MCB, SERIES BMS, BMS0-H, BMS0-DC, SI-E

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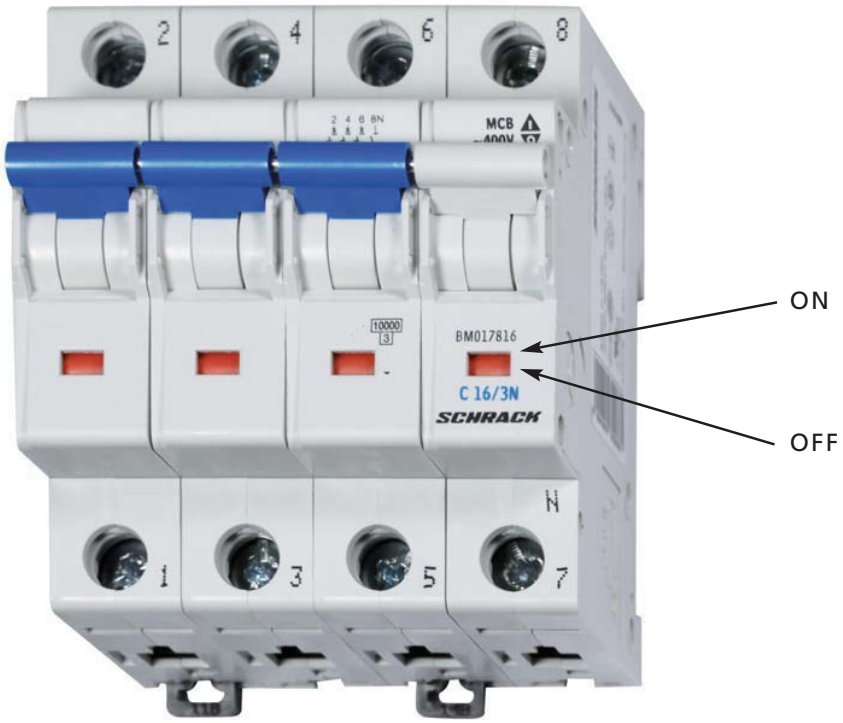
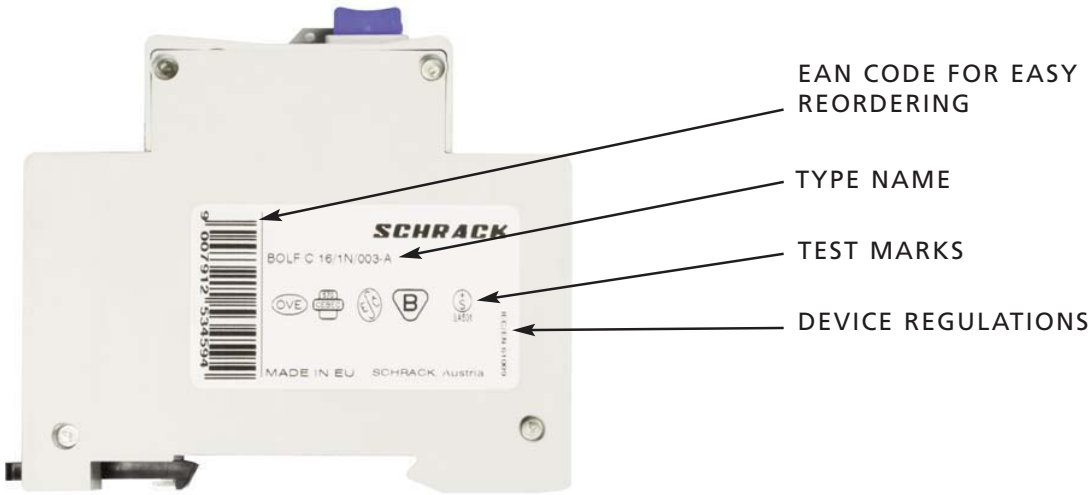
CONTACT POSITION INDICATOR RED/GREEN POSITIVELY DRIVEN



SEALABLE IN ON AND OFF POSITION

ADDITIONAL INFORMATION



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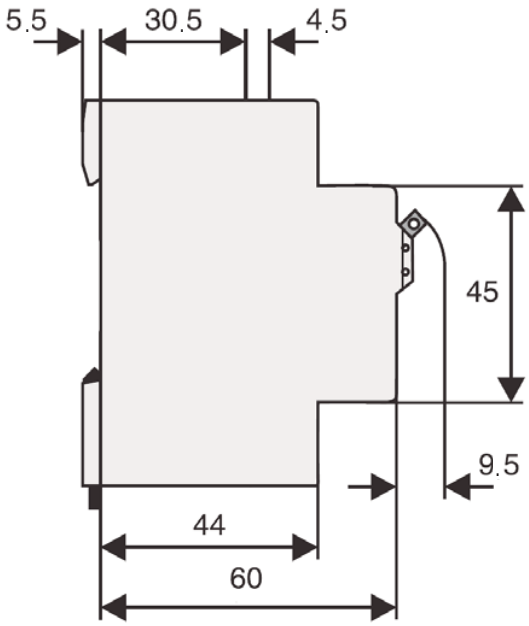
MCB, SERIES BMS, BMS0-H, BMS0-DC

