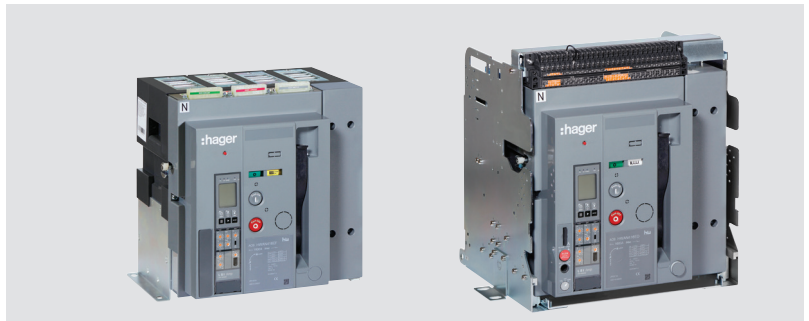


Hager ACBs conform to IEC/EN 60947-2 standards and to all major international standards and performance categories.

- High breaking capacity: full range I_{cu}=I_{cs}
- Optimised and compact panel size: same height and depth
- Terminal conversion horizontal – vertical (*up to 3200A*)
- Quick and easy mounting of accessories
- OCR: LCD display, pre-trip alarm, fault/event recording, integrated communication, remote reset, ZSI, temperature alarm
- Advanced protection: low load, unbalance voltage, reserve power, low/over voltage protection
- Advanced metering: ammeter, voltage, power, energy, demand...



Type				HWAN		HWBS				HWCP
Frame				A		B				C
Rated uninterrupted current	40°C	A		1250	1600	2000	2500	3200	4000	5000
No. of poles						3/4				
Rated operational voltage	50/60Hz	U _e	V			690				
Rated insulation voltage	50/60Hz	U _i	V			1000				
Rated impulse withstand voltage		U _{imp}	kV			12				
Current setting range (...x I _n max)			I _r			0.4 ~ 1.0				
Compliance						EN60947-2, IEC60947-2, GB14048-2				
Rated breaking capacity	415/380/220 AC	I _{cu}	KA	65	85				100	
	550/600/690 AC			50	65				85	
Rated service breaking capacity	415/380/220 AC	I _{cs}	(% I _{cu})	100%						
	550/600/690 AC									
Rated short-time capacity	1 Sec	I _{cw}	KA	65	85				85	
	3 Sec			36	55				65	
Rated making capacity (kA peak)	415/380/220 AC	I _{cm}	kA	143	187				220	
	550/600/690 AC			105	143				187	
Utilization category	IEC 60947-2					B				
Time										
Maximum total breaking time				ms		40				
Closing operating time		motor charging		s		10				
		max. closing time		ms		40				
Protection										
Long time overload protection LTD	I _{ct}	I _n =I _{ct} x...			0.5-0.63-0.7-0.8-0.9-1					
	current setting	I _r = I _n x...	A	0.8-0.83-0.85-0.88-0.9-0.93-0.95-0.98-1-non						
	time delay	t _r at (6 x I _r)	sec	0.5-1.25-2-2.5-5-10-15-20-25-30						
Short time STD	current setting	I _{sd} = I _n x...	A	1.0-1.5-2-2.5-3-4-6-8-10-non						
			time delay at 10xI _n		tsd	I ² t off	sec		0.05-0.1-0.2-0.3-0.4-0.5	
			I ² t on	sec		0.05-0.1-0.2-0.3-0.4-0.5				
			min. trip time	ms		20-80-160-260-360-460				
			max. trip time	ms		80-140-240-340-440-540				
Instantaneous INST	current setting	I _i = I _n x...	A	2-3-4-6-8-10-12-15-non						
	trip time			ms		below 50				
Pre trip alarm PTA	current setting	I _p = I _n x...	A	0.6-0.65-0.7-0.75-0.8-0.85-0.9-0.95-1-non						
	time delay	t _p at (I _p x1.2)	sec	5-10-15-20-40-60-80-120-160						
Mechanical life	with maintenance	no. of cycles		30 000	20 000				20 000	
Electrical life	with maintenance	no. of cycles		10 000	10 000				5 000	
Dimensions										
Dimensions	width 3 pole	Fixed	mm	296	367				592	
	width 4 pole		mm	381	523				762	
	depth		mm	296 (without terminals)						
	height		mm	404						
	width 3 pole	Draw-out	mm	328	399				624	
	width 4 pole		mm	413	514				794	
	depth		mm	368 (without terminals)						
	height		mm	466						
Pitch	Ph-Ph	mm	85	115	115	115	152.5	190.5		
Terminal width		mm	50	75	75	90	100	125		
Weight	3 pole	Fixed	kg	34	44	44	44	61	76	
	4 pole		kg	44	55	55	55	81	81	
	3 pole	Draw-out	kg	63	87	87	87	107	145	
	4 pole		kg	80	130	130	130	161	173	