

## Circuit-breaker, 3p, 1000 A, fixed

Powering Business Worldwide™

Part no. IZMX40H3-V10F Article no. 149734 Catalog No. RESC103B52-NMNN2MN1X

**Delivery programme** 

Delivery programme			
Product range			Air circuit-breakers/switch-disconnectors
Product range			Open circuit-breakers
Current Range			Up to 4000 A
Protective function			Selective operation
Installation type			Fixed
Construction size			IZMX40
Release system			Electronic release
Standard/Approval			IEC
Number of poles			3 pole
Degree of Protection			IP20, IP55 with protective cover, IP41 door sealing frame
			suitable for zone selectivity optionally fittable by user with comprehensive accessories
Rated current = rated uninterrupted current	$I_n = I_u$	Α	1000
Breaking capacity Icu = Ics to 440 V 50/60 Hz	I <sub>cu</sub>	kA	105
Breaking capacity Ics to 440 V 50/60 Hz	Ics	kA	105
Overload release, min.	l <sub>r</sub>	Α	500
Overload release, max.	I <sub>r</sub>	Α	1000
Non-delayed I	$I_i = I_n x \dots$		2 - 12, OFF
Delayed X >	$I_{sd} = I_r x \dots$		2 - 10
Notes			
Main terminals not included, need to be ordered separately.			

# **Technical data**

#### General

donorui			
Standards			IEC/EN 60947
Ambient temperature			
Storage	θ	°C	-40 - +70
Operating (open)		°C	-25 - +70
Mounting position			30°   30°
			30° 30°
Utilization category			В
Degree of Protection			IP20, IP55 with protective cover, IP41 door sealing frame
Direction of incoming supply			as required
Main conducting paths			
Rated current = rated uninterrupted current	$I_n = I_u$	Α	1000

