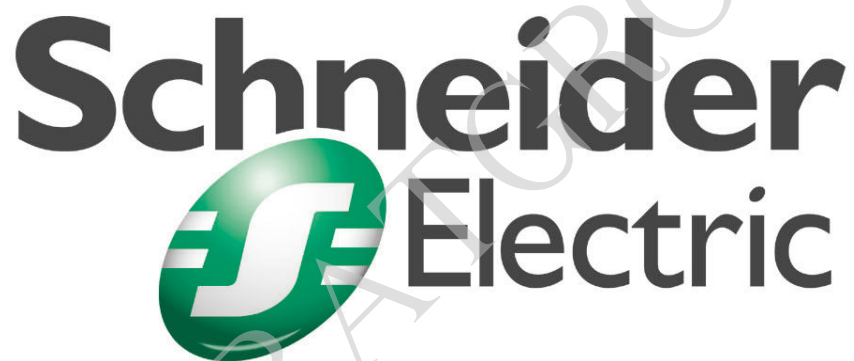


# DATA SHEET



## NW ACB



### Common characteristics

Number of poles		3/4
Rated insulation voltage (V)	<b>Ui</b>	1000/1250
Impulse withstand voltage (kV)	<b>Uimp</b>	12
Rated operational voltage (V AC 50/60 Hz)	<b>Ue</b>	690/1150
Suitability for isolation	IEC 60947-2	
Degree of pollution	IEC 60664-1	4 (1000 V) / 3 (1250 V)

### Basic circuit-breaker

#### Circuit-breaker as per IEC 60947-2

Rated current (A)		at 40 °C / 50 °C <sup>(1)</sup>
Rating of 4th pole (A)		
Sensor ratings (A)		

#### Type of circuit breaker

Ultimate breaking capacity (kA rms) V AC 50/60 Hz	<b>Icu</b>	220/415/440 V 525 V 690 V 1150 V
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Rated service breaking capacity (kA rms)	<b>Ics</b>	% Icu
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Utilisation category		
Rated short-time withstand current (kA rms) V AC 50/60 Hz	<b>Icw</b>	1 s 3 s

Integrated instantaneous protection (kA peak ±10 %)		
Rated making capacity (kA peak) V AC 50/60 Hz	<b>Icm</b>	220/415/440 V 525 V 690 V 1150 V

Break time (ms) between tripping order and arc extinction

Closing time (ms)

#### Circuit-breaker as per NEMA AB1

Breaking capacity (kA) V AC 50/60 Hz		240/480 V 600 V
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### Unprotected circuit-breaker

#### Tripping by shunt trip as per IEC 60947-2

#### Type of circuit breaker

Ultimate breaking capacity (kA rms) V AC 50/60 Hz	<b>Icu</b>	220...690 V
Rated service breaking capacity (kA rms)	<b>Ics</b>	% Icu
Rated short-time withstand current (kA rms)	<b>Icw</b>	1 s 3 s

Overload and short-circuit protection

External protection relay: short-circuit protection, maximum delay: 350 ms <sup>(4)</sup>

Rated making capacity (kA peak) V AC 50/60 Hz	<b>Icm</b>	220...690 V
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### Switch-disconnector as per IEC 60947-3 and Annex A

#### Type of switch-disconnector

Rated making capacity (kA peak) AC23A/AC3 category V AC 50/60 Hz	<b>Icm</b>	220...690 V 1150 V
Rated short-time withstand current (kA rms) AC23A/AC3 category V AC 50/60 Hz	<b>Icw</b>	1 s 3 s

### Earthing switch

Latching capacity (kA peak)		135
Rating short time withstand (kA rms)	<b>Icw</b>	1 s 60 Hz 3 s 50 Hz

### Mechanical and electrical durability as per IEC 60947-2/3 at In/Ie

Service life	Mechanical	with maintenance	
C/O cycles x 1000		without maintenance	

#### Type of circuit breaker

Rated current		<b>In (A)</b>	
C/O cycles x 1000	Electrical	without maintenance	440 V <sup>(5)</sup> 690 V 1150 V
IEC 60947-2			

#### Type of circuit breaker or switch-disconnector

Rated operational current		<b>Ie (A)</b>	<b>AC23A</b>
C/O cycles x 1000	Electrical	without maintenance	440 V <sup>(5)</sup> 690 V
IEC 60947-3			

#### Type of circuit breaker or switch-disconnector

Rated operational current		<b>Ie (A)</b>	<b>AC3 <sup>(6)</sup></b>
Motor power			380/415 V (kW) 440 V <sup>(5)</sup> (kW) 690 V (kW)
C/O cycles x 1000	Electrical	without maintenance	440/690 V <sup>(5)</sup>
IEC 60947-3 Annex M/IEC 60947-4-1			

<sup>(1)</sup> 50 °C: rear vertical connected. Refer to temperature derating tables for other connection types.

<sup>(2)</sup> See the current-limiting curves in the "additional characteristics" section.

<sup>(3)</sup> Equipped with a trip unit with a making current of 90 kA peak.

