A25F 124089	IZM32N4-A25W 123799					
	1250		500 – 1250			IZM32N4-A32F 124090	IZM32N4-A32W 123800					
	1600		640 – 1600			IZM32H4-A08F 124124	IZM32H4-A08W 123834					
	2000		800 – 2000			IZM32H4-A10F 124125	IZM32H4-A10W 123835					
	2500		1000 – 2500			IZM32H4-A12F 124126	IZM32H4-A12W 123836					
	3200		1280 – 3200			IZM32H4-A16F 124127	IZM32H4-A16W 123837					
	800		320 – 800			IZM32H4-A20F 124128	IZM32H4-A20W 123838					
	1000		400 – 1000			IZM32H4-A25F 124129	IZM32H4-A25W 123839					
	1250		500 – 1250			IZM32H4-A32F 124130	IZM32H4-A32W 123840					

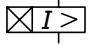


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IZM26

Switching capacity $I_{cu} = I_{cs}$ kA	Rated operational current $I_n = I_u$ A	Frame size I_r A	Setting range		Overload release $I_{sd} = I_r \times \dots$	Short-circuit releases Delayed \square Non-delayed $\square I >$	Fixed mounted Part no. Article no.	Price See price list	Withdrawable units Part no. Article no.	Price See price list	Std. pack
			2 - 10	2 - 10, OFF							
									Cassette must be ordered separately.		
Selectively-opening circuit-breakers											
Including main terminals at rear and control circuit terminals according to ordered options.											
50	800	IZM20	320 – 800	2 - 10	2 - 10, OFF		IZM20B4-V08F 123526		IZM20B4-V08W 123286		
	1000		400 – 1000				IZM20B4-V10F 123527		IZM20B4-V10W 123287		
	1250		500 – 1250				IZM20B4-V12F 123528		IZM20B4-V12W 123288		
	1600		640 – 1600				IZM20B4-V16F 123529		IZM20B4-V16W 123289		
	2000		800 – 2000				IZM20B4-V20F 123530		IZM20B4-V20W 123290		
65	800		320 – 800				IZM20N4-V08F 123556		IZM20N4-V08W 123316		1 off
	1000		400 – 1000				IZM20N4-V10F 123557		IZM20N4-V10W 123317		
	1250		500 – 1250				IZM20N4-V12F 123558		IZM20N4-V12W 123318		
	1600		640 – 1600				IZM20N4-V16F 123559		IZM20N4-V16W 123319		
	2000		800 – 2000				IZM20N4-V20F 123560		IZM20N4-V20W 123320		
	800	IZM32	320 – 800				IZM32B4-V08F 124052		IZM32B4-V08W 123762		
	1000		400 – 1000				IZM32B4-V10F 124053		IZM32B4-V10W 123763		
	1250		500 – 1250				IZM32B4-V12F 124054		IZM32B4-V12W 123764		
	1600		640 – 1600				IZM32B4-V16F 124055		IZM32B4-V16W 123765		
	2000		800 – 2000				IZM32B4-V20F 124056		IZM32B4-V20W 123766		
	2500		1000 – 2500				IZM32B4-V25F 124057		IZM32B4-V25W 123767		
	3200		1280 – 3200				IZM32B4-V32F 124058		IZM32B4-V32W 123768		
85	800		320 – 800				IZM32N4-V08F 124092		IZM32N4-V08W 123802		
	1000		400 – 1000				IZM32N4-V10F 124093		IZM32N4-V10W 123803		
	1250		500 – 1250				IZM32N4-V12F 124094		IZM32N4-V12W 123804		
	1600		640 – 1600				IZM32N4-V16F 124095		IZM32N4-V16W 123805		
	2000		800 – 2000				IZM32N4-V20F 124096		IZM32N4-V20W 123806		
	2500		1000 – 2500				IZM32N4-V25F 124097		IZM32N4-V25W 123807		
	3200		1280 – 3200				IZM32N4-V32F 124098		IZM32N4-V32W 123808		
	4000	IZM40	1600 – 4000				IZM40N4-V40F 124358		IZM40N4-V40W 124248		
	4000	IZM63	1600 – 4000				IZM63N4-V40F 124359		IZM63N4-V40W 124249		
	5000		2000 – 5000				IZM63N4-V50F 124360		IZM63N4-V50W 124250		
	6300		2520 – 6300				IZM63N4-V63F 124361		IZM63N4-V63W 124251		



Switching capacity $I_{cu} = I_{cs}$ kA	Rated operational current $I_n = I_u$ A	Frame size	Setting range		Overload release I_r A	Short-circuit releases Delayed $I_{sd} = I_r \times \dots$	Non-delayed $I_i = I_n \times \dots$	Fixed mounted Part no. Article no.	Price See price list	Withdrawable units Part no. Article no.	Price See price list	Std. pack
			Delayed 	Non-delayed 								
										Cassette must be ordered separately.		
Selectively-opening circuit-breakers												
Including main terminals at rear and control circuit terminals according to ordered options.												
100	800	IZM32	320 – 800	2 - 10	2 - 10, OFF	IZM32H4-V08F 124132		IZM32H4-V08W 123842				1 off
	1000		400 – 1000			IZM32H4-V10F 124133		IZM32H4-V10W 123843				
	1250		500 – 1250			IZM32H4-V12F 124134		IZM32H4-V12W 123844				
	1600		640 – 1600			IZM32H4-V16F 124135		IZM32H4-V16W 123845				
	2000		800 – 2000			IZM32H4-V20F 124136		IZM32H4-V20W 123846				
	2500		1000 – 2500			IZM32H4-V25F 124137		IZM32H4-V25W 123847				
	3200		1280 – 3200			IZM32H4-V32F 124138		IZM32H4-V32W 123848				
	4000	IZM40	1600 – 4000			IZM40H4-V40F 124378		IZM40H4-V40W 124268				
	4000	IZM63	1600 – 4000			IZM63H4-V40F 124379		IZM63H4-V40W 124269				
	5000		2000 – 5000			IZM63H4-V50F 124380		IZM63H4-V50W 124270				
	6300		2520 – 6300			IZM63H4-V63F 124381		IZM63H4-V63W 124271				
Circuit-breaker for universal protection												
Including main terminals at rear and control circuit terminals according to ordered options.												
50	800	IZM20	320 – 800	2 - 10	2 - 10, OFF	IZM20B4-U08F 123532		IZM20B4-U08W 123292				1 off
	1000		400 – 1000			IZM20B4-U10F 123533		IZM20B4-U10W 123293				
	1250		500 – 1250			IZM20B4-U12F 123534		IZM20B4-U12W 123294				
	1600		640 – 1600			IZM20B4-U16F 123535		IZM20B4-U16W 123295				
	2000		800 – 2000			IZM20B4-U20F 123536		IZM20B4-U20W 123296				
65	800		320 – 800			IZM20N4-U08F 123562		IZM20N4-U08W 123322				
	1000		400 – 1000			IZM20N4-U10F 123563		IZM20N4-U10W 123323				
	1250		500 – 1250			IZM20N4-U12F 123564		IZM20N4-U12W 123324				
	1600		640 – 1600			IZM20N4-U16F 123565		IZM20N4-U16W 123325				
	2000		800 – 2000			IZM20N4-U20F 123566		IZM20N4-U20W 123326				
	800	IZM32	320 – 800			IZM32B4-U08F 124060		IZM32B4-U08W 123770				
	1000		400 – 1000			IZM32B4-U10F 124061		IZM32B4-U10W 123771				
	1250		500 – 1250			IZM32B4-U12F 124062		IZM32B4-U12W 123772				
	1600		640 – 1600			IZM32B4-U16F 124063		IZM32B4-U16W 123773				
	2000		800 – 2000			IZM32B4-U20F 124064		IZM32B4-U20W 123774				
	2500		1000 – 2500			IZM32B4-U25F 124065		IZM32B4-U25W 123775				
	3200		1280 – 3200			IZM32B4-U32F 124066		IZM32B4-U32W 123776				



Switching capacity $I_{cu} = I_{cs}$ kA	Rated operational current $I_n = I_u$ A	Frame size I_r A	Setting range		Overload release $I_{sd} = I_r \times \dots$	Short-circuit releases Delayed $I_{sd} = I_r \times \dots$	Non-delayed $I_i = I_n \times \dots$	Fixed mounted Part no. Article no.	Price See price list	Withdrawable units Part no. Article no.	Price See price list	Std. pack										
			Overload release I_r A	Short-circuit releases Delayed $I_{sd} = I_r \times \dots$																		
Circuit-breaker for universal protection																						
Including main terminals at rear and control circuit terminals according to ordered options.																						
85	800	IZM32	320 – 800	2 - 10	2 - 10, OFF	IZM32N4-U08F 124100		IZM32N4-U08W 123810				1 off										
	1000		400 – 1000			IZM32N4-U10F 124101		IZM32N4-U10W 123811														
	1250		500 – 1250			IZM32N4-U12F 124102		IZM32N4-U12W 123812														
	1600		640 – 1600			IZM32N4-U16F 124103		IZM32N4-U16W 123813														
	2000		800 – 2000			IZM32N4-U20F 124104		IZM32N4-U20W 123814														
	2500		1000 – 2500			IZM32N4-U25F 124105		IZM32N4-U25W 123815														
	3200		1280 – 3200			IZM32N4-U32F 124106		IZM32N4-U32W 123816														
	4000	IZM40	1600 – 4000			IZM40N4-U40F 124362		IZM40N4-U40W 124252														
	4000	IZM63	1600 – 4000			IZM63N4-U40F 124363		IZM63N4-U40W 124253														
	5000		2000 – 5000			IZM63N4-U50F 124364		IZM63N4-U50W 124254														
	6300		2520 – 6300			IZM63N4-U63F 124365		IZM63N4-U63W 124255														
100	800	IZM32	320 – 800			IZM32H4-U08F 124140		IZM32H4-U08W 123850														
	1000		400 – 1000			IZM32H4-U10F 124141		IZM32H4-U10W 123851														
	1250		500 – 1250			IZM32H4-U12F 124142		IZM32H4-U12W 123852														
	1600		640 – 1600			IZM32H4-U16F 124143		IZM32H4-U16W 123853														
	2000		800 – 2000			IZM32H4-U20F 124144		IZM32H4-U20W 123854														
	2500		1000 – 2500			IZM32H4-U25F 124145		IZM32H4-U25W 123855														
	3200		1280 – 3200			IZM32H4-U32F 124146		IZM32H4-U32W 123856														
	4000	IZM40	1600 – 4000			IZM40H4-U40F 124382		IZM40H4-U40W 124272														
	4000	IZM63	1600 – 4000			IZM63H4-U40F 124383		IZM63H4-U40W 124273														
	5000		2000 – 5000			IZM63H4-U50F 124384		IZM63H4-U50W 124274														
	6300		2520 – 6300			IZM63H4-U63F 124385		IZM63H4-U63W 124275														



Switching capacity $I_{cu} = I_{cs}$ kA	Rated operational current $I_n = I_u$ A	Frame size	Setting range		Overload release I_r A	Short-circuit releases Delayed $I_{sd} = I_r \times \dots$	Non-delayed $I_i = I_n \times \dots$	Fixed mounted Part no. Article no.	Price See price list	Withdrawable units		Std. pack
			Overload release	Short-circuit releases						Part no. Article no.	Price See price list	
50	800	IZM20	320 – 800	2 - 10	2 - 10, OFF			IZM20B4-P08F 123538		IZM20B4-P08W 123298		
	1000		400 – 1000					IZM20B4-P10F 123539		IZM20B4-P10W 123299		
	1250		500 – 1250					IZM20B4-P12F 123540		IZM20B4-P12W 123300		
	1600		640 – 1600					IZM20B4-P16F 123541		IZM20B4-P16W 123301		
	2000		800 – 2000					IZM20B4-P20F 123542		IZM20B4-P20W 123302		
65	800		320 – 800					IZM20N4-P08F 123568		IZM20N4-P08W 123328		1 off
	1000		400 – 1000					IZM20N4-P10F 123569		IZM20N4-P10W 123329		
	1250		500 – 1250					IZM20N4-P12F 123570		IZM20N4-P12W 123330		
	1600		640 – 1600					IZM20N4-P16F 123571		IZM20N4-P16W 123331		
	2000		800 – 2000					IZM20N4-P20F 123572		IZM20N4-P20W 123332		
	800	IZM32	320 – 800					IZM32B4-P08F 124068		IZM32B4-P08W 123778		
	1000		400 – 1000					IZM32B4-P10F 124069		IZM32B4-P10W 123779		
	1250		500 – 1250					IZM32B4-P12F 124070		IZM32B4-P12W 123780		
	1600		640 – 1600					IZM32B4-P16F 124071		IZM32B4-P16W 123781		
	2000		800 – 2000					IZM32B4-P20F 124072		IZM32B4-P20W 123782		
	2500		1000 – 2500					IZM32B4-P25F 124073		IZM32B4-P25W 123783		
	3200		1280 – 3200					IZM32B4-P32F 124074		IZM32B4-P32W 123784		
85	800		320 – 800					IZM32N4-P08F 124108		IZM32N4-P08W 123818		
	1000		400 – 1000					IZM32N4-P10F 124109		IZM32N4-P10W 123819		
	1250		500 – 1250					IZM32N4-P12F 124110		IZM32N4-P12W 123820		
	1600		640 – 1600					IZM32N4-P16F 124111		IZM32N4-P16W 123821		
	2000		800 – 2000					IZM32N4-P20F 124112		IZM32N4-P20W 123822		
	2500		1000 – 2500					IZM32N4-P25F 124113		IZM32N4-P25W 123823		
	3200		1280 – 3200					IZM32N4-P32F 124114		IZM32N4-P32W 123824		
	4000	IZM40	1600 – 4000					IZM40N4-P40F 124366		IZM40N4-P40W 124256		
	4000	IZM63	1600 – 4000					IZM63N4-P40F 124367		IZM63N4-P40W 124257		
	5000		2000 – 5000					IZM63N4-P50F 124368		IZM63N4-P50W 124258		
	6300		2520 – 6300					IZM63N4-P63F 124369		IZM63N4-P63W 124259		

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4 pole air circuit-breakers/4 pole air circuit-breakers 1100 V

IZM26

Switching capacity $I_{cu} = I_{cs}$ kA	Rated operational current $I_n = I_u$ A	Frame size	Setting range		Overload release I_r A	Short-circuit releases Delayed $I_{sd} = I_r \times \dots$	Non-delayed $I_i = I_n \times \dots$	Fixed mounted Part no. Article no.	Price See price list	Withdrawable units Part no. Article no.	Price see price list	Std. pack
			Overload release	Short-circuit releases								
										Cassette must be ordered separately.		

Circuit-breaker for universal protection with power monitoring

Including main terminals at rear and control circuit terminals according to ordered options.

100	800	IZM32	320 – 800	2 - 10	2 - 10, OFF	IZM32H4-P08F 124148	IZM32H4-P08W 123858					1 off
	1000		400 – 1000			IZM32H4-P10F 124149	IZM32H4-P10W 123859					
	1250		500 – 1250			IZM32H4-P12F 124150	IZM32H4-P12W 123860					
	1600		640 – 1600			IZM32H4-P16F 124151	IZM32H4-P16W 123861					
	2000		800 – 2000			IZM32H4-P20F 124152	IZM32H4-P20W 123862					
	2500		1000 – 2500			IZM32H4-P25F 124153	IZM32H4-P25W 123863					
	3200		1280 – 3200			IZM32H4-P32F 124154	IZM32H4-P32W 123864					
	4000	IZM40	1600 – 4000			IZM40H4-P40F 124386	IZM40H4-P40W 124276					
	4000	IZM63	1600 – 4000			IZM63H4-P40F 124387	IZM63H4-P40W 124277					
	5000		2000 – 5000			IZM63H4-P50F 124388	IZM63H4-P50W 124278					
	6300		2520 – 6300			IZM63H4-P63F 124389	IZM63H4-P63W 124279					

Switching capacity $I_{cu} = I_{cs}$ kA	Rated operational current $I_n = I_u$ A	Setting range		Overload release I_r A	Short-circuit releases Delayed $I_{sd} = I_r \times \dots$	Non-delayed $I_i = I_n \times \dots$	Fixed mounted Part no. Article no.	Price See price list	Withdrawable units Part no. Article no.	Price see price list	Std. pack
		Overload release	Short-circuit releases								
									Cassette must be ordered separately.		

IZM32 for 1100 V

Including main terminals at rear and control circuit terminals according to ordered options.

Circuit-breakers for system protection						
25	3200	1280 – 3200	–	2 - 10	IZM32S4-A32F-1100V 123866	IZM32S4-A32W-1100V 123750

Selectively-opening circuit-breakers						
25	3200	1280 – 3200	2 - 10	2 - 10, OFF	IZM32S4-V32F-1100V 123867	IZM32S4-V32W-1100V 123751

Circuit-breaker for universal protection						
25	3200	1280 – 3200	2 - 10	2 - 10, OFF	IZM32S4-U32F-1100V 123868	IZM32S4-U32W-1100V 123752

Circuit-breaker with circuit-breaker						
25	3200	1280 – 3200	2 - 10	2 - 10, OFF	IZM32S4-P32F-1100V 123869	IZM32S4-P32W-1100V 123753

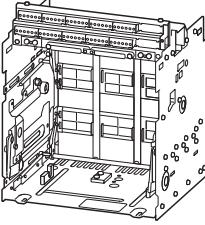
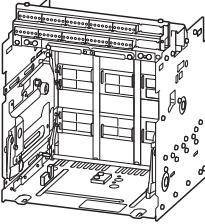


Rated short-circuit making capacity	Rated operational current	Frame size	Rated short-time withstand current t = 1 s	Fixed mounted Part no. Article no.	Price See price list	Withdrawable units Part no. Article no.	Price See price list	Std. pack
I _{cm} kA	I _n = I _u A		I _{cw} kA			Cassette must be seperately ordered.		
Including main terminals at rear and control circuit terminals according to ordered options.								
55	800	IN20	50	IN20B3-08F 123424		IN20B3-08W 123184		1 off
		IN32	65	IN32B3-08F 123931		IN32B3-08W 123641		
		IN32	85	IN32N3-08F 123971		IN32N3-08W 123681		
	1000	IN20	50	IN20B3-10F 123425		IN20B3-10W 123185		
		IN32	65	IN32B3-10F 123932		IN32B3-10W 123642		
		IN32	85	IN32N3-10F 123972		IN32N3-10W 123682		
	1250	IN20	50	IN20B3-12F 123426		IN20B3-12W 123186		
		IN32	65	IN32B3-12F 123933		IN32B3-12W 123643		
		IN32	85	IN32N3-12F 123973		IN32N3-12W 123683		
	1600	IN20	50	IN20B3-16F 123427		IN20B3-16W 123187		
		IN32	65	IN32B3-16F 123934		IN32B3-16W 123644		
		IN32	85	IN32N3-16F 123974		IN32N3-16W 123684		
	2000	IN20	50	IN20B3-20F 123428		IN20B3-20W 123188		
69	800	IN20	65	IN20N3-08F 123454		IN20N3-08W 123214		
	1000	IN20	65	IN20N3-10F 123455		IN20N3-10W 123215		
	1250	IN20	65	IN20N3-12F 123456		IN20N3-12W 123216		
	1600	IN20	65	IN20N3-16F 123457		IN20N3-16W 123217		
	2000	IN20	65	IN20N3-20F 123458		IN20N3-20W 123218		
		IN32	65	IN32B3-20F 123935		IN32B3-20W 123645		
		IN32	85	IN32N3-20F 123975		IN32N3-20W 123685		
110	2500	IN32	65	IN32B3-25F 123936		IN32B3-25W 123646		
	2500	IN32	85	IN32N3-25F 123976		IN32N3-25W 123686		
	3200	IN32	65	IN32B3-32F 123937		IN32B3-32W 123647		
	3200	IN32	85	IN32N3-32F 123977		IN32N3-32W 123687		
138	4000	IN40	85	IN40N3-40F 124315		IN40N3-40W 124205		
		IN40	100	IN40H3-40F 124191		IN40H3-40W 124189		
		IN63	85	IN63N3-40F 124316		IN63N3-40W 124206		
		IN63	100	IN63H3-40F 124336		IN63H3-40W 124226		
210	3200	IN32	–	IN32S3-32F-1100V 123871		IN32S3-32W-1100V 123870		
217	5000	IN63	85	IN63N3-50F 124317		IN63N3-50W 124207		
	5000	IN63	100	IN63H3-50F 124337		IN63H3-50W 124227		
	6300	IN63	85	IN63N3-63F 124318		IN63N3-63W 124208		
	6300	IN63	100	IN63H3-63F 124338		IN63H3-63W 124228		



Rated short-circuit making capacity I _{cm} kA	Rated operational current I _n = I _u A	Frame size IN20	Rated short-time withstand current t = 1 s I _{cw} kA	Fixed mounted Part no. Article no.	Price See price list	Withdrawable units Part no. Article no.	Price See price list	Std. pack
Including main terminals at rear and control circuit terminals according to ordered options.								
55	800	IN20	50	IN20B4-08F 123544		IN20B4-08W 123304		1 off
		IN32	65	IN32B4-08F 124076		IN32B4-08W 123786		
		IN32	85	IN32N4-08F 124116		IN32N4-08W 123826		
	1000	IN20	50	IN20B4-10F 123545		IN20B4-10W 123305		
		IN32	65	IN32B4-10F 124077		IN32B4-10W 123787		
		IN32	85	IN32N4-10F 124117		IN32N4-10W 123827		
	1250	IN20	50	IN20B4-12F 123546		IN20B4-12W 123306		
		IN32	65	IN32B4-12F 124078		IN32B4-12W 123788		
		IN32	85	IN32N4-12F 124118		IN32N4-12W 123828		
	1600	IN20	50	IN20B4-16F 123547		IN20B4-16W 123307		
		IN32	65	IN32B4-16F 124079		IN32B4-16W 123789		
		IN32	85	IN32N4-16F 124119		IN32N4-16W 123829		
	2000	IN20	50	IN20B4-20F 123548		IN20B4-20W 123308		
69	800	IN20	65	IN20N4-08F 123574		IN20N4-08W 123334		
	1000	IN20	65	IN20N4-10F 123575		IN20N4-10W 123335		
	1250	IN20	65	IN20N4-12F 123576		IN20N4-12W 123336		
	1600	IN20	65	IN20N4-16F 123577		IN20N4-16W 123337		
	2000	IN20	65	IN20N4-20F 123578		IN20N4-20W 123338		
		IN32	65	IN32B4-20F 124080		IN32B4-20W 123790		
		IN32	85	IN32N4-20F 124120		IN32N4-20W 123830		
110	2500	IN32	65	IN32B4-25F 124081		IN32B4-25W 123791		
	2500	IN32	85	IN32N4-25F 124121		IN32N4-25W 123831		
	3200	IN32	65	IN32B4-32F 124082		IN32B4-32W 123792		
	3200	IN32	85	IN32N4-32F 124122		IN32N4-32W 123832		
138	4000	IN40	85	IN40N4-40F 124370		IN40N4-40W 124260		
		IN40	100	IN40H4-40F 124192		IN40H4-40W 124190		
		IN63	85	IN63N4-40F 124371		IN63N4-40W 124261		
		IN63	100	IN63H4-40F 124391		IN63H4-40W 124281		
210	3200	IN32	—	IN32S4-32F-1100V 123894		IN32S4-32W-1100V 123872		
217	5000	IN63	85	IN63N4-50F 124372		IN63N4-50W 124262		
	5000	IN63	100	IN63H4-50F 124392		IN63H4-50W 124282		
	6300	IN63	85	IN63N4-63F 124373		IN63N4-63W 124263		
	6300	IN63	100	IN63H4-63F 124393		IN63H4-63W 124283		

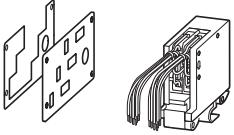
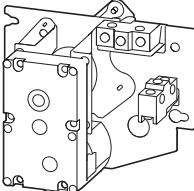


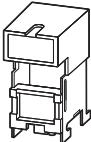
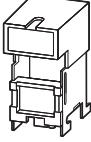
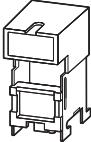
	Rated operational current I_n A	For use with	3 pole	Price See price list	4 pole	Price See price list	Std. pack
			Part no. Article no.		Part no. Article no.		
Withdrawable units							
Cassettes in combination with basic device Standard equipment: <ul style="list-style-type: none">• Arc chute cover• Coding between cassette and switch• Horizontal Connection• Door seal							
	≤ 1000	IZM20...W IN20...W	+IZM-CAS203-1000 124147		+IZM-CAS204-1000 124155		1 off
	≤ 2000	IZM20...W IN20...W	+IZM-CAS203-2000 122065		+IZM-CAS204-2000 122713		
	≤ 2000	IZM32...W IN32...W	+IZM-CAS323-2000 122066		+IZM-CAS324-2000 122714		
	≤ 2500	IZM32...W IN32...W	+IZM-CAS323-2500 124212		+IZM-CAS324-2500 124229		
	2500 - 3200	IZM32...W IN32...W	+IZM-CAS323-3200 122067		+IZM-CAS324-3200 122715		
Cassettes, ordered separately Standard components fitted to separately ordered cassette: <ul style="list-style-type: none">• Arc chute cover• Complete set of control circuit terminals• Coding between cassette and switch• Horizontal Connection• Door seal							
	≤ 1000	IZM20...W IN20...W	IZM-CAS203-1000 124107		IZM-CAS204-1000 124115		1 off
	≤ 2000	IZM20...W IN20...W	IZM-CAS203-2000 122855		IZM-CAS204-2000 122863		
	≤ 2000	IZM32...W IN32...W	IZM-CAS323-2000 122856		IZM-CAS324-2000 122864		
	≤ 2500	IZM32...W IN32...W	IZM-CAS323-2500 124123		IZM-CAS324-2500 124139		
	2500 - 3200	IZM32...W IN32...W	IZM-CAS323-3200 122857		IZM-CAS324-3200 122865		
	4000	IZM40...W IN40...W	IZM-CAS403-4000 122859		IZM-CAS404-4000 122867		
	4000	IZM63...W IN63...W	IZM-CAS633-4000 122860		IZM-CAS634-4000 122868		
	5000 - 6300	IZM63...W IN63...W	IZM-CAS633-6300 122861		IZM-CAS634-6300 122869		