Rated uninterrupted current at 50 °C

Rated uninterrupted current at 60 °C

Iu

Α

1000

1000

Rated impulses withstand voltage	Rated uninterrupted current at 70 °C	Iu	Α	1000
Rate deperational voltage   Va	Rated impulse withstand voltage		V AC	12000
Desire IIT officetrical process reproduction degree   1			V AC	690
Name				
Rated short-circuit making capacity  up to 440 V 5088 Hz  up to 588 V 5080 Hz  up to 588 V 5080 Hz  up to 588 V 5080 Hz  t = 1		'11	10.1	
Switching capacity   Icm   I		H-	V	
Rated short-circuit making capacity		O <sub>I</sub>	V	1000
up to 440 V 50/80 Hz  up to 890 V 58/80 Hz  I = 1 s  Rated short-time withstand current 50/60 Hz  1 = 1 s  1 = 3 s  Rated short-time withstand current 50/60 Hz  1 = 1 s  1 = 3 s  Rated short-time withstand current 50/60 Hz  1 = 1 s  1 = 3 s  Rated short-time withstand current 50/60 Hz  1 = 1 s  Rated short-time withstand current 50/60 Hz  1 = 1 s  Rated short-time withstand current 50/60 Hz  1 = 1 s  Rated short-time withstand current 50/60 Hz  1 = 1 s  Rated short-time withstand current 50/60 Hz  1 = 1 s  Rated short-time withstand current 50/60 Hz  1 = 1 s  1 =		I <sub>cm</sub>		
up to 680 V SQR0 Hz  t = 1 s  t = 3 lew	up to 440 V 50/60 Hz		kA	231
Rated short-time withstand current 5080 Hz	up to 690 V 50/60 Hz		kA	166
t = 1 s   low   kA   85  Rated short-circuit breaking capacity lon   lon   lon    IECEN 80947 operating sequence I lon 0-ECO   lon   kA   105  up to 240 V 5000 Mz   lon   kA   105  up to 240 V 5000 Mz   lon   kA   105  IECEN 80947 operating sequence I lon 0-ECO-ECO   lon   kA   105  IECEN 80947 operating sequence I lon 0-ECO-ECO   lon   kA   105  IECEN 80947 operating sequence I lon 0-ECO-ECO   lon 0-ECO-ECO-ECO   lon 0-ECO-ECO-ECO-ECO   lon 0-ECO-ECO-ECO   lon 0-ECO-ECO-ECO-ECO   lon 0-ECO-ECO-ECO-ECO   lon 0-ECO-ECO-ECO-ECO-ECO-ECO   lon 0-ECO-ECO-ECO-ECO-ECO-ECO-ECO-ECO   lon 0-ECO-ECO-ECO-ECO-ECO-ECO-ECO-ECO-ECO-ECO		CIII		
Le 3 s   low   kA   66   Rated short-circuit breaking capacity I <sub>cn</sub>   I <sub>cn</sub>   I <sub>cn</sub>   IEC/EN 09947 operating sequence I <sub>cu</sub> 0-t-CO   up to 249 V 50000 Hz   I <sub>cu</sub>   kA   105   up to 489 V 50000 Hz   I <sub>cu</sub>   kA   75   IEC/EN 09947 operating sequence I <sub>cu</sub> 0-t-CO-t-CO   up to 249 V 50000 Hz   I <sub>cu</sub>   kA   105   up to 489 V 50000 Hz   I <sub>cu</sub>   kA   105   up to 489 V 50000 Hz   I <sub>cu</sub>   kA   105   up to 489 V 50000 Hz   I <sub>cu</sub>   kA   105   up to 489 V 50000 Hz   I <sub>cu</sub>   kA   105   up to 489 V 50000 Hz   I <sub>cu</sub>   kA   105   up to 489 V 50000 Hz   I <sub>cu</sub>   kA   105   up to 489 V 50000 Hz   I <sub>cu</sub>   kA   105   up to 489 V 50000 Hz   I <sub>cu</sub>   kA   105   up to 489 V 50000 Hz   I <sub>cu</sub>   kA   105   up to 489 V 50000 Hz   I <sub>cu</sub>   kA   105   up to 489 V 50000 Hz   I <sub>cu</sub>   kA   105   up to 489 V 50000 Hz   I <sub>cu</sub>   kA   105   up to 489 V 50000 Hz   I <sub>cu</sub>   kA   105   up to 489 V 50000 Hz   I <sub>cu</sub>   kA   105   up to 489 V 50000 Hz   I <sub>cu</sub>   kA   105   up to 489 V 50000 Hz   I <sub>cu</sub>   kA   105   up to 589 V 50000 Hz   I <sub>cu</sub>   kA   105   up to 589 V 50000 Hz   I <sub>cu</sub>   kA   105   up to 589 V 50000 Hz   I <sub>cu</sub>   kA   105   up to 589 V 50000 Hz   I <sub>cu</sub>   kA   105   up to 589 V 50000 Hz   I <sub>cu</sub>   kA   105   up to 589 V 50000 Hz   I <sub>cu</sub>   kA   105   up to 589 V 50000 Hz   I <sub>cu</sub>   kA   105   up to 589 V 50000 Hz   I <sub>cu</sub>   kA   105   up to 589 V 50000 Hz   I <sub>cu</sub>   kA   105   up to 589 V 50000 Hz   I <sub>cu</sub>   kA   105   up to 589 V 50000 Hz   I <sub>cu</sub>   kA   105   up to 589 V 50000 Hz   I <sub>cu</sub>   kA   105   up to 589 V 50000 Hz   I <sub>cu</sub>   kA   105   up to 589 V 50000 Hz   I <sub>cu</sub>   kA   105   up to 589 V 50000 Hz   I <sub>cu</sub>   kA   105   up to 589 V 50000 Hz   I <sub>cu</sub>   kA   105   up to 589 V 50000 Hz   I <sub>cu</sub>   kA   105   up to 589 V 50000 Hz   I <sub>cu</sub>   kA   105   up to 589 V 50000 Hz   I <sub>cu</sub>   kA   105   up to 589 V 50000 Hz   I <sub>cu</sub>   kA   105   up to 589 V 50000 Hz   I <sub>cu</sub>   kA   105   up to 589 V 50000 Hz   I <sub>cu</sub>   kA   105   up to 589 V 50000 Hz   I <sub>cu</sub>   kA   105   up to 589 V 50000 Hz   I <sub>cu</sub>   kA   105   up to 589 V 50000 Hz   I <sub>cu</sub>   kA   105   up to 589 V 5		l <sub>ow</sub>	kA	85
Rated short-circuit breaking capacity I <sub>cn</sub> I <sub>co</sub> I <sub>co</sub> No947 operating sequence I <sub>co</sub> O+cO up to 240 V 5000 Hz I <sub>co</sub> NA 105 Up to 440 V 5000 Hz I <sub>co</sub> NA 105 Up to 5000 Hz I <sub>co</sub> NA 10				
IEC/EN 60947 operating sequence log 0+CO up to 240 V 50/800 Hz up to 460 V 50/800 Hz up to 890 V 50/800 Hz up				
