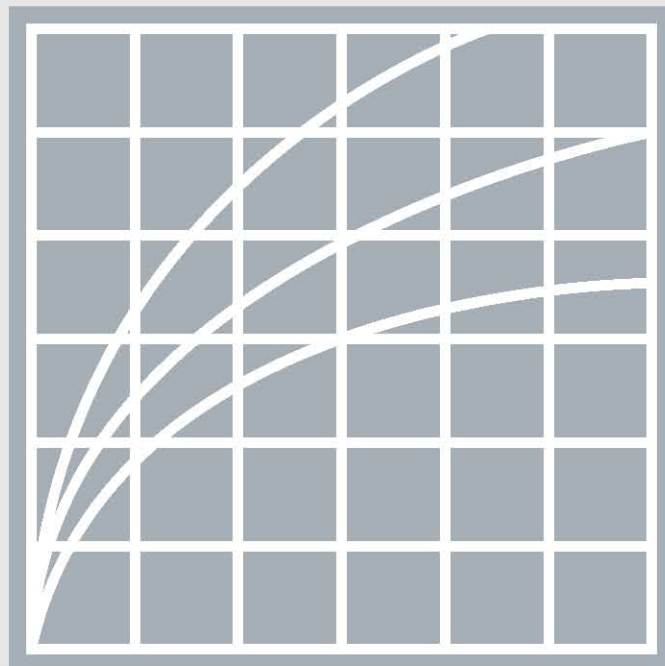
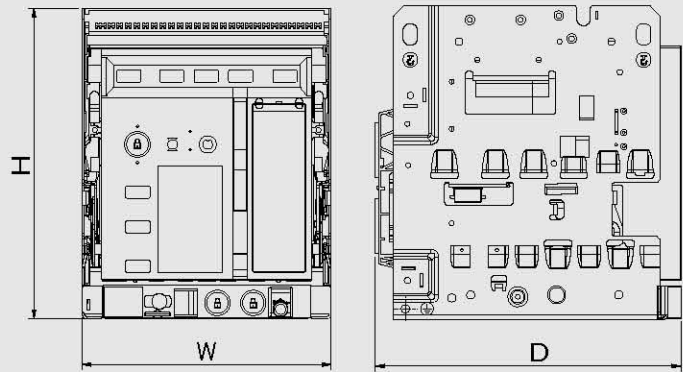


Technical Information

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Technical Specifications



H : Height
W : Width
D : Depth with flat terminals

Common Parameters	Unit	Symbol	
Rated Operational voltage at 50/60 Hz	V	Ue	Upto 690
Rated Insulation voltage at 50/60 Hz	V	Ui	1000
Rated Impulse withstand voltage - Main circuit	kV	Uimp	12
Rated Impulse withstand voltage - Auxiliary circuit	kV	Uimp	4
No. of Poles			3&4
Suitability for isolation			
Intrinsic degree of protection of breaker front			IP53
Pollution degree suitability			3
Utilization category			B
Compliance	EN60947-2, IEC60947-2		