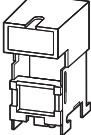
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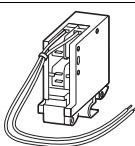
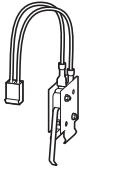
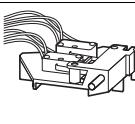
	Rated operational current I_n A	For use with	3 pole	Price See price list	4 pole	Price See price list	Std. pack
			Part no. Article no.		Part no. Article no.		
Withdrawable units							
Cassettes 1100 V in combination with basic device Standard equipment: <ul style="list-style-type: none">• Arc chute cover• Coding between cassette and switch• Horizontal Connection• Door seal							
	3200	IZM32...W-1100V IN32...W-1100V	+IZM-CAS323-3200-1100V 122712		+IZM-CAS324-3200-1100V 122720		1 off
Cassettes 1100 V, ordered separately Standard equipment: <ul style="list-style-type: none">• Arc chute cover• Complete set of control circuit terminals• Coding between cassette and switch• Horizontal Connection• Door seal							
	3200	IZM32...W-1100V IN32...W-1100V	IZM-CAS323-3200-1100V 122862		IZM-CAS324-3200-1100V 122870		1 off
Shutter (touch protection) When the switch is moved out of the CONNECT position, the shutters close automatically to cover the primary contacts.							
	-	IZM20...W IN20...W 122871	IZM-SH203 122721		IZM-SH204 122875		1 off
		IZM20...W IN20...W 122721	+IZM-SH203 122872		+IZM-SH204 122725		
		IZM32...W IN32...W 122872	IZM-SH323 122722		IZM-SH324 122876		
		IZM32...W IN32...W 122722	+IZM-SH323 122873		+IZM-SH324 122726		
		IZM40...W IN40...W 122873	IZM-SH403 122723		IZM-SH404 122877		
		IZM40...W IN40...W 122723	+IZM-SH403 122874		+IZM-SH404 122727		
		IZM63...W IN63...W 122874	IZM-SH633 122724		IZM-SH634 122878		
		IZM63...W IN63...W 122724	+IZM-SH633 122728		+IZM-SH634 122728		

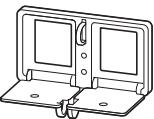


	For use with	Part no. Article no.	Price See price list	Std. pack	Notes
Position signalling switches		Part no. suffix " +IZM..." Article no. for ordering with basic device			
One module each with 4 changeover contacts is possible for indication of each position (extended, Test, retracted). Only one mounting plate is required per withdrawable unit. Each additional auxiliary contact (up to 3) requires 2 secondary terminal blocks IZM-SEC...; alternatively it can be wired directly to external terminals. If a shutter is used, mounting is possible on the right side only.					
	Four changeover contacts: One module without mounting plate Four changeover contacts: One module with mounting plate Eight changeover contacts: Two modules with mounting plate Twelve changeover contacts: Three modules with mounting plate	IZM20, 32, 40, 63...W IN20, 32, 40, 63...W	IZM-CS4 122879 IZM-CS4MB 122880 IZM-CS8MB 122881 IZM-CS12MB 122882	1 off	-
Motor drive					
The motor operator electrically tensions the spring-operated stored energy mechanism. For electrical remote On and Off switching, a closing release and a voltage release are required. A signaling switch labeled "Spring-operated stored energy mechanism tensioned" is included as standard.					
	-	IZM20, 32, 40, 63... IN20, 32, 40, 63...	IZM-M24DC 122927 +IZM-M24DC 122729 IZM-M48DC 122928 +IZM-M48DC 122730 IZM-M60DC 123093 +IZM-M60DC 123079 IZM-M110DC 122929 +IZM-M110DC 122731 IZM-M220DC 122930 +IZM-M220DC 122732 IZM-M110AC 122931 +IZM-M110AC 122733 IZM-M230AC 122932 +IZM-M230AC 122734	1 off	If ordered separately a secondary terminal block IZM-SEC-... is necessary for connection. Order separately if required. For terminal assignment, see page 77
Switching cycle counter					
Counts the number of On-Off operations. Can also be used without motor operator.					
	-	IZM20, 32, 40, 63... IN20, 32, 40, 63...	IZM-OC 122933 +IZM-OC 122735	1 off	-

	Rated control voltage U_s V	For use with	Part no. Article no.	Price See price list	Std. pack	Notes
Voltage releases			Part no. suffix "+IZM..." Article no. for ordering with basic device			
A closing release can be combined with a shunt release and an undervoltage release or with a second shunt release. (DF: 100%). Suited for uninterrupted operation, which ensures electrical interlocking in Off position.						
Shunt release						
	24 DC 24 DC 48 DC 48 DC 60 DC 60 DC 110 - 125 DC 110 - 127 AC 110 - 125 DC 110 - 127 AC 220 - 250 DC 208 - 240 AC 220 - 250 DC 208 - 240 AC	IZM20, 32, 40, 63... IN20, 32,40, 63...	IZM-ST24DC 122934 +IZM-ST24DC 122736 IZM-ST48DC 122935 +IZM-ST48DC 122737 IZM-ST60DC 122930 +IZM-ST60DC 123914 IZM-ST110AD 122936 +IZM-ST110AD 122738 IZM-ST230AD 122937 +IZM-ST230AD 122739		1 off	If ordered separately a secondary terminal block IZM-SEC... is necessary for connection. Order separately if required. For terminal assignment, see page 77
2nd shunt release Can not be combined with an undervoltage release.		24 DC 48 DC 60 DC 110 - 127 DC 110 - 127 AC 208 - 250 DC 208 - 250 AC	IZM20, 32, 40, 63... IN20, 32,40, 63...	+IZM-STS24DC 122740 +IZM-STS48DC 122741 +IZM-STS60DC 123922 +IZM-STS110AD 122742 +IZM-STS230AD 122743	1 off	If ordered separately a secondary terminal block IZM-SEC... is necessary for connection. Order separately if required. For terminal assignment, see page 77
Closing releases		24 DC 24 DC 48 DC 48 DC 60 VDC 60 VDC 110 - 125 DC 110 - 127 AC 110 - 125 DC 110 - 127 AC 220 - 250 DC 208 - 240 AC 220 - 250 DC 208 - 240 AC	IZM20, 32, 40, 63... IN20, 32,40, 63...	IZM-SR24DC 122942 +IZM-SR24DC 122744 IZM-SR48DC 122943 +IZM-SR48DC 122745 IZM-SR60DC 123954 +IZM-SR60DC 123938 IZM-SR110AD 122944 +IZM-SR110AD 122746 IZM-SR230AD 122945 +IZM-SR230AD 122747	1 off	If ordered separately a secondary terminal block IZM-SEC... is necessary for connection. Order separately if required. For terminal assignment, see page 77

	Rated control voltage U_s V	For use with	Part no. Article no.	Price See price list	Std. pack	Notes	
Voltage releases							
Undervoltage release Can not be combined with a second shunt release.							
	-	24 DC 24 DC 32 DC 32 DC 48 DC 48 DC 60 DC 60 DC 110 - 125 DC 110 - 125 DC 220 - 250 DC 220 - 250 DC 110 - 127 AC 110 - 127 AC 208 - 240 AC 208 - 240 AC 380 - 415 AC 380 - 415 AC	IZM20, 32, 40, 63... IN20, 32, 40, 63...	IZM-UVR24DC 122946 +IZM-UVR24DC 122748 IZM-UVR32DC 122947 +IZM-UVR32DC 122749 IZM-UVR48DC 122948 +IZM-UVR48DC 122750 IZM-UVR60DC 123970 +IZM-UVR60DC 123962 IZM-UVR110DC 122949 +IZM-UVR110DC 122751 IZM-UVR220DC 122950 +IZM-UVR220DC 122752 IZM-UVR110AC 122951 +IZM-UVR110AC 122753 IZM-UVR230AC 122952 +IZM-UVR230AC 122754 IZM-UVR400AC 122953 +IZM-UVR400AC 122755		1 off	If ordered separately a secondary terminal block IZM-SEC... is necessary for connection. Order separately if required. Terminal assignment page 77
Time delay modules For combination with an undervoltage release. Delay times: 0.1 s, 0.5 s, 1.0 s, 2.0 s							
	Only in combination with IZM-UVR110AC	120 AC	IZM20, 32, 40, 63... IN20, 32, 40, 63...	IZM-UVR-TD-120AC 122956	1 off	-	
	Only in combination with IZM-UVR230AC	230 AC		IZM-UVR-TD-230AC 122957	1 off		

	For use with	Part no. Article no.	Price See price list	Std. pack	Notes
		Part no. suffix "IZM..." Article no. for ordering with basic device			
Auxiliary contacts					
Standard auxiliary switch for On-Off signaling 2 NC contacts/N/O contacts are already contained in the basic device. Maximum for IZM20, IN20: 4 N/O or NC contacts (corresponds with an additional AS22). Maximum, for IZM32, IZM40, IZM63: 6 N/O or NC contacts (corresponds with an additional AS44). 6 N/O or NC contacts are possible only when no second shunt release is installed.					
	Additionally 2 NC contact/ N/O contact Additionally 4 NC contacts/ N/O contacts Additionally 2 NC contact/ N/O contact	IZM20, 32, 40, 63... IN20, 32, 40, 63...	+IZM-AS22 122758 +IZM-AS44 122759 IZM-AS22 122958	1 off	- Cannot be combined with a second shunt release; can not be combined with IZM20, IN20. If ordered separately a secondary terminal block IZM-SEC-... is necessary for connection. Order separately if required. Terminal assignment page 77
Latch check switch Latch check switch with one changeover contact.		-	IZM20, 32, 40, 63... IN20, 32, 40, 63...	+IZM-LCS-SR 122974 +IZM-LCS-SR 122760 IZM-LCS 122959 +IZM-LCS 122761	1 off for internal wiring with closing release for external keypad Indication
Rated control voltage U_s V	For use with	Part no. Article no.	Price See price list	Std. pack	Notes
		Part no. suffix "IZM..." Article no. for ordering with basic device			
Trip indication and reset options					
Trip-indicating auxiliary switch (OTS) Two changeover contacts		-	IZM20, 32, 40, 63...	+IZM-OTS 122960 +IZM-OTS 122762	1 off If ordered separately a secondary terminal block IZM-SEC-... is necessary for connection. Order separately if required. Terminal assignment page 77
Automatic reset The circuit-breaker is immediately ready to close again. Not fitted with mechanical trip indicator (red pin). Can not be combined with remote reset.	-	IZM20, 32, 40, 63...	+IZM-RA 122964 +IZM-RA 122766	1 off	-

	For use with	Part no. Article no.	Price See price list	Std. pack
		Part no. suffix "+IZM..." Article no. for ordering with basic device		
Locking facilities				
Padlockable cover of ON/OFF buttons ON-Off pushbutton cover sealable with lead seal and lockable with padlock.				
	Metal, On pushbutton blocked Plastic, On pushbutton blocked Metal Plastic	IZM20, 32, 40, 63... IN20, 32, 40, 63...	+IZM-PLPC-CB-M 125820 +IZM-PLPC-CB-P 125649 IZM-PLPC-M 122966 +IZM-PLPC-M 122768 IZM-PLPC-P 122965 +IZM-PLPC-P 122767	1 off
Key locking in safe Off				
CES installation kit, without lock cylinder and key Kirk installation kit, without lock cylinder and key Castell installation kit, without lock cylinder and key Ronis installation kit, without lock cylinder and key		IZM20, 32, 40, 63... IN20, 32, 40, 63...	IZM-KLP-SO-CES 122968 +IZM-KLP-SO-CES 122770 IZM-KLP-SO-KIRK 122969 +IZM-KLP-SO-KIRK 122771 IZM-KLP-SO-CASTELL 122970 +IZM-KLP-SO-CASTELL 122772 IZM-KLP-SO-RONIS 122971 +IZM-KLP-SO-RONIS 122773	1 off
Cassette key locking facility This device is fitted to the cassette and prevents a switch being switched on in its operating (Connected) position.				
Installation on right, without lock cylinder and key Installation on left, without lock cylinder and key		IZM20, 32, 40, 63...W IN20, 32, 40, 63...W	IZM-KLP-CASS-R 122972 IZM-KLP-CASS-L 122973	1 off 1 off



	For use with	Part no. Article no.	Price See price list	Std. pack
Locking facilities				
Mechanical interlock, fixed mounting				
Type 2, for 2 circuit-breakers: A normal power supply (A) and an emergency mains supply (B). 1 set of cables also required.	IZM20, 32, 40, 63...F IN20, 32, 40, 63...F	IZM-MIL2C-F 122980		1 off
Type 31, for 3 circuit-breakers: Two normal power supplies (A, C) and an emergency network supply (B). When B is Off, A and C can be switched on. B can be switched on only when A and C are in Off. Two sets of cables required in addition.		IZM-MIL31C-F 122981		
Type 32, for 3 circuit-breakers: Two normal power supplies (A, C) and a coupling (B). Any one or two circuit-breakers can be closed at the same time. Three sets of cables are required in addition.		IZM-MIL32C-F 122982		
Type 33, for 3 circuit-breakers: Three power supplies (A, B, C), normal or emergency network. Only one of the three circuit-breakers can be switched on at any one time. Three sets of cables are required in addition.		IZM-MIL33C-F 122983		
Mechanical interlock, withdrawable units				
Type 2, for 2 circuit-breakers: A normal power supply (A) and an emergency network supply (B). 1 set of cables also required.	IZM20, 32, 40, 63...W IN20, 32, 40, 63...W	IZM-MIL2C-W 122985		1 off
Type 31, for 3 circuit-breakers: Two normal power supplies (A, C) and an emergency network supply (B). When B is Off, A and C can be switched on. B can be switched on only when A and C are in Off. Two sets of cables required in addition.		IZM-MIL31C-W 122986		
Type 32, for 3 circuit-breakers: Two normal power supplies (A, C) and a coupling (B). Any one or two circuit-breakers can be closed at the same time. Three sets of cables are required in addition.		IZM-MIL32C-W 122987		
Type 33, for 3 circuit-breakers: Three power supplies (A, B, C), normal or emergency network. Only one of the three circuit-breakers can be switched on at any one time. Three sets of cables are required in addition.		IZM-MIL33C-W 122988		
Cable sets for mechanical interlock				
Depending on the type of interlock, a particular number of cable connectors is required. With the flexible cable connectors, various different switch arrangements can be implemented. Each set contains two cables.				
1520 mm long	IZM20, 32, 40, 63... IN20, 32, 40, 63...	IZM-MIL-CAB1520 122975		1 off
1830 mm long		IZM-MIL-CAB1830 122976		
2440 mm long		IZM-MIL-CAB2440 122977		
3050 mm long		IZM-MIL-CAB3050 122978		

Instruction

For possible switching states, → Page 77

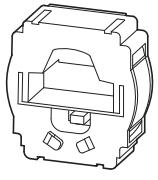


	Rated control voltage U _s V	For use with	Part no. Article no.	Price See price list	Std. pack	Notes
Options and accessories for electronic releases			Part no. suffix "+IZM..." Article no. for ordering with basic device			
One of the following overcurrent releases (DT = Digitrip) is supplied as standard with every IZM circuit-breaker:						
<ul style="list-style-type: none"> • Type A: DT-520LI • Type V: DT-520LSI • Type U: DT-520MC • Type P: DT-1150 						
Trip unit for Type A circuit-breaker (equipped with Digitrip 520LI)						
System protection		IZM...-A... (Digitrip 520LI)	IZM-DTA 122774		1 off	
Trip unit for Type V circuit-breaker (equipped with Digitrip 520LSI)						
Selectivity protection		IZM...-V... (Digitrip 520MC)	IZM-DTV 122775		1 off	
Add-on function for Type V circuit-breaker						
Ground fault protection	—	IZM...-V... (Digitrip 520LSI)	+IZM-DTV-EP 122776		1 off	—
Trip unit for Type U circuit-breaker (equipped with Digitrip 520M)						
Universal protection		IZM...-U... (Digitrip 520LSI)	IZM-DTU 122777		1 off	
Type U contains the following as standard:						
<ul style="list-style-type: none"> • Communication interface • Overload alarm with signalling contact • Prepared for external 24/48 V DC supply (e.g. for display) • (A14 = +24 VDC/A15 = -24 VDC) 						
Only one of the following three options can be selected at a time:						
Ground-fault protection, ground-fault alarm or overload alarm.						
For fieldbus communications an interface module IZM-PMINT/IZM-MMINT is required in addition.						
	240 AC	IZM...-U... (Digitrip 520MC)	+IZM-DTU-HA2 122779		1 off	Not in combination with ground-fault protection or alarm
With ground-fault protection instead of overload alarm, prepared for 24/48 V DC.	24/48 DC		+IZM-DTU-EP 122780		1 off	Not in combination with overload or ground-fault alarm
With ground-fault protection instead of overload alarm, prepared for 240 V AC.	240 AC		+IZM-DTU-EP2 122782		1 off	Not in combination with overload or ground-fault alarm
With ground-fault alarm instead of overload alarm, prepared for 24/48 V DC.	24/48 DC		+IZM-DTU-EA 122783		1 off	Not in combination with overload alarm or ground-fault protection
With ground-fault alarm instead of overload alarm, prepared for 240 V AC.	240 AC		+IZM-DTU-EA2 122785		1 off	Not in combination with overload alarm or ground-fault protection
Through a simple, reliable means, the ARMS (Arcflash Reduction Maintenance System™) function can reduce the Off time for enhanced safety. Must be specifically activated.	—		+IZM-DTU-ARMS 122791		1 off	—
NC-reduced: The Type U electronics are supplied without communications interface.	—		+IZM-DTU-NC 122790		1 off	Cannot be combined with: <ul style="list-style-type: none"> • IZM-DTU-NPC • IZM-DTU-ARMS
NPC-reduced: The Type U electronics are supplied without communications interface and without interface to the external supply.	—		+IZM-DTU-NPC 122788		1 off	Only in combination with IZM-DTU-EP. Can not be combined with other options.

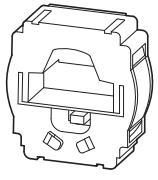
	Rated control voltage U _s V	For use with	Part no. Article no.	Price See price list	Std. pack
			Part no. suffix "+IZM..."	Article no. for ordering with basic device	
Options and accessories for electronic releases					
Trip unit for Type P circuit-breakers					
Power measurement		Izm...-P... (Digitrip 1150)	IZM-DTP 122894		1 off
Type P contains the following as standard:					
• Power measurement					
• Communication interface					
• Overload alarm with signalling contact					
• Prepared for external 24/48 V DC supply (e.g. for display)					
• (A14 = +24 VDC/A15 = -24 VDC).					
Ground-fault protection and alarm are combined in a single option (IZM-DTP-EPA), which can be combined with overload alarm.					
For field bus communications a corresponding interface module IZM-PMINT/IZM-MMINT is required in addition.					
Add-on function for Type P circuit-breaker					
With overload alarm, prepared for external 240 V AC supply instead of 24/48 V DC.	240 AC	Izm...-P... (Digitrip 1150)	+IZM-DTP2 122906		1 off
With additional ground-fault protection and alarm, prepared for 24/48 V DC.	24/48 DC		+IZM-DTP-EPA 122915		
With additional ground-fault protection and alarm, prepared for 240 V AC.	240 AC		+IZM-DTP-EPA2 122938		
Through a simple, reliable means, the ARMS (Arcflash Reduction Maintenance System™) function can reduce the Off time for enhanced safety. Must be specifically activated.	–		+IZM-DTP-ARMS 122939		
Voltage tap on power supply at bottom: Internally, voltage is tapped at the lower (instead of the upper) contacts. Voltage tapping is relevant for power monitoring.	–		+IZM-DTP-PFBT 122990		
TripLink transmits all protection parameters from one switch to the other, for example when replacing a device for maintenance.	–		IZM-DTP-TL 122989		
Digital relay module for circuit-breakers (Type P) power measurement			IZM-DTP-RM 101534		

	Rated control voltage U _s V	For use with	Part no. Article no.	Price See price list	Std. pack
Communication modules					
Fieldbus interfaces for Digitrip IZM-....-U... and IZM-....-P...					
The PROFINET communication interface is mounted on top-hat rails.	–	IZM-....-U... (Digitrip 520MC) IZM-....-P... (Digitrip 1150)	IZM-PMINT 124235		1 off
The Modbus communication interface is mounted on top-hat rails.			IZM-MMINT 124236		1 off
Hand held test unit for Digitrip	Izm...-A... (Digitrip 520LI) Izm...-V... (Digitrip 520LSI) Izm...-U... (Digitrip 520M)	Testing device for IZM26	IZM-SIM-KIT 101535		1 off

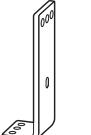
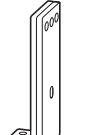
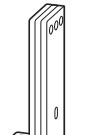


Rated operational current I_n A	For use with	3 pole Part no. Article no. Part no. suffix "+IZM..." Article no. for ordering with basic device	Price See price list	4 pole Part no. Article no. Part no. suffix "+IZM..." Article no. for ordering with basic device	Price See price list	Std. pack
Rating plug sensor and current transformer						
This combination is required when a circuit-breaker's rated operational current is to be reduced.						
	200	IZM20... 800 A ≤ I_u ≤ 2000 A	IZM-RP203-200 122995		IZM-RP204-200 123026	
	200	IZM20... 800 A ≤ I_u ≤ 2000 A	+IZM-RP203-200 122793		+IZM-RP204-200 122824	
	250	IZM20... 800 A ≤ I_u ≤ 2000 A	IZM-RP203-250 122996		IZM-RP204-250 123027	
	250	IZM20... 800 A ≤ I_u ≤ 2000 A	+IZM-RP203-250 122794		+IZM-RP204-250 122825	
	300	IZM20... 800 A ≤ I_u ≤ 2000 A	IZM-RP203-300 122997		IZM-RP204-300 123028	
	300	IZM20... 800 A ≤ I_u ≤ 2000 A	+IZM-RP203-300 122795		+IZM-RP204-300 122826	
	400	IZM20... 800 A ≤ I_u ≤ 2000 A	IZM-RP203-400 122998		IZM-RP204-400 123029	
	400	IZM20... 800 A ≤ I_u ≤ 2000 A	+IZM-RP203-400 122796		+IZM-RP204-400 122827	
	630	IZM20... 800 A ≤ I_u ≤ 2000 A	IZM-RP203-630 122999		IZM-RP204-630 123030	
	630	IZM20... 800 A ≤ I_u ≤ 2000 A	+IZM-RP203-630 122797		+IZM-RP204-630 122828	
	800	IZM20... 800 A ≤ I_u ≤ 2000 A	IZM-RP203-800 123000		IZM-RP204-800 123031	
	800	IZM20... 800 A ≤ I_u ≤ 2000 A	+IZM-RP203-800 122798		+IZM-RP204-800 122829	
	1000	IZM20... 1000 A ≤ I_u ≤ 2000 A	IZM-RP203-1000 123001		IZM-RP204-1000 123032	
	1000	IZM20... 1000 A ≤ I_u ≤ 2000 A	+IZM-RP203-1000 122799		+IZM-RP204-1000 122830	
	1250	IZM20... 1250 A ≤ I_u ≤ 2000 A	IZM-RP203-1250 123002		IZM-RP204-1250 123033	
	1250	IZM20... 1250 A ≤ I_u ≤ 2000 A	+IZM-RP203-1250 122800		+IZM-RP204-1250 122831	
	1600	IZM20... 1600 A ≤ I_u ≤ 2000 A	IZM-RP203-1600 123003		IZM-RP204-1600 123034	
	1600	IZM20... 1600 A ≤ I_u ≤ 2000 A	+IZM-RP203-1600 122801		+IZM-RP204-1600 122832	
	2000	IZM20... 2000 A	IZM-RP203-2000 123004		IZM-RP204-2000 123035	
	200	IZM32... 800 A ≤ I_u ≤ 3200 A	IZM-RP323-200 123005		IZM-RP324-200 123036	
	200	IZM32... 800 A ≤ I_u ≤ 3200 A	+IZM-RP323-200 122803		+IZM-RP324-200 122834	
	250	IZM32... 800 A ≤ I_u ≤ 3200 A	IZM-RP323-250 123006		IZM-RP324-250 123037	
	250	IZM32... 800 A ≤ I_u ≤ 3200 A	+IZM-RP323-250 122804		+IZM-RP324-250 122835	
	300	IZM32... 800 A ≤ I_u ≤ 3200 A	IZM-RP323-300 123007		IZM-RP324-300 123038	
	300	IZM32... 800 A ≤ I_u ≤ 3200 A	+IZM-RP323-300 122805		+IZM-RP324-300 122836	
	400	IZM32... 800 A ≤ I_u ≤ 3200 A	IZM-RP323-400 123008		IZM-RP324-400 123039	
	400	IZM32... 800 A ≤ I_u ≤ 3200 A	+IZM-RP323-400 122806		+IZM-RP324-400 122837	
	630	IZM32... 800 A ≤ I_u ≤ 3200 A	IZM-RP323-630 123009		IZM-RP324-630 123040	
	630	IZM32... 800 A ≤ I_u ≤ 3200 A	+IZM-RP323-630 122807		+IZM-RP324-630 122838	
	800	IZM32... 800 A ≤ I_u ≤ 3200 A	IZM-RP323-800 123010		IZM-RP324-800 123041	
	800	IZM32... 800 A ≤ I_u ≤ 3200 A	+IZM-RP323-800 122808		+IZM-RP324-800 122839	