- GUIDE FOR SECURE TERMINAL CONNECTION PREVENTS MISSING THE TERMINAL WHEN INTRODUCING THE WIRE

- 80 mm BASE DIMENSIONS – SPACE-SAVING AND FULLY COMPATIBLE WITH PREDECESSOR SERIES BS



- EASY SNAP-ON TO DIN RAIL BY METAL INSERT IN LATCHING SLIDE

- SNAP-ON ACCESSORIES

EASY SNAP-ON

MAX. 2 CAN BE USED ON ONE MCB

MCB 4.5 kA, SERIES BMS4 – GENERAL INFORMATION


BM018110


BM018210


BM018310


BM017410

SCHRACK-INFO

- Insulated terminal guide for secure connection
- Lift and clamp terminals on both sides
- High selectivity by low let-through energies
- Window with positively-driven contact position indicator for each pole
- Terminal cross-section: 1 mm² – 25 mm²
- Meets the requirements for insulation coordination, contact gap 4 mm
- Mains power connection selectable (top/bottom)
- Installation not dependent on position
- Special latching snap-on mounting for DIN rail EN 50 022

TIPS & TRICKS

NEW: Improved busbar connection by clamp terminals on both sides (top and bottom). No mismating of conductors when connecting thanks to effective terminal guide. No removal of busbar during replacement due to latching snap-on mounting.

ACCESSORIES

Housings, covers
Remote release
Undervoltage release
Auxiliary contact
Automatic remote switching unit (FSA)
Busbar

NOTE

Other rated currents on request
For higher rated currents, see series BR

TECHNICAL DATA

Rated voltage/frequency:	230 V/400 V AC, 50/60 Hz
Rated breaking capacity DC (per pole with release):	max. 48 V DC
Tripping temperature:	-5 °C to +40 °C
Operating temperature:	-40 °C to +75 °C
Permissible back-up fuse:	125 A gG max, >10 kA
Selectivity class:	3
Rated breaking capacity:	4.5 kA acc. to IEC/EN 60898
Degree of protection:	IP 20
Tripping characteristics:	B, C
Endurance:	≥ 8.000 operating cycles (mechanical ≥ 20.000)
Finger and hand touch safe:	acc. to ÖVE EN 6, BGV A3
Terminals:	Double clamp / lift terminal
Terminal cross-section:	1 - 25 mm² (except 1P+N on 1MW)
Terminal width 1 MW:	17.8 mm
Terminal tightening torque:	2 - 2.4 Nm
Mounting:	on DIN rail by latching snap-on mounting

MCB 4.5 kA, SERIES BMS4, SINGLE POLE, 1 MW

BM018110

CIRCUIT DIAGRAM

SCHRACK-INFO

Most common accessories:

- Auxiliary contact 1 NO / 1 NC BM900001
- Busbar 10 mm²/3-pole BS990113
- End cap 3-pole BS900116
- Busbar 10 mm²/1-pole BS900140

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RATED CURRENT	MW	PU	TYPE	EAN CODE	AVAILABLE	ORDER NO.
CHARACTERISTIC CURVE B / CAL. TEMP 30°C						
6 A	1	12	BMS4 B 6/1	9004840390919		**BM418106**
10 A	1	12	BMS4 B 10/1	9004840390926		BM418110
16 A	1	12	BMS4 B 16/1	9004840390933		BM418116
20 A	1	12	BMS4 B 20/1	9004840390940		**BM418120**
25 A	1	12	BMS4 B 25/1	9004840390957		BM418125
32 A	1	12	BMS4 B 32/1	9004840390964		BM418132
40 A	1	12	BMS4 B 40/1	9004840390971		BM418140
CHARACTERISTIC CURVE C / CAL. TEMP 30°C						
2 A	1	12	BMS4 C 2/1	9004840456295		**BM417102**
4 A	1	12	BMS4 C 4/1	9004840456301		BM417104
6 A	1	12	BMS4 C 6/1	9004840390230		**BM417106**
10 A	1	12	BMS4 C 10/1	9004840390247		**BM417110**
16 A	1	12	BMS4 C 16/1	9004840390353		**BM417116**
20 A	1	12	BMS4 C 20/1	9004840390360		**BM417120**
25 A	1	12	BMS4 C 25/1	9004840390377		**BM417125**
32 A	1	12	BMS4 C 32/1	9004840390421		**BM417132**
40 A	1	12	BMS4 C 40/1	9004840390438		**BM417140**
50 A	1	12	BMS4 C 50/1	9004840456318		**BM417150**
63 A	1	12	BMS4 C 63/1	9004840456325		**BM417163**

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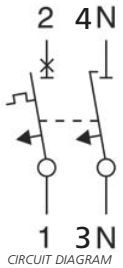
MCB 4.5 kA, SERIES BMS4, SINGLE POLE WITH SWITCHABLE N-CONDUCTOR, 2 MW

BM018610



CIRCUIT DIAGRAM

SCHRACK-INFO

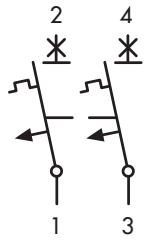
Most common accessories:

- Auxiliary contact 1 NO / 1 NC BM900001
- Busbar 10 mm²/3-pole BS990113
- Busbar 10 mm²/N-conductor BS990115
- Busbar 16 mm²/1N, 2N, 3N BS900123
- Busbar end cap 4-pole BS900117

