

## Compact NSX Molded Case Circuit Breakers

Application: Compact NSX is the next-generation circuit breaker, protection and management of LV electrical installations:

- Standard applications: industries, buildings, and infrastructures;
- Specific applications demanding high performance at controlled cost, marine, oil, gas extraction and processing mining operations, metals and minerals production, and data centers;
- Motor protection;
- Control and isolation using switching disconnectors;



NSX100N



NS160N



NSX250N



NSX400N



NSX630N

Compact NSX circuit breakers			NSX100N	NSX160N	NSX250N	NSX400N	NSX630N			
Rated insulation voltage	Ui		800V							
Rated impulse withstand voltage	Uimp		8kV							
Rated operational voltage	Ue	AC50/60Hz	690V							
Suitability for isolation	IEC60947-2		■	■	■	■	■			
Number of poles			3	3	3	3	3			
Utilisation category			A	A	A	A	A			
Pollution degree	IEC60664-1		3	3	3	3	3			
Control	Manual	With toggle	■	■	■	■	■			
		With direct rotary handle	■	■	■	■	■			
	Electric	With remote control	■	■	■	■	■			
Versions	Fixed	Withdra	■	■	■	■	■			
		Plug-in base	■	■	■	■	■			
	wable	Chassis	■	■	■	■	■			
<b>Electrical characteristics as per IEC 60947-2</b>										
Rated current, A	In	at 40°C	63, 80, 100	100,125,160	200,225,250	315,350,400	415,500,630			
		220/240V	90	90	90	85	85			
		380/415V	50	50	50	50	50			
		Ultimate breaking capacity, kA	Icu	AC50/60Hz	440V	50	50	50	42	42
				500V	36	36	36	30	30	
				525V	35	35	35	22	22	
				660/690V	10	10	10	10	10	
Rated service breaking capacity, kA	Ics	AC50/60Hz	220/240V	90	90	90	85	85		
			380/415V	50	50	50	50	50		
			440V	50	50	50	42	42		
			500V	36	36	36	30	30		
			525V	35	35	35	11	11		
			660/690V	10	10	10	10	10		
Endurance, C-O cycles	Mechanical		50000	40000	20000	15000	15000			
		Electrical	440V	30000	20000	10000	6000	4000		
			690V	10000	7500	5000	3000	2000		
<b>Electrical characteristics as per NEMA-AB1</b>										
Breaking capacity, kA	AC50/60Hz	240V	90	90	90	85	85			
		480V	50	50	50	42	42			
<b>Protection</b>										
Short-circuit protection	Magnetic only		■	■	■	■	■			
Overload protection	Bimetal		■	■	■	-	-			
	Electronic		-	-	-	■	■			
<b>Auxiliaries</b>										
Indication contacts	Auxiliary switch	AX	■	■	■	■	■			
	Alarm switch	AL	■	■	■	■	■			
	Combined AX+AL	AXAL	■	■	■	■	■			
Voltage releases	Shunt trip release	SHT	■	■	■	■	■			
	Undervoltage release	UVR	■	■	■	■	■			
<b>Dimension and weight</b>										
Dimension(mm)	DxHxW		105x161x86			140x255x110				
Weight(kg)			2.05	2.2	2.4	6.05	6.2			
Connection terminals	Pitch	With/without spreaders	35/45mm			45/52.5mm				
Large Cu or Al cables	Cross-section	mm <sup>2</sup>	300			4x240				