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Rated operational current I_n A	For use with	3 pole	Price See price list	4 pole	Price See price list	Std. pack
		Part no. Article no.		Part no. Article no.	Part no. suffix "+IZM..." Article no. for ordering with basic device	
Rating plug sensor and current transformer						
This combination is required when a circuit-breaker's rated operational current is to be reduced.						
	1000	IZM32... 1000 A $\leq I_u \leq$ 3200 A	IZM-RP323-1000 123011		IZM-RP324-1000 123042	
	1000	IZM32... 1000 A $\leq I_u \leq$ 3200 A	+IZM-RP323-1000 122809		+IZM-RP324-1000 122840	
	1250	IZM32... 1250 A $\leq I_u \leq$ 3200 A	IZM-RP323-1250 123012		IZM-RP324-1250 123043	
	1250	IZM32... 1250 A $\leq I_u \leq$ 3200 A	+IZM-RP323-1250 122810		+IZM-RP324-1250 122841	
	1600	IZM32... 1600 A $\leq I_u \leq$ 3200 A	IZM-RP323-1600 123013		IZM-RP324-1600 123044	
	1600	IZM32... 1600 A $\leq I_u \leq$ 3200 A	+IZM-RP323-1600 122811		+IZM-RP324-1600 122842	
	2000	IZM32... 2000 A $\leq I_u \leq$ 3200 A	IZM-RP323-2000 123014		IZM-RP324-2000 123045	
	2000	IZM32... 2000 A $\leq I_u \leq$ 3200 A	+IZM-RP323-2000 122812		+IZM-RP324-2000 122843	
	2500	IZM32... 2500 A $\leq I_u \leq$ 3200 A	IZM-RP323-2500 123015		IZM-RP324-2500 123046	
	2500	IZM32... 2500 A $\leq I_u \leq$ 3200 A	+IZM-RP323-2500 122813		+IZM-RP324-2500 122844	
	3200	IZM32... 3200 A	IZM-RP323-3200 123016		IZM-RP324-3200 123047	
	2000	IZM40... 2000 A $\leq I_u \leq$ 4000 A	IZM-RP403-2000 123017		IZM-RP404-2000 123048	
	2000	IZM40... 2000 A $\leq I_u \leq$ 4000 A	+IZM-RP403-2000 122815		+IZM-RP404-2000 122846	
	2500	IZM40... 2500 A $\leq I_u \leq$ 4000 A	IZM-RP403-2500 123018		IZM-RP404-2500 123049	
	2500	IZM40... 2500 A $\leq I_u \leq$ 4000 A	+IZM-RP403-2500 122816		+IZM-RP404-2500 122847	
	3200	IZM40... 3200 A $\leq I_u \leq$ 4000 A	IZM-RP403-3200 123019		IZM-RP404-3200 123050	
	3200	IZM40... 3200 A $\leq I_u \leq$ 4000 A	+IZM-RP403-3200 122817		+IZM-RP404-3200 122848	
	4000	IZM40... 4000 A	IZM-RP403-4000 122802		IZM-RP404-4000 122814	
	2000	IZM63... 4000 A	IZM-RP633-2000 124244		IZM-RP634-2000 124321	
	2000	IZM63... 4000 A	+IZM-RP633-2000 124319		+IZM-RP634-2000 124264	
	2500	IZM63... 4000 A $\leq I_u \leq$ 5000 A	IZM-RP633-2500 124320		IZM-RP634-2500 124211	
	2500	IZM63... 4000 A $\leq I_u \leq$ 5000 A	+IZM-RP633-2500 124209		+IZM-RP634-2500 124299	
	3200	IZM63... 4000 A $\leq I_u \leq$ 6300 A	IZM-RP633-3200 124210		IZM-RP634-3200 124322	
	3200	IZM63... 4000 A $\leq I_u \leq$ 6300 A	+IZM-RP633-3200 124374		+IZM-RP634-3200 124354	
	4000	IZM63... 4000 A $\leq I_u \leq$ 6300 A	IZM-RP633-4000 123023		IZM-RP634-4000 123054	
	4000	IZM63... 4000 A $\leq I_u \leq$ 6300 A	+IZM-RP633-4000 122821		+IZM-RP634-4000 122852	
	5000	IZM63... 5000 A $\leq I_u \leq$ 6300 A	IZM-RP633-5000 123024		IZM-RP634-5000 123055	
	5000	IZM63... 5000 A $\leq I_u \leq$ 6300 A	+IZM-RP633-5000 122822		+IZM-RP634-5000 122853	
	6300	IZM63... 6300 A	IZM-RP633-6300 123025		IZM-RP634-6300 123056	

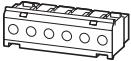
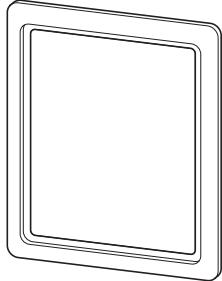
Rated operational current I_h A	For use with	Part no. Article no.	Price See price list	Std. pack
Current sensors for Neutral conductor				
For neutral conductor protection or comprehensive ground-fault protection of 3 pole circuit-breakers an external converter is required for current monitoring in the neutral conductor.				
200	IZM20... IZM32...	IZM-CTN-200 123057		
250	IZM20... IZM32...	IZM-CTN-250 123058		
300	IZM20... IZM32...	IZM-CTN-300 123059		
400	IZM20... IZM32...	IZM-CTN-400 123060		
630	IZM20... IZM32...	IZM-CTN-630 123061		
800	IZM20... IZM32...	IZM-CTN-800 123062		
1000	IZM20... IZM32...	IZM-CTN-1000 123063		
1250	IZM20... IZM32...	IZM-CTN-1250 123064		
1600	IZM20... IZM32...	IZM-CTN-1600 123065		
2000	IZM20... IZM32...	IZM-CTN-2000 123066		
2500	IZM32...	IZM-CTN-2500 123067		
3200	IZM32...	IZM-CTN-3200 123068		
4000	IZM40... IZM63...	IZM-CTN-4000 123069		
5000	IZM63...	IZM-CTN-5000 123070		
6300	IZM63...	IZM-CTN-6300 123071		

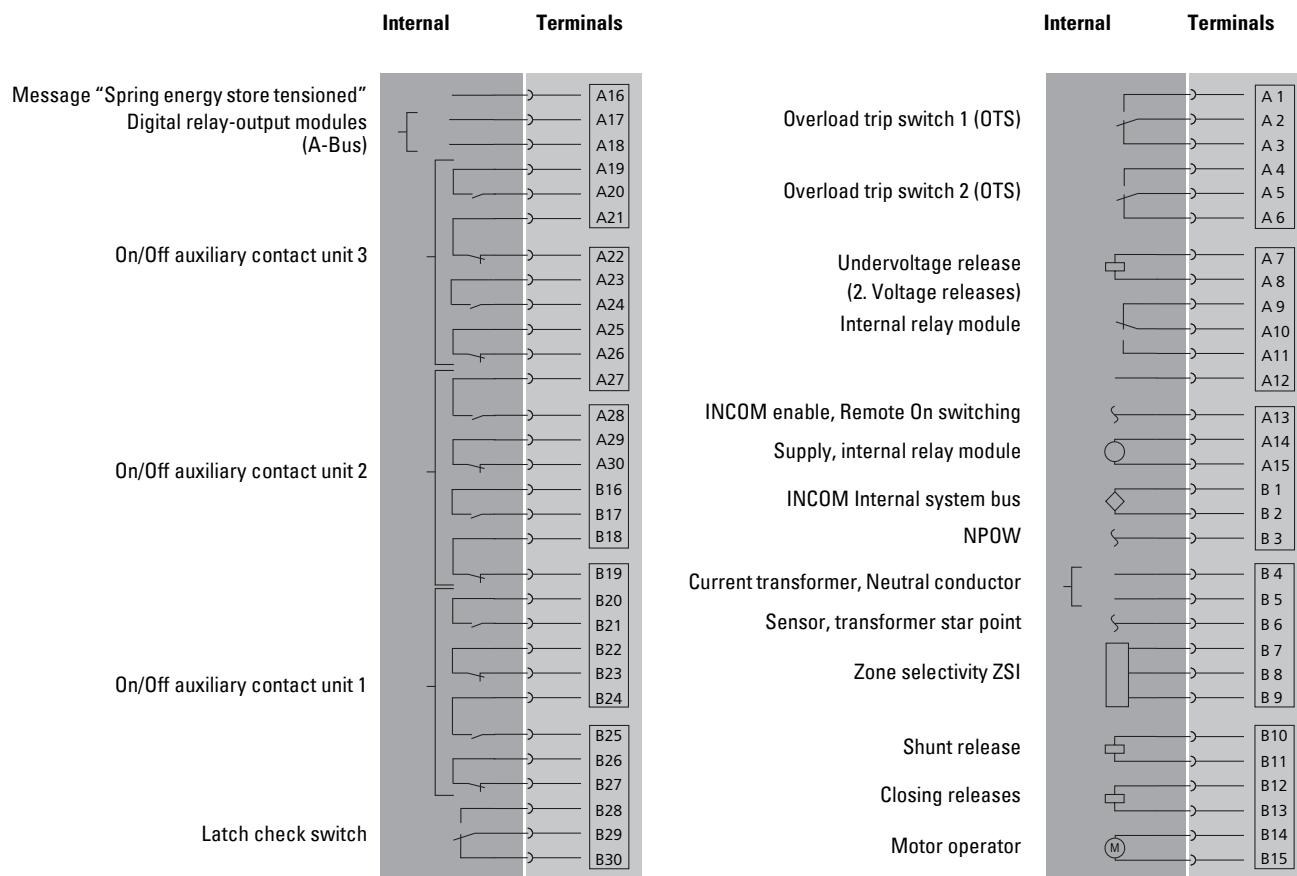
Rated operational current I _n A	Rated ultimate short-circuit breaking capacity I _{cu} kA	Pole	For use with	Part no. Article no.	Price See price list	Std. pack
Main terminal kits						
Each basic device of the IZM26 series is supplied with horizontal connections as standard. ¹⁾						
Vertical connections for fixed mounting or cassette						
	≤ 2000	≤ 65	3	IZM20... IN20...	IZM-TV203N-2000 123072	1 off
	4000	≤ 100	3	IZM40... IN40...	IZM-TV403H-4000 123081	
	≤ 2000	≤ 65	4	IZM20... IN20...	IZM-TV204N-2000 123086	
	4000	≤ 100	4	IZM40... IN40...	IZM-TV404H-4000 123095	
	≤ 1600	≤ 65	3	IZM32... IN32...	IZM-TV323B-1600 123074	
	≤ 2000	≤ 100	3	IZM32B...20 IN32B...20 IZM32H..., IN32H...	IZM-TV323H-2000 123075	
	2500 - 3200	100	3	IZM32... IN32...	IZM-TV323H-3200 123077	
	≤ 1600	≤ 65	4	IZM32... IN32...	IZM-TV324B-1600 123088	
	≤ 2000	≤ 100	4	IZM32B...20 IN32B...20 IZM32H..., IN32H...	IZM-TV324H-2000 123089	
	2500 - 3200	100	4	IZM32... IN32...	IZM-TV324H-3200 123091	
	4000	100	3	IZM63... IN63...	IZM-TV633H-4000 123082	
	5000 - 6300	100	3	IZM63... IN63...	IZM-TV633H-6300 123084	
	4000	100	4	IZM63... IN63...	IZM-TV634H-4000 123096	
	5000 - 6300	100	4	IZM63... IN63...	IZM-TV634H-6300 123098	
Front connections for fixed mounting or cassette						
	≤ 1250	≤ 65	3	IZM20... IN20...	IZM-TF203N-1250 123100	1 off
	≤ 1250	≤ 65	4	IZM20... IN20...	IZM-TF204N-1250 123108	
	1600 - 2000	≤ 65	3	IZM20... IN20...	IZM-TF203N-2000 123102	
	4000	≤ 100	3	IZM40... IN40... IZM63N(H)3...40 ²⁾	IZM-TF403H-4000 123107	
	≤ 2000	≤ 65	4	IZM20... IN20...	IZM-TF204N-2000 123110	
	4000	≤ 100	4	IZM40... IN40... IZM63N(H)4...40 ²⁾	IZM-TF404H-4000 123115	
	≤ 1250	≤ 65	3	IZM32B... IN32B...	IZM-TF323B-1250 124225	
	1600 - 2500	≤ 65	3	IZM32B... IN32B...	IZM-TF323B-2500 123104	
	≤ 3200	≤ 100	3	IZM32B...32... IN32B...32... IZM32N..., IN32N... IZM32H..., IN32H... IZM63N(H)3...50 (63) ²⁾	IZM-TF323H-3200 123105	
	≤ 1250	≤ 65	4	IZM32B... IN32B...	IZM-TF324B-1250 124280	
	≤ 2500	≤ 65	4	IZM32B... IN32B...	IZM-TF324B-2500 123112	
	≤ 3200	≤ 100	4	IZM32B...32... IN32B...32... IZM32N..., IN32N... IZM32H..., IN32H... IZM63N(H)4...50 (63) ²⁾	IZM-TF324H-3200 123113	

Notes¹⁾ For 3 pole switches: 6 off; for 4 pole switches: 8 off.

IZM40: For 3 pole switches: 12 off, for 4 pole switches: 16 off

²⁾ For use with this type, you must order the corresponding article twice.

	Rated control voltage U _s V	For use with	Part no. Article no.	Price See price list	Std. pack
General accessories					
Control circuit terminal, 2 blocks Two terminal blocks, each for six control circuit terminals, complete with labels; AMP tool (AMP No. 305183) and internal wiring.	–	IZM20, 32, 40, 63... IN20, 32, 40, 63...	IZM-SEC-TB2 123116		1 off
					
Control circuit terminal, 15 blocks 15 terminal blocks, each for six control circuit terminals, with labels. Order wiring set separately.	–	IZM20, 32, 40, 63... IN20, 32, 40, 63...	IZM-SEC-TB15 123117		1 off
					
Wiring set for control circuit terminals Wiring material (built into switch), 90 wires for 15 terminal blocks.	–	IZM20, 32, 40, 63... IN20, 32, 40, 63...	IZM-SEC-WR90 122789		1 off
Spare door escutcheon, IP41 Spare part; the door escutcheon is supplied as standard with the basic unit or cassette.	–	IZM20, 32, 40, 63... IN20, 32, 40, 63...	IZM-DEG 122925		1 off
					
Protective cover, IP55	–	IZM20, 32, 40, 63... IN20, 32, 40, 63...	IZM-DC 122926		1 off
Lifting yoke for lifting Consists of two specially shaped steel hooks that engage in the molded lifting handles in the basic unit of the switch closure.	3 3 3 3 4 4 4 4	IZM20... IN20... IZM32... IN32... IZM40... IN40... IZM63... IN63... IZM20... IN20... IZM32... IN32... IZM40... IN40... IZM63... IN63...	IZM203-8651C91G09 124237 IZM323-8651C91G02 124239 IZM403-2A10886G03 124241 IZM633-8651C91G05 124243 IZM204-8651C91G10 124238 IZM324-8651C91G07 124240 IZM404-2A10886G07 124242 IZM634-8651C91G08 124245		1 off
Trolley Allows lifting of the switch basic unit in combination with the lifting yoke.	–	IZM20, 32, 40, 63... IN20, 32, 40, 63...	IZM-6727D63H20 124246		1 off
					

**Switching states at mechanical interlock**

Mechanical interlock	Possible switching states		
	Switch A	Switch B	
Part no. 2	0	0	
	1	0	
	0	1	
Part no. 31	Switch A	Switch B	Switch C
	0	0	0
	1	0	0
	0	1	0
	0	0	1
	1	0	1
Part no. 32	Switch A	Switch B	Switch C
	0	0	0
	1	0	0
	0	1	0
	0	0	1
	1	1	0
	0	1	1
	1	0	1
Part no. 33	Switch A	Switch B	Switch C
	0	0	0
	1	0	0
	0	1	0
	0	0	1



IZM26...A...Tripping characteristics for selective protection

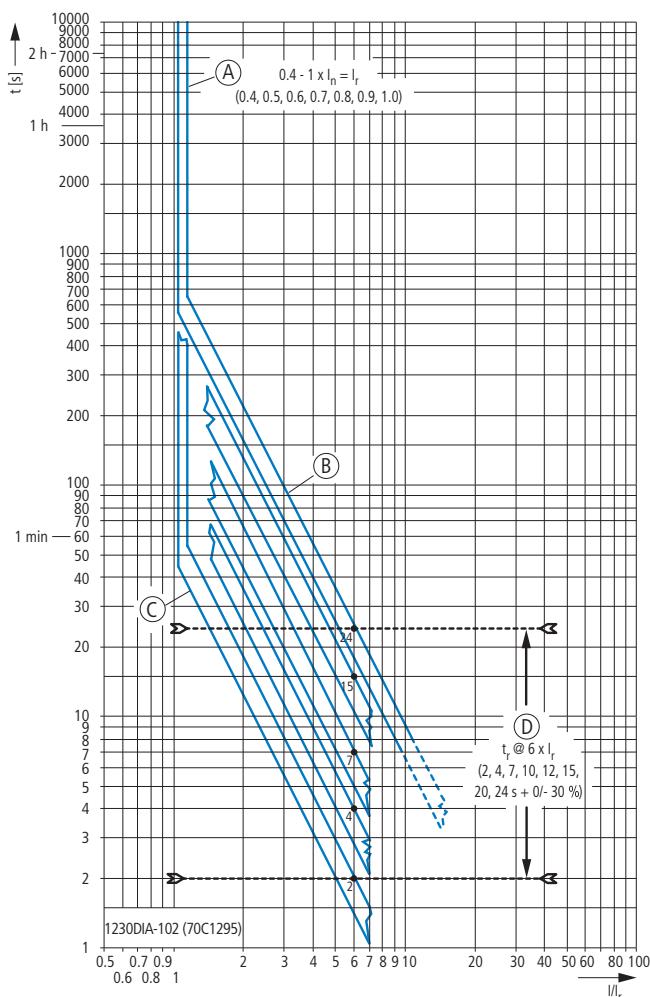
Overload protection (L) and non-delayed short-circuit protection (I)

L-Protection: Adjustable

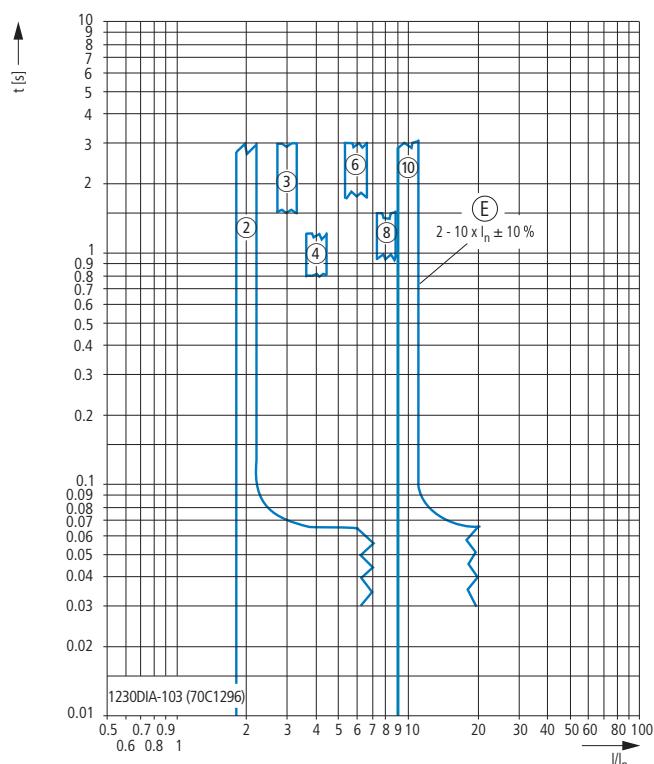
See Notes 1, 2, 3.

I-protection: Adjustable

See Notes 3, 4, 5, 6, 7.

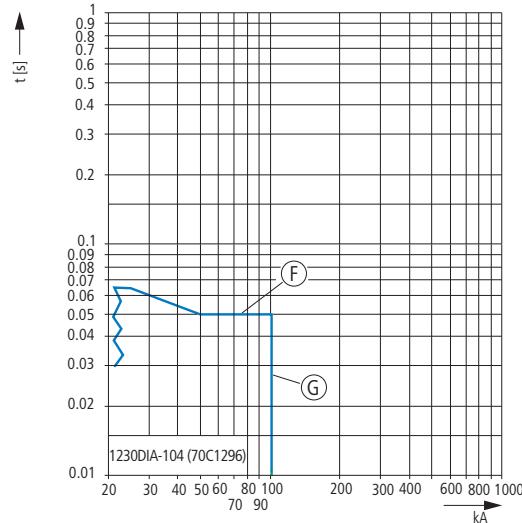


- A Set values for overload protection
- B Maximum total opening delay
- C Minimum total opening delay
- D Set values for long delay



- E Set values for short-time delayed short-circuit protection

I-protection: For high short-circuit currents
See Notes 3, 4, 5, 6, 7.



- F Set values for short-time delayed short-circuit protection with flat characteristic curve
- G The end of the characteristic curve is determined by the type of application and the switching capacity of the selected switch.

IZM26...V(U)... Tripping characteristics for selectivity protection and universal protection

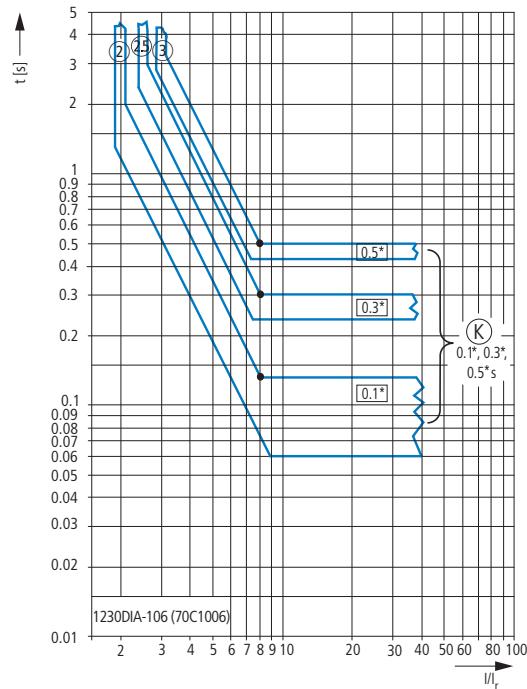
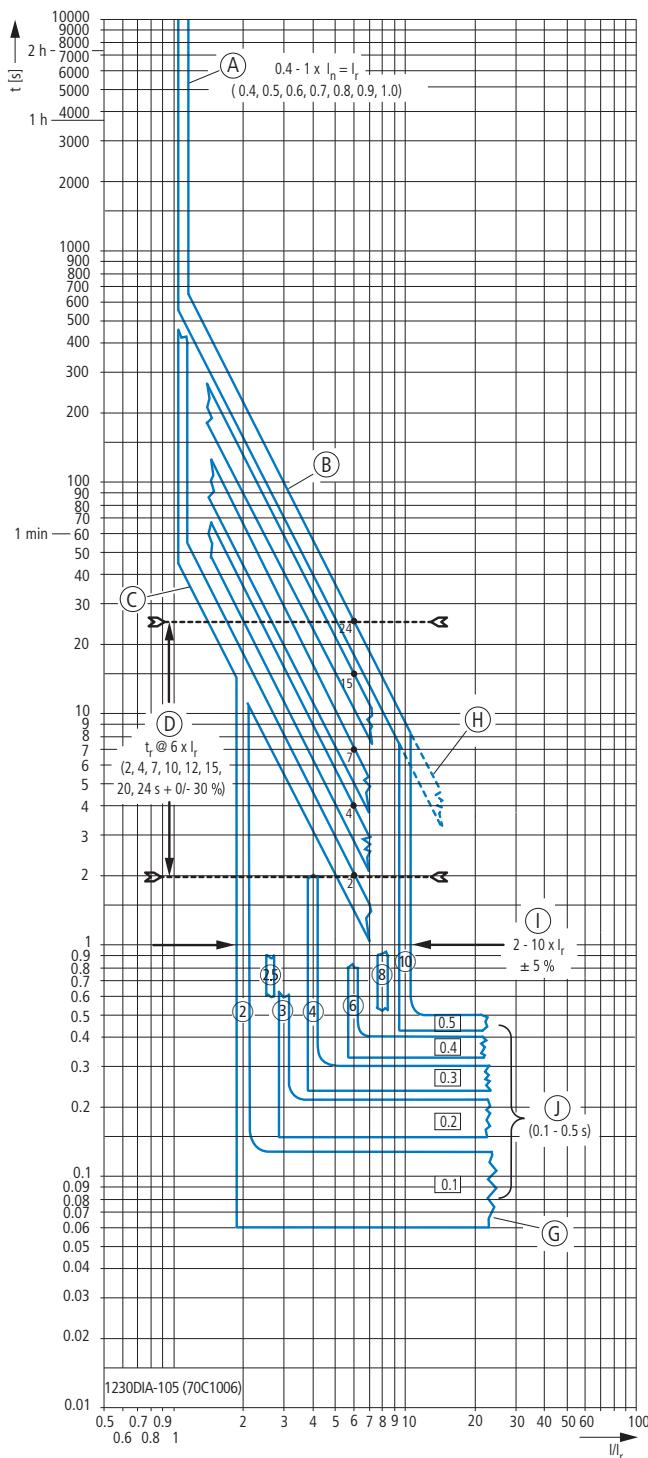
Overload protection (L) and short-time delayed short-circuit protection (S)

L-Protection: I^2t characteristic curve and S protection: flat characteristic curve

See Notes 1, 3, 4, 6, 7, 8, 9, 10.

S protection: I^2t characteristic curve

See Notes 1, 3, 4, 6, 7, 8, 9, 10.



- A Set values for overload protection
B Maximum total opening delay
C Minimum total opening delay
D Set values for long delay
G The end of the characteristic curve is determined by the type of application and the switching capacity of the selected switch.
H The characteristic curve for the overload release can extend up to the M1 set value.
I Available set values for short-time delayed short-circuit protection I_{sd}
J Short-circuit release for very high currents

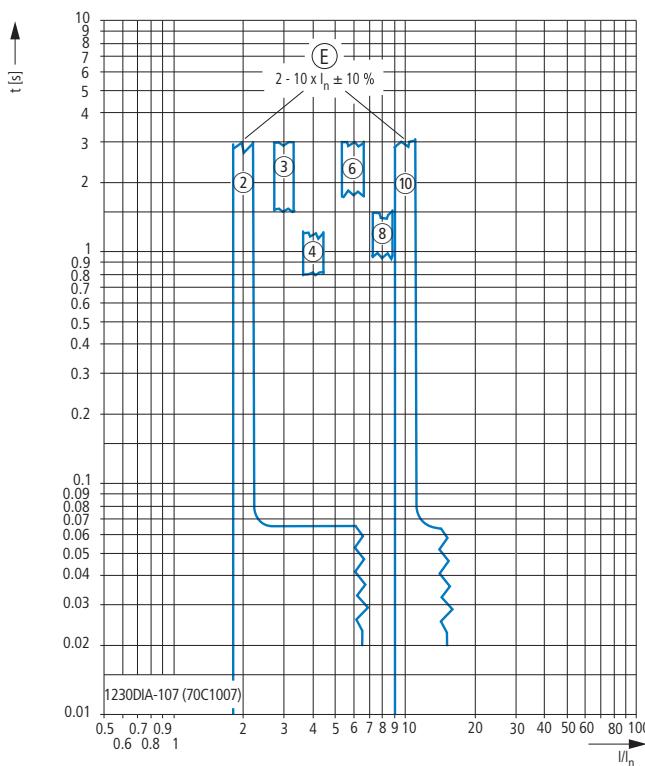


IZM26...V(U)... Tripping characteristics for selectivity protection and universal protection

Non-delayed short-circuit protection (I)

I-protection: Adjustable

See Notes 4, 5, 6, 7, 11, 12.

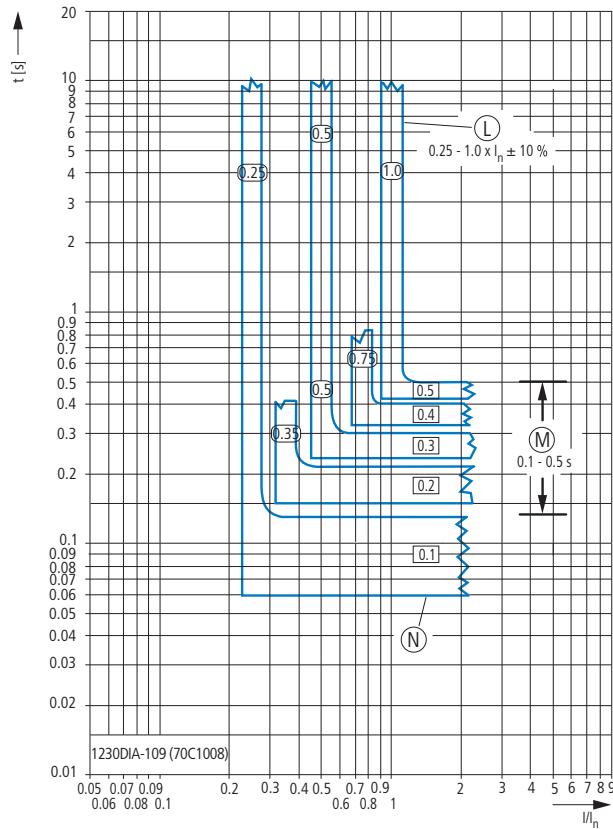


E Set values for short-time delayed short-circuit protection

IZM26...V(U)... Option ground-fault protection +IZM-DTV(U)-E...