RATED CURRENT	MW	PU	TYPE	EAN CODE	AVAILABLE	ORDER NO.
CHARACTERISTIC CURVE C / CAL. TEMP 30°C						
6 A	2	6	BMS4 C 6/1N	9004840390599		**BM417606**
10 A	2	6	BMS4 C 10/1N	9004840390582		**BM417610**
16 A	2	6	BMS4 C 16/1N	9004840390605		**BM417616**
20 A	2	6	BMS4 C 20/1N	9004840390612		**BM417620**
25 A	2	6	BMS4 C 25/1N	9004840390629		**BM417625**
32 A	2	6	BMS4 C 32/1N	9004840390636		**BM417632**
40 A	2	6	BMS4 C 40/1N	9004840390643		**BM417640**
50 A	2	6	BMS4 C 50/1N	9004840509007		BM417650
63 A	2	6	BMS4 C 63/1N	9004840509014		BM417663

MCB 4.5 kA, SERIES BMS4, DOUBLE POLE, 2 MW

BM018210



CIRCUIT DIAGRAM

SCHRACK-INFO

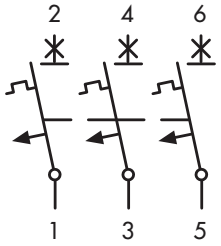
Most common accessories:

- Auxiliary contact 1 NO / 1 NC BM900001
- Busbar 10 mm²/2-pole BS900111
- Busbar end cap 2-pole BS900118

RATED CURRENT	MW	PU	TYPE	EAN CODE	AVAILABLE	ORDER NO.
CHARACTERISTIC CURVE B / CAL. TEMP 30°C						
6 A	2	6	BMS4 B 6/2	9004840394276		BM418206
10 A	2	6	BMS4 B 10/2	9004840394283		BM418210
16 A	2	6	BMS4 B 16/2	9004840394337		BM418216
20 A	2	6	BMS4 B 20/2	9004840394344		BM418220
25 A	2	6	BMS4 B 25/2	9004840394351		BM418225
32 A	2	6	BMS4 B 32/2	9004840394368		BM418232
40 A	2	6	BMS4 B 40/2	9004840394375		BM418240
CHARACTERISTIC CURVE C / CAL. TEMP 30°C						
6 A	2	6	BMS4 C 6/2	9004840393293		**BM417206**
10 A	2	6	BMS4 C 10/2	9004840390445		**BM417210**
16 A	2	6	BMS4 C 16/2	9004840390452		**BM417216**
20 A	2	6	BMS4 C 20/2	9004840390469		**BM417220**
25 A	2	6	BMS4 C 25/2	9004840390476		**BM417225**
32 A	2	6	BMS4 C 32/2	9004840390490		**BM417232**
40 A	2	6	BMS4 C 40/2	9004840390506		**BM417240**
50 A	2	6	BMS4 C 50/2	9004840508987		BM417250
63 A	2	6	BMS4 C 63/2	9004840508994		**BM417263**

MCB 4.5 kA, SERIES BMS4, TRIPLE POLE, 3 MW

BM018310



CIRCUIT DIAGRAM

SCHRACK-INFO

Most common accessories:

- Auxiliary contact 1 NO / 1 NC BM900001
- Busbar 10 mm²/3-pole BS990113
- Busbar 16 mm²/3-pole BS990114
- Busbar end cap 3-pole BS900116

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RATED CURRENT	MW	PU	TYPE	EAN CODE	AVAILABLE	ORDER NO.
CHARACTERISTIC CURVE B / CAL. TEMP 30°C						
6 A	3	4	BMS4 B 6/3	9004840394382		BM418306
10 A	3	4	BMS4 B 10/3	9004840394399		BM418310
16 A	3	4	BMS4 B 16/3	9004840394443		BM418316
20 A	3	4	BMS4 B 20/3	9004840394405		BM418320
25 A	3	4	BMS4 B 25/3	9004840394412		BM418325
32 A	3	4	BMS4 B 32/3	9004840394429		BM418332
40 A	3	4	BMS4 B 40/3	9004840394436		BM418340
CHARACTERISTIC CURVE C / CAL. TEMP 30°C						
6 A	3	4	BMS4 C 6/3	9004840390834		**BM417306**
10 A	3	4	BMS4 C 10/3	9004840390513		**BM417310**
16 A	3	4	BMS4 C 16/3	9004840390520		**BM417316**
20 A	3	4	BMS4 C 20/3	9004840390544		**BM417320**
25 A	3	4	BMS4 C 25/3	9004840390551		**BM417325**
32 A	3	4	BMS4 C 32/3	9004840390568		**BM417332**
40 A	3	4	BMS4 C 40/3	9004840390575		**BM417340**
50 A	3	4	BMS4 C 50/3	9004840456332		**BM417350**
63 A	3	4	BMS4 C 63/3	9004840456349		**BM417363**

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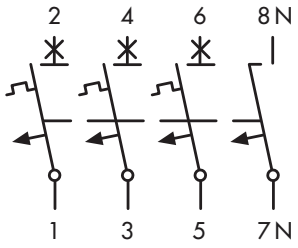
MCB 4.5 kA, SERIES BMS4, TRIPLE POLE WITH SWITCHABLE N-CONDUCTOR, 4 MW

