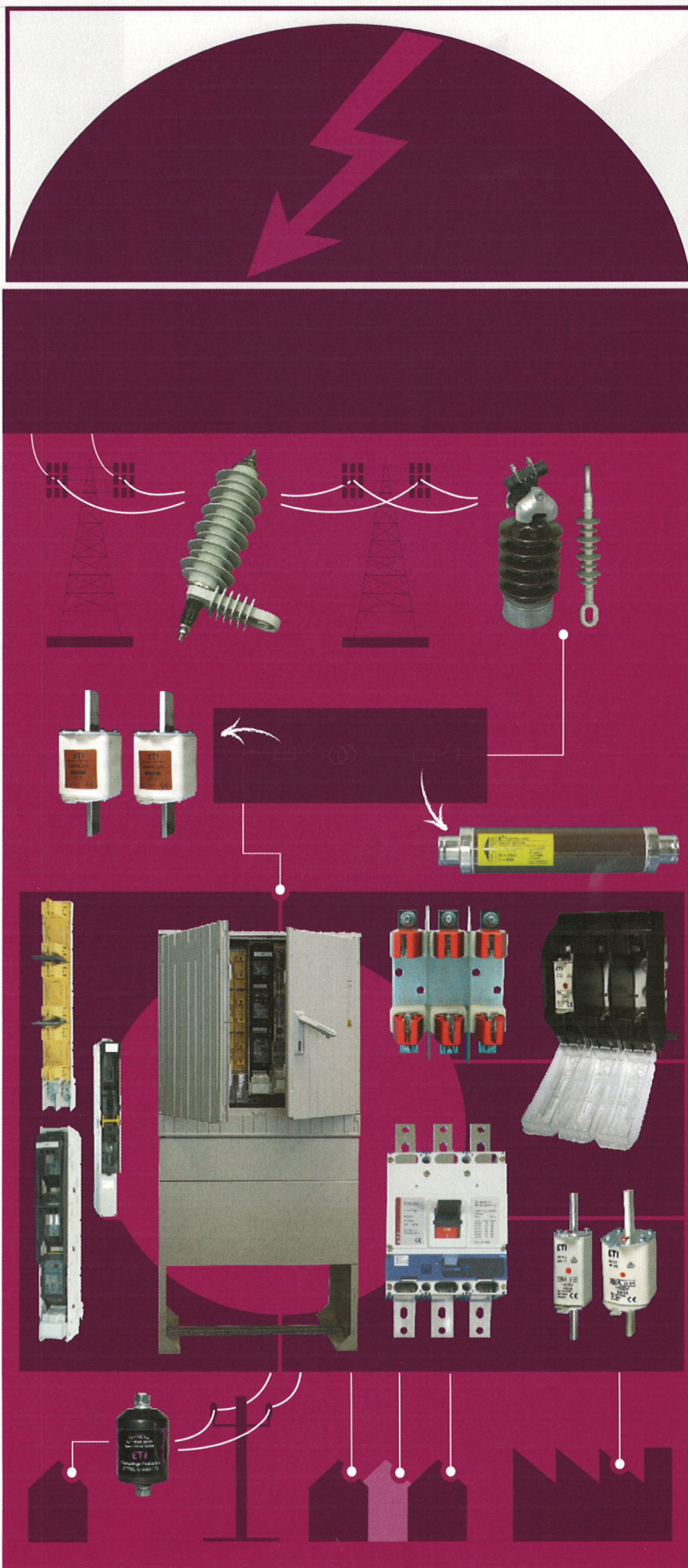


ELECTRIC POWER DISTRIBUTION

ETI provides high-quality solutions for the protection of low and high-voltage electrical installations in the field of electric power distribution. We supply a wide range of high-voltage fuse-links of the type VV, low voltage power circuit breakers ETIBREAK, distribution cabinets KVS, medium voltage surge arresters ETISURGE and ceramic as well as polymeric insulators. The products are internationally certified and carry several quality marks.



Low breaking capacity moulded case circuit breakers

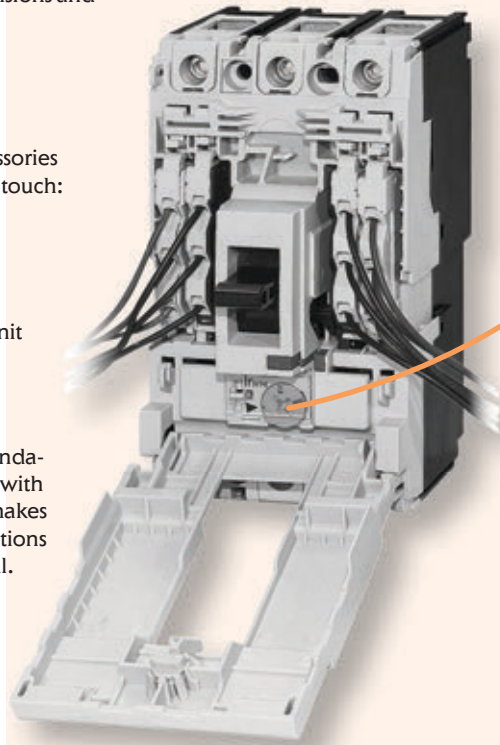
Advantages of low breaking capacity MCCBs

→ New series EB2S of MCCBs has excellent performances with reduced dimensions and new modern design.