up to 240 V 50/60 Hz  up to 440 V 50/60 Hz  up to 690 V 50/60 Hz  up to 690 V 50/60 Hz  up to 690 V 50/60 Hz  up to 240 V 50/60 Hz  up to 440 V 50/60 Hz  up to 690 V 50/60 Hz  Closing delay via spring release  ns 35  Total opening delay via undervoltage release  ns 37  Total opening delay via undervoltage release  ns 37  Total opening delay on non-delayed short-circuit release (up to complete arc quenching)  Maximum operating frequency  Operations/n  Fixed mounting  W 40  Weight  Fixed mounting  S pole  4-pole  1 x 60 x 10  These are values used in separate switchgear. The actual values will det the temperature around the circuit-breaker, which is influenced by the at temperature, the degree of protection (Pt), the mounting height, the part of warrant ventilation. Depending on the specific switchgear design, the restrict one farting, which can destable dimination (Pt) increasing the restrict one of the principle specific switchgear design, the restrict one destruction the circuit-breaker, which is influenced by the at temperature in the circuit-breaker, which is influenced by the at temperature in the circuit-breaker, which is influenced by the at temperature in the circuit-breaker, which is influenced by the at temperature in the circuit-breaker, which is influenced by the at temperature in the circuit-breaker specific switchgear design, the restrict one destruction of the principle specific switchgear design, the restrict one of the principle specific switchgear design, the restrict one of the principle specific switchgear design, the restrict one of the principle specific switchgear design, the restrict of the principle specific switchgear design, the restrict one of the principle specific switchgear desig	2 1 2	·cn		
up to 440 V 50/60 Hz			LΛ	105
up to 690 V 50/60 Hz  IEC/EN 60947 operating sequence I <sub>cs</sub> 0-t-CO-t-CO  up to 240 V 50/60 Hz  up to 440 V 50/60 Hz  up to 690 V 50/60 Hz  l <sub>cs</sub> kA  105  Operating times  Closing delay via spring release  Total opening delay via shunt release  ms  35  Total opening delay via undervoltage release  ms  22  Total opening delay via undervoltage release  ms  37  Total opening delay via undervoltage release  ms  45  Maximum operating frequency  Operations/h  Heat dissipation at rated current I <sub>n</sub> Fixed mounting  W 40  Weight  Terminal capacities  Copper bar  Fixad mounting  Black  Black  M 1 x 60 x 10  These are values used in separate switchgear. The actual values will det the temperature around the circus-breaker, which is influenced by the are any external verifiation. Depending on the specific switchgear cap no specific and detailed in derating, which can then be compensated for by rice assing the sectional area. Temperature rise tests in the specific switchgear cap no specific and detailed in derating, which can then be compensated for by rice assing the sectional derical default of circus-breaker, switchgear cap no specific and detailed in derating, which can then be compensated for by rice assing the sectional derical default of circus breaker, switchgear cap no specific and detailed in derating, which can then be compensated for by rice assing the sectional area. Temperature rise tests in the specific switchgear cap no specific and detailed in derating, which can then be compensated for by rice assing the sectional area. Temperature rise tests in the specific switchgear cap no specific and detailed into derating the switchgear cap no specific and detailed into derating the switchgear cap no specific and detailed into derating the switchgear cap no specific and detailed into derating the switchgear cap no specific and detailed the cap tests the specific switchgear cap no specific and detailed the cap				
IEC/EN 60947 operating sequence I cs 0-t-CO-t-CO  up to 240 V 50/60 Hz  up to 440 V 50/60 Hz  les kA 105  up to 890 V 50/60 Hz  les kA 75  Operating times  Closing delay via spring release Total opening delay via shunt release Total opening delay via undervoltage release Total opening delay via undervoltage release Total opening delay via undervoltage release  Total opening delay via undervoltage release  Total opening delay via undervoltage release  Total opening delay via undervoltage release  Total opening delay via undervoltage release  Total opening delay via undervoltage release  Total opening delay via undervoltage release  Total opening delay via undervoltage release  Total opening delay via undervoltage release  Total opening delay via undervoltage release  Total opening delay via undervoltage release  Weight  Fixed mounting  W 40  Weight  Fixed mounting  Black  Image: A 24  A 24  A 25  A 26  A 2				
up to 240 V 50/60 Hz  up to 440 V 50/60 Hz  les kA 105  Up to 690 V 50/60 Hz  les kA 75  Operating times  Closing delay via spring release  Total opening delay via sundervoltage release  Total opening delay via undervoltage release  Total opening delay via undervoltage release  Total opening delay via undervoltage release  Total opening delay on non-delayed short-circuit release (up to complete arc quenching)  Maximum operating frequency  Operations/h Heat dissipation at rated current l <sub>0</sub> Fixed mounting  3-pole  4-pole  Kg 43  4-pole  Terminal capacities  Copper bar  Fixed mounting  Black  mm 1 x 60 x 10  These are values used in separate switchgear. The actual values will de temperature around the circuit-breaker, which is influenced by the na temperature, the degree of protection (IP), the mounting height, the partie result in dergating, which can then be compensated for by increasing the sectional area. Temperature around the circuit-breaker, which is influenced by the na temperature undersearce result in separate switchgear. The actual values will descend the sectional area. Temperature around the circuit-breaker, which is influenced by the na temperature undersearce results tests in the specific switchgear can pro specific and detailed information.  Permissible continuous current for circuit-breakers operating in switchby  Permissible continuous current for circuit-breakers operating in switchby	' '	I <sub>cu</sub>	kA	75