BM018810



CIRCUIT DIAGRAM

SCHRACK-INFO

Most common accessories:

• Auxiliary contact 1 NO / 1 NC	BM900001
• Busbar 10 mm²/3-pole	BS990113
• Busbar 16 mm²/3-pole	BS990114
• Busbar 10 mm²/N-conductor	BS990115
• Busbar 16 mm²/N-conductor	BS900127
• Busbar end cap 4-pole	BS900117

RATED CURRENT	MW	PU	TYPE	EAN CODE	AVAILABLE	ORDER NO.
CHARACTERISTIC CURVE C / CAL. TEMP 30°C						
6 A	4	3	BMS4 C 6/3N	9004840390841		BM417806
10 A	4	3	BMS4 C 10/3N	9004840390858		**BM417810**
16 A	4	3	BMS4 C 16/3N	9004840390865		**BM417816**
20 A	4	3	BMS4 C 20/3N	9004840390872		**BM417820**
25 A	4	3	BMS4 C 25/3N	9004840390889		**BM417825**
32 A	4	3	BMS4 C 32/3N	9004840390896		**BM417832**
40 A	4	3	BMS4 C 40/3N	9004840390902		**BM417840**
50 A	4	3	BMS4 C 50/3N	9004840509021		**BM417850**
63 A	4	3	BMS4 C 63/3N	9004840509038		**BM417863**

MCB 6 kA, SERIES BMS6 – GENERAL INFORMATION


BM018110


BM018210


BM018310


BM017410

SCHRACK-INFO

- Insulated terminal guide for secure connection
- Lift and clamp terminals on both sides
- High selectivity by low let-through energies
- Window with positively-driven contact position indicator for each pole
- Terminal cross-section: 1 mm² – 25 mm²
- Meets the requirements for insulation coordination, contact gap 4 mm
- Mains power connection selectable (top/bottom)
- Installation not dependent on position
- Special latching snap-on mounting for DIN rail EN 50 022

TIPS & TRICKS

NEW: Improved busbar connection by clamp terminals on both sides (top and bottom). No mismating of conductors when connecting thanks to effective terminal guide. No removal of busbar during replacement due to latching snap-on mounting.

ACCESSORIES

Housings, covers
Remote release
Undervoltage release
Auxiliary contact
Automatic remote switching unit (FSA)
Busbar

NOTE

Other rated currents on request
For higher rated currents, see series BR

TECHNICAL DATA

Rated voltage/frequency:	230 V/400 V AC, 50/60 Hz
Rated breaking capacity DC (per pole with release):	max. 48 V DC
Tripping temperature:	-5 °C to +40 °C
Operating temperature:	-40 °C to +75 °C
Permissible back-up fuse:	125 A gG max, >10 kA
Selectivity class:	3
Rated breaking capacity:	6 kA acc. to IEC/EN 60898, 10 kA acc. to IEC/EN 60947-2
Degree of protection:	IP 20
Tripping characteristics:	B, C
Endurance:	≥ 8.000 operating cycles (mechanical ≥ 20.000)
Finger and hand touch safe:	acc. to ÖVE EN 6, BGV A3
Terminals:	Double clamp / lift terminal
Terminal cross-section:	1 - 25 mm² (except 1P+N on 1MW)
Terminal width 1 MW:	17.8 mm
Terminal tightening torque:	2 - 2.4 Nm
Mounting:	on DIN rail by latching snap-on mounting

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MCB 6 kA, SERIES BMS6, SINGLE POLE, 1 MW

BM018110

CIRCUIT DIAGRAM

SCHRACK-INFO

Most common accessories:

- Auxiliary contact 1 NO / 1 NC BM900001
- Busbar 10 mm²/3-pole BS990113
- End cap 3-pole BS900116
- Busbar 10 mm²/1-pole BS900140