G: Ground fault protection, flat characteristic curve

See Notes 4, 6, 13, 14, 15, 16, 17.



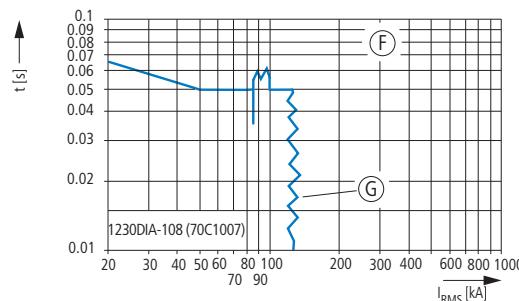
L Set values for ground-fault protection

M Set values for ground-fault protection delay at flat characteristic curve

N Flat characteristic curve for the delay time fault protection

I-protection: For high short-circuit currents

See Notes 4, 5, 6, 7, 11, 12.



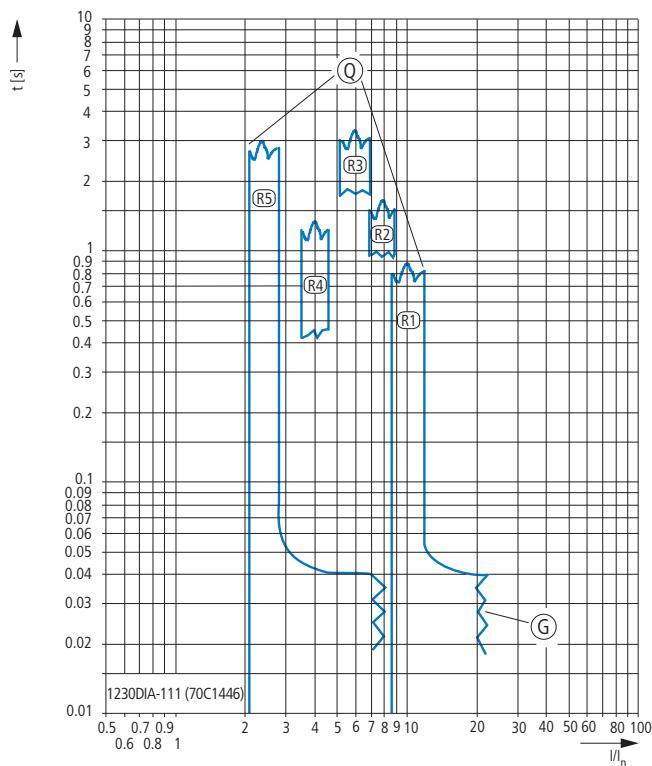
F Set values for short-time delayed short-circuit protection with flat characteristic curve

G The end of the characteristic curve is determined by the type of application and the switching capacity of the selected switch.

IZM26...U... Option Maintenance mode option +IZM-DTU-ARMS

ARMS-maintenance mode

See Notes 4, 6, 12, 18, 19, 20, 21.



- G The end of the characteristic curve is determined by the type of application and the switching capacity of the selected switch.
- Q Set values for maintenance mode (ARMS):
 - R5 = max. reduction,
 - R1 = min. reduction

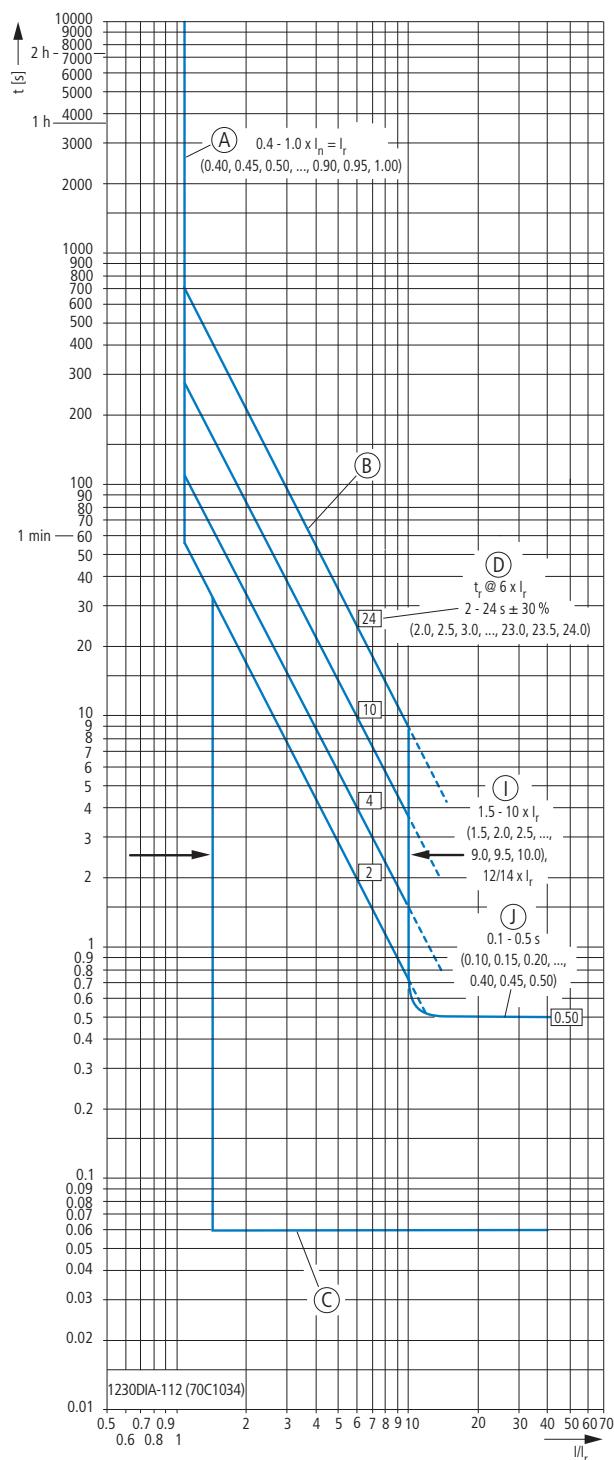


IZM26 tripping characteristics

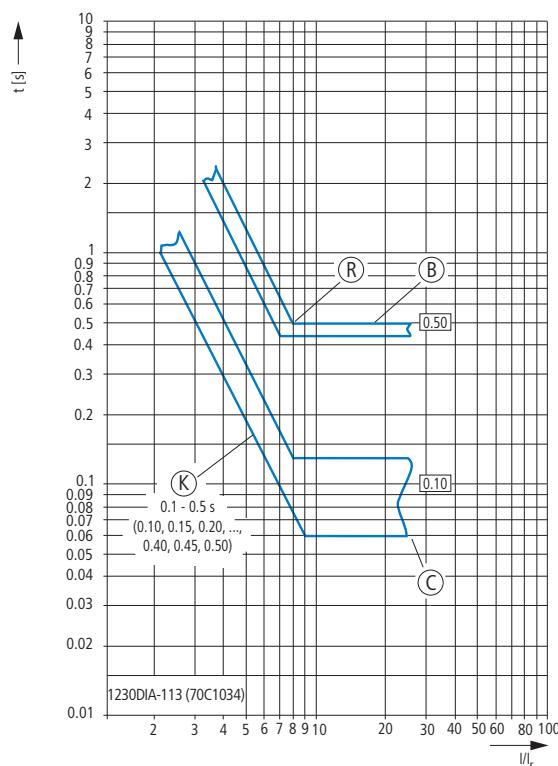
IZM26...P...

IZM26...P... Tripping characteristics for universal protection with power measurement

Overload protection (L) and short-time delayed short-circuit protection (S)

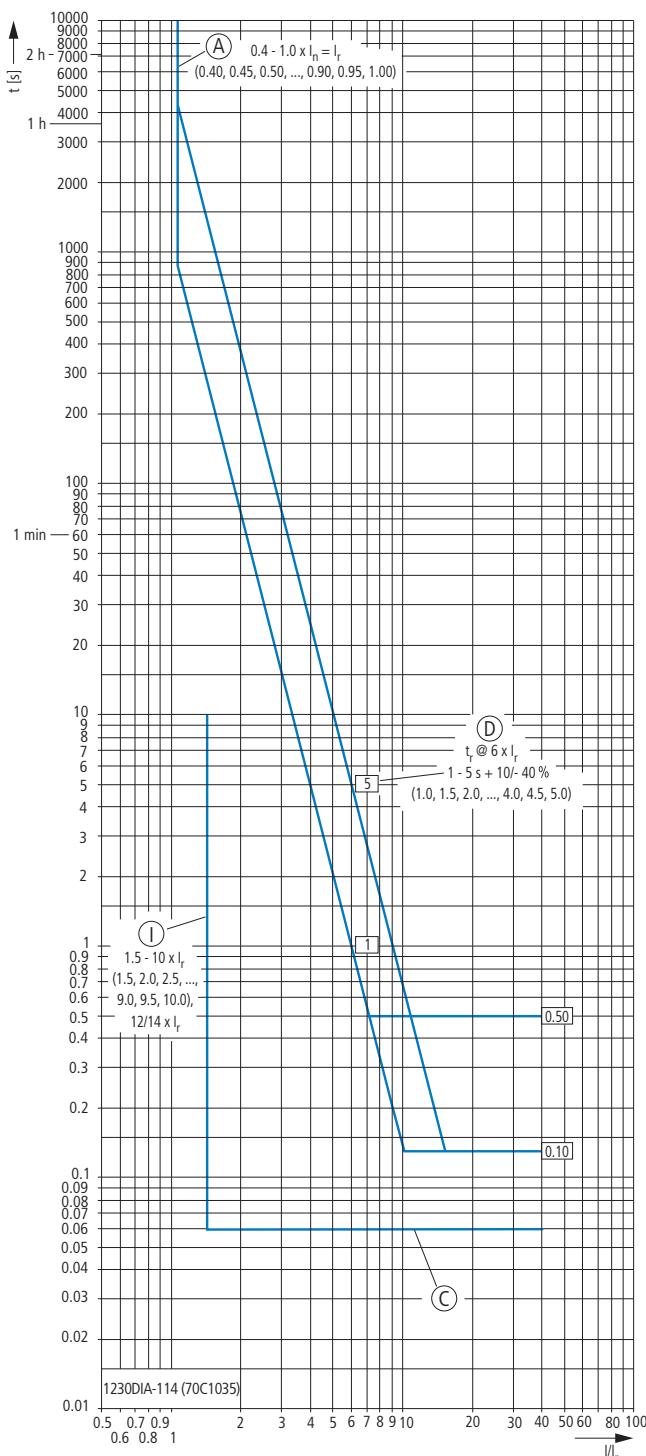
L-Protection: I^2t characteristic curve and S protection: flat characteristic curve
See Notes 1, 3, 7, 9, 22, 23, 24, 25, 26.S protection: I^2t characteristic curve
See Notes 1, 3, 7, 9, 22, 23, 24, 25, 26.

- A Set values for overload protection
- B Maximum total opening delay
- C Minimum total opening delay
- D Set values for long delay
- I Available set values for short-time delayed short-circuit protection I_{sd}
- J Short-circuit release for very high currents



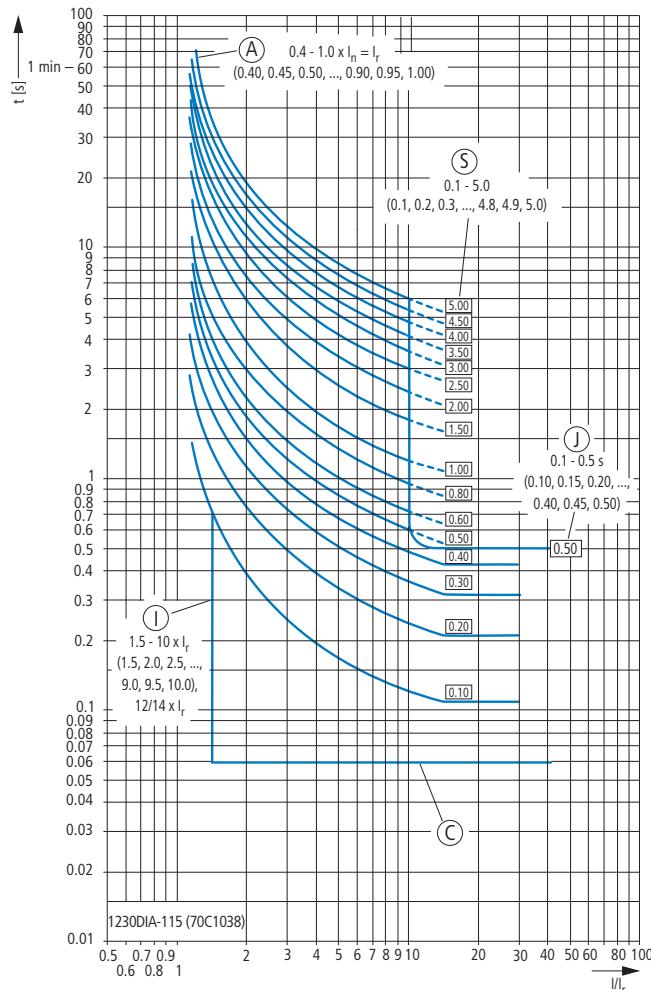
- B Maximum total opening delay
- C Minimum total opening delay
- K Set values for ground fault protection
- R Characteristic curve turning point

L protection: I^t characteristic curve and S protection: flat characteristic curve
See Notes 3, 7, 9, 22, 23, 24, 25, 27.



- A Set values for overload protection
- C Minimum total opening delay
- D Set values for long delay
- I Available set values for short-time delayed short-circuit protection I_{sd}

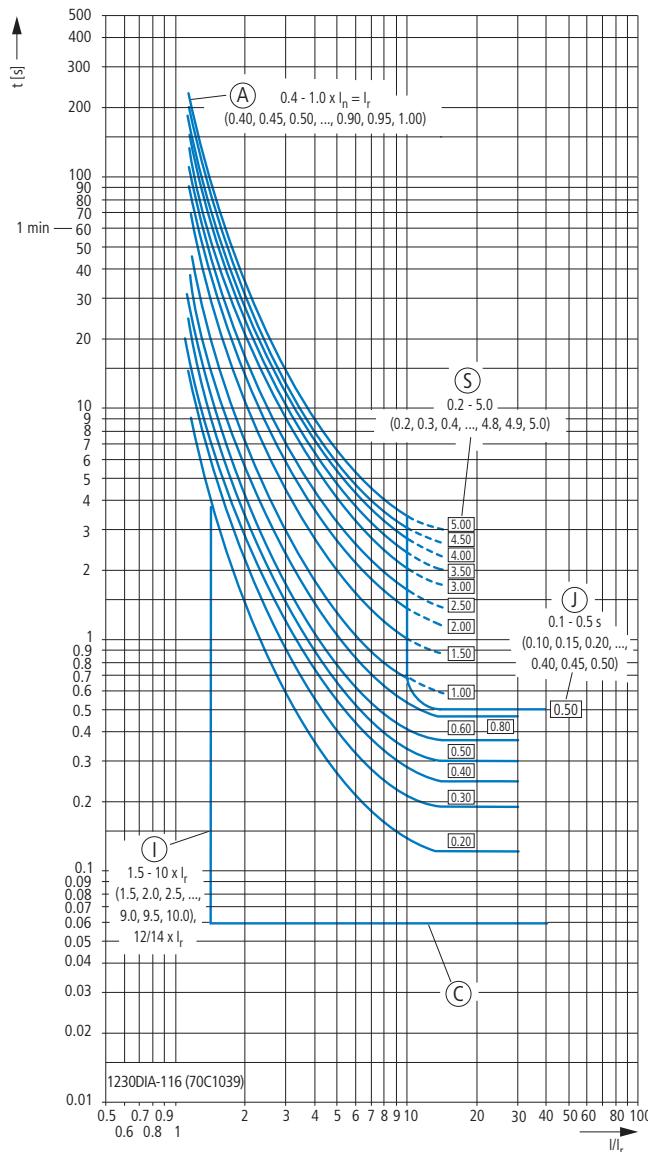
L protection: IEEE standard inverse tripping, and S protection: flat characteristic curve
See Notes 3, 7, 8, 9, 23, 25, 28, 29.



- A Set values for overload protection
- C Minimum total opening delay
- I Available set values for short-time delayed short-circuit protection I_{sd}
- J Short-circuit release for very high currents
- S Long delay time at $14 \times I_r$

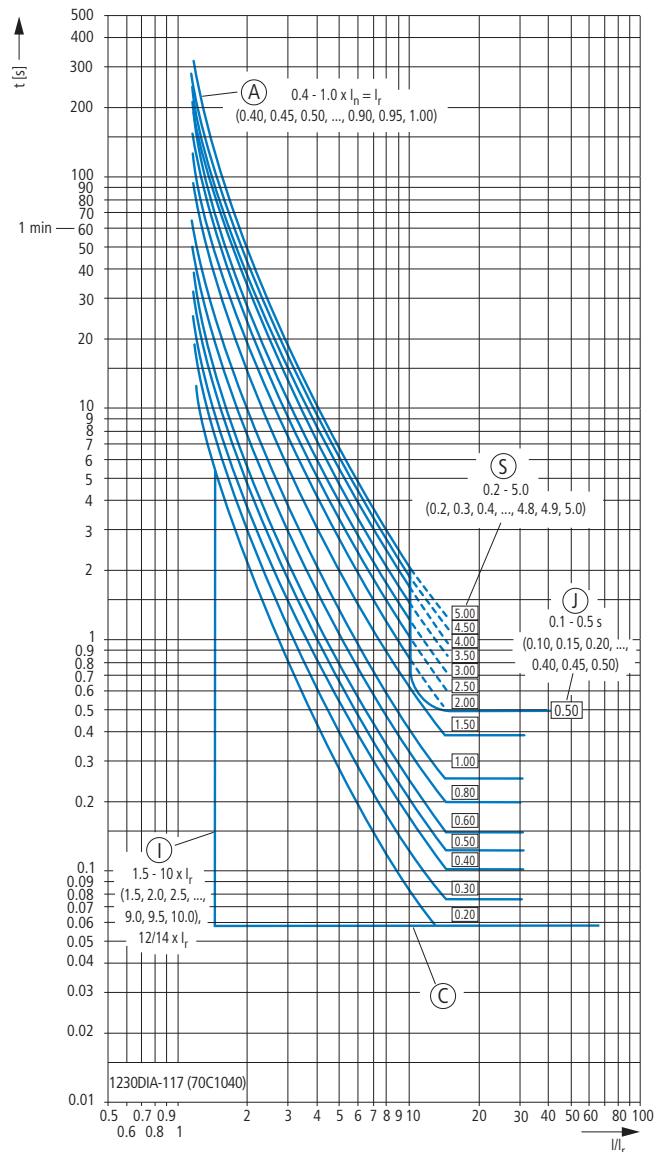


L protection: IEEE high inverse tripping, and S protection: flat characteristic curve
See Notes 3, 7, 8, 9, 23, 25, 28, 29.



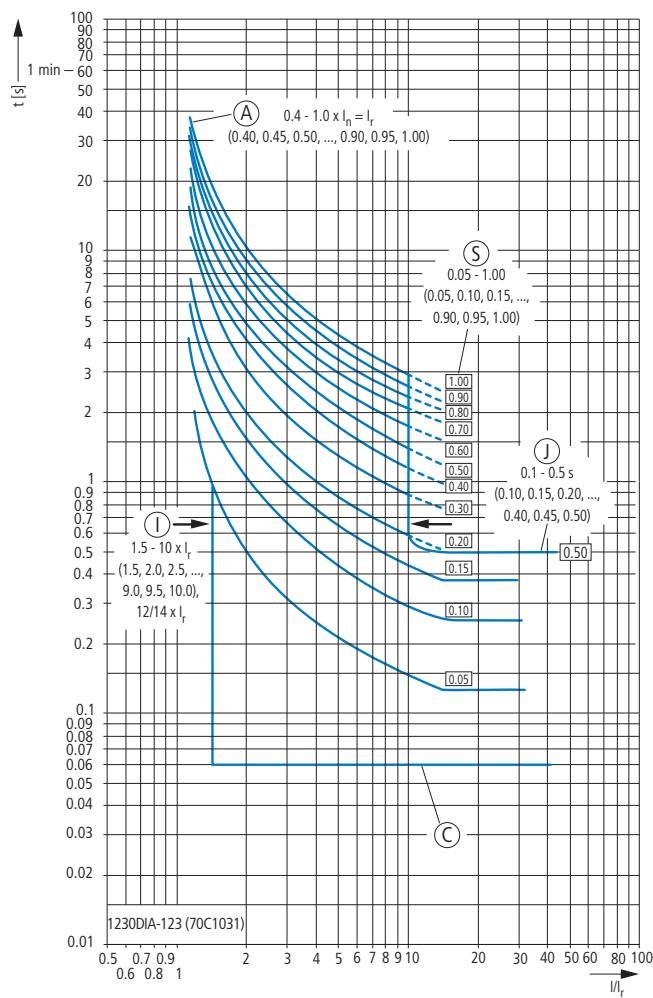
- A Set values for overload protection
- C Minimum total opening delay
- I Available set values for short-time delayed short-circuit protection I_{sd}
- J Short-circuit release for very high currents
- S Long delay time at $14 \times I_r$

L protection: IEEE extreme inverse tripping, and S protection: flat characteristic curve
See Notes 3, 7, 8, 9, 23, 25, 28, 29.



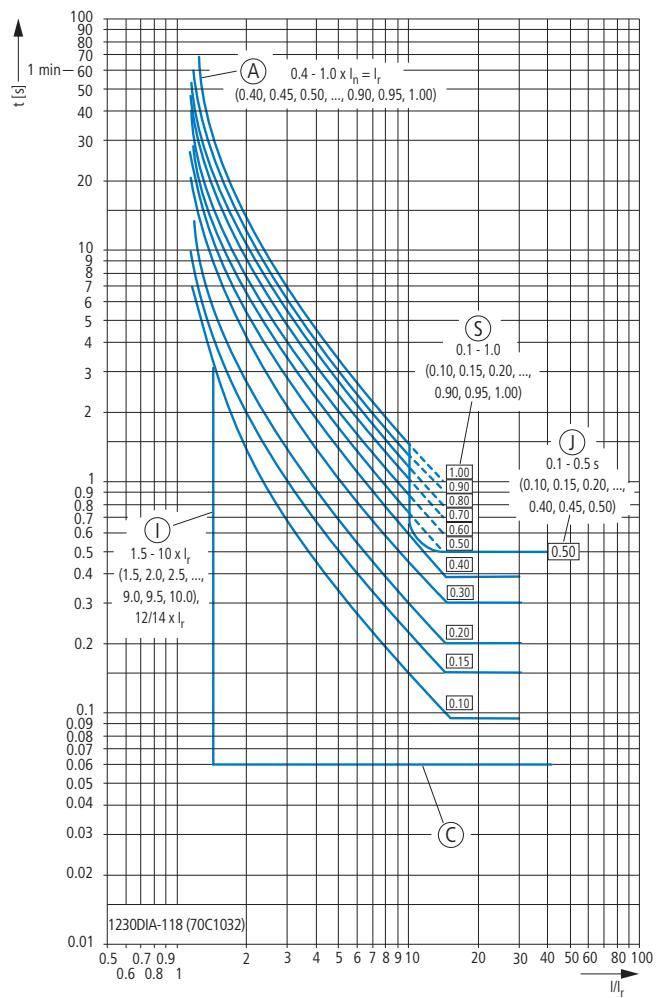
- A Set values for overload protection
- C Minimum total opening delay
- I Available set values for short-time delayed short-circuit protection I_{sd}
- J Short-circuit release for very high currents
- S Long delay time at $14 \times I_r$

L protection: IEC-A standard inverse tripping, and S protection: flat characteristic curve
See Notes 3, 7, 8, 9, 23, 25, 28, 29.



- A Set values for overload protection
- C Minimum total opening delay
- I Available set values for short-time delayed short-circuit protection I_{sd}
- J Short-circuit release for very high currents
- S Long delay time at $14 \times I_r$

L protection: IEC-B high inverse tripping, and S protection: flat characteristic curve
See Notes 3, 7, 8, 9, 23, 25, 28, 29.



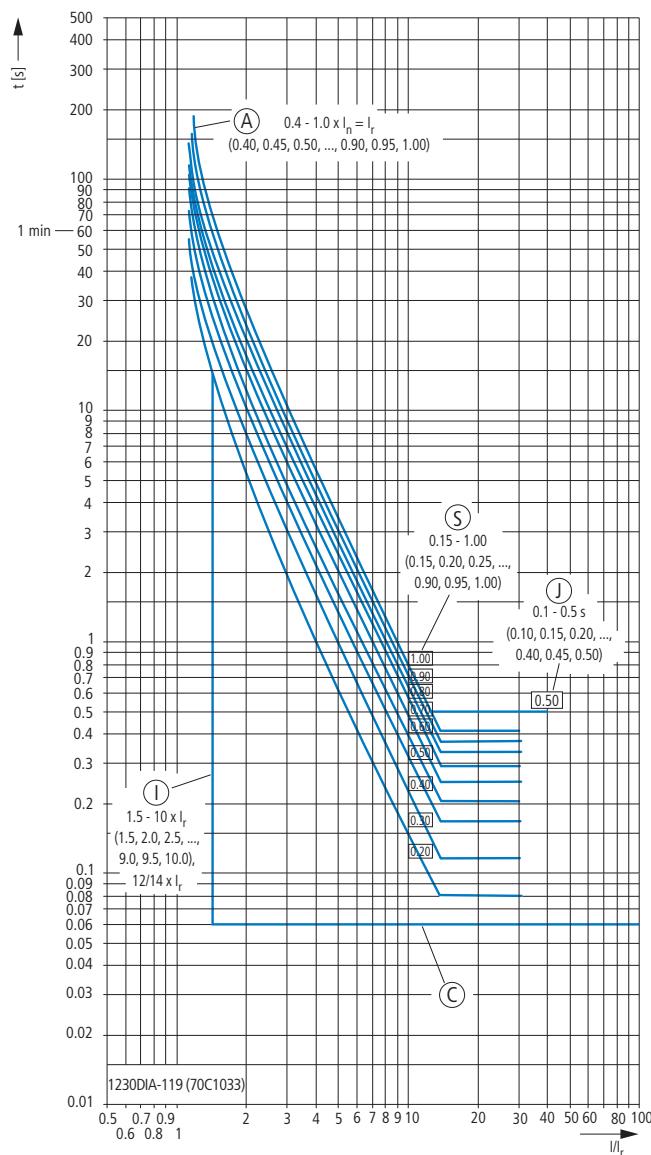
- A Set values for overload protection
- C Minimum total opening delay
- I Available set values for short-time delayed short-circuit protection I_{sd}
- J Short-circuit release for very high currents
- S Long delay time at $14 \times I_r$



IZM26 tripping characteristics

IZM26... (P)...