up to 440 V 50/60 Hz  up to 690 V 50/60 Hz  les kA 75  Operating times  Closing delay via spring release ms 35  Total opening delay via shunt release ms 22  Total opening delay via undervoltage release ms 37  Total opening delay via undervoltage release ms 37  Total opening delay on non-delayed short-circuit release (up to complete arc quenching)  Maximum operating frequency  Operations/h Heat dissipation at rated current ln  Fixed mounting  W 40  Weight  Fixed mounting  3-pole kg 43  4-pole kg 56  Terminal capacities  Copper bar  Fixed mounting  Black  Mm 1 x 60 x 10  These are values used in separate switchpear. The actual values will dep the temperature around the circuit-breaker, which is influenced by the an temperature around the circuit-breaker, which is influenced by the an temperature around the circuit-breaker, which is influenced by the an temperature around the circuit-breaker, which is influenced by the an temperature around the circuit-breaker, which is influenced by the an temperature around the circuit-breaker, which is influenced by the an temperature the degree of protection (IP), the mounting height, the partial and extension and prescribe sections alone and prescribe sections are repeated which is influenced by the an temperature rise tests in the specific switchgear can prospectific and detailed information.  Permissible continuous current for circuit-breakers operating in switchby				
up to 690 V 50/60 Hz  Operating times  Closing delay via spring release Total opening delay via shunt release Total opening delay via shunt release Total opening delay via undervoltage release  Total opening delay on non-delayed short-circuit release (up to complete arc quenching)  Maximum operating frequency Operations/h Heat dissipation at rated current In Fixed mounting W 40  Weight  Fixed mounting 3-pole kg 43 4-pole kg 56  Terminal capacities  Copper bar  Fixed mounting Black  mm 1 x 60 x 10  These are values used in separate switchgear. The actual values will dep the temperature, the degree of protection (IP), the mounting the result of any experience design, the result in derating, which can then be compensated for by increasing the sectional are pleafured under the sectional are released in formation.  Permissible continuous current for circuit-breakers operating in switchby experience of the sectional release tests in the specific switchgear can pro specific and detailed information.	up to 240 V 50/60 Hz	I <sub>cs</sub>	kA	105
Operating times  Closing delay via spring release  Total opening delay via shunt release  Total opening delay via undervoltage release  ms 37  Total opening delay via undervoltage release  ms 37  Total opening delay on non-delayed short-circuit release (up to complete arc quenching)  Maximum operating frequency  Operations/h  Fixed mounting  W 40  Weight  Fixed mounting  3-pole  4-pole  4-pole  Soper bar  Fixed mounting  Black  mm 1 x 60 x 10  These are values used in separate switchgear. The actual values will det the temperature around the circuit-breaker, which is influenced by the at temperature, the degree of protection (Pf), the mounting the view of the sectional arching on the specific switchgear design, the result in derating, which can then be compensated for by increasing the sectional archington.  Permissible continuous current for circuit-breakers operating in switchby expecting and detailed information.	up to 440 V 50/60 Hz	I <sub>cs</sub>	kA	105
Closing delay via spring release Total opening delay via shunt release Total opening delay via undervoltage release  Total opening delay via undervoltage release  Total opening delay on non-delayed short-circuit release (up to complete arc quenching)  Maximum operating frequency  Operations/h  Heat dissipation at rated current I <sub>n</sub> Fixed mounting  Weight  Fixed mounting  3-pole 4-pole 4-pole 4-pole 5-copper bar  Fixed mounting  Black  Minumental capacities  These are values used in separate switchgear. The actual values will dep the temperature, the degree of protection (IP), the mounting height, the partial vary external ventiation. Depending on the specific switchgear design, the rescult in derating, which can then be compensated for by increasing the sectional area. Temperature rise tests in the specific switchgear can pro specific and detailed information.  Permissible continuous current for circuit-breakers operating in switchby  Permissible continuous current for circuit-breakers operating in switchby  Permissible continuous current for circuit-breakers operating in switchby	up to 690 V 50/60 Hz	I <sub>cs</sub>	kA	75
