

General information

IEC general ratings and specifications



Specifications common to the entire range

Voltages			
Rated service voltage	Ue	690~ / 250- V	
Rated insulation voltage	Ui	1000 V	
Rated impulse withstand voltage	Uimp	12 kV	
Service temperature		-5 ...+70 °C	
Storage temperature		-40 ...+70 °C	
Frequency	f	50-60 Hz	
Number of poles		3-4	
Versions		Fixed / Withdrawable	

Circuit breaker type			E4		E6	
Performance level			S	H	H	V
Rated uninterrupted current (at 40°C) I _u	A		4000	3200	5000	3200
	A		—	4000	6300	4000
	A		—	—	—	5000
	A		—	—	—	6300
	A		—	—	—	—
Capacity of neutral poles on four-pole circuit breakers	%I _u		50	50	50	50
Rated ultimate short-circuit breaking capacity	I _{cu} 220/230/380/400/415V~	kA	75	100	100	150
	440V~	kA	75	100	100	150
	500/660/690V~	kA	75	85	75	85
	600V~	kA	—	100	—	—
	250V— (switches)	kA	75	100	100	100
Rated duty short-circuit breaking capacity	I _{cs} 220/230/380/400/415V~	kA	75	100	100	125
	440V~	kA	75	100	100	125
	500/660/690V~	kA	75	85	100	100
	600V~	kA	—	100	—	—
	250V— (switches)	kA	75	100	100	100
Rated short-time withstand current	I _{cw} (1S)	kA	75	100	100	100
Rated short-circuit making capacity (peak value)	I _{cm} 220/230/380/400/415V~	kA	165	220	220	330
	440V~	kA	165	220	220	330
	500/660/690V~	kA	165	187	165	187
Utilization category (in accordance with CEI EN 60947-2)			B	B	B	B
Isolation behavior (in accordance with CEI EN 60947-2)			•	•	•	•
Overcurrent protection						
Microprocessor-based releases for a.c. applications			•	•	•	•
Operating time						
Closing time (max)		ms	80	80	80	80
Break time for I < I _{cw} (max) ^①		ms	70	70	70	70
Break time for I > I _{cw} (max)		ms	30	30	30	30
Dimensions						
Fixed:	H=418mm D=302mm L(3/4 poli)=	mm	566/656		782/908	
Withdrawable:	H=461mm D=396.5mm L(3/4 poli)=	mm	594/684		810/936	
Weights						
(circuit-breaker complete with releases and CT, excluding accessories)						
Fixed 3/4 pole		kg	95/115	95/115	140/170	140/170
Withdrawable 3/4 pole (including fixed part)		kg	147/190	147/190	210/260	210/260

Circuit-breaker type			E3L		E4 S-H		E6 H-V			
Rated uninterrupted current (at 40°C)	I _u	(A)	2000	2500	3200	4000	3200	4000	5000	6300
Mechanical life with regular routine maintenance		(No. operations x 1000)	15	15	15	15	12	12	12	12
Frequency	f	(Operations per hour)	60	60	60	60	60	60	60	60
Electrical life (440V~)		(Operations x 1000)	2	1.8	7	5	5	4	3	2
Frequency	f	(Operations per hour)	20	20	10	10	10	10	10	10

① Without intentional delays.
 ② Consult factory for drawings.