L protection: IEC-C extreme inverse tripping, and S protection: flat characteristic curve
See Notes 3, 7, 8, 9, 23, 25, 28, 29.



A Set values for overload protection

C Minimum total opening delay

I Available set values for short-time delayed short-circuit protection I_{sd}

J Short-circuit release for very high currents

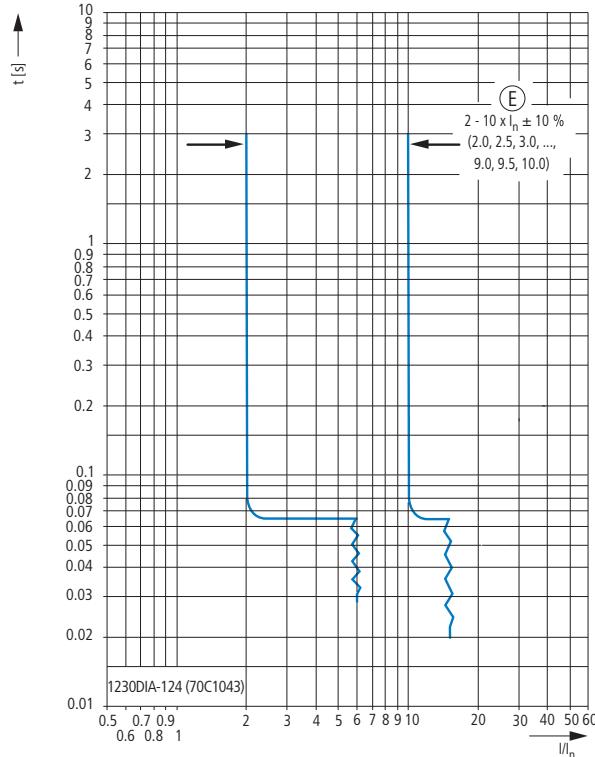
S Long delay time at $14 \times I_r$

IZM26... (P) ... Tripping characteristics for trip units with power measurement

Non-delayed short-circuit protection (I)

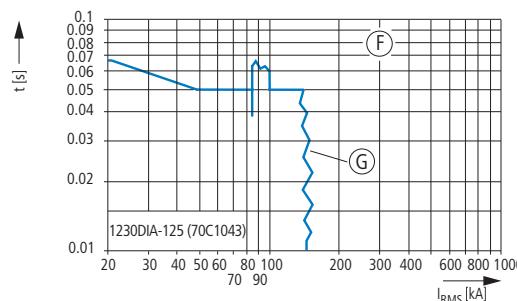
I-protection: Adjustable

See Notes 1, 4, 5, 6, 7, 11, 12.



E Set values for short-time delayed short-circuit protection

I-protection: For high short-circuit currents



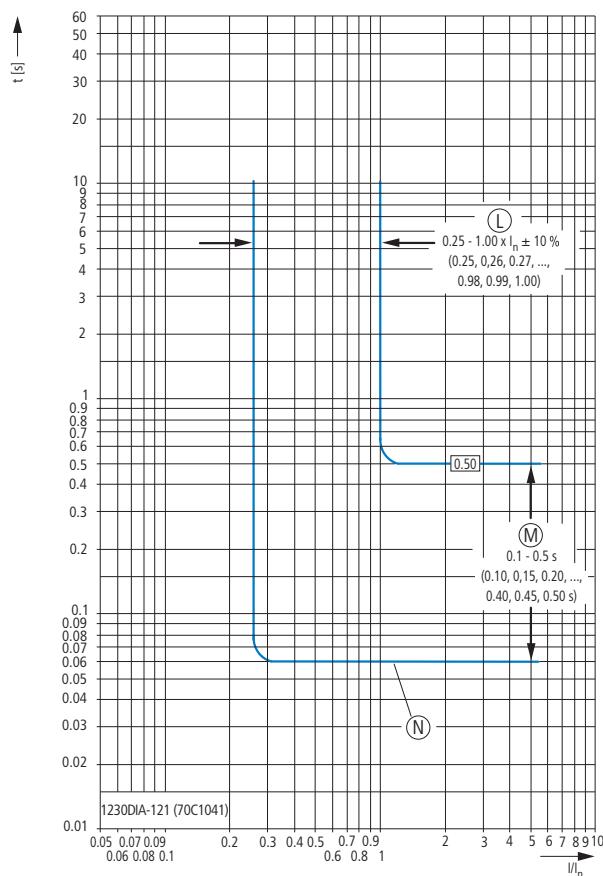
F Set values for short-time delayed short-circuit protection with flat characteristic curve

G The end of the characteristic curve is determined by the type of application and the switching capacity of the selected switch.



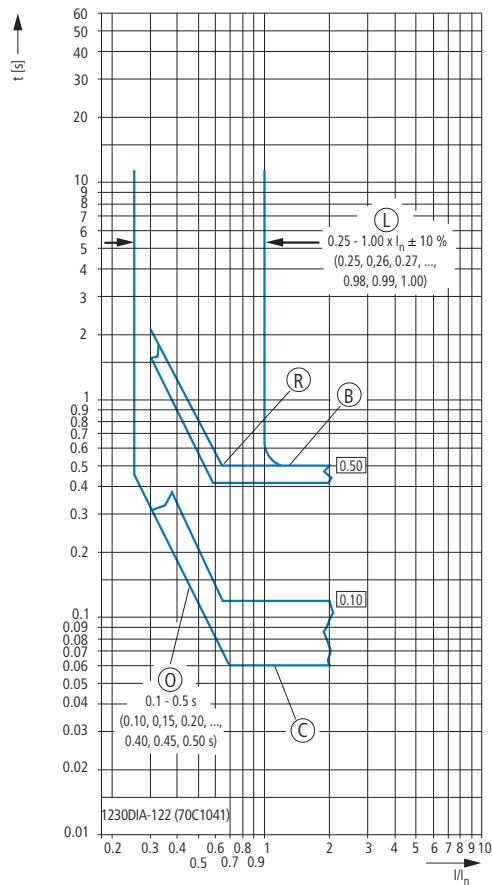
IZM26...P... Option Ground fault protection +IZM-DTP-E...

G: Ground fault protection, flat characteristic curve
See Notes 4, 6, 13, 14, 15, 16, 25, 26, 30.



- L Set values for ground-fault protection
- M Set values for ground-fault protection delay at flat characteristic curve
- N Flat characteristic curve for the delay time fault protection

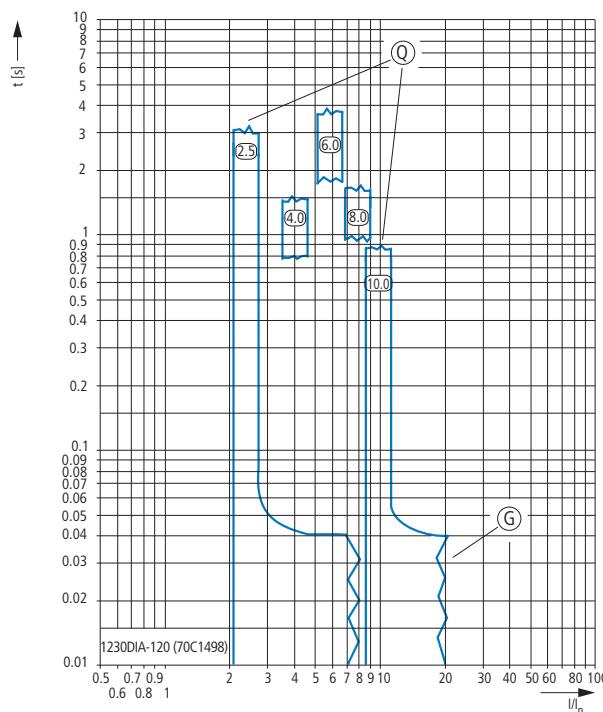
G: Ground fault protection, I^2t -characteristic curve
See Notes 4, 6, 13, 14, 15, 16, 25, 26, 30.



- B Maximum total opening delay
- C Minimum total opening delay
- L Set values for ground-fault protection
- O I^2t characteristic for ground-fault protection delay time
- R Characteristic curve turning point

IZM26...P... Option Maintenance mode option +IZM-DTP-ARMS

ARMS-maintenance mode
See Notes 4, 6, 12, 18, 19, 20, 21.



- G The end of the characteristic curve is determined by the type of application and the switching capacity of the selected switch.
- Q Set values for maintenance mode (ARMS):
R5 = max. reduction, R1 = min. reduction



IZM26 tripping characteristics

IZM26...A(V)(U)(P)...

- 1 The trip unit has a thermal memory, which can shorten the tripping time in the overload range.

This function plays a role whenever a current is higher than the overload release's tripping time and which is then isolated by a downstream circuit-breaker or the circuit-breaker itself. On a subsequent overload current the circuit-breaker will trip more quickly than normal.

The reduced tripping time is inversely proportional to the time expired since the last overload. After about five minutes the thermal memory is reset.

- 2 The overload release is activated at a pick-up time of 110 % I_r with a tolerance of ±5 % (indicated by the lit "Unit Status" LED).
- 3 The characteristic curves apply to applications in a temperature range from -20 °C to +55 °C. Temperatures over +85 °C cause automatic tripping. The circuit-breaker must be selected according to the temperature-dependent derating values from the table in the technical data.
- 4 The end of the characteristic curve is determined by the type of application and the switching capacity of the selected circuit-breaker.
- 5 The non-delayed short-circuit release is activated at a response value of conventionally 100 % with a tolerance of ±10 %.
- 6 The listed overall switch-off times include the response times of the trip unit, the opening times of the switch and the time required to switch off the current.
- 7 Additional setting "max M1":

IZM20

$M1 = 14 \times I_n$ for nominal currents of 200 A to 1250 A
 $M1 = 12 \times I_n$ for nominal currents of 1600 A to 2000 A

IZM32

$M1 = 14 \times I_n$ for nominal currents of 200 A to 1250 A
 $M1 = 12 \times I_n$ for nominal currents of 1600 A to 2500 A
 $M1 = 10 \times I_n$ for nominal currents of 3200 A

IZM40

$M1 = 12 \times I_n$ for nominal currents of 4000 A

IZM63

$M1 = 14 \times I_n$ for nominal currents of 2000 A to 2500 A
 $M1 = 12 \times I_n$ for nominal currents of 3200 A to 5000 A
 $M1 = 10 \times I_n$ for nominal currents of 6300 A

- 8 The overload release trips at 110 % I_r with a tolerance of ±5 % (indicated by the "Unit Status" LED).
- The short-time delayed short-circuit release I_{sd} is activated at a pick-up time of conventionally 100 % with a tolerance of ±5 %.
- 9 When zone selectivity (ZSI) is activated in the short-time delayed short-circuit release and no blocking signal is applied, the minimum time value (0.10 s) applies irrespective of the short-time delay settings.
- 10 The upper lines of the I^2t characteristic curves are horizontal from a value of $8 \times I_r$ (indicated by the points).

- 11 IZM circuit-breakers32 feature an additional, permanently set non-delayed short-circuit release, which is set to a peak value of 170 kA with a tolerance of ±10 %.

This protective function remains active when the non-delayed short-circuit release is switched off.

- 12 The listed overall switch-off times are conservative and take into account the trip unit's maximum response times, the circuit-breaker's maximum opening delays and the longest current interruption times with regard to factors that contribute to worst-case conditions, such as maximum rated operational voltage, single-phase interruptions and minimum power factor.

Fast disconnecting times are possible but depend on the system conditions and the circuit-breaker model.

- 13 The ground-fault release is activated at a response value of conventionally 100 % with a tolerance of ±10 %.

- 14 Unless otherwise specified, the current value tolerances are ±10 % of the values shown in the diagram.

- 15 In combination with ARMS function, ground-fault protection is limited to 1200 A.

- 16 When zone selectivity (ZSI) is activated in ground-fault protection and no blocking signal is applied, the minimum time value (flat characteristic curve) applies irrespective of the settings.

- 17 The upper lines of the I^2t characteristic curves are horizontal from a value of $0.625 \times I_n$ (indicated by the points).

- 18 The maintenance mode function must be activated with a switch or through the communications terminals for these characteristic curves to apply. A blue LED indicates that the maintenance mode settings are active.

- 19 The shown switch-off times apply for connection to an additional auxiliary power supply.

- 20 Tripping by the Maintenance Mode Trip is indicated by the non-delayed short-circuit protection LED.

- 21 The nominal reduction values (response values), with a tolerance of ±15 % are:
 $2.5 \times I_n (= R5)$, $4 \times I_n (= R4)$, $6 \times I_n (= R3)$, $8 \times I_n (= R2)$, $10 \times I_n (= R1)$

- 22 This characteristic curve is shown as a multiple of the overload release setting I_r . The overload release trips at 110 % I_r with a tolerance of ±5 % (indicated by the "Unit Status" LED).

- 23 The delayed short-circuit release I_{sd} also has an "M1" setting, which may increase the response threshold when I_{sd} is active (at the curves' point of overlap).

- 24 The delayed short-circuit release I_{sd} trips at 100 %, with a tolerance of ±5 %.

- 25 Delay tolerances in the area of the flat characteristic curve:
The tolerance is +0/-80 ms of the set values, with the following exceptions:
At 100 ms the tolerance is 6 to 13 ms
At 150 ms the tolerance is 10 to 17 ms
At 200 ms the tolerance is 15 to 22 ms

- 26 I^2t -function
The upper lines of the I^2t characteristic curves are horizontal from a value of $8 \times I_r$ (for ground-fault protection $0.625 \times I_n$), the lower limit value of the band following the line.

The characteristic curve has a tolerance of +0/-30 % for all settings except the following ones:
For 0.10 s +30 %/-25 %
For 0.15 s +20 %/-25 %
For 0.20 s +10 %/-25 %

For all characteristic curves the lower, minimum time value, which merges with the I^2t line, determines the break point and the shape of the upper characteristic curve.

- 27 In the time range ≤ 0.5 s the I^4t characteristic curve becomes horizontal. Tripping does not take place faster than the set short-time delay t_{sd} . (In the drawing a displacement of the characteristic curve is avoided.)

- 28 This characteristic curve is shown as a multiple of the overload release setting I_r .

This so-called "E-/IEC... inverse" characteristic curve results from the time setting "TimeDial" in combination with the delayed short-circuit release I_{sd} and the delay t_{sd} (shown as thick lines). The non-delayed short-circuit release I_r , shown as a separate characteristic curve, can be disabled (Off position).

- 29 For each current $> 1.2 \times I_r$ the tolerance is [$\pm 15\%$] or [-15 %, +90 ms], whichever is greater.

This characteristic curve flattens out for smaller time settings ("TimeDial": 0.1 to 0.4) at $14 \times I_r$ and, if the curves overlap, merges with the characteristic curve for short-term delay I_{sd} for larger time settings ("TimeDial": 0.5 to 1.0).

The delay of the short-circuit release and the "TimeDial" time setting are applied independently of each other. The IEC-B (very inverse) characteristic curve always remains active, even when the lines cross over.

- 30 With Digitrip 1150 trip unit without ARMS function the ground-fault protection settings already begin at $0.1 \times I_n$.

- A Set values for overload protection I_r
- B Maximum total opening delay
- C Minimum total opening delay
- D Set value for long delay t_r
- E Set value non-delayed short-circuit protection I_i
- F Set values for short-time delayed short-circuit protection with flat characteristic curve
- G The end of the characteristic curve is determined by the type of application and the switching capacity of the selected switch.
- H Setting values for short time delay with i^2t characteristic.
- I Available set values for short-time delayed short-circuit protection I_{sd}
- J Short-circuit release for very high currents
- KP Set values for short-time delay at i^2t characteristic
- L Set values for ground fault protection
- M Set values for ground-fault protection delay at flat characteristic curve
- N Flat characteristic curve for the deceleration time Ground fault protection
- O i^2t characteristic for ground-fault protection delay time
- P Set values for ground-fault protection delay with i^2t characteristic
- q Set values for maintenance mode (ARMS):
R5 = max. reduction,
R1 = min. reduction
- R Characteristic curve turning point
- S Long delay time with $14 \times I_r$



18/90 IZM circuit-breakers, IN switch-disconnectors

Rating-plug combinations for IZM...

Rating-Plug-Combinations for IZM20...

Rating plugs (plus types, 3 pole)

I_n [A]	I_u [A]	800	1000	1250	1600	2000
200				+IZM-RP203-200		
250				+IZM-RP203-250		
300				+IZM-RP203-300		
400				+IZM-RP203-400		
630				+IZM-RP203-630		
800	Standard			+IZM-RP203-800		
1000		Standard			+IZM-RP203-1000	
1250			Standard		+IZM-RP203-1250	
1600				Standard		+IZM-RP203-1600
2000					Standard	

Rating plugs (plus types, 4 pole)

I_n [A]	I_u [A]	800	1000	1250	1600	2000
200				+IZM-RP204-200		
250				+IZM-RP204-250		
300				+IZM-RP204-300		
400				+IZM-RP204-400		
630				+IZM-RP204-630		
800	Standard			+IZM-RP204-800		
1000		Standard			+IZM-RP204-1000	
1250			Standard		+IZM-RP204-1250	
1600				Standard		+IZM-RP204-1600
2000					Standard	

Rating-Plug-Combinations for IZM32...

Rating plugs (plus types, 3 pole)

I_n [A]	I_u [A]	800	1000	1250	1600	2000	2500	3200
200					+IZM-RP323-200			
250					+IZM-RP323-250			
300					+IZM-RP323-300			
400					+IZM-RP323-400			
630					+IZM-RP323-630			
800	Standard				+IZM-RP323-800			
1000		Standard				+IZM-RP323-1000		
1250			Standard				+IZM-RP323-1250	
1600				Standard			+IZM-RP323-1600	
2000					Standard		+IZM-RP323-2000	
2500						Standard	+IZM-RP323-2500	
3200							Standard	

Rating plugs (plus types, 4 pole)

I_n [A]	I_u [A]	800	1000	1250	1600	2000	2500	3200
200					+IZM-RP324-200			
250					+IZM-RP324-250			
300					+IZM-RP324-300			
400					+IZM-RP324-400			
630					+IZM-RP324-630			
800	Standard				+IZM-RP324-800			
1000		Standard				+IZM-RP324-1000		
1250			Standard				+IZM-RP324-1250	
1600				Standard			+IZM-RP324-1600	
2000					Standard		+IZM-RP324-2000	
2500						Standard	+IZM-RP324-2500	
3200							Standard	

Rating-Plug-Combinations for IZM40...

Rating plugs (plus types, 3- and 4 pole)

	3 pole	4 pole
I _n [A]	4000	4000
2000	+IZM-RP403-2000	+IZM-RP404-2000
2500	+IZM-RP403-2500	+IZM-RP404-2500
3200	+IZM-RP403-3200	+IZM-RP404-3200
4000	Standard	Standard

Rating-Plug-Combinations for IZM63...

Rating plugs (plus types, 3 pole)

I _n [A]	4000	5000	6300
2000		+IZM-RP633-2000	
2500		+IZM-RP633-2500	
3200		+IZM-RP633-3200	
4000	Standard		+IZM-RP633-4000
5000		Standard	+IZM-RP633-5000
6300			Standard

Rating plugs (plus types, 4 pole)

I _n [A]	4000	5000	6300
2000		+IZM-RP634-2000	
2500		+IZM-RP634-2500	
3200		+IZM-RP634-3200	
4000	Standard		+IZM-RP634-4000
5000		Standard	+IZM-RP634-5000
6300			Standard



	Selectivity 415 V AC between circuit-breakers enables the separate isolation of faulty system sections. Selectivity exists between incoming circuit-breaker 1 and outgoing circuit-breaker 2 if, only outgoing circuit-breaker 2 trips at position 2 during a short-circuit. System sections 3 and 4 remain operational.	Selection: Provided that the short-circuit current does not exceed those values specified ($I_{cc\ rms}$). These details represent the limits of selectivity. Both circuit-breakers will switch off with higher short-circuit currents. On IZM circuit-breakers with V, U, P releases, the delay time t_{sd} must be at least 100 ms longer than the delay time of the next downstream levels (2, 3, 4).
I_n : Rated operational current I_u : Rated uninterrupted current I_{cu} : Rated short-circuit breaking capacity I_i : Set value non-delayed short-circuit releases		

Incoming circuit-breaker (1)			IZM...20-A																IZM...20-V									
Outgoing circuit-breaker (2)	I_u [A]	$I_{cu2(415V)}$ [kA]	Prospective short-circuit current ($I_{cc\ rms}$ in kA)																Prospective short-circuit current ($I_{cc\ rms}$ in kA)									
			800	800	1000	1000	1250	1250	1600	1600	2000	2000	800	800	1000	1000	1250	1250	1600	T	T	T	T	T	T	T	T	T
			50	65	50	65	50	65	50	65	50	65	50	65	50	65	50	65	50	T	T	T	T	T	T	T	T	T
NZMB(C)(N)(H)1-A(M)...	20	25 - 100	9	9	15	15	T(25)	T(25)	T	T(50)	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
	25	25 - 100	9	9	15	15	T(25)	T(25)	T	T(50)	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T		
	32	25 - 100	9	9	15	15	T(25)	T(25)	T	T(50)	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T		
	40	25 - 100	9	9	15	15	T(25)	T(25)	T	T(50)	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T		
	50	25 - 100	9	9	15	15	T(25)	T(25)	T	T(50)	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T		
	63	25 - 100	9	9	15	15	T(25)	T(25)	T	T(50)	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T		
	80	25 - 100	9	9	15	15	T(25)	T(25)	T	T(50)	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T		
	100	25 - 100	9	9	15	15	T(25)	T(25)	T	T(50)	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T		
	125	25 - 100	9	9	15	15	T(25)	T(25)	T	T(50)	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T		
	160	25 - 100	9	9	15	15	T(25)	T(25)	T	T(50)	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T		
NZMB(C)(N)(H)2-A(M)(V)...	20	25 - 150	10	10	18	18	T(30)	T(30)	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
	25	25 - 150	10	10	18	18	T(30)	T(30)	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
	32	25 - 150	10	10	18	18	T(30)	T(30)	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
	40	25 - 150	10	10	18	18	T(30)	T(30)	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
	50	25 - 150	10	10	18	18	T(30)	T(30)	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
	63	25 - 150	10	10	18	18	T(30)	T(30)	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
	80	25 - 150	10	10	18	18	T(30)	T(30)	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
	90	25 - 150	10	10	18	18	T(30)	T(30)	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
	100	25 - 150	10	10	18	18	T(30)	T(30)	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
	125	25 - 150	10	10	18	18	T(30)	T(30)	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
	140	25 - 150	10	10	18	18	T(30)	T(30)	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
	160	25 - 150	10	10	18	18	T(30)	T(30)	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
	200	25 - 150	10	10	18	18	T(30)	T(30)	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
	220	25 - 150	10	10	18	18	T(30)	T(30)	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
	250	25 - 150	10	10	18	18	T(30)	T(30)	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
	300	25 - 150	10	10	18	18	T(30)	T(30)	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
NZMC(N)(H)3-A(M)(V)...	220	36 - 150	7	7	9	9	12	12	18	18	25	25	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
	250	36 - 150	7	7	9	9	12	12	18	18	25	25	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
	320	36 - 150	7	7	9	9	12	12	18	18	25	25	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
	350	36 - 150	7	7	9	9	12	12	18	18	25	25	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
	400	36 - 150	7	7	9	9	12	12	18	18	25	25	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
	450	36 - 150	7	7	9	9	12	12	18	18	25	25	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
	500	36 - 150	7	7	9	9	12	12	18	18	25	25	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
	630	36 - 150	7	7	9	9	12	12	18	18	25	25	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
NZMN(H)4-A(M)(V)...	550	50 - 100	7	7	9	9	12	12	15	15	18	18	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
	630	50 - 100	7	7	9	9	12	12	15	15	18	18	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
	800	50 - 100	-	-	9	9	12	12	15	15	18	18	-	-	T	T	T	T	T	T	T	T	T	T	T	T	T	
	875	50 - 100	-	-	9	9	12	12	15	15	18	18	-	-	T	T	T	T	T	T	T	T	T	T	T	T	T	
	1000	50 - 100	-	-	-	-	12	12	15	15	18	18	-	-	-	-	T	T	T	T	T	T	T	T	T	T	T	
	1250	50 - 100	-	-	-	-	-	-	15	15	18	18	-	-	-	-	-	-	-	-	-	-	-	-	T	T	T	
	1400	50 - 100	-	-	-	-	-	-	15	15	18	18	-	-	-	-	-	-	-	-	-	-	-	-	-	T	T	T
	1600	50 - 100	-	-	-	-	-	-	-	18	18	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Notes

B = Basic switching capacity, N = Normal switching capacity, H = High switching capacity, T = Total selectivity

IZM...20-U												IZM20...-P											
1600	2000	2000	800	800	1000	1000	1250	1250	1600	1600	2000	2000	800	800	1000	1000	1250	1250	1600	1600	2000	2000	
65	50	65	50	65	50	65	50	65	50	65	50	65	50	65	50	65	50	65	50	65	50	65	
19200	24000	24000	11200	11200	14000	14000	17500	17500	19200	19200	24000	24000	11200	11200	14000	14000	17500	17500	19200	19200	24000	24000	
N	B	N	B	N	B	N	B	N	B	N	B	N	B	N	B	N	B	N	B	N	B	N	
T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
T	T	T	-	-	T	T	T	T	T	T	T	T	-	-	T	T	T	T	T	T	T	T	
T	T	T	-	-	-	T	T	T	T	T	T	T	-	-	-	T	T	T	T	T	T	T	
T	T	T	-	-	-	-	T	T	T	T	T	T	-	-	-	-	T	T	T	T	T	T	
T	T	T	-	-	-	-	-	T	T	T	T	T	-	-	-	-	T	T	T	T	T	T	
-	T	T	-	-	-	-	-	-	-	T	T	-	-	-	-	-	-	-	-	T	T	T	