Total opening delay via shunt release Total opening delay via undervoltage release  Total opening delay via undervoltage release  Total opening delay via undervoltage release  Total opening delay on non-delayed short-circuit release (up to complete arc quenching)  Maximum operating frequency  Operations/h  Eixed mounting  W 40  Weight  Fixed mounting  3-pole  4-pole  4-pole  5-coper bar  Fixed mounting  Black  Mm  These are values used in separate switchgear. The actual values will dep the temperature, the degree of protection (IP), the mounting ye near the temperature, the degree of protection (IP), the mounting ye result in derating, which can then be compensated for by increasing the secult in derating, which can then be compensated for by increasing the secult in derating, which can then be compensated for by increasing the secult in derating, which can then be compensated for by increasing the secult in derating, which can then be compensated for by increasing the secult in derating and area. Emperature rise tests in the specific switchgear can pro specific and detailed information.  Permissible continuous current for circuit-breakers operating in switchby	Operating times			
Total opening delay via undervoltage release ms 37  Total opening delay on non-delayed short-circuit release (up to complete arc quenching)  Maximum operating frequency Operations/h Heat dissipation at rated current In Fixed mounting Weight  Fixed mounting 3-pole kg 43 4-pole kg 56  Terminal capacities  Copper bar Fixed mounting Black mm 1 x 60 x 10  These are values used in separate switchgear. The actual values will dep the temperature around the circuit-breaker, which is influenced by the partia any external ventilation. Depending on the specific switchgear design, the result in derating, which can then be compensated for by increasing the sectional area. Temperature rise tests in the specific switchgear can pro specific and detailed information.  Permissible continuous current for circuit-breakers operating in switchb	Closing delay via spring release		ms	35
Total opening delay on non-delayed short-circuit release (up to complete arc quenching)  Maximum operating frequency  Operations/h  Fixed mounting  W 40  Weight  Fixed mounting  3-pole kg 43  4-pole kg 56  Terminal capacities  Copper bar  Fixed mounting  Black  mm 1 x 60 x 10  These are values used in separate switchgear. The actual values will dep the temperature, the degree of protection (IP), the mounting his period of the temperature around the circuit-breaker, which is influenced by the are temperature, the degree of protection (IP), the mounting any external ventilation. Depending on the specific switchgear can prospecific and detailed information.  Permissible continuous current for circuit-breakers operating in switchb	Total opening delay via shunt release		ms	22
quenching)  Maximum operating frequency  Operations/h  Fixed mounting  W 40  Weight  Fixed mounting  3-pole  kg 43  4-pole  Reminal capacities  Copper bar  Fixed mounting  Black  mm 1 x 60 x 10  These are values used in separate switchgear. The actual values will depthe the temperature around the circuit-breaker, which is influenced by the around any external ventilation. Depending on the specific switchgear design, the result in derating, which can then be compensated for by increasing the sectional area. Temperature rise tests in the specific switchgear can prospecific and detailed information.  Permissible continuous current for circuit-breakers operating in switchb	Total opening delay via undervoltage release		ms	37
Maximum operating frequency  Heat dissipation at rated current I <sub>n</sub> Fixed mounting  Weight  Fixed mounting  3-pole kg 43  4-pole kg 56  Terminal capacities  Copper bar  Fixed mounting  Black mm 1 x 60 x 10  These are values used in separate switchgear. The actual values will dee the temperature around the circuit-breaker, which is influenced by the art temperature, the degree of protection (IP), the mounting height, the partia any external ventilation. Depending on the specific switchgear design, the result in derating, which can then be compensated for by increasing the sectional area. Temperature rise tests in the specific switchgear can prospecific and detailed information.  Permissible continuous current for circuit-breakers operating in switchb			ms	45
Heat dissipation at rated current In  Fixed mounting  W 40  Weight  Fixed mounting  3-pole kg 43  4-pole kg 56  Terminal capacities  Copper bar  Fixed mounting  Black mm 1 x 60 x 10  These are values used in separate switchgear. The actual values will det the temperature around the circuit-breaker, which is influenced by the an temperature, the degree of protection (IP), the mounting height, the partial values will dereating, which can then be compensated for by increasing the sectional area. Temperature rise tests in the specific switchgear can prospecific and detailed information.  Permissible continuous current for circuit-breakers operating in switchb		Operations/h		co
