

## Compact NS Molded Case Circuit Breakers

All compact NS circuit breakers are equipped with a Micrologic control unit that can be changed on site, control units are designed to protect Power circuits and loads, alarms may be programmed for remote indications.

Measurements of current, voltage, frequency, power and power quality continuity of service and energy management.

Protection: protection thresholds and delays are set using the adjustment dials.

### 1. Overload protection

- True rms long-time protection;
- Thermal memory: thermal image before and after tripping;
- Setting accuracy may be enhanced by limiting the setting range using a different long-time rating plug;
- Overload protection can be cancelled using a specific LT rating plug "Off";

### 2. Short-circuit protection

- Short-time (rms) and instantaneous protection;
- Selection of I<sup>2</sup>t type (On or Off) for short-time delay;

Indications: overload indication by alarm LED on the front, the LED goes on when the current exceeds the long-time trip threshold.



NS1000N



NS1600N

Compact NS circuit breakers			NS800N	NS1000N	NS1250N	NS1600N	NS2000N	
Rated insulation voltage	U <sub>i</sub>					800V		
Rated impulse withstand voltage	U <sub>imp</sub>					8kV		
Rated operational voltage	U <sub>e</sub>	AC50/60Hz				690V		
Suitability for isolation	IEC60947-2		■	■	■	■	■	
Number of poles			3	3	3	3	3	
Utilisation category			B	B	B	B	B	
Control	Manual	With toggle	■	■	■	■	■	
		With direct rotary handl	■	■	■	■	■	
	Electric		■	■	■	■	■	
Versions	Fixed	Front connection	■	■	■	■	■	
		Rear connection	■	■	■	■	-	
	Withdrawable	Front connection	■	■	■	■	-	
		Rear connection	■	■	■	■	-	
<b>Electrical characteristics as per IEC 60947-2</b>								
Rated current, A	I <sub>n</sub>	at 50°C	800	1000	1250	1600	2000	
			220/240V	85	85	85	85	85
I <sub>cu</sub>	Manual AC50/60Hz	z	380/415V	50	50	50	50	70
			440V	50	50	50	50	65
			500/525V	40	40	40	40	65
			660/690V	30	30	30	30	65
			220/240V	50	50	50	50	65
I <sub>cs</sub>	Manual AC50/60Hz	z	380/415V	50	50	50	50	52
			440V	50	50	50	50	65
			500/525V	40	40	40	40	65
			660/690V	30	30	30	30	65
			220/240V	50	50	50	50	65
Ultimate breaking capacity, kA	Electrical AC50/60Hz	z	380/415V	50	50	50	50	-
			440V	50	50	50	50	-
			500/525V	40	40	40	40	-
			660/690V	30	30	30	30	-
			220/240V	50	50	50	50	-
I <sub>lcs</sub>	Electrical AC50/60Hz	z	380/415V	37	37	37	37	-
			440V	37	37	37	37	-
			500/525V	30	30	30	30	-
			660/690V	22	22	22	22	-
			220/240V	37	37	37	37	-
Short-time withstand current, kA rms	I <sub>cw</sub>	AC50/60Hz	1s	-	19.2	19.2	19.2	-
		z	3s	-	-	-	-	32
Integrated instantaneous protection, kA	peak±10%		40	40	40	40	130	
Endurance, C-O cycles	Mechanical		10000	10000	10000	10000	5000	
		Electrical	440V	5000	5000	4000	2000	2000
		690V	2000	2000	2000	1000	1000	
Pollution degree			3	3	3	3	3	