→ Practical internal accessories can be installed with one touch:

- auxiliary switch
- alarm switch
- shunt trip unit
- undervoltage trip unit

→ Unique accessory cover opens with only one screw.



→ Customer can select between fixed and adjustable protection:

- Frame size 160A: fixed (series LF, SF & HF) or thermal trip adjustable (series LA, SA & HA)
- Frame size 250A: fixed (series LF, SF & HF) or thermal-magnetic trip adjustable (series LA, SA & HA)

→ EB2S series complies to safety recommendation standard IEC 60204-1. EB2S is marked with IEC symbol "direct opening action". This makes these devices also ideal for all OEM applications where safety and reliability are essential.

Legend: L -> economic, lower short-circuit breaking capacity
S -> standard short-circuit breaking capacity
H -> high short-circuit breaking capacity

EB2S 160 fixed protection

Type	I _n (A)	Code No.	Poles	I _{cu} /I _{cs} 400V [kA]	Adjustment thermal/magnetic	Weight [kg]	Packaging [pcs]			
EB2S 160/3LF 16A 3p	16	004671801	3	16/8	fixed/fixed	0,80	1			
EB2S 160/3LF 20A 3p	20	004671802								
EB2S 160/3LF 25A 3p	25	004671803								
EB2S 160/3LF 32A 3p	32	004671804								
EB2S 160/3LF 40A 3p	40	004671805								
EB2S 160/3LF 50A 3p	50	004671806								
EB2S 160/3LF 63A 3p	63	004671807								
EB2S 160/3LF 80A 3p	80	004671808								
EB2S 160/3LF 100A 3p	100	004671809								
EB2S 160/3LF 125A 3p	125	004671810								
EB2S 160/3LF 160A 3p	160	004671811								
EB2S 160/4LF 16A 4p	16	004671814	4			16/8		fixed/fixed	1,00	1
EB2S 160/4LF 20A 4p	20	004671815								
EB2S 160/4LF 25A 4p	25	004671816								
EB2S 160/4LF 32A 4p	32	004671817								
EB2S 160/4LF 40A 4p	40	004671818								
EB2S 160/4LF 50A 4p	50	004671819								
EB2S 160/4LF 63A 4p	63	004671820								
EB2S 160/4LF 80A 4p	80	004671821								
EB2S 160/4LF 100A 4p	100	004671822								
EB2S 160/4LF 125A 4p	125	004671823								
EB2S 160/4LF 160A 4p	160	004671824								

Low breaking capacity moulded case circuit breakers

EB2S 250 fixed protection

Type	I _n (A)	Code No.	Poles	I _{cu} /I _{cs} 400V [kA]	Adjustment thermal/magnetic	Weight [kg]	Packaging [pcs]			
EB2S 250/3LF 200A 3p	200	004671812	3	16/8	fixed/fixed	1,50	1			
EB2S 250/3LF 250A 3p	250	004671813				1,90				
EB2S 250/4LF 200A 4p	200	004671825	4							
EB2S 250/4LF 250A 4p	250	004671826								

EB2S 250 fixed protection

Type	I _n (A)	Code No.	Poles	I _{cu} /I _{cs} 400V [kA]	Adjustment thermal/magnetic	Weight [kg]	Packaging [pcs]			
EB2S 250/3SF 200A 3p	200	004671838	3	25/19	fixed/fixed	1,50	1			
EB2S 250/3SF 250A 3p	250	004671839				1,90				
EB2S 250/4SF 200A 4p	200	004671851	4							
EB2S 250/4SF 250A 4p	250	004671852								

EB2S 250 fixed protection

Type	I _n (A)	Code No.	Poles	I _{cu} /I _{cs} 400V [kA]	Adjustment thermal/magnetic	Weight [kg]	Packaging [pcs]			
EB2S 250/3HF 200A 3p	200	004671864	3	40/20	fixed/fixed	1,50	1			
EB2S 250/3HF 250A 3p	250	004671865				1,90				
EB2S 250/4HF 200A 4p	200	004671877	4							
EB2S 250/4HF 250A 4p	250	004671878								