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Fixed mounting  3-pole  kg 43  4-pole  Terminal capacities  Copper bar  Fixed mounting  Black  mm 1 x 60 x 10  These are values used in separate switchgear. The actual values will det the temperature, the degree of protection (IP), the mounting height, the partiany external ventilation. Depending on the specific switchgear design, the sectional area. Temperature rise tests in the specific switchgear can prospecific and detailed information.  Permissible continuous current for circuit-breakers operating in switchb	_		VV	40
4-pole  Terminal capacities  Copper bar  Fixed mounting  Black  mm 1 x 60 x 10  These are values used in separate switchgear. The actual values will dep the temperature around the circuit-breaker, which is influenced by the attemperature, the degree of protection (IP), the mounting height, the parting any external ventilation. Depending on the specific switchgear design, the sectional area. Temperature rise tests in the specific switchgear can prospecific and detailed information.  Permissible continuous current for circuit-breakers operating in switchb				
Terminal capacities  Copper bar  Fixed mounting  Black  mm 1 x 60 x 10  These are values used in separate switchgear. The actual values will dep the temperature around the circuit-breaker, which is influenced by the an temperature, the degree of protection (IP), the mounting height, the partial any external ventilation. Depending on the specific switchgear design, the sectional area. Temperature rise tests in the specific switchgear can prospecific and detailed information.  Permissible continuous current for circuit-breakers operating in switchb	3-pole		kg	43
Fixed mounting  Black  mm  1 x 60 x 10  These are values used in separate switchgear. The actual values will depend the temperature around the circuit-breaker, which is influenced by the attemperature, the degree of protection (IP), the mounting height, the partial any external ventilation. Depending on the specific switchgear design, the result in derating, which can then be compensated for by increasing the sectional area. Temperature rise tests in the specific switchgear can prospecific and detailed information.  Permissible continuous current for circuit-breakers operating in switchb	4-pole		kg	56
Fixed mounting  Black  mm 1 x 60 x 10  These are values used in separate switchgear. The actual values will depend the temperature around the circuit-breaker, which is influenced by the attemperature, the degree of protection (IP), the mounting height, the partial any external ventilation. Depending on the specific switchgear design, the sectional area. Temperature rise tests in the specific switchgear can prospecific and detailed information.  Permissible continuous current for circuit-breakers operating in switchb	Terminal capacities			
Black  mm 1 x 60 x 10  These are values used in separate switchgear. The actual values will dep the temperature around the circuit-breaker, which is influenced by the at temperature, the degree of protection (IP), the mounting height, the partir any external ventilation. Depending on the specific switchgear design, the result in derating, which can then be compensated for by increasing the sectional area. Temperature rise tests in the specific switchgear can pro specific and detailed information.  Permissible continuous current for circuit-breakers operating in switchb	Copper bar			
These are values used in separate switchgear. The actual values will dependent the temperature around the circuit-breaker, which is influenced by the attemperature, the degree of protection (IP), the mounting height, the partial any external ventilation. Depending on the specific switchgear design, the result in derating, which can then be compensated for by increasing the sectional area. Temperature rise tests in the specific switchgear can prospecific and detailed information.  Permissible continuous current for circuit-breakers operating in switchb	Fixed mounting			
the temperature around the circuit-breaker, which is influenced by the ail temperature, the degree of protection (IP), the mounting height, the partit any external ventilation. Depending on the specific switchgear design, the result in derating, which can then be compensated for by increasing the sectional area. Temperature rise tests in the specific switchgear can prospecific and detailed information.  Permissible continuous current for circuit-breakers operating in switchb	Black		mm	1 x 60 x 10
				These are values used in separate switchgear. The actual values will depend on the temperature around the circuit-breaker, which is influenced by the ambient temperature, the degree of protection (IP), the mounting height, the partitions, and any external ventilation. Depending on the specific switchgear design, this may result in derating, which can then be compensated for by increasing the cross-sectional area. Temperature rise tests in the specific switchgear can provide specific and detailed information.
				Permissible continuous current for circuit-breakers operating in switchboards at various internal ambient temperatures. The switchboard's internal ambient temperature should be estimated using the calculation methods of IEC regulation.

