

H3 circuit breakers conform to IEC/EN 60947-2 standards and to all major international standards and performance categories.

- · Suitable for co-ordinated installations in all applications
- Thermal magnetic and electronic release
- Calibrated at 50°C

Cascading with MCBs (see cascading chart Annex-10)







Frame			×160			x250			b250 TM		
Product			Switch MCCB			Switch	M	ССВ	МССВ		
Reference			HCA	HHA	HNA	НСВ	HHB	HNB	HEG		
Number of poles		[No.1	3-4	3-4	3-4		3-4			3-4	
Electrical characteristics		[]									
Rated current	In	[A]		160			250			250	
Current rated range		[A]	125-160 16-160 (3,4P)			250 100-250				12.5-250	
Rated service voltage, (AC)	Ue	[V]	220-690			220-690				220-690	
Frequency	f	[Hz]	50/60			50/60			50/60		
Rated insulation voltage	Ui	[V]	690			800			800		
Rated impulse withstand voltage	Uimp	[kV]	8			8			8		
Rated ultimate short-circuit breaking capacity	(Icu)										
(AC) 50-60 Hz 220/230 V	lcu	[kA]	-	35	85	-	35	85	35	85	85
(AC) 50-60 Hz 380/415 V	Icu	[kA]	-	25	40	-	25	40	25	50	65
(AC) 50-60 Hz 480/500/525 V	Icu	[KA]	-	7.5	12.5	-	-	10	10	25	25
(AC) 30-00 HZ 000/090 V	leu		_	- 20	- 25	_	- 25	25	- 25	1.5	1.5
Rated service short-circuit breaking capacity	(lcs)	[[_]	_	20	23	_	25	25	23	40	40
(AC) 50-60 Hz 220/230 V	lcs	[kA]	-	25	40	_	25	40	27	65	85
(AC) 50-60 Hz 380/415 V	lcs	[kA]	-	20	20	-	20	20	19	25	36
(AC) 50-60 Hz 480/500/525 V	lcs	[kA]	-	4	7.5	-	-	7.5	7.5	25	25
(AC) 50-60 Hz 660/690 V	lcs	[kA]	-	_	3	-	-	2	-	7.5	7.5
(DC) 250 V - 2 poles in series	lcs	[kA]	-	10	13	-	13	13	19	40	40
Rated short-circuit making capacity	Icm	[kA]	2.8	_	-	6	-	-	-		
Rated short-time withstand current for 1s	Icw	[kA]	2	-	-	3	-	-			
Category of use (EN 60947-2)			-		A	-		A	A		
Calibration temperature			-	50	D°C	50°C		50°C			
Derating	40°C		-	- 100%		-	10	00%	100%		
	50°C		-	10	00%	-	100%			100%	
	55°C		- 95% - 93%		-	9,	4% 10/	94%			
	65°C				_	9	90/	88%			
Suitability for insulation	05.0		ok			ok					
Electric endurance in number of cycles			10000				10000			10000	
Mechanical endurance in number of operations			20000				20000	30000			
Operating temperature			-25 to +70°C				-25 to +70°C			-25 to +70°C	
Storage temperature			-35 to +70°C				-35 to +70°C			-35 to +70°C	
Power loss (at In for 3P)		[W]	39				60			65	
Reference standard			IEC 60947-3 IEC 60947-2		IEC 60947-3	IEC 60947-2		IEC 60947-2			
Releases: switch			ok –			ok	-				
Releases: TM (thermomagnetic)			-	ok		-	ok		ok		
I fixed, M fixed			ok		-	ok					
I adjustable, M fixed			-	ok		-	-		-		
Thermal adjustable			-	0.62 +			0.63 to 1 x lp				
			-	– 0.63 to 1 x In		-	0.63 to 1 x In		0.63 to 1 x In		
Magnetic adjustment value					-	6-8-10-13 x ln (200A) 5-7-9-11 ln (250A)		6-8-10-13 x ln			
Releases: LSI (electronic)			-		-			-			
Long delay					-	-		-			
Short delay			-		-	-		-			
Time delay			-		-	-					
Connection											
Standard terminal type			cage			lugs			lugs		
Maximum terminal capacity			95 mm ²			185 mm² (cage)			120 mm ² (cage)		
Terminal width		mm	-				25			25	
I erminal shields			OK							ok	
Cage terminal			Integrated						OK CK		
Rear connections			UK PO					OK OK			
Dimensiona				110			UK			UK	
Uniterisi0115		100.000		120		1	105		1	165	
Width	1D	mm		25			601			100	
YYIGUT	2P	mm		50							
	3P	mm	75			105		105			
	4P	mm	100			140			140		
Depth		mm	68			68		68			
Weight	1P	kg	- 0.29 -		1						
	2P	kg	- 0.48 -			-		-			
	3P	kg	0.715				1.3			1.5	
	4P	kg		0.95			1.6			1.9	