<sup>(4)</sup> External protection must comply with permissible thermal constraints of the circuit breaker (please consult us).

No fault-trip indication by the SDE or the reset button.

<sup>(5)</sup> Available for 480 V NEMA.

<sup>(6)</sup> Suitable for motor control (direct-on-line starting).



**Sensor selection**

Sensor rating (A)	250 <sup>(1)</sup>	400	630	800	1000	1250	1600	2000	2500	3200	4000	5000	6300
Ir threshold setting(A)	100 to 250	160 to 400	250 to 630	320 to 800	400 to 1000	500 to 1250	630 to 1600	800 to 2000	1000 to 2500	1250 to 3200	1600 to 4000	2000 to 5000	2500 to 6300

(1) For circuit-breaker NW02, please consult us.

NW08	NW10	NW12	NW16		NW20					NW25	NW32	NW40		NW40b	NW50	NW63
800	1000	1250	1600		2000					2500	3200	4000		4000	5000	6300
800	1000	1250	1600		2000					2500	3200	4000		4000	5000	6300
400 to 800	400 to 1000	630 to 1250	800 to 1600		1000 to 2000					1250 to 2500	1600 to 3200	2000 to 4000		2000 to 4000	2500 to 5000	3200 to 6300
N1	H1	H2	L1 <sup>(2)</sup>	H10	H1	H2	H3	L1 <sup>(2)</sup>	H10	H1	H2	H3	H10	H1	H2	
42	65	100	150	-	65	100	150	150	-	65	100	150	-	100	150	
42	65	85	130	-	65	85	130	130	-	65	85	130	-	100	130	
42	65	85	100	-	65	85	100	100	-	65	85	100	-	100	100	
-	-	-	-	50	-	-	-	-	50	-	-	-	50	-	-	
100 %					100 %					100 %			100 %			
B					B					B			B			
42	65	85	30	50	65	85	65	30	50	65	85	65	50	100	100	
22	36	50	30	50	36	75	65	30	50	65	75	65	50	100	100	
-	-	190	80	-	-	190	150	80	-	-	190	150	-	-	270	
88	143	220	330	-	143	220	330	330	-	143	220	330	-	220	330	
88	143	187	286	-	143	187	286	286	-	143	187	286	-	220	286	
88	143	187	220	-	143	187	220	220	-	143	187	220	-	220	220	
-	-	-	-	105	-	-	-	-	105	-	-	-	105	-	-	
25	25	25	10	25	25	25	25	10	25	25	25	25	25	25	25	
< 70					< 70					< 70			< 80			
42	65	100	150	-	65	100	150	150	-	65	100	150	-	100	150	
42	65	85	100	-	65	85	100	100	-	65	85	100	-	100	100	

HA	HF <sup>(3)</sup>	HA	HF <sup>(3)</sup>	HA	HF <sup>(3)</sup>	HA
50	85	50	85	55	85	85
100 %		100 %		100 %		100 %
50	85	50	85	55	85	85
36	50	36	75	55	75	85
-	-	-	-	-	-	-
105	187	105	187	121	187	187

NW08/NW10/NW12				NW16			NW20			NW25/NW32/NW40			NW40b/NW50/NW63	
NA	HA	HF	HA10	HA	HF	HA10	HA	HF	HA10	HA	HF	HA10	HA	
88	105	187	-	105	187	-	105	187	-	121	187	-	187	
-	-	-	105	-	-	105	-	-	105	-	-	105	-	
42	50	85	50	50	85	50	50	85	50	55	85	50	85	
-	36	50	50	36	50	50	36	75	50	55	75	50	85	

25				20				10					
12.5				10				5					
N1/H1/H2	L1	H10		H1/H2	H3	L1	H10	H1/H2	H3	H10	H1	H2	
<b>800/1000/1250/1600</b>				<b>2000</b>				<b>2500/3200/4000</b>				<b>4000b/5000/6300</b>	
10	3	-		8	2	3	-	5	1.25	-	1.5	1.5	
10	3	-		6	2	3	-	2.5	1.25	-	1.5	1.5	
-	-	0.5		-	-	-	0.5	-	-	0.5	-	-	
<b>H1/H2/HA/HF</b>				<b>H1/H2/H3/HA/HF</b>				<b>H1/H2/H3/HA/HF</b>				<b>H1/H2/HA</b>	
<b>800/1000/1250/1600</b>				<b>2000</b>				<b>2500/3200/4000</b>				<b>4000b/5000/6300</b>	
10				8				5				1.5	
10				6				2.5				1.5	
<b>H1/H2/HA/HF</b>				<b>H1/H2/H3/HA/HF</b>				<b>H1/H2/H3/HA/HF</b>				<b>H1/H2/HA</b>	
<b>800</b>		<b>1000</b>		<b>1250</b>		<b>1600</b>		<b>2000</b>					
335 to 450		450 to 560		560 to 670		670 to 900		900 to 1150					
400 to 500		500 to 630		500 to 800		800 to 1000		1000 to 1300					
≤ 800		800 to 1000		1000 to 1250		1250 to 1600		1600 to 2000					