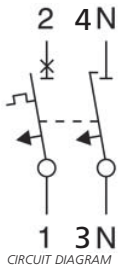
RATED CURRENT	MW	PU	TYPE	EAN CODE	AVAILABLE	ORDER NO.
CHARACTERISTIC CURVE B / CAL. TEMP 30°C						
2 A	1	12	BMS6 B 2/1	9004840449594		**BM618102**
4 A	1	12	BMS6 B 4/1	9004840449600		**BM618104**
6 A	1	12	BMS6 B 6/1	9004840396126		**BM618106**
10 A	1	12	BMS6 B 10/1	9004840396133		**BM618110**
13 A	1	12	BMS6 B 13/1	9004840396140		**BM618113**
16 A	1	12	BMS6 B 16/1	9004840396157		**BM618116**
20 A	1	12	BMS6 B 20/1	9004840396164		**BM618120**
25 A	1	12	BMS6 B 25/1	9004840396171		**BM618125**
32 A	1	12	BMS6 B 32/1	9004840396188		**BM618132**
40 A	1	12	BMS6 B 40/1	9004840396195		**BM618140**
50 A	1	12	BMS6 B 50/1	9004840396201		**BM618150**
63 A	1	12	BMS6 B 63/1	9004840396218		**BM618163**
CHARACTERISTIC CURVE B / CAL. TEMP 40°C						
6 A	1	12	BMS6 B 6/1 ME	9004840547108		BM618106ME
10 A	1	12	BMS6 B 10/1 ME	9004840547092		**BM618110ME**
16 A	1	12	BMS6 B 16/1 ME	9004840552393		**BM618116ME**
20 A	1	12	BMS6 B 20/1 ME	9004840552409		BM618120ME
25 A	1	12	BMS6 B 25/1 ME	9004840552416		BM618125ME
32 A	1	12	BMS6 B 32/1 ME	9004840591361		BM618132ME
40 A	1	12	BMS6 B 40/1 ME	9004840591378		BM618140ME
50 A	1	12	BMS6 B 50/1 ME	9004840591385		BM618150ME
63 A	1	12	BMS6 B 63/1 ME	9004840591392		BM618163ME
CHARACTERISTIC CURVE C / CAL. TEMP 30°C						
2 A	1	12	BMS6 C 2/1	9004840395839		**BM617102**
4 A	1	12	BMS6 C 4/1	9004840395846		**BM617104**
6 A	1	12	BMS6 C 6/1	9004840395822		**BM617106**
10 A	1	12	BMS6 C 10/1	9004840395853		**BM617110**
13 A	1	12	BMS6 C 13/1	9004840395860		**BM617113**
16 A	1	12	BMS6 C 16/1	9004840395877		**BM617116**
20 A	1	12	BMS6 C 20/1	9004840395884		**BM617120**
25 A	1	12	BMS6 C 25/1	9004840395891		**BM617125**
32 A	1	12	BMS6 C 32/1	9004840395907		**BM617132**
40 A	1	12	BMS6 C 40/1	9004840395914		**BM617140**
50 A	1	12	BMS6 C 50/1	9004840395921		**BM617150**
63 A	1	12	BMS6 C 63/1	9004840395938		**BM617163**

MCB 6 kA, SERIES BMS6, SINGLE POLE, 1 MW – continued

RATED CURRENT	MW	PU	TYPE	EAN CODE	AVAILABLE	ORDER NO.
CHARACTERISTIC CURVE C / CAL. TEMP 40°C						
2 A	1	12	BMS6 C 2/1 ME	9004840526790		**BM617102ME**
4 A	1	12	BMS6 C 4/1 ME	9004840526806		BM617104ME
6 A	1	12	BMS6 C 6/1 ME	9004840526813		**BM617106ME**
10 A	1	12	BMS6 C 10/1 ME	9004840526820		**BM617110ME**
16 A	1	12	BMS6 C 16/1 ME	9004840526837		**BM617116ME**
20 A	1	12	BMS6 C 20/1 ME	9004840526844		**BM617120ME**
25 A	1	12	BMS6 C 25/1 ME	9004840526851		**BM617125ME**
32 A	1	12	BMS6 C 32/1 ME	9004840526868		**BM617132ME**
40 A	1	12	BMS6 C 40/1 ME	9004840526875		**BM617140ME**
50 A	1	12	BMS6 C 50/1 ME	9004840526882		BM617150ME
63 A	1	12	BMS6 C 63/1 ME	9004840526899		BM617163ME

MCB 6 kA, SERIES BMS6, SINGLE POLE WITH SWITCHABLE N-CONDUCTOR, 2 MW

BM018610



CIRCUIT DIAGRAM

SCHRACK-INFO

Most common accessories:

- Auxiliary contact 1 NO / 1 NC BM900001
- Busbar 10 mm²/3-pole BS990113
- Busbar 10 mm²/N-conductor BS990115
- Busbar 16 mm²/1N, 2N, 3N BS900123
- Busbar end cap 4-pole BS900117

RATED CURRENT	MW	PU	TYPE	EAN CODE	AVAILABLE	ORDER NO.
CHARACTERISTIC CURVE B / CAL. TEMP 30°C						
6 A	2	6	BMS6 B 6/1N	9004840397239		**BM618606**
10 A	2	6	BMS6 B 10/1N	9004840397246		**BM618610**
13 A	2	6	BMS6 B 13/1N	9004840397253		BM618613
16 A	2	6	BMS6 B 16/1N	9004840397260		**BM618616**
20 A	2	6	BMS6 B 20/1N	9004840397277		BM618620
25 A	2	6	BMS6 B 25/1N	9004840397284		BM618625
32 A	2	6	BMS6 B 32/1N	9004840397291		BM618632
40 A	2	6	BMS6 B 40/1N	9004840397307		BM618640
CHARACTERISTIC CURVE C / CAL. TEMP 30°C						
2 A	2	6	BMS6 C 2/1N	9004840509045		BM617602
4 A	2	6	BMS6 C 4/1N	9004840509052		**BM617604**
6 A	2	6	BMS6 C 6/1N	9004840397314		**BM617606**
10 A	2	6	BMS6 C 10/1N	9004840397321		**BM617610**
13 A	2	6	BMS6 C 13/1N	9004840397338		BM617613
16 A	2	6	BMS6 C 16/1N	9004840397345		**BM617616**
20 A	2	6	BMS6 C 20/1N	9004840397352		**BM617620**
25 A	2	6	BMS6 C 25/1N	9004840397369		**BM617625**
32 A	2	6	BMS6 C 32/1N	9004840397376		**BM617632**
40 A	2	6	BMS6 C 40/1N	9004840397383		BM617640
50 A	2	6	BMS6 C 50/1N	9004840509069		BM617650
63 A	2	6	BMS6 C 63/1N	9004840509076		BM617663

