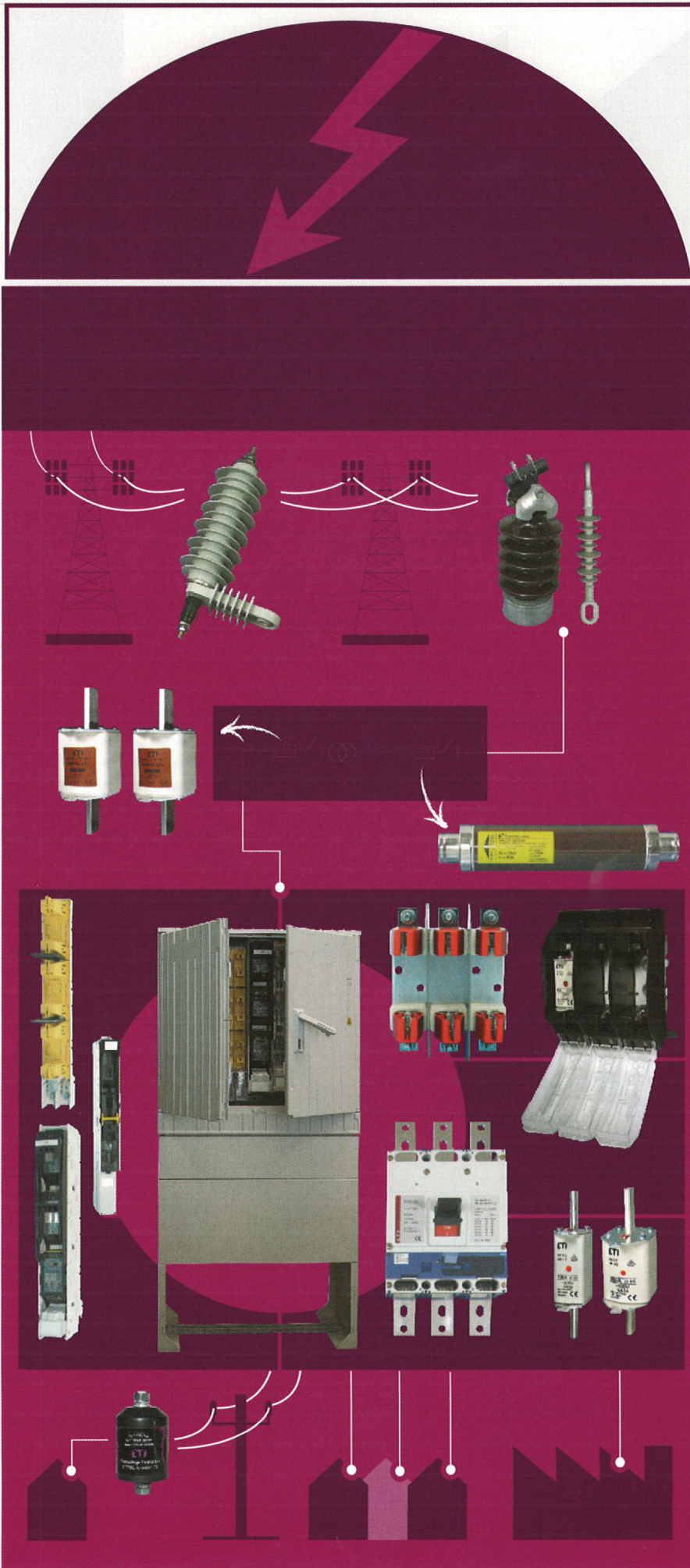


ELECTRIC POWER DISTRIBUTION

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

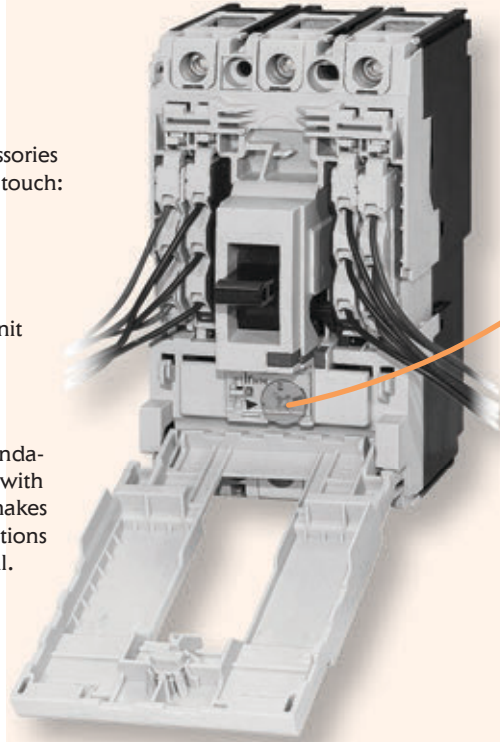
Advantages of low breaking capacity MCCBs

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

→ Unique accessory cover opens with only one screw.