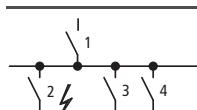
<p>I_n: Rated operational current I_u: Rated uninterrupted current I_{cu}: Rated short-circuit breaking capacity I_i: Set value non-delayed short-circuit releases</p>	Selectivity 415 V AC																			
	between circuit-breakers enables the separate isolation of faulty system sections.																			
	Selectivity exists between incoming circuit-breaker 1 and outgoing circuit-breaker 2 if, only outgoing breaker 2 trips at position 2 during a short-circuit.																			
	System sections 3 and 4 continue to operate.																			
	Selection:																			
	Provided that the short-circuit current does not exceed those values specified ($I_{cc\ rms}$).																			
	These details represent the limits of selectivity. Both circuit-breakers will switch off with higher short-circuit currents.																			
	On IZM circuit-breakers with V, U, P releases, the delay time t_{sd} must be at least 100 ms longer than the delay time of the next downstream levels (2, 3, 4).																			
	IZM...32-A																			
	Incoming circuit-breaker (1)																			
Outgoing circuit-breaker (2)	I_n [A]	800	800	800	1000	1000	1000	1250	1250	1250	1600	1600	1600	2000	2000	2500	2500	2500	3200	
	I_{cu} [kA]	65	85	100	65	85	100	65	85	100	65	85	100	65	85	100	65	85	100	
	I_i [A]	8000	8000	8000	10000	10000	10000	12500	12500	12500	16000	16000	16000	20000	20000	20000	25000	25000	25000	
	I_u [A]	B	N	H	B	N	H	B	N	H	B	N	H	B	N	H	B	N	H	
	$I_{cu2(415V)}$ [kA]																			
	Prospective short-circuit current ($I_{cc\ rms}$ in kA)																			
NZMB(C)(N) (H)1-A(M)...	20	25 - 100	9	9	9	15	15	15	T(25)	T(25)	T(25)	T(50)	T(50)	T(50)	T	T	T(85)	T	T	T
	25	25 - 100	9	9	9	15	15	15	T(25)	T(25)	T(25)	T(50)	T(50)	T(50)	T	T	T(85)	T	T	T
	32	25 - 100	9	9	9	15	15	15	T(25)	T(25)	T(25)	T(50)	T(50)	T(50)	T	T	T(85)	T	T	T
	40	25 - 100	9	9	9	15	15	15	T(25)	T(25)	T(25)	T(50)	T(50)	T(50)	T	T	T(85)	T	T	T
	50	25 - 100	9	9	9	15	15	15	T(25)	T(25)	T(25)	T(50)	T(50)	T(50)	T	T	T(85)	T	T	T
	63	25 - 100	9	9	9	15	15	15	T(25)	T(25)	T(25)	T(50)	T(50)	T(50)	T	T	T(85)	T	T	T
	80	25 - 100	9	9	9	15	15	15	T(25)	T(25)	T(25)	T(50)	T(50)	T(50)	T	T	T(85)	T	T	T
	100	25 - 100	9	9	9	15	15	15	T(25)	T(25)	T(25)	T(50)	T(50)	T(50)	T	T	T(85)	T	T	T
	125	25 - 100	9	9	9	15	15	15	T(25)	T(25)	T(25)	T(50)	T(50)	T(50)	T	T	T(85)	T	T	T
	160	25 - 100	9	9	9	15	15	15	T(25)	T(25)	T(25)	T(50)	T(50)	T(50)	T	T	T(85)	T	T	T
NZMB(C)(N) (H)2-A(M) (V)...	20	25 - 150	10	10	10	18	18	18	T(30)	T(30)	T(30)	T	T	T	T(85)	T	T	T	T	T
	25	25 - 150	10	10	10	18	18	18	T(30)	T(30)	T(30)	T	T	T	T(85)	T	T	T	T	T
	32	25 - 150	10	10	10	18	18	18	T(30)	T(30)	T(30)	T	T	T	T(85)	T	T	T	T	T
	40	25 - 150	10	10	10	18	18	18	T(30)	T(30)	T(30)	T	T	T	T(85)	T	T	T	T	T
	50	25 - 150	10	10	10	18	18	18	T(30)	T(30)	T(30)	T	T	T	T(85)	T	T	T	T	T
	63	25 - 150	10	10	10	18	18	18	T(30)	T(30)	T(30)	T	T	T	T(85)	T	T	T	T	T
	80	25 - 150	10	10	10	18	18	18	T(30)	T(30)	T(30)	T	T	T	T(85)	T	T	T	T	T
	90	25 - 150	10	10	10	18	18	18	T(30)	T(30)	T(30)	T	T	T	T(85)	T	T	T	T	T
	100	25 - 150	10	10	10	18	18	18	T(30)	T(30)	T(30)	T	T	T	T(85)	T	T	T	T	T
	125	25 - 150	10	10	10	18	18	18	T(30)	T(30)	T(30)	T	T	T	T(85)	T	T	T	T	T
NZMC(N)(H) 3-A(M)(V)...	140	25 - 150	10	10	10	18	18	18	T(30)	T(30)	T(30)	T	T	T	T(85)	T	T	T	T	T
	160	25 - 150	10	10	10	18	18	18	T(30)	T(30)	T(30)	T	T	T	T(85)	T	T	T	T	T
	200	25 - 150	10	10	10	18	18	18	T(30)	T(30)	T(30)	T	T	T	T(85)	T	T	T	T	T
	220	25 - 150	10	10	10	18	18	18	T(30)	T(30)	T(30)	T	T	T	T(85)	T	T	T	T	T
	250	25 - 150	10	10	10	18	18	18	T(30)	T(30)	T(30)	T	T	T	T(85)	T	T	T	T	T
	300	25 - 150	10	10	10	18	18	18	T(30)	T(30)	T(30)	T	T	T	T(85)	T	T	T	T	T
	220	36 - 150	7	7	9	9	9	12	12	12	18	18	18	20	20	20	20	T(40)	T(40)	T(40)
	250	36 - 150	7	7	9	9	9	12	12	12	18	18	18	20	20	20	20	T(40)	T(40)	T(40)
	320	36 - 150	7	7	9	9	9	12	12	12	18	18	18	20	20	20	20	T(40)	T(40)	T(40)
	350	36 - 150	7	7	9	9	9	12	12	12	18	18	18	20	20	20	20	T(40)	T(40)	T(40)
NZMN(H) 4-A(M)(V)...	400	36 - 150	7	7	9	9	9	12	12	12	18	18	18	20	20	20	20	T(40)	T(40)	T(40)
	450	36 - 150	7	7	9	9	9	12	12	12	18	18	18	20	20	20	20	T(40)	T(40)	T(40)
	500	36 - 150	7	7	9	9	9	12	12	12	18	18	18	20	20	20	20	T(40)	T(40)	T(40)
	630	36 - 150	7	7	9	9	9	12	12	12	18	18	18	20	20	20	20	T(40)	T(40)	T(40)
	550	50 - 100	7	7	9	9	9	12	12	12	15	15	15	18	18	18	22	22	22	29
	630	50 - 100	7	7	9	9	9	12	12	12	15	15	15	18	18	18	22	22	22	29
	800	50 - 100	—	—	—	9	9	9	12	12	12	15	15	15	18	18	18	22	22	22
	875	50 - 100	—	—	—	9	9	9	12	12	12	15	15	15	18	18	18	22	22	22
	1000	50 - 100	—	—	—	—	—	12	12	12	15	15	15	18	18	18	22	22	22	29
	1250	50 - 100	—	—	—	—	—	—	—	—	15	15	15	18	18	18	22	22	22	29
	1400	50 - 100	—	—	—	—	—	—	—	—	15	15	15	18	18	18	22	22	22	29
	1600	50 - 100	—	—	—	—	—	—	—	—	—	—	—	—	18	18	18	22	22	22

Notes

B = Basic switching capacity, N = Normal switching capacity, H = High switching capacity, T = Total selectivity

IZM...32-V





I_n : Rated operational current
 I_u : Rated uninterrupted current
 I_{cu} : Rated short-circuit breaking capacity
 I_s : Set value non-delayed short-circuit releases

Selectivity 415 V AC

between circuit-breakers enables the separate isolation of faulty system sections.
Selectivity exists between incoming circuit-breaker 1 and outgoing circuit-breaker 2 if, only outgoing breaker 2 trips at position 2 during a short-circuit.
System sections 3 and 4 continue to operate.

Selection:

Provided that the short-circuit current does not exceed those values specified ($I_{cc\ rms}$).
These details represent the limits of selectivity.
Both circuit-breakers will switch off with higher short-circuit currents.
On IZM circuit-breakers with V, U, P releases, the delay time t_{sd} must be at least 100 ms longer than the delay time of the next downstream levels (2, 3, 4).

Incoming circuit-breaker (1) **IZM...32-U**

Outgoing circuit-breaker (2)	I_n [A]	800	800	800	1000	1000	1000	1250	1250	1250	1600	1600	2000	2000	2000	2500	2500	2500	3200
	I_{cu} [kA]	65	85	100	65	85	100	65	85	100	65	85	100	65	85	100	65	85	100
	I_s [A]	11200	11200	11200	14000	14000	14000	17500	17500	17500	19200	19200	19200	24000	24000	24000	30000	30000	30000

Prospective short-circuit current ($I_{cc\ rms}$ in kA)

NZMB(C)(N) (H)1-A(M)...	20	25 - 100	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	25	25 - 100	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	32	25 - 100	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	40	25 - 100	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	50	25 - 100	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	63	25 - 100	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	80	25 - 100	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	100	25 - 100	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	125	25 - 100	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	160	25 - 100	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NZMB(C)(N) (H)2-A(M) (V)...	20	25 - 150	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	25	25 - 150	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	32	25 - 150	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	40	25 - 150	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	50	25 - 150	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	63	25 - 150	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	80	25 - 150	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	90	25 - 150	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	100	25 - 150	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	125	25 - 150	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	140	25 - 150	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	160	25 - 150	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	200	25 - 150	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	220	25 - 150	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	250	25 - 150	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	300	25 - 150	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NZMC(N)(H) 3-A(M)(V)...	220	36 - 150	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	250	36 - 150	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	320	36 - 150	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	350	36 - 150	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	400	36 - 150	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	450	36 - 150	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	500	36 - 150	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	630	36 - 150	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NZMN(H) 4-A(M)(V)...	550	50 - 100	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	630	50 - 100	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	800	50 - 100	-	-	-	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	875	50 - 100	-	-	-	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	1000	50 - 100	-	-	-	-	-	T	T	T	T	T	T	T	T	T	T	T	T
	1250	50 - 100	-	-	-	-	-	-	-	T	T	T	T	T	T	T	T	T	T
	1400	50 - 100	-	-	-	-	-	-	-	T	T	T	T	T	T	T	T	T	T
	1600	50 - 100	-	-	-	-	-	-	-	-	-	-	-	T	T	T	T	T	T

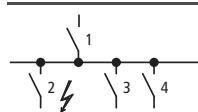
Notes

B = Basic switching capacity, N = Normal switching capacity, H = High switching capacity, T = Total selectivity



IZM32...-P



 I_n : Rated operational current I_u : Rated uninterrupted current I_{cu} : Rated short-circuit breaking capacity I_s : Set value non-delayed short-circuit release**Selectivity 415 V AC**

between circuit-breakers enables the separate isolation of faulty system sections.

Selectivity exists between incoming circuit-breaker 1 and outgoing circuit-breaker 2 if, only outgoing breaker 2 trips at position 2 during a short-circuit. System sections 3 and 4 remain operational.

Selection:

Provided that the short-circuit current does not exceed those values specified ($I_{cc\ rms}$).

These details represent the limits of selectivity.

Both circuit-breakers will switch off with higher short-circuit currents.

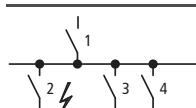
On IZM circuit-breakers with V, U, P releases, the delay time t_{sd} must be at least 100 ms longer than the delay time of the next downstream levels (2, 3, 4).

	Outgoing circuit-breaker (2)	Incoming circuit-breaker		IZM...40-V		IZM...40-U		IZM40...-P		
		I_n [A]	4000	4000	4000	4000	4000	4000	4000	
		I_{cu} [kA]	85	100	85	100	85	100	100	
		I_s [A]	$I_{cu2(415V)}$ [kA]	N	H	N	H	N	H	
Prospective short-circuit current ($I_{cc\ rms}$ in kA)										
NZMB(C)(N)(H)1-A(M)...		20	25 - 100	T	T	T	T	T	T	
		25	25 - 100	T	T	T	T	T	T	
		32	25 - 100	T	T	T	T	T	T	
		40	25 - 100	T	T	T	T	T	T	
		50	25 - 100	T	T	T	T	T	T	
		63	25 - 100	T	T	T	T	T	T	
		80	25 - 100	T	T	T	T	T	T	
		100	25 - 100	T	T	T	T	T	T	
		125	25 - 100	T	T	T	T	T	T	
		160	25 - 100	T	T	T	T	T	T	
NZMB(C)(N)(H)2-A(M)(V)...		20	25 - 150	T	T	T	T	T	T	
		25	25 - 150	T	T	T	T	T	T	
		32	25 - 150	T	T	T	T	T	T	
		40	25 - 150	T	T	T	T	T	T	
		50	25 - 150	T	T	T	T	T	T	
		63	25 - 150	T	T	T	T	T	T	
		80	25 - 150	T	T	T	T	T	T	
		90	25 - 150	T	T	T	T	T	T	
		100	25 - 150	T	T	T	T	T	T	
		125	25 - 150	T	T	T	T	T	T	
		140	25 - 150	T	T	T	T	T	T	
		160	25 - 150	T	T	T	T	T	T	
		200	25 - 150	T	T	T	T	T	T	
		220	25 - 150	T	T	T	T	T	T	
		250	25 - 150	T	T	T	T	T	T	
		300	25 - 150	T	T	T	T	T	T	
NZMC(N)(H)3-A(M)(V)...		220	36 - 150	T	T	T	T	T	T	
		250	36 - 150	T	T	T	T	T	T	
		320	36 - 150	T	T	T	T	T	T	
		350	36 - 150	T	T	T	T	T	T	
		400	36 - 150	T	T	T	T	T	T	
		450	36 - 150	T	T	T	T	T	T	
		500	36 - 150	T	T	T	T	T	T	
		630	36 - 150	T	T	T	T	T	T	
NZMN(H)4-A(M)(V)...		550	50 - 100	T	T	T	T	T	T	
		630	50 - 100	T	T	T	T	T	T	
		800	50 - 100	T	T	T	T	T	T	
		875	50 - 100	T	T	T	T	T	T	
		1000	50 - 100	T	T	T	T	T	T	
		1250	50 - 100	T	T	T	T	T	T	
		1400	50 - 100	T	T	T	T	T	T	
		1600	50 - 100	T	T	T	T	T	T	

Notes

B = Basic switching capacity, N = Normal switching capacity, H = High switching capacity, T = Total selectivity





I_n : Rated operational current
 I_u : Rated uninterrupted current
 I_{cu} : Rated short-circuit breaking capacity
 I_i : Set value non-delayed short-circuit releases

Selectivity 415 V AC

between circuit-breakers enables the separate isolation of faulty system sections.
Selectivity exists between incoming circuit-breaker 1 and outgoing circuit-breaker 2 if, only outgoing breaker 2 trips at position 2 during a short-circuit.
System sections 3 and 4 continue to operate.

Selection:

Provided that the short-circuit current does not exceed those values specified ($I_{cc\ rms}$).
These details represent the limits of selectivity.
Both circuit-breakers will switch off with higher short-circuit currents.
On IZM circuit-breakers with V, U, P releases, the delay time t_{sd} must be at least 100 ms longer than the delay time of the next downstream levels (2, 3, 4).

Outgoing circuit-breaker (2)	I_u [A]	$I_{cu2(415V)}$ [kA]	Incoming circuit-breaker (1)						IZM...63-V						IZM...63-U						IZM63...P						
			I_n [A]	4000	4000	5000	5000	6300	6300	4000	4000	5000	5000	6300	6300	4000	4000	5000	5000	6300	6300	4000	4000	5000	5000	6300	6300
			I_{cu} [kA]	85	100	85	100	85	100	85	100	85	100	85	100	85	100	85	100	85	100	85	100	85	100	85	100
			I_i [A]	48000	48000	60000	60000	63000	63000	48000	48000	60000	60000	63000	63000	48000	48000	60000	60000	63000	63000	48000	48000	60000	60000	63000	63000
NZMB(C)(N)(H) 1-A(M)...	20	25 - 100	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
	25	25 - 100	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
	32	25 - 100	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
	40	25 - 100	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
	50	25 - 100	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
	63	25 - 100	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
	80	25 - 100	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
	100	25 - 100	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
	125	25 - 100	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
	160	25 - 100	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
NZMB(C)(N)(H) 2-A(M)(V)...	20	25 - 150	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
	25	25 - 150	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
	32	25 - 150	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
	40	25 - 150	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
	50	25 - 150	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
	63	25 - 150	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
	80	25 - 150	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
	90	25 - 150	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
	100	25 - 150	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
	125	25 - 150	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
	140	25 - 150	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
	160	25 - 150	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
	200	25 - 150	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
	220	25 - 150	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
	250	25 - 150	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
	300	25 - 150	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
NZMC(N)(H) 3-A(M)(V)...	220	36 - 150	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
	250	36 - 150	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
	320	36 - 150	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
	350	36 - 150	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
	400	36 - 150	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
	450	36 - 150	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
	500	36 - 150	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
	630	36 - 150	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
NZMN(H) 4-A(M)(V)...	550	50 - 100	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
	630	50 - 100	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
	800	50 - 100	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
	875	50 - 100	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
	1000	50 - 100	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
	1250	50 - 100	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
	1400	50 - 100	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
	1600	50 - 100	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	

Notes

B = Basic switching capacity, N = Normal switching capacity, H = High switching capacity, T = Total selectivity



18/100 IZM circuit-breakers, IN switch-disconnectors

Circuit-breaker IZM26

IZM...

		Izm20B...08...	Izm20B...10...	Izm20B...12...		
General						
Standards		IEC/EN 60947				
Ambient temperature	Storage	-40 - +70 (Devices with LCD display -20 - +70)				
	Operation (open)	-25 - +70 (Devices with LCD display -20 - +70)				
Built-in position						
Utility category		B	B	B		
Protection type		IP20, IP54 with protective cover				
Direction of incoming supply		Any				
Main contacts						
Rated operational current = Rated uninterrupted current	$I_n = I_u$	A	800	1000	1250	
Rated uninterrupted current at 50 °C ¹⁾	I_u	A	800	1000	1250	
Rated uninterrupted current at 60 °C ¹⁾	I_u	A	800	1000	1100	
Rated uninterrupted current at 70 °C ¹⁾	I_u	A	800	1000	1000	
Rated impulse withstand voltage	U_{imp}	V AC	8000	8000	8000	
Rated operational voltage	U_e	V AC	690	690	690	
Use in IT electrical power networks up to U = 440 V	I_{IT}	kA	21	21	21	
Use in IT electrical power networks up to U = 690 V	I_{IT}	kA	—	—	—	
Overvoltage category/pollution degree			III/3	III/3	III/3	
Rated insulation voltage	U_i	V	1000	1000	1000	
Switching capacity						
Rated short-circuit making capacity	Up to 440 V 50/60 Hz	I_{cm}	kA	105	105	105
	Up to 690 V 50/60 Hz	I_{cm}	kA	105	105	105
Rated short-time withstand current 50/60 Hz	$t = 1 \text{ s}$	I_{cw}	kA	50	50	50
	$t = 3 \text{ s}$	I_{cw}	kA	—	—	—
Rated short-circuit breaking capacity I_{cn}						
IEC/EN 60947 Operating sequence I_{cu} 0-t-CO						
Up to 240 V 50/60 Hz	I_{cu}	kA	50	50	50	50
Up to 440 V 50/60 Hz	I_{cu}	kA	50	50	50	50
Up to 690 V 50/60 Hz	I_{cu}	kA	50	50	50	50
Up to 1100 V 50/60 Hz	I_{cu}	kA	—	—	—	—
IEC/EN 60947 Operating sequence I_{cs} 0-t-CO-t-CO						
Up to 240 V 50/60 Hz	I_{cs}	kA	50	50	50	50
Up to 440 V 50/60 Hz	I_{cs}	kA	50	50	50	50
Up to 690 V 50/60 Hz	I_{cs}	kA	50	50	50	50
Up to 1100 V 50/60 Hz	I_{cs}	kA	—	—	—	—
Switching times						
Total opening delay		ms	30	30	30	30
Closing delay		ms	35	35	35	35
Closing delay electrical (via closing release)		ms	40	40	40	40
Opening delay electrical (via shunt release / undervoltage release)		ms	35/70	35/70	35/70	35/70
Opening delay via trip electronics (non-delayed short-circuit release)		ms	35	35	35	35
Durability						
Mechanical, without maintenance		Operations	12500	12500	12500	12500
Mechanical, with maintenance		Operations	20000	20000	20000	20000
Electrical, without maintenance		Operations	10000	10000	10000	10000
Electrical, with maintenance		Operations	10000	10000	10000	10000
Maximum operating frequency		Operations/h	60	60	60	60
Heat dissipation at rated operational current I_n	Fixed	W	60	95	150	260
3-phase symmetric loading	Withdrawable	W	110	170	260	260
Weight						
Fixed	3 pole	kg	43	43	43	43
	4 pole	kg	54	54	54	54
Withdrawable	3 pole	kg	48	48	48	48
	4 pole	kg	62	62	62	62
Empty cassette	3 pole	kg	34	34	34	34
	4 pole	kg	38	38	38	38

¹⁾ Permissible continuous current for circuit-breakers used at different temperatures within switchgear.
The expected internal temperatures can be estimated according to the applicable IEC regulations.



IZM20B...16...	IZM20B...20...	IZM20N...08...	IZM20N...10...	IZM20N...12...	IZM20N...16...	IZM20N...20...
IEC/EN 60947						
-40 - +70 (Devices with LCD display -20 - +70)						
-25 - +70 (Devices with LCD display -20 - +70)						
B	B	B	B	B	B	B
IP20, IP54 with protective cover						
Any						
1600	2000	800	1000	1250	1600	2000
1600	2000	800	1000	1250	1600	2000
1500	1800	800	1000	1100	1500	1800
1350	1650	800	1000	1000	1350	1650
8000	8000	8000	8000	8000	8000	8000
690	690	690	690	690	690	690
23	32	21	21	21	23	32
-	-	-	-	-	-	-
III/3	III/3	III/3	III/3	III/3	III/3	III/3
1000	1000	1000	1000	1000	1000	1000
105	105	137	137	137	137	137
105	105	137	137	137	137	137
50	50	65	65	65	65	65
-	30	40	40	40	40	40
50	50	65	65	65	65	65
50	50	65	65	65	65	65
-	-	-	-	-	-	-
50	50	65	65	65	65	65
50	50	65	65	65	65	65
-	-	-	-	-	-	-
30	30	30	30	30	30	30
35	35	35	35	35	35	35
40	40	40	40	40	40	40
35/70	35/70	35/70	35/70	35/70	35/70	35/70
35	35	35	35	35	35	35
12500	10000	12500	12500	12500	12500	10000
20000	16000	20000	20000	20000	20000	16000
10000	8000	10000	10000	10000	10000	8000
10000	8000	10000	10000	10000	10000	8000
60	60	60	60	60	60	60
240	280	45	70	110	180	280
420	560	90	140	220	360	560
43	43	43	43	43	43	43
54	54	54	54	54	54	54
48	48	48	48	48	48	48
62	62	62	62	62	62	62
34	34	34	34	34	34	34
38	38	38	38	38	38	38



18/102 IZM circuit-breakers, IN switch-disconnectors

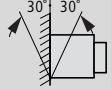
Circuit-breaker IZM26

IZM...

			IZM32B...08...	IZM32B...10...	IZM32B...12...
General					
Standards			IEC/EN 60947		
Ambient temperature	Storage	°C	-40 - +70 (Devices with LCD display -20 - +70)		
	Operation (open)	°C	-25 - +70 (Devices with LCD display -20 - +70)		
Built-in position					
Utility category			B	B	B
Protection type			IP20, IP54 with protective cover		
Direction of incoming supply			Any		
Main contacts					
Rated operational current = Rated uninterrupted current	$I_n = I_u$	A	800	1000	1250
Rated uninterrupted current at 50 °C ¹⁾	I_u	A	800	1000	1250
Rated uninterrupted current at 60 °C ¹⁾	I_u	A	800	1000	1250
Rated uninterrupted current at 70 °C ¹⁾	I_u	A	800	1000	1250
Rated impulse withstand voltage	U_{imp}	V AC	8000	8000	8000
Rated operational voltage	U_e	V AC	690	690	690
Use in IT electrical power networks up to U = 440 V	I_{IT}	kA	13	13	13
Overvoltage category/pollution degree			III/3	III/3	III/3
Rated insulation voltage	U_i	V	1000	1000	1000
Switching capacity					
Rated short-circuit making capacity	Up to 440 V 50/60 Hz	I_{cm}	kA	137	137
	Up to 690 V 50/60 Hz	I_{cm}	kA	137	137
Rated short-time withstand current 50/60 Hz	t = 1 s	I_{cw}	kA	65	65
	t = 3 s	I_{cw}	kA	—	—
Rated short-circuit breaking capacity I_{cn}					
IEC/EN 60947 Operating sequence I_{cu} O-t-CO					
	Up to 240 V 50/60 Hz	I_{cu}	kA	65	65
	Up to 440 V 50/60 Hz	I_{cu}	kA	65	65
	Up to 690 V 50/60 Hz	I_{cu}	kA	65	65
	Up to 1100 V 50/60 Hz	I_{cu}	kA	—	—
IEC/EN 60947 Operating sequence I_{cs} O-t-CO-t-CO					
	Up to 240 V 50/60 Hz	I_{cs}	kA	65	65
	Up to 440 V 50/60 Hz	I_{cs}	kA	65	65
	Up to 690 V 50/60 Hz	I_{cs}	kA	65	65
	Up to 1100 V 50/60 Hz	I_{cs}	kA	—	—
Switching times					
Total opening delay		ms	30	30	30
Closing delay		ms	35	35	35
Closing delay electrical (via closing release)		ms	40	40	40
Opening delay electrical (via shunt release / undervoltage release)		ms	35/70	35/70	35/70
Opening delay via trip electronics (non-delayed short-circuit release)		ms	35	35	35
Durability					
Mechanical, without maintenance		Operations		12500	12500
Mechanical, with maintenance		Operations		20000	20000
Electrical, without maintenance		Operations		10000	10000
Electrical, with maintenance		Operations		10000	10000
Maximum operating frequency		Operations/h		60	60
Heat dissipation at rated operational current I_n	Fixed	W	40	60	90
3-phase symmetric loading	Withdrawable	W	85	130	200
Weight					
Fixed	3 pole	kg	58	58	58
	4 pole	kg	72	72	72
Withdrawable	3 pole	kg	70	70	70
	4 pole	kg	88	88	88
Empty cassette	3 pole	kg	34	34	34
	4 pole	kg	38	38	38

Notes

1) Permissible continuous current for circuit-breakers used at different temperatures within switchgear.
The expected internal temperatures can be estimated according to the applicable IEC regulations.