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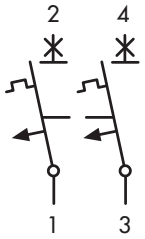
MCB 6 kA, SERIES BMS6, DOUBLE POLE, 2 MW

BM018210



CIRCUIT DIAGRAM

SCHRACK-INFO

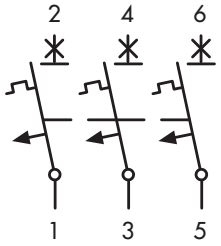
Most common accessories:

- Auxiliary contact 1 NO / 1 NC BM900001
- Busbar 10 mm²/2-pole BS900111
- Busbar end cap 2-pole BS900118

RATED CURRENT	MW	PU	TYPE	EAN CODE	AVAILABLE	ORDER NO.
CHARACTERISTIC CURVE B / CAL. TEMP 30°C						
6 A	2	6	BMS6 B 6/2	9004840396225		**BM618206**
10 A	2	6	BMS6 B 10/2	9004840396232		**BM618210**
13 A	2	6	BMS6 B 13/2	9004840396249		**BM618213**
16 A	2	6	BMS6 B 16/2	9004840396256		**BM618216**
20 A	2	6	BMS6 B 20/2	9004840396263		**BM618220**
25 A	2	6	BMS6 B 25/2	9004840396270		**BM618225**
32 A	2	6	BMS6 B 32/2	9004840396287		**BM618232**
40 A	2	6	BMS6 B 40/2	9004840396294		BM618240
50 A	2	6	BMS6 B 50/2	9004840396300		BM618250
63 A	2	6	BMS6 B 63/2	9004840396317		BM618263
CHARACTERISTIC CURVE C / CAL. TEMP 30°C						
2 A	2	6	BMS6 C 2/2	9004840396829		**BM617202**
4 A	2	6	BMS6 C 4/2	9004840396836		**BM617204**
6 A	2	6	BMS6 C 6/2	9004840396843		**BM617206**
10 A	2	6	BMS6 C 10/2	9004840396850		**BM617210**
13 A	2	6	BMS6 C 13/2	9004840396867		BM617213
16 A	2	6	BMS6 C 16/2	9004840396874		**BM617216**
20 A	2	6	BMS6 C 20/2	9004840396881		**BM617220**
25 A	2	6	BMS6 C 25/2	9004840396898		**BM617225**
32 A	2	6	BMS6 C 32/2	9004840396904		**BM617232**
40 A	2	6	BMS6 C 40/2	9004840396911		**BM617240**
50 A	2	6	BMS6 C 50/2	9004840396928		**BM617250**
63 A	2	6	BMS6 C 63/2	9004840396935		**BM617263**
CHARACTERISTIC CURVE C / CAL. TEMP 40°C						
2 A	2	6	BMS6 C 2/2 ME	9004840526905		BM617202ME
4 A	2	6	BMS6 C 4/2 ME	9004840526912		BM617204ME
6 A	2	6	BMS6 C 6/2 ME	9004840526929		**BM617206ME**
10 A	2	6	BMS6 C 10/2 ME	9004840526936		**BM617210ME**
16 A	2	6	BMS6 C 16/2 ME	9004840526943		**BM617216ME**
20 A	2	6	BMS6 C 20/2 ME	9004840526950		**BM617220ME**
25 A	2	6	BMS6 C 25/2 ME	9004840526967		**BM617225ME**
32 A	2	6	BMS6 C 32/2 ME	9004840527384		**BM617232ME**
40 A	2	6	BMS6 C 40/2 ME	9004840526974		**BM617240ME**
50 A	2	6	BMS6 C 50/2 ME	9004840526981		BM617250ME
63 A	2	6	BMS6 C 63/2 ME	9004840526998		BM617263ME

MCB 6 kA, SERIES BMS6, TRIPLE POLE, 3 MW

BM018310



CIRCUIT DIAGRAM

SCHRACK-INFO

Most common accessories:

- Auxiliary contact 1 NO / 1 NC BM900001
- Busbar 10 mm²/3-pole BS990113
- Busbar 16 mm²/3-pole BS990114
- Busbar end cap 3-pole BS900116

