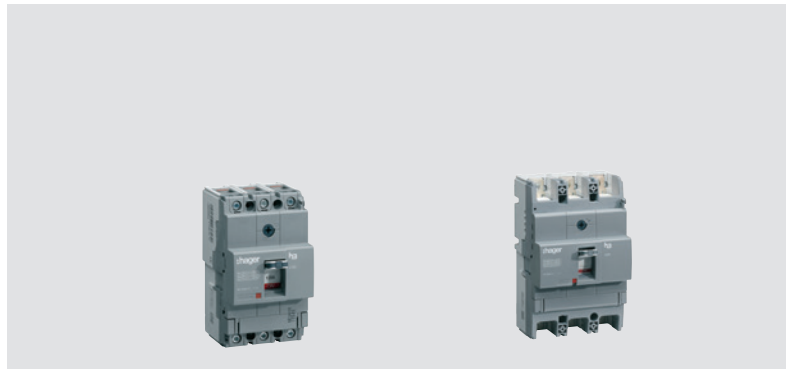


H3 circuit breakers conform to IEC/EN 60947-2 standards and to all major international standards and performance categories.

- 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**)



			Fixed type	Fixed type	Fixed type	Standard	Standard
Type			HHA...Z	HHB...Z	HHD...U	HNA...U	HNB...U
No. of poles			1-2-3-4	3-4	3-4	3-4	3-4
Electrical Ratings (IEC 60947-2)			TM	TM	TM	TM	TM
Rated uninterrupted current	I _u (A) at 50°C		160	250	400	160	250
Rated voltage	U _e VAC		440	440	690	690	690
Rated voltage	U _e VDC		250	250	250	250	250
Rated insulation voltage	U _i (VAC)		690	800	800	800	800
Rated impulse withstand voltage	U _{imp} (kV)		8	8	8	8	8
Utilization category			A	A	A	A	A
Rated current of release		I _n (A)	16	200	400	25	250
			20	250		40	
			25			63	
			32			100	
			40			125	
			50			160	
			63				
			80				
			100				
Performance							
Rated ultimate short-circuit, breaking capacity, (I _{cu}) 50-60Hz	220/230VAC	(I _{cu}) kA	35	35	35	85	85
	380/415VAC	(I _{cu}) kA	25	25	25	40	40
	480/525VAC	(I _{cu}) kA	18	25	22	25	25
	660/690VAC	(I _{cu}) kA	6	6	–	6	6
	250Vdc (2P)	(I _{cu}) kA	25	25	25	25	25
Service breaking capacity		I _{cs} (%I _{cu})	100%	100%	100%	50%	50%
Rated making capacity		I _{cm} (kA) @ 400VAC	52.5	52.5	52.5	84	84
Durability	mechanical	operations	20 000	20 000	15 000	20 000	20 000
	electrical	operations	10 000	10 000	4500	10 000	10 000
Adjustable thermal release			fixed 1 x I _n	fixed 1 x I _n	0.63-1 I _n	0.63-0.8-1 I _n	0.63-0.8-1 I _n
Adjustable magnetic			>10 I _n (No adj.)	>10 I _n (No adj.)	6-12 I _n	>10 I _n	5-11 I _n
Time delay (Electronic release)			–	–	–	–	–
Suitability for isolation			•	•	•	•	•
Thermal magnetic release			•	•	•	•	•
Electronic release							
Accessories							
Auxiliary/shunt trip/under volt. release			•	•	•	•	•
Motor operator/mechanical interlocks				•	•		•
Dimensions		frame	x160	x250	h400	x160	x250
High (with extended terminals)		mm	130	165	260	130	165
Wide (3 pole)		mm	75	105	140	75	105
Deep (without toggle)		mm	68	68	97	68	68