IZM32B...16...	IZM32B...20...	IZM32B...25...	IZM32B...32...	IZM32N...08...	IZM32N...10...	IZM32N...12...
IEC/EN 60947						
-40 - +70 (Devices with LCD display -20 - +70)						
-25 - +70 (Devices with LCD display -20 - +70)						
		B	B	B	B	B
IP20, IP54 with protective cover						
Any						
1600	2000	2500	3200	800	1000	1250
1600	2000	2500	3100	800	1000	1250
1600	2000	2500	2800	800	1000	1250
1600	2000	2500	2550	800	1000	1250
8000	8000	8000	8000	8000	8000	8000
690	690	690	690	690	690	690
23	28	39	39	13	13	13
III/3	III/3	III/3	III/3	III/3	III/3	III/3
1000	1000	1000	1000	1000	1000	1000
137	137	137	137	179	179	179
137	137	137	137	179	179	179
65	65	65	65	85	85	85
-	50	50	50	65	65	65
65	65	65	65	85	85	85
65	65	65	65	85	85	85
65	65	65	65	85	85	85
65	65	65	65	85	85	85
-	-	-	-	-	-	-
30	30	30	30	30	30	30
35	35	35	35	35	35	35
40	40	40	40	40	40	40
35/70	35/70	35/70	35/70	35/70	35/70	35/70
35	35	35	35	35	35	35
12500	10000	8000	8000	10000	10000	10000
20000	16000	12800	12800	16000	16000	16000
10000	10000	8000	8000	10000	10000	10000
10000	10000	8000	8000	10000	10000	10000
60	60	60	60	60	60	60
150	190	200	320	35	50	70
330	330	500	800	70	95	140
58	63	68	68	68	68	68
72	78	86	86	86	86	86
70	75	86	86	80	80	80
88	94	112	112	102	102	102
34	58	58	60	34	34	34
38	60	60	73	38	38	38



18/104 IZM circuit-breakers, IN switch-disconnectors

Circuit-breaker IZM26

IZM...

			IZM32N...16...	IZM32N...20...	IZM32N...25...
General					
Standards			IEC/EN 60947		
Ambient temperature	Storage	°C	-40 - +70 (Devices with LCD display -20 - +70)		
	Operation (open)	°C	-25 - +70 (Devices with LCD display -20 - +70)		
Built-in position					
Utility category			B	B	B
Protection type			IP20, IP54 with protective cover		
Direction of incoming supply			Any		
Main contacts					
Rated operational current = Rated uninterrupted current	$I_n = I_u$	A	1600	2000	2500
Rated uninterrupted current at 50 °C ¹⁾	I_u	A	1600	2000	2500
Rated uninterrupted current at 60 °C ¹⁾	I_u	A	1600	2000	2500
Rated uninterrupted current at 70 °C ¹⁾	I_u	A	1600	2000	2500
Rated impulse withstand voltage	U_{imp}	V AC	8000	8000	8000
Rated operational voltage	U_e	V AC	690	690	690
Use in IT electrical power networks up to U = 440 V	I_{IT}	kA	23	28	39
Overvoltage category/pollution degree			III/3	III/3	III/3
Rated insulation voltage	U_i	V	1000	1000	1000
Switching capacity					
Rated short-circuit making capacity	Up to 440 V 50/60 Hz	I_{cm}	kA	179	179
	Up to 690 V 50/60 Hz	I_{cm}	kA	179	179
Rated short-time withstand current 50/60 Hz	t = 1 s	I_{cw}	kA	85	85
	t = 3 s	I_{cw}	kA	65	65
Rated short-circuit breaking capacity I_{cn}					
IEC/EN 60947 Operating sequence I_{cu} 0-t-CO					
Up to 240 V 50/60 Hz	I_{cu}	kA	85	85	85
Up to 440 V 50/60 Hz	I_{cu}	kA	85	85	85
Up to 690 V 50/60 Hz	I_{cu}	kA	85	85	85
Up to 1100 V 50/60 Hz	I_{cu}	kA	—	—	—
IEC/EN 60947 Operating sequence I_{cs} 0-t-CO-t-CO					
Up to 240 V 50/60 Hz	I_{cs}	kA	85	85	85
Up to 440 V 50/60 Hz	I_{cs}	kA	85	85	85
Up to 690 V 50/60 Hz	I_{cs}	kA	85	85	85
Up to 1100 V 50/60 Hz	I_{cs}	kA	—	—	—
Switching times					
Total opening delay		ms	30	30	30
Closing delay		ms	35	35	35
Closing delay electrical (via closing release)		ms	40	40	40
Opening delay electrical (via shunt release / undervoltage release)		ms	35/70	35/70	35/70
Opening delay via trip electronics (non-delayed short-circuit release)		ms	35	35	35
Durability					
Mechanical, without maintenance	Operations		10000	10000	8000
Mechanical, with maintenance	Operations		16000	16000	12800
Electrical, without maintenance	Operations		10000	10000	8000
Electrical, with maintenance	Operations		10000	10000	8000
Maximum operating frequency	Operations/h		60	60	60
Heat dissipation at rated operational current I_n	Fixed	W	120	190	200
3-phase symmetric loading	Withdrawable	W	240	380	500
Weight					
Fixed	3 pole	kg	68	68	70
	4 pole	kg	86	86	89
Withdrawable	3 pole	kg	80	80	88
	4 pole	kg	102	102	115
Empty cassette	3 pole	kg	34	34	58
	4 pole	kg	38	38	60

Notes

¹⁾ Permissible continuous current for circuit-breakers used at different temperatures within switchgear.
The expected internal temperatures can be estimated according to the applicable IEC regulations.

IZM32N...32...	IZM32H...08...	IZM32H...10...	IZM32H...12...	IZM32H...16...	IZM32H...20...	IZM32H...25...
IEC/EN 60947						
-40 - +70 (Devices with LCD display -20 - +70)						
-25 - +70 (Devices with LCD display -20 - +70)						
B	B	B	B	B	B	B
IP20, IP54 with protective cover						
Any						
3200	800	1000	1250	1600	2000	2500
3100	800	1000	1250	1600	2000	2500
2800	800	1000	1250	1600	2000	2500
2550	800	1000	1250	1600	2000	2500
8000	8000	8000	8000	8000	8000	8000
690	690	690	690	690	690	690
39	13	13	13	23	28	39
III/3	III/3	III/3	III/3	III/3	III/3	III/3
1000	1000	1000	1000	1000	1000	1000
179	210	210	210	210	210	210
179	179	179	179	179	179	179
85	85	85	85	85	85	85
65	65	65	65	65	65	65
85	100	100	100	100	100	100
85	100	100	100	100	100	100
85	85	85	85	85	85	85
-	-	-	-	-	-	-
85	100	100	100	100	100	100
85	100	100	100	100	100	100
85	85	85	85	85	85	85
-	-	-	-	-	-	-
30	30	30	30	30	30	30
35	35	35	35	35	35	35
40	40	40	40	40	40	40
35/70	35/70	35/70	35/70	35/70	35/70	35/70
35	35	35	35	35	35	35
8000	10000	10000	10000	10000	10000	8000
12800	16000	16000	16000	16000	16000	12800
8000	10000	10000	10000	10000	10000	8000
8000	10000	10000	10000	10000	10000	8000
60	60	60	60	60	60	60
320	30	50	70	120	190	200
800	60	95	140	240	380	500
70	68	68	68	68	68	70,
89	86	86	86	86	86	89
88	80	80	80	80	80	88
115	102	102	102	102	102	115
60	34	34	34	34	58	58
73	38	38	38	38	60	60



18/106 IZM circuit-breakers, IN switch-disconnectors

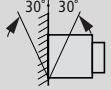
Circuit-breaker IZM26

IZM...

			Izm32H...32...	Izm32S...	Izm40N...40...
General					
Standards			IEC/EN 60947		
Ambient temperature	Storage	°C	-40 - +70 (Devices with LCD display -20 - +70)		
	Operation (open)	°C	-25 - +70 (Devices with LCD display -20 - +70)		
Built-in position					
Utility category			B	B	B
Protection type			IP20, IP54 with protective cover		
Direction of incoming supply			Any		
Main contacts					
Rated operational current = Rated uninterrupted current	$I_n = I_u$	A	3200	3200	4000
Rated uninterrupted current at 50 °C ¹⁾	I_u	A	3100	3100	4000
Rated uninterrupted current at 60 °C ¹⁾	I_u	A	2800	2800	4000
Rated uninterrupted current at 70 °C ¹⁾	I_u	A	2550	2550	3776
Rated impulse withstand voltage	U_{imp}	V AC	8000	8000	12000
Rated operational voltage	U_e	V AC	690	1100	690
Use in IT electrical power networks up to U = 440 V	I_{IT}	kA	39	—	48
Overvoltage category/pollution degree			III/3	III/3	III/3
Rated insulation voltage	U_i	V	1000	1100	1000
Switching capacity					
Rated short-circuit making capacity	Up to 440 V 50/60 Hz	I_{cm}	kA	210	210
	Up to 690 V 50/60 Hz	I_{cm}	kA	179	137
Rated short-time withstand current 50/60 Hz	$t = 1 \text{ s}$	I_{cw}	kA	85	—
	$t = 3 \text{ s}$	I_{cw}	kA	65	65
Rated short-circuit breaking capacity I_{cn}					
IEC/EN 60947 Operating sequence I_{cu} 0-t-CO					
	Up to 240 V 50/60 Hz	I_{cu}	kA	100	—
	Up to 440 V 50/60 Hz	I_{cu}	kA	100	85
	Up to 690 V 50/60 Hz	I_{cu}	kA	85	65
	Up to 1100 V 50/60 Hz	I_{cu}	kA	—	—
IEC/EN 60947 Operating sequence I_{cs} 0-t-CO-t-CO					
	Up to 240 V 50/60 Hz	I_{cs}	kA	100	85
	Up to 440 V 50/60 Hz	I_{cs}	kA	100	85
	Up to 690 V 50/60 Hz	I_{cs}	kA	85	65
	Up to 1100 V 50/60 Hz	I_{cs}	kA	—	—
Switching times					
Total opening delay			ms	30	30
Closing delay			ms	35	35
Closing delay electrical (via closing release)			ms	40	40
Opening delay electrical (via shunt release / undervoltage release)			ms	35/70	35/70
Opening delay via trip electronics (non-delayed short-circuit release)			ms	35	35
Durability					
Mechanical, without maintenance	Operations		Operations	8000	8000
Mechanical, with maintenance	Operations		Operations	12800	12800
Electrical, without maintenance	Operations		Operations	8000	8000
Electrical, with maintenance	Operations		Operations	8000	8000
Maximum operating frequency	Operations/h		Operations/h	60	60
Heat dissipation at rated operational current I_n 3-phase symmetric loading	Fixed		W	320	320
	Withdrawable		W	800	800
Weight					
Fixed	3 pole		kg	70	70
	4 pole		kg	89	89
Withdrawable	3 pole		kg	88,	88
	4 pole		kg	115	115
Empty cassette	3 pole		kg	60	60
	4 pole		kg	73	73

Notes

¹⁾ Permissible continuous current for circuit-breakers used at different temperatures within switchgear.
The expected internal temperatures can be estimated according to the applicable IEC regulations.

IZM40H...40...	IZM63N...40...	IZM63N...50...	IZM63N...63...	IZM63H...40...	IZM63H...50...	IZM63H...63...
IEC/EN 60947						
-40 - +70 (Devices with LCD display -20 - +70)						
-25 - +70 (Devices with LCD display -20 - +70)						
		B	B	B	B	B
IP20, IP54 with protective cover						
Any						
4000	4000	5000	6300	4000	5000	6300
4000	4000	5000	6200	4000	5000	6200
4000	4000	5000	5600	4000	5000	5600
3776	4000	5000	5100	4000	5000	5100
12000	8000	8000	8000	8000	8000	8000
690	690	690	690	690	690	690
48	-	-	-	-	-	-
III/3	III/3	III/3	III/3	III/3	III/3	III/3
1000	1000	1000	1000	1000	1000	1000
210	179	179	179	210	210	210
137	179	179	179	210	210	210
100	85	85	85	100	100	100
65	65	65	65	65	65	65
100	85	85	85	100	100	100
100	85	85	85	100	100	100
65	85	85	85	100	100	100
-	-	-	-	-	-	-
100	85	85	85	100	100	100
100	85	85	85	100	100	100
65	85	85	85	100	100	100
-	-	-	-	-	-	-
30	40	40	40	40	40	40
35	35	35	35	35	35	35
40	40	40	40	40	40	40
35/70	35/70	35/70	35/70	35/70	35/70	35/70
35	35	35	35	35	35	35
5000	5000	5000	5000	5000	5000	5000
8000	8000	8000	8000	8000	8000	8000
3000	3000	3000	3000	3000	3000	3000
3000	3000	3000	3000	3000	3000	3000
60	60	60	60	60	60	60
560	380	400	620	380	400	620
1100	750	1000	1550	750	1000	1550
83	108	125	125	108	125	125
105	145	163	163	145	163	163
98	139	157	157	139	157	157
121	166	200	200	166	200	200
60	60	60	60	60	60	60
73	73	73	73	73	73	73



18/108 IZM circuit-breakers, IN switch-disconnectors

IN26 switch-disconnectors

IN...

	IN20B...08...	IN20B...10...	IN20B...12...		
General					
Standards	IEC/EN 60947				
Ambient temperature					
Storage	-40 - +70 °C				
Operation (open)	-25 - +70 °C				
Built-in position					
Utility category	B	B	B		
Protection type	IP20, IP54 with protective cover				
Direction of incoming supply	Any				
Main contacts					
Rated operational current = Rated uninterrupted current	$I_n = I_u$	A	800	1000	1250
Rated uninterrupted current at 50 °C ¹⁾	I_u	A	800	1000	1250
Rated uninterrupted current at 60 °C ¹⁾	I_u	A	800	1000	1100
Rated uninterrupted current at 70 °C ¹⁾	I_u	A	800	1000	1000
Rated impulse withstand voltage	U_{imp}	V AC	8000	8000	8000
Rated operational voltage	U_e	V AC	690	690	690
Use in IT electrical power networks up to U = 440 V	I_{IT}	kA	21	21	21
Use in IT electrical power networks up to U = 690 V	I_{IT}	kA	—	—	—
Overvoltage category/pollution degree			III/3	III/3	III/3
Rated insulation voltage	U_i	V	1000	1000	1000
Switching capacity					
Rated short-circuit making capacity					
Up to 440 V 50/60 Hz	I_{cm}	kA	105	105	105
Up to 690 V 50/60 Hz	I_{cm}	kA	105	105	105
Rated short-time withstand current 50/60 Hz					
t = 1 s	I_{cw}	kA	50	50	50
t = 3 s	I_{cw}	kA	—	—	—
Switching times					
Total opening delay		ms	30	30	30
Closing delay		ms	35	35	35
Closing delay electrical (via closing release)		ms	40	40	40
Opening delay electrical (via shunt release / undervoltage release)		ms	35/70	35/70	35/70
Durability					
Mechanical, without maintenance	Operations		12500	12500	12500
Mechanical, with maintenance	Operations		20000	20000	20000
Electrical, without maintenance	Operations		10000	10000	10000
Electrical, with maintenance	Operations		10000	10000	10000
Maximum operating frequency	Operations/h		60	60	60
Heat dissipation at rated operational current I_n 3-phase symmetric loading					
Fixed		W	60	95	150
Withdrawable		W	110	170	260
Weight					
Fixed					
3 pole		kg	43	43	43
4 pole		kg	54	54	54
Withdrawable					
3 pole		kg	48	48	48
4 pole		kg	62	62	62
Empty cassette					
3 pole		kg	34	34	34
4 pole		kg	38	38	38

Notes

¹⁾ Permissible continuous current for circuit-breakers used at different temperatures within switchgear.
The expected internal temperatures can be estimated according to the applicable IEC regulations.



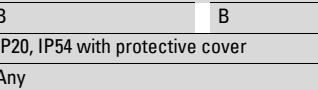
IN20B...16...	IN20B...20...	IN20N...08...	IN20N...10...	IN20N...12...	IN20N...16...	IN20N...20...
IEC/EN 60947						
-40 - +70						
-25 - +70						
						
B	B	B	B	B	B	B
IP20, IP54 with protective cover						
Any						
1600	2000	800	1000	1250	1600	2000
1600	2000	800	1000	1250	1600	2000
1500	1800	800	1000	1100	1500	1800
1350	1650	800	1000	1000	1350	1650
8000	8000	8000	8000	8000	8000	8000
690	690	690	690	690	690	690
23	32	21	21	21	23	32
-	-	-	-	-	-	-
III/3	III/3	III/3	III/3	III/3	III/3	III/3
1000	1000	1000	1000	1000	1000	1000
105	105	143	143	143	143	143
105	105	143	143	143	143	143
50	50	65	65	65	65	65
-	30	40	40	40	40	40
30	30	30	30	30	30	30
35	35	35	35	35	35	35
40	40	40	40	40	40	40
35/70	35/70	35/70	35/70	35/70	35/70	35/70
12500	10000	12500	12500	12500	12500	10000
20000	16000	20000	20000	20000	20000	16000
10000	8000	10000	10000	10000	10000	8000
10000	8000	10000	10000	10000	10000	8000
60	60	60	60	60	60	60
240	280	45	70	110	180	280
420	560	90	140	220	360	560
43	43	43	43	43	43	43
54	54	54	54	54	54	54
48	48	48	48	48	48	48
62	62	62	62	62	62	62
34	34	34	34	34	34	34
38	38	38	38	38	38	38



18/110 IZM circuit-breakers, IN switch-disconnectors

IN26 switch-disconnectors

IN...

	IN32B...08...	IN32B...10...	IN32B...12...		
General					
Standards	IEC/EN 60947				
Ambient temperature					
Storage	-40 - +70 °C	-40 - +70 °C	-40 - +70 °C		
Operation (open)	-25 - +70 °C	-25 - +70 °C	-25 - +70 °C		
Built-in position					
					
Utility category	B	B	B		
Protection type	IP20, IP54 with protective cover				
Direction of incoming supply	Any				
Main contacts					
Rated operational current = Rated uninterrupted current	$I_n = I_u$	A	800	1000	1250
Rated uninterrupted current at 50 °C ¹⁾	I_u	A	800	1000	1250
Rated uninterrupted current at 60 °C ¹⁾	I_u	A	800	1000	1250
Rated uninterrupted current at 70 °C ¹⁾	I_u	A	800	1000	1250
Rated impulse withstand voltage	U_{imp}	V AC	8000	8000	8000
Rated operational voltage	U_e	V AC	690	690	690
Use in IT electrical power networks up to U = 440 V	I_{IT}	kA	13	13	13
Overvoltage category/pollution degree			III/3	III/3	III/3
Rated insulation voltage	U_i	V	1000	1000	1000
Switching capacity					
Rated short-circuit making capacity					
Up to 440 V 50/60 Hz	I_{cm}	kA	143	143	143
Up to 690 V 50/60 Hz	I_{cm}	kA	143	143	143
Rated short-time withstand current 50/60 Hz					
t = 1 s	I_{cw}	kA	65	65	65
t = 3 s	I_{cw}	kA	—	—	—
Switching times					
Total opening delay		ms	30	30	30
Closing delay		ms	35	35	35
Closing delay electrical (via closing release)		ms	40	40	40
Opening delay electrical (via shunt release / undervoltage release)		ms	35/70	35/70	35/70
Durability					
Mechanical, without maintenance	Operations		12500	12500	12500
Mechanical, with maintenance	Operations		20000	20000	20000
Electrical, without maintenance	Operations		10000	10000	10000
Electrical, with maintenance	Operations		10000	10000	10000
Maximum operating frequency	Operations/h		60	60	60
Heat dissipation at rated operational current I_n 3-phase symmetric loading					
Fixed		W	40	60	90
Withdrawable		W	85	130	200
Weight					
Fixed					
3 pole		kg	58	58	58
4 pole		kg	72	72	72
Withdrawable					
3 pole		kg	70	70	70
4 pole		kg	88	88	88
Empty cassette					
3 pole		kg	34	34	34
4 pole		kg	38	38	38

Notes

¹⁾ Permissible continuous current for circuit-breakers used at different temperatures within switchgear.
The expected internal temperatures can be estimated according to the applicable IEC regulations.



IN32B...16...	IN32B...20...	IN32B...25...	IN32B...32...
IEC/EN 60947			
-40 - +70	-40 - +70	-40 - +70	-40 - +70
-25 - +70	-25 - +70	-25 - +70	-25 - +70
			
B	B	B	B
IP20, IP54 with protective cover			
Any			
1600	2000	2500	3200
1600	2000	2500	3100
1600	2000	2500	2800
1600	2000	2500	2550
8000	8000	8000	8000
690	690	690	690
23	28	39	39
III/3	III/3	III/3	III/3
1000	1000	1000	1000
143	143	143	143
143	143	143	143
65	65	65	65
-	50	50	50
30	30	30	30
35	35	35	35
40	40	40	40
35/70	35/70	35/70	35/70
12500	10000	8000	8000
20000	16000	12800	12800
10000	10000	8000	8000
10000	10000	8000	8000
60	60	60	60
150	190	200	320
330	330	500	800
58	63	68	68
72	78	86	86
70	75	86	86
88	94	112	112
34	58	58	60
38	60	60	73



18/112 IZM circuit-breakers, IN switch-disconnectors

IN26 switch-disconnectors

IN...

	IN32N...08...	IN32N...10...	IN32N...12...		
General					
Standards	IEC/EN 60947				
Ambient temperature					
Storage	-40 - +70 °C				
Operation (open)	-25 - +70 °C				
Built-in position					
Utility category	B				
Protection type	IP20, IP54 with protective cover				
Direction of incoming supply	Any				
Main contacts					
Rated operational current = Rated uninterrupted current	$I_n = I_u$	A	800	1000	1250
Rated uninterrupted current at 50 °C ¹⁾	I_u	A	800	1000	1250
Rated uninterrupted current at 60 °C ¹⁾	I_u	A	800	1000	1250
Rated uninterrupted current at 70 °C ¹⁾	I_u	A	800	1000	1250
Rated impulse withstand voltage	U_{imp}	V AC	8000	8000	8000
Rated operational voltage	U_e	V AC	690	690	690
Use in IT electrical power networks up to $U = 440$ V	I_{IT}	kA	13	13	13
Overvoltage category/degree of pollution			III/3	III/3	III/3
Rated insulation voltage	U_i	V	1000	1000	1000
Switching capacity					
Rated short-circuit making capacity					
Up to 440 V 50/60 Hz	I_{cm}	kA	187	187	187
Up to 690 V 50/60 Hz	I_{cm}	kA	187	187	187
Rated short-time withstand current 50/60 Hz					
$t = 1$ s	I_{cw}	kA	85	85	85
$t = 3$ s	I_{cw}	kA	65	65	65
Switching times					
Total opening delay		ms	30	30	30
Closing delay		ms	35	35	35
Closing delay electrical (via closing release)		ms	40	40	40
Opening delay electrical (via shunt release / undervoltage release)		ms	35/70	35/70	35/70
Durability					
Mechanical, without maintenance	Operations		10000	10000	10000
Mechanical, with maintenance	Operations		16000	16000	16000
Electrical, without maintenance	Operations		10000	10000	10000
Electrical, with maintenance	Operations		10000	10000	10000
Maximum operating frequency	Operations/h		60	60	60
Heat dissipation at rated operational current I_n 3-phase symmetric loading					
Fixed		W	35	50	70
Withdrawable		W	70	95	140
Weight					
Fixed					
3 pole		kg	68	68	68
4 pole		kg	86	86	86
Withdrawable					
3 pole		kg	80	80	80
4 pole		kg	102	102	102
Empty cassette					
3 pole		kg	34	34	34
4 pole		kg	38	38	38

Notes

¹⁾ Permissible continuous current for circuit-breakers used at different temperatures within switchgear.
The expected internal temperatures can be estimated according to the applicable IEC regulations.

IN32N...16...	IN32N...20...	IN32N...25...	IN32N...32...	IN32S...
IEC/EN 60947				
-40 - +70				
-25 - +70				
				
B				
IP20, IP54 with protective cover				
Any				
1600	2000	2500	3200	3200
1600	2000	2500	3100	3100
1600	2000	2500	2800	2800
1600	2000	2500	2550	2550
8000	8000	8000	8000	8000
690	690	690	690	690
23	28	39	39	39
III/3	III/3	III/3	III/3	III/3
1000	1000	1000	1000	1100
187	187	187	187	53
187	187	187	187	53
85	85	85	85	-
65	65	65	65	-
30	30	30	30	30
35	35	35	35	35
40	40	40	40	40
35/70	35/70	35/70	35/70	35/70
10000	10000	8000	8000	8000
16000	16000	12800	12800	12800
10000	10000	8000	8000	8000
10000	10000	8000	8000	8000
60	60	60	60	60
120	190	200	320	320
240	380	500	800	800
68	68	70	70	70
86	86	89	89	89
80	80	88	88	88
102	102	115	115	115
34	58	58	60	60
38	60	60	73	73



18/114 IZM circuit-breakers, IN switch-disconnectors

IN26 switch-disconnectors

IN...

	IN40N...40...	IN40H...40...	IN63N...40...
General			
Standards	IEC/EN 60947		
Ambient temperature			
Storage	°C -40 - +70	°C -40 - +70	°C -40 - +70
Operation (open)	°C -25 - +70	°C -25 - +70	°C -25 - +70
Built-in position			
Utility category	B		
Protection type	IP20, IP54 with protective cover		
Direction of incoming supply	Any		
Main contacts			
Rated operational current = Rated uninterrupted current	$I_n = I_u$	A 4000	A 4000
Rated uninterrupted current at 50 °C ¹⁾	I_u	A 4000	A 4000
Rated uninterrupted current at 60 °C ¹⁾	I_u	A 4000	A 4000
Rated uninterrupted current at 70 °C ¹⁾	I_u	A 3776	A 3776
Rated impulse withstand voltage	U_{imp}	V AC 12000	V AC 12000
Rated operational voltage	U_e	V AC 690	V AC 690
Use in IT electrical power networks up to U = 440 V	I_{IT}	kA 48	kA 48
Use in IT electrical power networks up to U = 690 V	I_{IT}	kA —	kA —
Oversupply category/pollution degree		III/3	III/3
Rated insulation voltage	U_i	V 1000	V 1000
Switching capacity			
Rated short-circuit making capacity			
Up to 440 V 50/60 Hz	I_{cm}	kA 187	kA 220
Up to 690 V 50/60 Hz	I_{cm}	kA 187	kA 220
Rated short-time withstand current 50/60 Hz			
t = 1 s	I_{cw}	kA 85	kA 100
t = 3 s	I_{cw}	kA 65	kA 65
Switching times			
Total opening delay		ms 30	ms 30
Closing delay		ms 35	ms 35
Closing delay electrical (via closing release)		ms 40	ms 40
Opening delay electrical (via shunt release / undervoltage release)		ms 35/70	ms 35/70
Durability			
Mechanical, without maintenance	Operations		5000
Mechanical, with maintenance	Operations		8000
Electrical, without maintenance	Operations		3000
Electrical, with maintenance	Operations		3000
Maximum operating frequency	Operations/h		60
Heat dissipation at rated operational current I_n 3-phase symmetric loading			
Fixed		W 560	W 560
Withdrawable		W 1100	W 1100
Weight			
Fixed			
3 pole		kg 83	kg 83
4 pole		kg 105	kg 105
Withdrawable			
3 pole		kg 98	kg 98
4 pole		kg 121	kg 121
Empty cassette			
3 pole		kg 55	kg 55
4 pole		kg 64	kg 64

Notes

1) Permissible continuous current for circuit-breakers used at different temperatures within switchgear.
The expected internal temperatures can be estimated according to the applicable IEC regulations.