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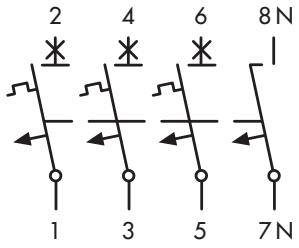
RATED CURRENT	MW	PU	TYPE	EAN CODE	AVAILABLE	ORDER NO.
CHARACTERISTIC CURVE B / CAL. TEMP 30°C						
6 A	3	4	BMS6 B 6/3	9004840397017		**BM618306**
10 A	3	4	BMS6 B 10/3	9004840397024		**BM618310**
13 A	3	4	BMS6 B 13/3	9004840397031		**BM618313**
16 A	3	4	BMS6 B 16/3	9004840397048		**BM618316**
20 A	3	4	BMS6 B 20/3	9004840397055		**BM618320**
25 A	3	4	BMS6 B 25/3	9004840397062		**BM618325**
32 A	3	4	BMS6 B 32/3	9004840397079		**BM618332**
40 A	3	4	BMS6 B 40/3	9004840397086		**BM618340**
50 A	3	4	BMS6 B 50/3	9004840397093		**BM618350**
63 A	3	4	BMS6 B 63/3	9004840397109		**BM618363**
CHARACTERISTIC CURVE B / CAL. TEMP 40°C						
6 A	3	4	BMS6 B 6/3 ME	9004840591644		BM618306ME
10 A	3	4	BMS6 B 10/3 ME	9004840591651		BM618310ME
16 A	3	4	BMS6 B 16/3 ME	9004840591668		BM618316ME
20 A	3	4	BMS6 B 20/3 ME	9004840591675		BM618320ME
25 A	3	4	BMS6 B 25/3 ME	9004840591682		BM618325ME
32 A	3	4	BMS6 B 32/3 ME	9004840552478		BM618332ME
40 A	3	4	BMS6 B 40/3 ME	9004840552485		BM618340ME
50 A	3	4	BMS6 B 50/3 ME	9004840591705		BM618350ME
63 A	3	4	BMS6 B 63/3 ME	9004840552492		BM618363ME
CHARACTERISTIC CURVE C / CAL. TEMP 30°C						
2 A	3	4	BMS6 C 2/3	9004840397116		**BM617302**
4 A	3	4	BMS6 C 4/3	9004840397123		**BM617304**
6 A	3	4	BMS6 C 6/3	9004840397130		**BM617306**
10 A	3	4	BMS6 C 10/3	9004840397147		**BM617310**
13 A	3	4	BMS6 C 13/3	9004840397154		**BM617313**
16 A	3	4	BMS6 C 16/3	9004840397161		**BM617316**
20 A	3	4	BMS6 C 20/3	9004840397178		**BM617320**
25 A	3	4	BMS6 C 25/3	9004840397185		**BM617325**
32 A	3	4	BMS6 C 32/3	9004840397192		**BM617332**
40 A	3	4	BMS6 C 40/3	9004840397208		**BM617340**
50 A	3	4	BMS6 C 50/3	9004840397215		**BM617350**
63 A	3	4	BMS6 C 63/3	9004840397222		**BM617363**

MCB 6 kA, SERIES BMS6, TRIPLE POLE, 3 MW – continued

RATED CURRENT	MW	PU	TYPE	EAN CODE	AVAILABLE	ORDER NO.
CHARACTERISTIC CURVE C / CAL. TEMP 40°C						
2 A	3	4	BMS6 C 2/3 ME	9004840529029		BM617302ME
4 A	3	4	BMS6 C 4/3 ME	9004840529036		BM617304ME
6 A	3	4	BMS6 C 6/3 ME	9004840527001		**BM617306ME**
10 A	3	4	BMS6 C 10/3 ME	9004840527018		**BM617310ME**
16 A	3	4	BMS6 C 16/3 ME	9004840527025		**BM617316ME**
20 A	3	4	BMS6 C 20/3 ME	9004840527032		**BM617320ME**
25 A	3	4	BMS6 C 25/3 ME	9004840527049		**BM617325ME**
32 A	3	4	BMS6 C 32/3 ME	9004840527056		**BM617332ME**
40 A	3	4	BMS6 C 40/3 ME	9004840527063		**BM617340ME**
50 A	3	4	BMS6 C 50/3 ME	9004840527070		**BM617350ME**
63 A	3	4	BMS6 C 63/3 ME	9004840527087		**BM617363ME**

MCB 6 kA, SERIES BMS6, TRIPLE POLE WITH SWITCHABLE N-CONDUCTOR, 4 MW

BM018810



CIRCUIT DIAGRAM

SCHRACK-INFO

Most common accessories:

- Auxiliary contact 1 NO / 1 NC BM900001
- Busbar 10 mm²/3-pole BS990113
- Busbar 16 mm²/3-pole BS990114
- Busbar 10 mm²/N-conductor BS990115
- Busbar 16 mm²/N-conductor BS900127
- Busbar end cap 4-pole BS900117

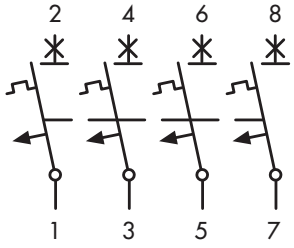
RATED CURRENT	MW	PU	TYPE	EAN CODE	AVAILABLE	ORDER NO.
CHARACTERISTIC CURVE B / CAL. TEMP 30°C						
6 A	4	3	BMS6 B 6/3N	9004840397390		**BM618806**
10 A	4	3	BMS6 B 10/3N	9004840397406		**BM618810**
13 A	4	3	BMS6 B 13/3N	9004840397413		BM618813
16 A	4	3	BMS6 B 16/3N	9004840397420		**BM618816**
20 A	4	3	BMS6 B 20/3N	9004840397437		**BM618820**
25 A	4	3	BMS6 B 25/3N	9004840397444		**BM618825**
32 A	4	3	BMS6 B 32/3N	9004840397451		**BM618832**
40 A	4	3	BMS6 B 40/3N	9004840397468		**BM618840**
50 A	4	3	BMS6 B 50/3N	9004840397475		BM618850
63 A	4	3	BMS6 B 63/3N	9004840397482		BM618863
CHARACTERISTIC CURVE B / CAL. TEMP 40°C						
6 A	4	3	BMS6 B 6/3N ME	9004840591712		BM618806ME
10 A	4	3	BMS6 B 10/3N ME	9004840591729		BM618810ME
16 A	4	3	BMS6 B 16/3N ME	9004840591736		BM618816ME
20 A	4	3	BMS6 B 20/3N ME	9004840591743		BM618820ME
25 A	4	3	BMS6 B 25/3N ME	9004840591750		BM618825ME
32 A	4	3	BMS6 B 32/3N ME	9004840591767		BM618832ME
40 A	4	3	BMS6 B 40/3N ME	9004840591774		BM618840ME
50 A	4	3	BMS6 B 50/3N ME	9004840591781		BM618850ME
63 A	4	3	BMS6 B 63/3N ME	9004840591798		BM618863ME