→ Practical internal accessories can be installed with one touch:

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



→ 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/thermal	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	4	fixed/thermal	1,00	1	
EB2S 160/4LF 16A 4p	16	004671814					
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 160 fixed protection

Type	I_n (A)	Code No.	Poles	I_{cs}/I_{cs} 400V [kA]	Adjustment thermal/magnetic	Weight [kg]	Packaging [pcs]
EB2S 160/3SF 16A 3p	16	004671827	3	25/13	fixed/fixed	0,80	1
EB2S 160/3SF 20A 3p	20	004671828					
EB2S 160/3SF 25A 3p	25	004671829					
EB2S 160/3SF 32A 3p	32	004671830					
EB2S 160/3SF 40A 3p	40	004671831					
EB2S 160/3SF 50A 3p	50	004671832					
EB2S 160/3SF 63A 3p	63	004671833					
EB2S 160/3SF 80A 3p	80	004671834					
EB2S 160/3SF 100A 3p	100	004671835					
EB2S 160/3SF 125A 3p	125	004671836					
EB2S 160/3SF 160A 3p	160	004671837	4	25/13	fixed/fixed	1,00	
EB2S 160/4SF 16A 4p	16	004671840					
EB2S 160/4SF 20A 4p	20	004671841					
EB2S 160/4SF 25A 4p	25	004671842					
EB2S 160/3SF 32A 4p	32	004671843					
EB2S 160/4SF 40A 4p	40	004671844					
EB2S 160/4SF 50A 4p	50	004671845					
EB2S 160/4SF 63A 4p	63	004671846					
EB2S 160/4SF 80A 4p	80	004671847					
EB2S 160/4SF 100A 4p	100	004671848					
EB2S 160/4SF 125A 4p	125	004671849					
EB2S 160/4SF 160A 4p	160	004671850					

EB2S 160 fixed protection

Type	I_n (A)	Code No.	Poles	I_{cs}/I_{cs} 400V [kA]	Adjustment thermal/magnetic	Weight [kg]	Packaging [pcs]
EB2S 160/3HF 16A 3p	16	004671853	3	40/20	fixed/fixed	0,80	1
EB2S 160/3HF 20A 3p	20	004671854					
EB2S 160/3HF 25A 3p	25	004671855					
EB2S 160/3HF 32A 3p	32	004671856					
EB2S 160/3HF 40A 3p	40	004671857					
EB2S 160/3HF 50A 3p	50	004671858					
EB2S 160/3HF 63A 3p	63	004671859					
EB2S 160/3HF 80A 3p	80	004671860					
EB2S 160/3HF 100A 3p	100	004671861					
EB2S 160/3HF 125A 3p	125	004671862					
EB2S 160/3HF 160A 3p	160	004671863	4	40/20	fixed/fixed	1,00	
EB2S 160/4HF 16A 4p	16	004671866					
EB2S 160/4HF 20A 4p	20	004671867					
EB2S 160/4HF 25A 4p	25	004671868					
EB2S 160/4HF 32A 4p	32	004671869					
EB2S 160/4HF 40A 4p	40	004671870					
EB2S 160/4HF 50A 4p	50	004671871					
EB2S 160/4HF 63A 4p	63	004671872					
EB2S 160/4HF 80A 4p	80	004671873					
EB2S 160/4HF 100A 4p	100	004671874					
EB2S 160/4HF 125A 4p	125	004671875					
EB2S 160/4HF 160A 4p	160	004671876					



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															
	I_{cu}	(kA)	690V AC	-	-	6	-	-	6	-	-	4	-	-	4
(IEC, JIS, AS/NZS)			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															
	I_{cs}	(kA)	690V AC	-	-	3	-	-	3	-	-	2	-	-	2
(IEC, JIS, AS/NZS)			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														