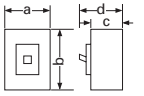


# Molded Case Circuit Breakers

## Quick reference guide

### Line protection

#### ■ L series/3-pole

Frame	50A	
Pole	3	
Type	Page 06/43 <b>LA53B</b>	
Rated current (A)	5, 10	
Rated insulation voltage Ui (Volts)	AC	690
	DC	—
Rated breaking capacity (kA)	IEC 60947-2 [Icu/Ics]*	600V AC —
	JIS C8201-2-1	500V AC 42
	Ann.2 [Icu]	440V AC 50
		415V AC 50
		400V AC 50
		380V AC 50
		230V AC 100
	250V DC	—
Dimensions (mm) Page 06/70		a 75
		b 150
		c 82
		d 102
Mass (kg)	Front mounting type	1.1
Tripping device		Hydraulic-magnetic
Trip button		Provided
Front mounting, front connection	No-mark	●
	rear connection	X —
Flush mounting, rear connection	E	—
	top & bottom connection	Y —
Plug-in mounting	P	—
Draw-out	D	—
Internal accessories	Page 06/88	
Alarm switch	K	BZ-K23B□
Auxiliary switch	W	BZ-W23B□
Undervoltage trip	R	BZ-R23BT
Shunt trip	F	BZ-F23BT
External accessories		
Motor operating mechanism	M	▲
Padlocking device	Q	▲
Mechanical interlocking device	M1	BZ-M120C-3
Operating handle N type	N	BZ-N20C
Operating handle V type	V	BZ-V20C
Steel enclosure	C	—
Steel enclosure with V type handle	CV	—
Terminal cover Short	TS	—
Terminal cover Long	TB	—
Insulation barrier Interphase	B	BZ-B30B (Line), B35B (Load)
Insulation barrier Earth	BL	BZ-BL20B-3

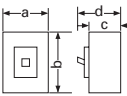
#### ■ H series/2, 3-pole

50A		100A		
2	3	2	3	3
<b>H52BA</b>	<b>H53BA</b>	<b>H102BA</b>	<b>H103BA</b>	<b>H103R</b>
15, 20, 30 40, 50		15, 20, 30, 40 50, 60, 75, 100		40, 50, 60 75, 100
690		690		660
250		250		250
25/7		25/7		—
35/9		35/9		42
65/17		65/17		85
65/17		65/17		85
65/17		65/17		85
65/17		65/17		100
125/32		125/32		125
40/10		40/10		40
90		90		105
155		155		165
60		60		99
82		82		127
1.1		1.1	1.2	2.3
Thermal-magnetic		Thermal-magnetic		Thermal-magnetic
Provided		Provided		Provided
●		●		●
●		●		●
●		●		●
—		—		—
●		●		●
—		—		—
BZ-K35B□		BZ-K35B□		BZ-K50B□
BZ-W35B□		BZ-W35B□		BZ-W50B□
BZ-R35BT		BZ-R35BT		BZ-R50BT
BZ-F35BT		BZ-F35BT		BZ-F50BT
▲		▲		▲
▲		▲		▲
BZ-M130C-3		BZ-M130C-3		BZ-M140C
BZ-N30C		BZ-N30C		BZ-N50C
BZ-V30C		BZ-V30C		BZ-V50C
BZ-C30B-3		BZ-C30B-3		BZ-C50B
BZ-CV30C		BZ-CV30C		—
BZ-TS30B-3		BZ-TS30B-3		BZ-TS50B
BZ-TB30B-3		BZ-TB30B-3		BZ-TB50B
BZ-B30B		BZ-B30B		BZ-B50B
BZ-BL35B		BZ-BL35B		BZ-BL50B

● Available — Not available ▲ Factory-mounted accessory

- Notes:
- The breaking capacity for the 240V, 380V and 415V circuits are equivalent to that of 230V, 400V and 440V, respectively.
  - Interphase insulation barriers are standard provided for the front mounting type breakers.
  - \* LA53B, H103R do not conform to IEC 60947-2.

