

General information

IEC general ratings and specifications ②



E1



E2



E3



E4

Circuit breaker type			E1		E2			E3				
Performance level			B		B	N	L	N	S	H	L	
Rated uninterrupted current (at 40°C) I_u breaking capacity	A		800		1600	1250	1250	2500	1250	1250	2000	
	A		1250		2000	1600	1600	3200	1600	1600	2500	
	A		—		—	2000	—	—	2000	2000	—	
	A		—		—	—	—	—	2500	2500	—	
	A		—		—	—	—	—	3200	3200	—	
Capacity of neutral pole on four-pole circuit breakers	% I_u		100		100	100	100	100	100	100	100	
Rated ultimate short-circuit breaking capacity	I_{cu} 220/230/380/400/415V~ 440V~ 500/660/690V~ 600V~ 250V— (switches)	kA	40		40	65	130	65	75	100	130	
		kA	40		40	65	110	65	75	100	110	
		kA	36		40	55	85	65	75	85	85	
		kA	—		—	—	—	—	—	—	100	—
		kA	36		40	55	—	65	75	75	—	—
Rated duty short-circuit breaking capacity	I_{cs} 220/230/380/400/415V~ 440V~ 500/660/690V~ 250V— (switches)	kA	40		40	65	130	65	75	85	130	
		kA	40		40	65	110	65	75	85	110	
		kA	36		40	55	65	65	75	85	65	
		kA	—		—	—	—	—	—	—	—	—
		kA	36		40	55	—	65	75	75	—	—
Rated short-time withstand current	I_{cw} (1S) kA		36		40	55	10	65	75	75	15	
Rated short-circuit making capacity (peak value)	I_{cm} 220/230/380/400/415V~ 440V~ 500/660/690V~	kA	84		84	143	286	143	165	220	286	
		kA	84		84	143	242	143	165	220	242	
		kA	75.6		84	121	187	143	165	187	187	
Utilization category (in accordance with CEI EN 60947-2)			B		B	B	A	B	B	B	A	
Isolation behavior (in accordance with CEI EN 60947-2)			•		•	•	•	•	•	•	•	
Overcurrent protection			•		•	•	•	•	•	•	•	
Microprocessor-based releases for a.c. applications			•		•	•	•	•	•	•	•	
Operating time												
Closing time (max) Break time for $I < I_{cw}$ (max) ① Break time for $I > I_{cw}$ (max)	ms		80		80	80	80	80	80	80	80	
	ms		70		70	70	70	70	70	70	70	
	ms		30		30	30	12	30	30	30	12	
Dimensions												
Fixed:	H=418mm D=302mm L(3/4 poli)=	mm	296/386		296/386			404/530				
Withdrawable:	H=461mm D=396.5mm L(3/4 poli)=	mm	324/414		324/414			432/558				
Weights												
(circuit-breaker complete with releases and CT, excluding accessories)												
Fixed 3/4 pole		kg	42/50		46/55	46/55	45/53	68/80	68/80	68/80	67/79	
Withdrawable 3/4 pole (including fixed part)		kg	65/80		72/89	72/89	70/87	100/125	100/125	100/125	100/120	

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Circuit-breaker type			E1B		E2 B-N			E2L		E3 N-S-H				
Rated uninterrupted current (at 40°C)	I_u	A	800	1250	1250	1600	2000	1250	1600	1250	1600	2000	2500	3200
Mechanical life with regular routine maintenance	No. operations x 1000		25	25	25	25	25	20	20	20	20	20	20	20
	Frequency	f Operations per hour	60	60	60	60	60	60	60	60	60	60	60	60
Electrical life (440V~)	No. operations x 1000		10	10	15	12	10	4	3	12	10	9	8	6
	Frequency	f Operations per hour	30	30	30	30	30	20	20	20	20	20	20	20

① Without intentional delays.
② Consult factory for drawings.