# Design verification as per IEC/EN 61439

Technical data for design verification			
Rated operational current for specified heat dissipation	In	Α	1000
Equipment heat dissipation, current-dependent	$P_{\text{vid}}$	W	40
Operating ambient temperature min.		°C	-25
Operating ambient temperature max.		°C	70

C/EN 61439 design verification	
10.2 Strength of materials and parts	
10.2.2 Corrosion resistance	Meets the product standard's requirements.
10.2.3.1 Verification of thermal stability of enclosures	Meets the product standard's requirements.
10.2.3.2 Verification of resistance of insulating materials to normal heat	Meets the product standard's requirements.
10.2.3.3 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects	Meets the product standard's requirements.
10.2.4 Resistance to ultra-violet (UV) radiation	Meets the product standard's requirements.
10.2.5 Lifting	Does not apply, since the entire switchgear needs to be evaluated.
10.2.6 Mechanical impact	Does not apply, since the entire switchgear needs to be evaluated.
10.2.7 Inscriptions	Meets the product standard's requirements.
10.3 Degree of protection of ASSEMBLIES	Does not apply, since the entire switchgear needs to be evaluated.
10.4 Clearances and creepage distances	Meets the product standard's requirements.
10.5 Protection against electric shock	Does not apply, since the entire switchgear needs to be evaluated.
10.6 Incorporation of switching devices and components	Does not apply, since the entire switchgear needs to be evaluated.
10.7 Internal electrical circuits and connections	Is the panel builder's responsibility.
10.8 Connections for external conductors	Is the panel builder's responsibility.
10.9 Insulation properties	
10.9.2 Power-frequency electric strength	Is the panel builder's responsibility.
10.9.3 Impulse withstand voltage	Is the panel builder's responsibility.
10.9.4 Testing of enclosures made of insulating material	Is the panel builder's responsibility.
10.10 Temperature rise	The panel builder is responsible for the temperature rise calculation. Eaton wi provide heat dissipation data for the devices.
10.11 Short-circuit rating	Is the panel builder's responsibility. The specifications for the switchgear mus observed.
10.12 Electromagnetic compatibility	Is the panel builder's responsibility. The specifications for the switchgear mus observed.
10.13 Mechanical function	The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

## **Technical data ETIM 6.0**

Low-voltage industrial components (EG000017) / Power circuit-breaker for trafo/generator/installation prot. (EC000228)

Electric engineering, automation, process control engineering / Low-voltage switch technology / Circuit breaker (LV < 1 kV) / Circuit breaker for power transformer, generator and system protection (eci@ss8.1-27-37-04-09 [AJZ716010])

protection (ecl@ss8.1-27-37-04-09 [AJZ716010])		
Rated permanent current lu	А	1000
Rated voltage	V	690 - 690
Rated short-circuit breaking capacity Icu at 400 V, 50 Hz	kA	105
Overload release current setting	А	500 - 1000
Adjustment range short-term delayed short-circuit release	А	2000 - 10000
Adjustment range undelayed short-circuit release	Α	2000 - 12000
Integrated earth fault protection		No
Type of electrical connection of main circuit		Rail connection
Device construction		Built-in device fixed built-in technique
Suitable for DIN rail (top hat rail) mounting		No
DIN rail (top hat rail) mounting optional		No
Number of auxiliary contacts as normally closed contact		0
Number of auxiliary contacts as normally open contact		0
Number of auxiliary contacts as change-over contact		2
Switched-off indicator available		Yes
With under voltage release		No
Number of poles		3
Position of connection for main current circuit		Back side
Type of control element		Push button
Complete device with protection unit		Yes
Motor drive integrated		No
Motor drive optional		Yes
Degree of protection (IP)		IP20