■ H series/2, 3-pole

Frame			225A			400A																	
Pole			2	3	3	2	3	3															
Type			<i>Page 06/43</i> <b>H202BA</b>	<b>H203BA</b>	<b>H203R</b>	<b>H402B</b>	<b>H403B</b>	<b>H403R</b>															
Rated current (A)			125, 150, 175 200, 225			125, 150, 175 200, 225			250, 300 350, 400			250, 300 350, 400											
Rated insulation voltage Ui (Volts)			AC DC			690 250			660 250			690 250			690 250								
Rated breaking capacity (kA)	IEC 60947-2 [Icu/Ics]*		600V AC			25/7			—			35/18			—								
	JIS C8201-2-1		500V AC			35/9			42			42/21			85								
	Ann.2 [Icu]		440V AC			65/17			85			65/33			125								
	415V AC			65/17			85			65/33			125										
	400V AC			65/17			85			65/33			125										
	380V AC			65/17			100			65/33			125										
	230V AC			125/32			125			125/65			125										
250V DC			40/10			40			40/20			40											
Dimensions (mm) <i>Page 06/70</i>			a	105			105			140			140										
			b	165			165			257			257										
			c	60			99			103			103										
			d	84			127			146			146										
Mass (kg)			Front mounting type			1.1			1.3			2.3			4.5			5			5		
Tripping device			Thermal-magnetic						Thermal-magnetic														
Trip button			Provided						Provided														
Front mounting, front connection			No-mark			●			●			●			●								
Front mounting, rear connection			X			●			●			●			●								
Flush mounting, rear connection			E			●			●			●			●								
Flush mounting, top & bottom connection			Y			—			—			—			—								
Plug-in mounting			P			●			●			●			●								
Draw-out			D			—			—			—			—								
Internal accessories			<i>Page 06/88</i>																				
Alarm switch			K			BZ-K40B□			BZ-K40B□			BZ-K70B□			BZ-K70B□								
Auxiliary switch			W			BZ-W40B□			BZ-W40B□			BZ-W70B□			BZ-W70B□								
Undervoltage trip			R			BZ-R40BT			BZ-R40BT			BZ-R70BT			BZ-R70BT								
Shunt trip			F			BZ-F40BT			BZ-F40BT			BZ-F70BT			BZ-F70BT								
External accessories																							
Motor operating mechanism			M			▲			▲			▲			▲								
Padlocking device			Q			▲			▲			▲			▲								
Mechanical interlocking device			M1			BZ-M140C			BZ-M140C			BZ-M160C			BZ-M160C								
Operating handle N type			N			BZ-N40C			BZ-N50C			BZ-N60C			BZ-N60C								
Operating handle V type			V			BZ-V40C			BZ-V50C			BZ-V60C			BZ-V60C								
Steel enclosure			C			BZ-C40B			BZ-C50B			BZ-C60B			BZ-C60B								
Steel enclosure with V type handle			CV			—			—			BZ-CV60C			BZ-CV60B								
Terminal cover Short			TS			BZ-TS40B			BZ-TS50B			—			—								
Terminal cover Long			TB			BZ-TB40B			BZ-TB50B			BZ-TB60B			BZ-TB60B								
Insulation barrier Interphase			B			BZ-B40B			BZ-B50B			B-43A			B-43A								
Insulation barrier Earth			BL			BZ-BL40B			BZ-BL50B			—			—								

● Available — Not available ▲ Factory-mounted accessory

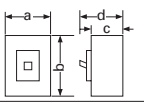
Notes: • The breaking capacity for the 240V, 380V and 415V circuits are equivalent to that of 230V, 400V and 440V, respectively.  
• Interphase insulation barriers are standard provided for the front mounting type breakers.  
\* H203R, H403R do not conform to IEC 60947-2.