EB2S 250 adjustable protection

Type	I _n (A)	Code No.	Poles	I _{cu} /I _{cs} 400V [kA]	Adjustment thermal/magnetic	Weight [kg]	Packaging [pcs]
EB2S 250/3LA 200A 3p	200	004671887	3	16/8	adjustable (0.63-1)/ adjustable (5-11)	1,50	1
EB2S 250/3LA 250A 3p	250	004671888					
EB2S 250/4LA 200A 4p	200	004671897	4				
EB2S 250/4LA 250A 4p	250	004671898					

EB2S 250 adjustable protection

Type	I _n (A)	Code No.	Poles	I _{cu} /I _{cs} 400V [kA]	Adjustment thermal/magnetic	Weight [kg]	Packaging [pcs]			
EB2S 250/3SA 200A 3p	200	004671907	3	25/19	adjustable (0.63-1)/ adjustable (5-11)	1,50	1			
EB2S 250/3SA 250A 3p	250	004671908								
EB2S 250/4SA 200A 4p	200	004671917	4							
EB2S 250/4SA 250A 4p	250	004671918								

EB2S 250 adjustable protection

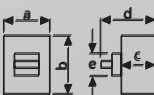
Type	I _n (A)	Code No.	Poles	I _{cu} /I _{cs} 400V [kA]	Adjustment thermal/magnetic	Weight [kg]	Packaging [pcs]
EB2S 250/3HA 200A 3p	200	004671927	3	40/20	adjustable (0.63-1)/ adjustable (5-11)	1,50	1
EB2S 250/3HA 250A 3p	250	004671928					
EB2S 250/4HA 200A 4p	200	004671937	4				
EB2S 250/4HA 250A 4p	250	004671938					



Technical data

Low breaking capacity moulded case circuit breakers EB2S

*F - fixed, A - adjustable

Product series	description	unit	condition	EB2S 160 F			EB2S 160 A			EB2S 250 F			EB2S 250 A		
Model-type				LF	SF	HF	LA	SA	HA	LF	SF	HF	LA	SA	HA
Number of poles				3, 4											
Nominal current ratings															
	I _n	(A)	50°C	16, 20, 25, 32, 40, 50, 63, 80, 100, 125, 160			25, 40, 63, 80, 100, 125, 160			200, 250			200, 250		
Electrical characteristics															
Rated insulation voltage	U _i	(V)		690	690	690	690	690	690	690	690	690	690	690	690
Rated impulse withstand voltage	U _{imp}	(kV)		8	8	8	8	8	8	8	8	8	8	8	8
Ultimate breaking capacity (IEC, JIS, AS/NZS)	I _{cu}	(kA)	690V AC	-	-	6	-	-	6	-	-	4	-	-	4
			525V AC	6	7,5	10	6	7,5	10	6	10	25	6	7,5	10
			440V AC	10	15	25	10	15	25	10	15	30	10	15	30
			380/400/415V AC	16	25	40	16	25	40	16	25	40	16	25	40
			240V AC	25	35	50	25	35	50	25	35	85	25	35	85
			250V DC	13	20	25	13	20	25	13	15	25	13	15	25
			125V DC	20	30	40	20	30	40	20	25	40	20	25	40
Service breaking capacity (IEC, JIS, AS/NZS)	I _{cs}	(kA)	690V AC	-	-	3	-	-	3	-	-	2	-	-	2
			525V AC	3	4	7,5	3	4	7,5	3	7,5	13	3	6	7,5
			440V AC	5	7,5	13	5	7,5	13	5	12	15	5	12	15
			380/400/415V AC	8	13	20	8	13	20	8	19	20	8	19	20
			240V AC	13	18	25	13	18	25	13	27	43	13	27	43
			250V DC	7	10	13	7	10	13	7	12	13	7	12	13
			125V DC	10	15	20	10	15	20	10	19	20	10	19	20
Rated short-circuit making capacity	I _{cm}	(kA)	peak	33	33	33	33	33	33	33	33	33	33	33	33
Rated short-circuit withstand current	I _{cw}	(kA)	rms	-	-	-	-	-	-	-	-	-	-	-	-
Protection															
Fixed thermal, fixed magnetic				✓			-			✓			-		
Adjustable thermal, fixed magnetic				-			✓			-			-		
Adjustable thermal, adjustable magnetic				-			-			-			✓		
Utilization category				A			A			A			A		
Outline dimensions															
	height (b)	(mm)		130			130			165			165		
	width (a)	(mm)	3 pole	75			75			105			105		
	width (a)	(mm)	4 pole	100			100			140			140		
	depth (c)	(mm)		68			68			68			68		
	depth (d)	(mm)		93			93			95			95		
	toggle cutout (e)	(mm)		45			45			45			45		
Weight		(kg)	3 pole	0.8			0.8			1.5			1.5		
			4 pole	1.0			1.0			1.9			1.9		
Operation															
Direct Opening Action				✓			✓			✓			✓		
Trip button				✓			✓			✓			✓		
Suitable for isolation				✓			✓			✓			✓		
Standards															
IEC 60947-2, EN 60947-2															