IN63N...50...	IN63N...63...	IN63H...40...	IN63H...50...	IN63H...63...
IEC/EN 60947				
-40 - +70	-40 - +70	-40 - +70	-40 - +70	-40 - +70
-25 - +70	-25 - +70	-25 - +70	-25 - +70	-25 - +70
				
B				
IP20, IP54 with protective cover				
Any				
5000	6300	4000	5000	6300
5000	6200	4000	5000	6200
5000	5600	4000	5000	5600
5000	5100	4000	5000	5100
8000	8000	8000	8000	8000
690	690	690	690	690
-	-	-	-	-
-	-	-	-	-
III/3	III/3	III/3	III/3	III/3
1000	1000	1000	1000	1000
187	187	220	220	220
187	187	220	220	220
85	85	100	100	100
65	65	65	65	65
40	40	40	40	40
35	35	35	35	35
40	40	40	40	40
35/70	35/70	35/70	35/70	35/70
5000	5000	5000	5000	5000
8000	8000	8000	8000	8000
3000	3000	3000	3000	3000
3000	3000	3000	3000	3000
60	60	60	60	60
400	620	380	400	620
1000	1550	750	1000	1550
125	125	108	125	125
163	163	145	163	163
157	157	139	157	157
200	200	166	200	200
103	103	103	103	103
103	103	103	103	103



18/116 IZM circuit-breakers, IN switch-disconnectors

Accessories for IZM26

IZM-AS, IZM-OTS, IZM-CS, IZM-S...

			Auxiliary contact, overload trip switch and cell signalling switch					
			IZM-AS...	IZM-OTS	IZM-CS...			
Rated breaking capacity								
Inductive load								
250 V AC	A		10	10	10			
125 V DC	A		0.5	0.5	0.5			
250 V DC	A		0.25	0.25	0.25			
			Voltage releases					
			IZM-ST24DC	IZM-ST48DC	IZM-ST60DC	IZM-ST110AD	IZM-ST230AD	
			IZM-STS24DC	IZM-STS48DC		IZM-STS110AD	IZM-STS230AD	
Rated control voltage								
AC 50/60 Hz	U _s	V	–	–	–	110 - 127	208 - 240	
DC	U _s	V	24	48	60	110 - 125	220 - 250	
Power consumption								
AC		VA	–	–	–	(pick-up 450)	(pick-up 450)	
DC		W	(pick-up 250)	(pick-up 250)	(pick-up 250)	(pick-up 450)	(pick-up 450)	
Response time of the circuit-breaker with U_s			ms	35	35	35	35	
Operating range								
Drop-out voltage								
AC operated 50/60 Hz	Drop-out	x U _c	–	–	–	–	–	
pick-up voltage			pick-up	x U _c	Acc. to IEC standard	Acc. to IEC standard	Acc. to IEC standard	
					Acc. to IEC standard	Acc. to IEC standard	Acc. to IEC standard	
			Closing releases					
			IZM-SR24DC	IZM-SR48DC	IZM-SR60DC	IZM-SR110AD	IZM-SR230AD	
Rated control voltage								
AC 50/60 Hz	U _s	V	–	–	–	110 - 127	208 - 240	
DC	U _s	V	24	48	60	110 - 125	220 - 250	
Power consumption								
AC		VA	–	–	–	(pick-up 450)	(pick-up 450)	
DC		W	(pick-up 250)	(pick-up 250)	(pick-up 250)	(pick-up 450)	(pick-up 450)	
Response time of the circuit-breaker with U_s			ms	40	40	40	40	
Operating range								
Drop-out voltage								
AC operated 50/60 Hz	Drop-out	x U _c	–	–	–	–	–	
pick-up voltage			pick-up	x U _c	Acc. to IEC standard	Acc. to IEC standard	Acc. to IEC standard	
					Acc. to IEC standard	Acc. to IEC standard	Acc. to IEC standard	



			Under-voltage releases			
			IZM-UVR24DC	IZM-UVR32DC	IZM-UVR48DC	IZM-UVR60DC
Rated control voltage						
AC 50/60 Hz	U _s	V	—	—	—	—
DC	U _s	V	24	32	48	60
Power consumption						
AC		VA	—	—	—	—
DC		W	18 (pick-up 250)	15 (pick-up 275)	18 (pick-up 275)	18 (pick-up 275)
Response time of the circuit-breaker with U_s	ms		70	70	70	70
Operating range						
Drop-out voltage						
AC operated 50/60 Hz	Drop-out	x U _c	Acc. to IEC standard	Acc. to IEC standard	Acc. to IEC standard	Acc. to IEC standard
pick-up voltage	pick-up	x U _c	Acc. to IEC standard	Acc. to IEC standard	Acc. to IEC standard	Acc. to IEC standard

			Under-voltage releases				
			IZM-UVR110AC	IZM-UVR110DC	IZM-UVR220DC	IZM-UVR230AC	IZM-UVR400AC
Rated control voltage							
AC 50/60 Hz	U _s	V	110 - 127	—	—	208 - 240	380 - 415
DC	U _s	V	—	110 - 125	220 - 250	—	—
Power consumption							
AC		VA	10 (pick-up 450)	—	—	10 (pick-up 400)	10 (pick-up 480)
DC		W	—	10 (pick-up 450)	10 (pick-up 450)	—	—
Response time of the circuit-breaker with U_s	ms		70	70	70	70	70
Operating range							
Drop-out voltage							
AC operated 50/60 Hz	Drop-out	x U _c	Acc. to IEC standard	Acc. to IEC standard	Acc. to IEC standard	Acc. to IEC standard	Acc. to IEC standard
pick-up voltage	pick-up	x U _c	Acc. to IEC standard	Acc. to IEC standard	Acc. to IEC standard	Acc. to IEC standard	Acc. to IEC standard

			Motor operator						
			IZM-M24DC	IZM-M48DC	IZM-M60DC	IZM-M110DC	IZM-M220DC	IZM-M110AC	IZM-M230AC
Rated control voltage									
AC 50/60 Hz	U _s	V	—	—	—	—	—	110 - 127	208 - 240
DC	U _s	V	24	48	60	110 - 125	220 - 250	—	—
Necessary time required for charging of the spring-operated stored energy mechanism at 1 x U_s	s		5	5	5	5	5	5	5
Rated operational current	I _n	A	12	5	5	2	1	2	1
Starting current		A	36	25	25	12	6	12	6
Power consumption									
AC 50/60 Hz		VA	300	250	250	250	250	250	250
DC		W	300	250	250	250	250	250	250



18/118 IZM circuit-breakers, IN switch-disconnectors

Communication modules

IZMX-PCAM, IZMX-MCAM, IZM-PMINT, IZM-MMINT

	IZMX-PCAM	IZMX-MCAM	IZM-PMINT	IZM-MMINT
General				
Dimensions (W x H x D)	24 x 105 x 80 mm	24 x 105 x 80 mm	91 x 111 x 88 mm	92 x 111 x 88 mm
Mounting	Auxiliary contact strip or 35 mm top-hat rail	Auxiliary contact strip or 35 mm top-hat rail	DIN rail (top hat rail) 35 mm	DIN rail (top hat rail) 35 mm
Protection type	IP20	IP20	IP20	IP20
Mounting position	–	–	horizontal	horizontal
Power supply	24 V DC	24 V DC	24 - 150 V DC or 100 - 240 V AC (50/60 Hz)	24 - 125 V DC or 120 V AC (50/60 Hz)
LED indicators	DP Tx Rx Status	Modbus Tx Rx Status	DP Status INCOM Rx Tx Status	Modbus Tx Rx INCOM Rx Tx Status
Network				
INCOM	–	–	Plug-in screw terminals	Plug-in screw terminals
PROFIBUS	SUB-D 9-pole, socket	–	SUB-D 9-pole, socket	–
Modbus	–	Plug-in screw terminals	–	Plug-in screw terminals
Function	Slave	Slave	Slave	Slave
Interface	RS484	RS485	RS484	RS485
Protocol	PROFIBUS-DP	Modbus-RTU	PROFIBUS-DP	Modbus-RTU
Baud rate	Automatic search up to 12 MBit/s	1200/4800/9600/19200 Bit/s, adjustable via Digitrip	Automatic search up to 12 MBit/s	1200/9600/19200 bits/s, adjustable through coding switch
Bus terminating resistors	In plug as required	121 Ω, externally switchable	In plug as required	121 Ω, activated through coding switch
INCOM ¹⁾	–	–	100 Ω, activated through coding switch	100 Ω, activated through coding switch
Bus addresses	1 - 127, can be set through Digitrip	1 - 247, can be set through Digitrip	1 - 127	1 - 127
Number of IZM26 devices on INCOM	–	–	1	32
Maximum distance	2.4 km	1.2 km	2.4 km	1.2 km
INCOM	–	–	3	3
Supported functions	Cyclical data transfer	Function code: 03 = read register 04 = read word variables 08 = connection test, 16 = write register	Cyclical data transfer	Function code: 03 = read register 04 = read word variables 08 = connection test, 16 = write register

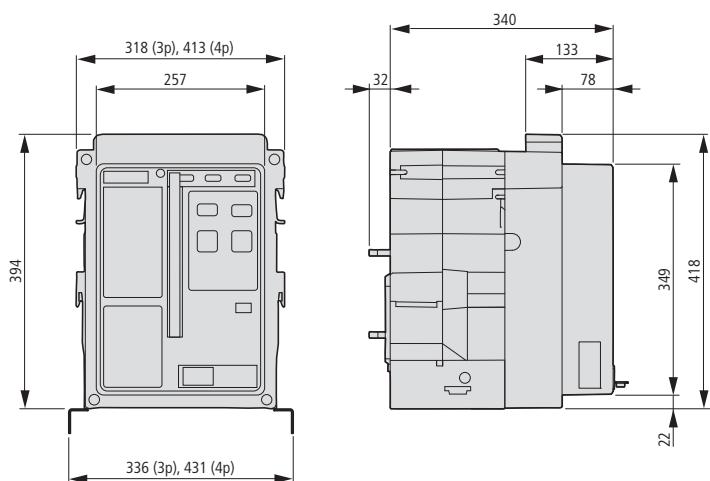
Notes

¹⁾ INCOM = system bus (communication connection between Digitrip and fieldbus module)

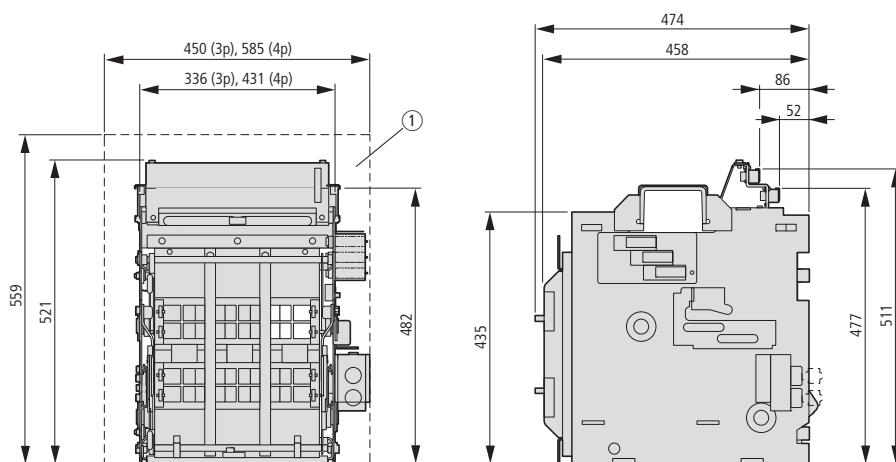


IN20, IZM20 Fixed mounted

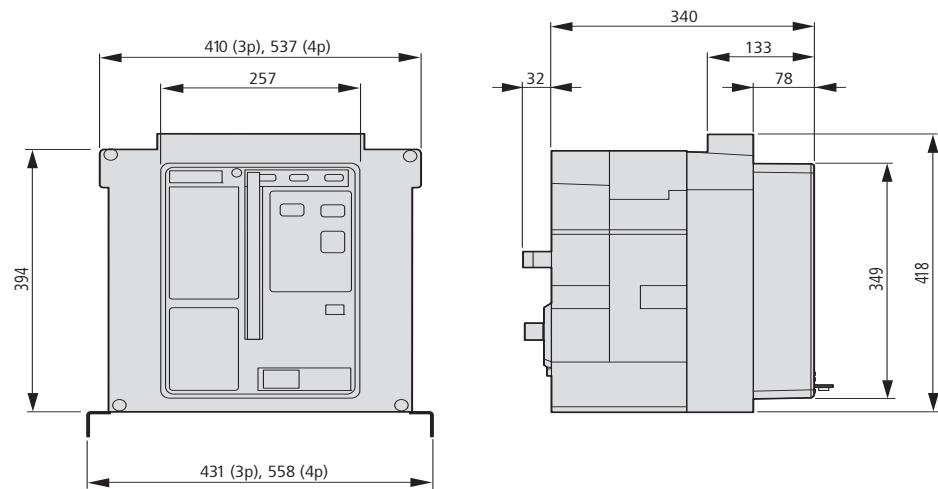
IN20...F, IZM20...F

**IN20, IZM20 Withdrawable units**

IN20...W, IZM20...W

**IN32, IZM32 Fixed mounted**

IN32...F, IZM32...F...



① Recommended minimum enclosure size (not shown to scale)



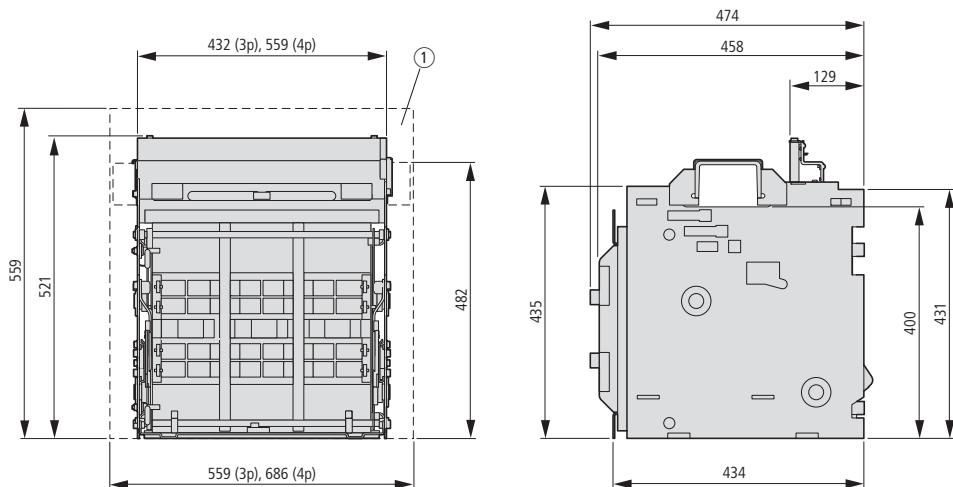
18/120 IZM circuit-breakers, IN switch-disconnectors

Basic devices IZM26

IZM26, IN26

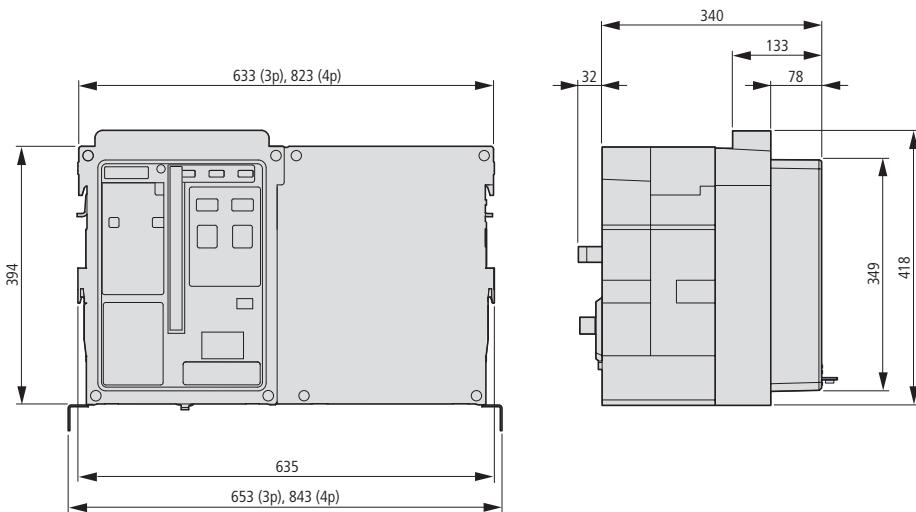
IN32, IZM32 Withdrawable units

IN32...W, IZM32...W...



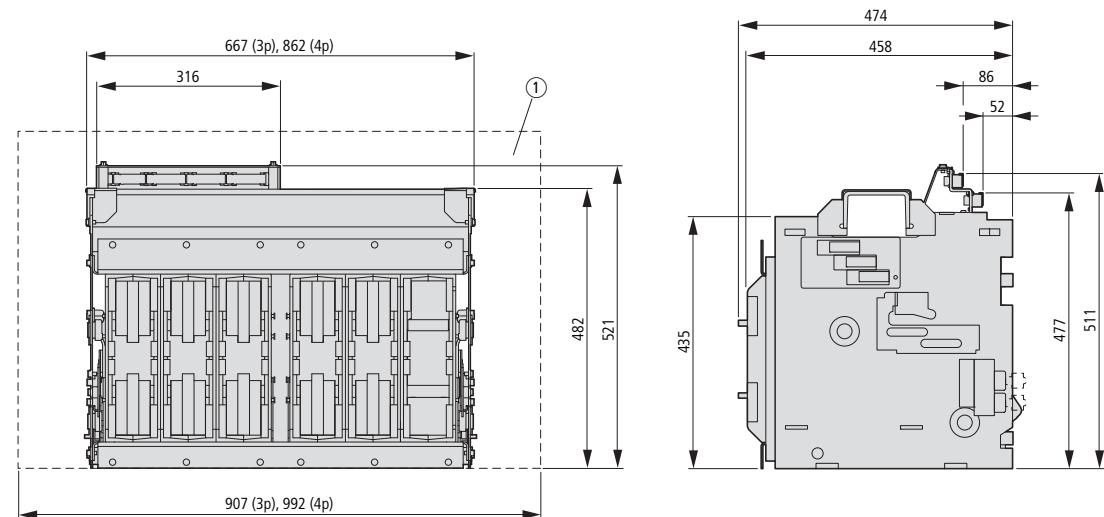
IN40, IZM40 Fixed mounted

IN40...F, IZM40...F



IN40, IZM40 Withdrawable units

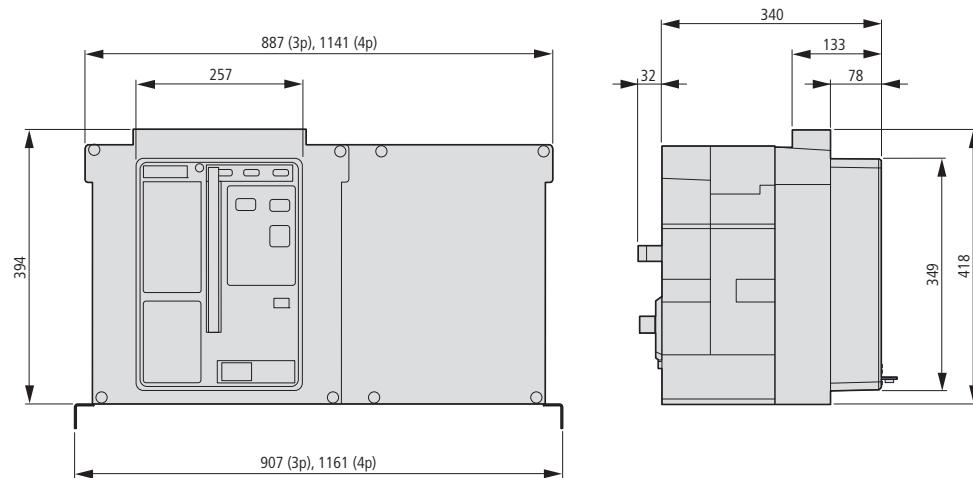
IN40...W, IZM40...W



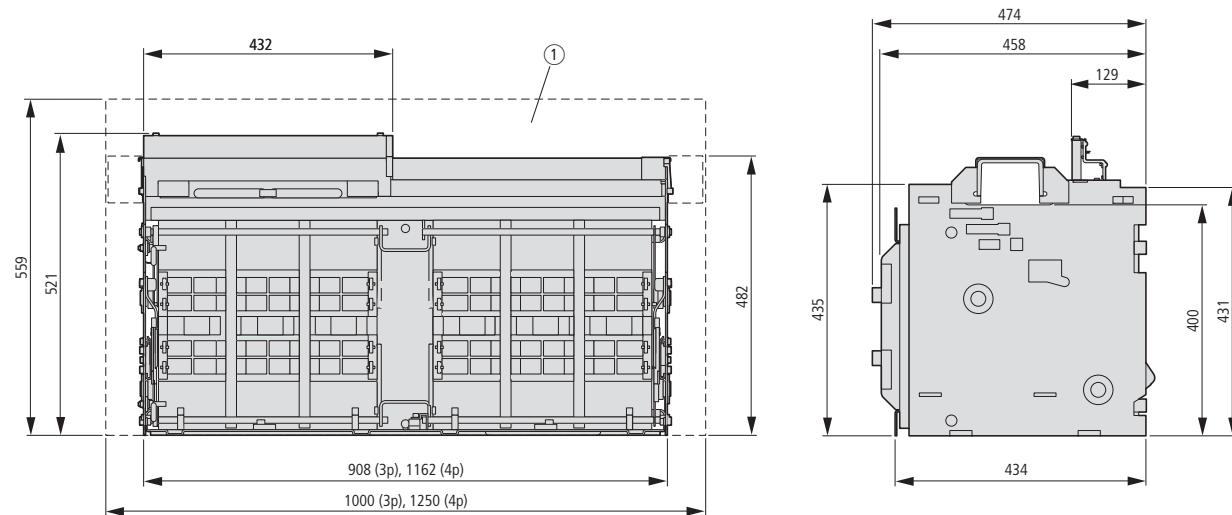
(1) Recommended minimum enclosure size (not shown to scale)

IN63, IZM63 Fixed mounted

IN63...F, IZM63...F

**IN63, IZM63 Withdrawable units**

IN63...W, IZM63...W



① Recommended minimum enclosure size (not shown to scale)

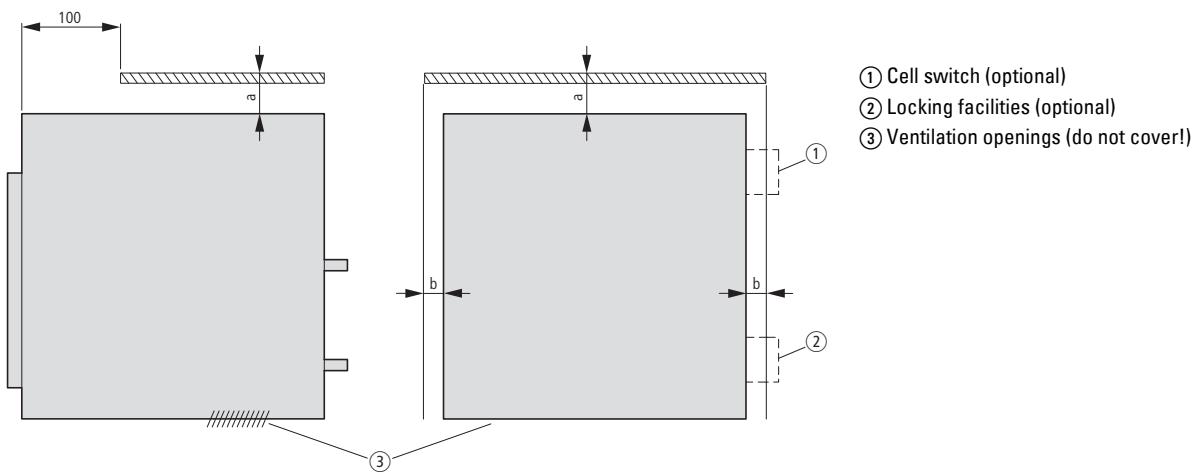


18/122 IZM circuit-breakers, IN switch-disconnectors

Minimum clearances

Recommended safety clearances

The following information about safety distances is intended to provide a guideline for the installation of circuit-breakers in an enclosure.



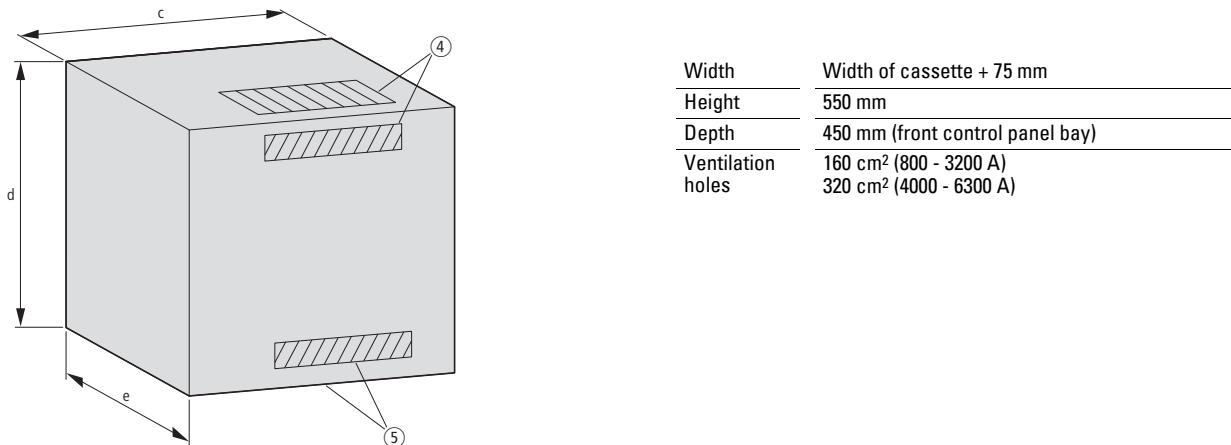
	Enclosure clearance		To insulated surface	To grounded metal surface	With cell switch or locking facilities
		mm	mm	mm	mm
Withdrawable units	a	0	0	0	0
	b	25	25	25	25/75
Fixed mounted	a	150	250	—	—
	b	30	70	—	—

Recommended enclosure clearance and ventilation

The illustration shows a typical enclosure.

The table below lists the associated minimum distances between enclosures and ventilation openings.

This information is intended as a guideline for constructing a suitable circuit-breaker enclosure.



④ Top or rear vent

⑤ Rear or lower vent

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