# Molded Case Circuit Breakers

## Quick reference guide

### Line protection

#### ■ H series/3-pole

Frame		600A		800A	
Pole		3	3	3	3
Type		<b>H603B</b>	<b>H603R</b>	<b>H803B</b>	<b>H803R</b>
Rated current (A)		500, 600	500, 600	700, 800	700, 800
Rated insulation voltage Ui (Volts)		AC 690	690	690	690
		DC 250	250	250	250
Rated breaking capacity (kA)	IEC 60947-2 [Icu/Ics]*	600V AC 35/18	—	35/18	—
	JIS C8201-2-1	500V AC 42/21	85	42/21	85
	Ann.2 [Icu]	440V AC 42/21	125	42/21	125
		415V AC 65/33	125	65/33	125
		400V AC 65/33	125	65/33	125
		380V AC 65/33	125	65/33	125
		230V AC 125/63	125	125/63	125
		250V DC 40/20	40	40	40/20
Dimensions (mm)		a	210	210	210
		b	275	275	275
		c	103	103	103
		d	146	146	146
Mass (kg) Front mounting type		9	9	10	10
Tripping device		Thermal-magnetic		Thermal-magnetic	
Trip button		Provided		Provided	
Front mounting, front connection	No-mark	●	●	●	●
	rear connection X	●	●	●	●
Flush mounting, rear connection	E	●	●	●	●
	top & bottom connection Y	—	—	—	—
Plug-in mounting	P	●	●	●	●
	Draw-out D	●	●	●	●
Internal accessories <i>Page 06/88</i>					
Alarm switch	K	BZ-K70B□	BZ-K70B□	BZ-K70B□	BZ-K70B□
Auxiliary switch	W	BZ-W70B□	BZ-W70B□	BZ-W70B□	BZ-W70B□
Undervoltage trip	R	BZ-R70BT	BZ-R70BT	BZ-R70BT	BZ-R70BT
Shunt trip	F	BZ-F70BT	BZ-F70BT	BZ-F70BT	BZ-F70BT
External accessories					
Motor operating mechanism	M	▲	▲	▲	▲
Padlocking device	Q	▲	▲	▲	▲
Mechanical interlocking device	M1	BZ-M170C	BZ-M170C	BZ-M170C	BZ-M170C
Operating handle N type	N	BZ-N70C	BZ-N70C	BZ-N70C	BZ-N70C
Operating handle V type	V	BZ-V70C	BZ-V70C	BZ-V70C	BZ-V70C
Steel enclosure	C	BZ-70B	BZ-70B	BZ-70B	BZ-70B
Steel enclosure with V type handle	CV	BZ-CV70C	BZ-CV70C	BZ-CV70C	BZ-CV70C
Terminal cover Short	TS	—	—	—	—
Terminal cover Long	TB	BZ-TB70B	BZ-TB70B	BZ-TB70B	BZ-TB70B
Insulation barrier Interphase	B	B-43A	B-43A	B-43A	B-43A
Insulation barrier Earth	BL	—	—	—	—

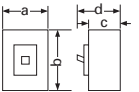
Notes: ● Available — Not available ▲ Factory-mounted accessory  
 \* H603R, H803R do not conform to IEC 60947-2.

# Molded Case Circuit Breakers

## Quick reference guide

### Motor protection

#### ■ L and H series/3-pole

Frame		50A	
Pole		3	3
Type		<i>Page 06/43</i> <b>LA53BM</b>	<b>H53BAM</b>
Rated current (A) *1		5, 8, 10, 12	16, 24, 32, 40, 45
Rated insulation voltage Ui (Volts)		AC 660 DC —	660 —
Rated breaking capacity (kA)	IEC 60947-2 [Icu/Ics]*2	600V AC —	35/9
	JIS C8201-2-1	500V AC 42	42/11
	Ann.2 [Icu]	440V AC 50	65/17
		415V AC 50	65/17
		400V AC 50	65/17
		380V AC 50	65/17
		230V AC 100/50	125/32
Dimensions (mm) <i>Page 06/70</i>		a 75	90
		b 150	155
		c 82	60
		d 102	82
Mass (kg)	Front mounting type	1.1	1.4
Tripping device		Hydraulic-magnetic	Thermal-magnetic
Trip button		Provided	
Front mounting,	front connection	No-mark ●	●
	rear connection	X —	●
Flush mounting,	rear connection	E —	●
	top & bottom connection	Y —	—
Plug-in mounting		P —	●
Draw-out		D —	—
Internal accessories <i>Page 06/88</i>			
Alarm switch	K	BZ-K23B□	BZ-K35B□
Auxiliary switch	W	BZ-W23B□	BZ-W35B□
Undervoltage trip	R	BZ-R23BT□	BZ-R35BT□
Shunt trip	F	BZ-F23BT□	BZ-F35BT□
External accessories			
Motor operating mechanism	M	▲	▲
Padlocking device	Q	▲	▲
Mechanical interlocking device	M1	BZ-M120C-3	BZ-M130C-3
Operating handle N type	N	BZ-N20C	BZ-N30C
Operating handle V type	V	BZ-V20C	BZ-V30C
Steel enclosure	C	—	BZ-C30B-3
Steel enclosure with V type handle	CV	—	BZ-CV30C
Terminal cover Short	TS	—	BZ-TS30B-3
Terminal cover Long	TB	—	BZ-TB30B-3
Insulation barrier Interphase	B	BZ-B30B (LINE), B35B (LOAD)	BZ-B30B
Insulation barrier Earth	BL	BZ-BL20B-3	BZ-BL35B

Notes: \*1 For further information related to motor capacity, see page 06/50.

\*2 LA53BM does not conform to IEC 60947-2.

● Available — Not available ▲ Factory-mounted accessory