Rating Specific Parameters				Neutral	Unit	Symbol	I			II			III								
Frame																					
Rated Uninterrupted Current at 40°C				A	In		630			800,1000,1250			1600			2000, 2500			3200, 4000		
Version							H	N	H	N	S	H	N	S	N	S	P	S	P		
Rated ultimate S.C. Breaking Capacity	400/415V~ 50/60Hz			kA		55	65	55	65	80	55	65	80	65	80	100	80	100			
	500/550V~ 50/60Hz			kA	Icu	50	55	50	55	70	50	55	70	55	70	85	65	85			
	660/690V~ 50/60Hz			kA		42	50	42	50	55	42	50	55	50	55	75	55	75			
Rated service S.C. Breaking Capacity	400/415V~ 50/60Hz			kA		100% Icu															
	500/550V~ 50/60Hz			kA	Ics	100% Icu															
	660/690V~ 50/60Hz			kA		100% Icu															
Rated Short Time Withstand Capacity	0.5sec			kA		55	65	55	65	80	55	65	80	65	80	100	80	100			
	1.0sec			kA	Icw	50	50	50	50	65	50	50	65	65	65	70	65	70			
Rated S.C. Making Capacity	400/415V~ 50/60Hz			kA		121	143	121	143	176	121	143	176	143	176	220	176	220			
	500/550V~ 50/60Hz			kA	Icm	105	121	105	121	154	105	121	154	121	154	187	143	187			
	660/690V~ 50/60Hz			kA		88	105	88	105	121	88	105	121	105	121	165	121	165			
Opening Time					ms	40															
Closing Time					ms	60															
Dimensions	Fixed ACB	Width	3P		mm	W	347			447			347			447			647		
			4P	100%	mm	W	447			581			447			581			847		
		Depth		mm	D	355															
	Height		mm	H	430																
	Drawout ACB	Width	3P		mm	W	347			447			347			447			647		
			4P	100%	mm	W	447			581			447			581			847		
Depth			mm	D	421																
Height		mm	H	433																	
Mechanical Life					x1000 cycles	20			15			20			15			10			
Frequency of Operation - Mechanical					cycles/hour	60															
Electrical Life	with maintenance			x1000 cycles	20			15			20			15			10				
	without maintenance			x1000 cycles	10			8			5			5							
Frequency of Operation - Electrical					cycles/hour	40			40			30			20						
Pitch I/C - O/G					mm	105															
Pitch	Ph-Ph			mm	100			133.3			100			133.3			200				
	Ph-N			mm	100			133.3			100			133.3			200				
Termination width	Phase			mm	80			100			80			100			165				
	Neutral			mm	80			100			80			100			165				
Weight	Fixed ACB	3P		kg	39			59			39			59			86				
		4P	100%	kg	48			71			48			71			108				
	Drawout ACB	3P		kg	70			88			70			88			124				
		4P	100%	kg	84			106			84			106			166				

ACB recommended configuration

		Fixed Type	Drawout Type
Parent Breaker		✓	✓
Conversion Kits		✓	✗
Drawout Cradle		✗	✓
Protection & Control Unit		✓	✓
Electric Charging Device		✓	✓
Closing Release		✓	✓
Shunt Release		✓	✓
Terminal Adapter		✗	✓

✗ = not required

ACB configuration will depend on market and user specifications.
Please contact your local hager office or agent for more details.

ACB accessories selection chart

	<i>Cat. Ref.</i>	Rated Voltage	Power Consumption	Operating Limit
Closing Release	HWX251	110V AC/DC, 50/60 Hz	150 VA max., 0.5s	85 ~ 110%
	HWX253	230V AC/DC, 50/60 Hz		
	HWX254	415V AC/DC, 50/60 Hz		
	HWX255	24V DC		
	HWX257	48V DC		
Shunt Release	HWX211	110V AC/DC, 50/60 Hz	150 VA max., 0.5s	70 ~ 110%
	HWX213	230V AC/DC, 50/60 Hz		
	HWX214	415V AC/DC, 50/60 Hz		
	HWX215	24V DC		
	HWX217	48V DC		
Undervoltage Release (without delay)	HWX231	110V AC/DC, 50/60 Hz		85 ~ 110%
	HWX233	230V AC/DC, 50/60 Hz		
	HWX234	415V AC/DC, 50/60 Hz		
	HWX235	24V DC		
	HWX237	48V DC		
Undervoltage Release (with delay)	HWX241	110V AC/DC, 50/60 Hz	150 VA max., 3s	85 ~ 110%
	HWX243	230V AC/DC, 50/60 Hz		
	HWX244	415V AC/DC, 50/60 Hz		
	HWX245	24V DC		
	HWX247	48V DC		
Electrical Charging Device	HWX311	110V AC/DC, 50/60 Hz		85 ~ 110%
	HWX313	230V AC/DC, 50/60 Hz		
	HWX314	415V AC/DC, 50/60 Hz		
	HWX315	24V DC		
	HWX317	48V DC		

Derating chart and power consumption

Rated Current	Ambient air temperature						Power Consumption(W)	
	45°C	50°C	55°C	60°C	65°C	70°C	Fixed	Drawout
630 A	630A	630A	630A	630A	630A	630A	30	75
800 A	800A	800A	800A	800A	800A	800A	35	89
1000 A	1000A	1000A	1000A	1000A	1000A	1000A	55	139
1250 A	1250A	1250A	1250A	1250A	1250A	1250A	87	217
1600 A	1600A	1600A	1600A	1600A	1568A	1536A	142	355
2000 A	2000A	2000A	2000A	2000A	2000A	2000A	136	310
2500 A	2500A	2500A	2500A	2500A	2425A	2375A	212	485
3200 A	3200A	3200A	3200A	3200A	3200A	3200A	202	486
4000 A	4000A	4000A	4000A	4000A	4000A	3960A	317	760