

Protection of distribution systems

Compact NS circuit breakers from 630b up to 3200 A



Compact NS800L.



Compact NS2000H.

Compact circuit breakers

Number of poles				
Control	manual	toggle		
	electric	direct or extended rotary handle		
Type of circuit breaker				
Connections	fixed	front connection		
		rear connection		
		front connection with bare cables		
	withdrawable (on chassis)	front connection		
		rear connection		
Electrical characteristics as per Nema AB1				
Breaking capacity at 60 Hz (kA)		240 V		
		480 V		
		600 V		
Electrical characteristics as per IEC 60947-2 and EN 60947-2				
Rated current (A)	In	50 °C		
		65 °C ⁽¹⁾		
Rated insulation voltage (V)	Ui			
Rated impulse withstand voltage (kV)	Uimp			
Rated operational voltage (V)	Ue	AC 50/60 Hz		
Type of circuit breaker				
Ultimate breaking capacity (kA rms)	Manual	Icu	AC	220/240 V
			50/60 Hz	380/415 V
				440 V
	Ics	AC	220/240 V	
		50/60 Hz	380/415 V	
			440 V	
Electrical	Icu	AC	220/240 V	
		50/60 Hz	380/415 V	
			440 V	
	Ics	AC	220/240 V	
		50/60 Hz	380/415 V	
			440 V	
Short-time withstand current (kArms)	Icw	AC	1 s	
		50/60 Hz	3 s	
Integrated instantaneous protection		kA peak ±10 %		
Suitability for isolation				
Utilisation category				
Durability (C-O cycles)	mechanical			
		electrical	440 V	In/2
			690 V	In
			In/2	
			In	
Pollution degree				

(1) 65 °C with vertical connections. See the temperature derating tables for other types of connections.

(2) Ics: 100 % Icu for breaking capacity 440V/500V/660V
Ics: 75 % Icu for breaking capacity 220V/380V.

NS630b				NS800				NS1000				NS1250				NS1600				NS1600b				NS2000				NS2500				NS3200			
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Protection of distribution systems

Compact NS circuit breakers from 630b up to 3200 A

Compact circuit breakers

Protection and measurements

Interchangeable control units

Overload protection long time **I_r** (I_n x ...)

Short-circuit protection short time **I_{sd}** (I_r x ...)
instantaneous **I_i** (I_n x ...)

Earth-fault protection **I_g** (I_n x ...)

Residual earth-leakage protection **I_{Δn}**

Zone selective interlocking **ZSI**

Protection of the fourth pole

Current measurements

Power measurements

Advanced protection

Quick view

Remote communication by bus

Device-status indication

Device remote operation ⁽²⁾

Transmission of settings

Indication and identification of protection devices and alarms

Transmission of measured current values

Compact circuit breakers

Additional indication and control auxiliaries

Indication contacts

Voltage releases MX shunt release/MN undervoltage release

Installation

Accessories terminal extensions and spreaders
terminal shields and interphase barriers
escutcheons

Dimensions fixed devices, front connections (mm) 3P

H x W x D 4P

Weight fixed devices, front connections (kg) 3P

4P

Source changeover system (see section on "source changeover systems")

Manual, remote-operated and automatic source changeover systems

⁽¹⁾ Except 1600b-3200.

⁽²⁾ With NS630b...NS1600, remote operation is possible with electrically operated device.
With NS1600...NS3200, remote operation is not possible.

	NS630b	NS800	NS1000	NS1250	NS1600	NS1600b	NS2000	NS2500	NS3200				
Micrologic													
	2.0	5.0	6.0	2.0A	5.0A	6.0A	7.0A	2.0E	5.0E	6.0E	5.0P ⁽¹⁾	6.0P ⁽¹⁾	7.0P ⁽¹⁾
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327 x 210 x 147						350 x 420 x 160							
327 x 280 x 147						350 x 535 x 160							
14						24							
18						36							
■						-							