MCB 6 kA, SERIES BMS6, TRIPLE POLE WITH SWITCHABLE N-CONDUCTOR, 4 MW – continued

RATED CURRENT	MW	PU	TYPE	EAN CODE	AVAILABLE	ORDER NO.
CHARACTERISTIC CURVE C / CAL. TEMP 30°C						
2 A	4	3	BMS6 C 2/3N	9004840397499		BM617802
4 A	4	3	BMS6 C 4/3N	9004840397505		BM617804
6 A	4	3	BMS6 C 6/3N	9004840397512		**BM617806**
10 A	4	3	BMS6 C 10/3N	9004840397529		**BM617810**
16 A	4	3	BMS6 C 16/3N	9004840397543		**BM617816**
20 A	4	3	BMS6 C 20/3N	9004840397550		**BM617820**
25 A	4	3	BMS6 C 25/3N	9004840397567		**BM617825**
32 A	4	3	BMS6 C 32/3N	9004840397574		**BM617832**
40 A	4	3	BMS6 C 40/3N	9004840397581		**BM617840**
50 A	4	3	BMS6 C 50/3N	9004840397598		**BM617850**
63 A	4	3	BMS6 C 63/3N	9004840397604		**BM617863**
CHARACTERISTIC CURVE C / CAL. TEMP 40°C						
2 A	4	3	BMS6 C 2/3N ME	9004840528855		BM617802ME
4 A	4	3	BMS6 C 4/3N ME	9004840528862		BM617804ME
6 A	4	3	BMS6 C 6/3N ME	9004840528879		BM617806ME
10 A	4	3	BMS6 C 10/3N ME	9004840528886		BM617810ME
16 A	4	3	BMS6 C 16/3N ME	9004840528916		BM617816ME
20 A	4	3	BMS6 C 20/3N ME	9004840528923		BM617820ME
25 A	4	3	BMS6 C 25/3N ME	9004840529005		BM617825ME
32 A	4	3	BMS6 C 32/3N ME	9004840528978		BM617832ME
40 A	4	3	BMS6 C 40/3N ME	9004840528985		BM617840ME
50 A	4	3	BMS6 C 50/3N ME	9004840528992		BM617850ME
63 A	4	3	BMS6 C 63/3N ME	9004840529012		BM617863ME

MCB 6 kA, SERIES BMS6, FOUR POLE, 4 MW

BM017410



CIRCUIT DIAGRAM

SCHRACK-INFO

Most common accessories:

- Auxiliary contact 1 NO / 1 NC BM900001
- Busbar 10 mm²/4-pole BS990121
- Busbar 16 mm²/4-pole BS990122
- Busbar end cap 4-pole BS900117

RATED CURRENT	MW	PU	TYPE	EAN CODE	AVAILABLE	ORDER NO.
CHARACTERISTIC CURVE B / CAL. TEMP 30°C						
6 A	4	3	BMS6 B 6/4	9004840547795		BM618406
10 A	4	3	BMS6 B 10/4	9004840547801		BM618410
16 A	4	3	BMS6 B 16/4	9004840547818		BM618416
20 A	4	3	BMS6 B 20/4	9004840547825		BM618420
25 A	4	3	BMS6 B 25/4	9004840547832		BM618425
32 A	4	3	BMS6 B 32/4	9004840547849		BM618432
40 A	4	3	BMS6 B 40/4	9004840547856		BM618440
50 A	4	3	BMS6 B 50/4	9004840547863		BM618450
63 A	4	3	BMS6 B 63/4	9004840547870		BM618463

MCB 6 kA, SERIES BMS6, FOUR POLE, 4 MW – continued

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RATED CURRENT	MW	PU	TYPE	EAN CODE	AVAILABLE	ORDER NO.
CHARACTERISTIC CURVE B / CAL. TEMP 40°C						
6 A	4	3	BMS6 B 6/4 ME	9004840545166		BM618406ME
10 A	4	3	BMS6 B 10/4 ME	9004840545173		BM618410ME
16 A	4	3	BMS6 B 16/4 ME	9004840545180		BM618416ME
20 A	4	3	BMS6 B 20/4 ME	9004840545197		BM618420ME
25 A	4	3	BMS6 B 25/4 ME	9004840545203		BM618425ME
32 A	4	3	BMS6 B 32/4 ME	9004840545210		BM618432ME
40 A	4	3	BMS6 B 40/4 ME	9004840545227		BM618440ME
50 A	4	3	BMS6 B 50/4 ME	9004840545234		BM618450ME
63 A	4	3	BMS6 B 63/4 ME	9004840545241		BM618463ME
CHARACTERISTIC CURVE C / CAL. TEMP 30°C						
6 A	4	3	BMS6 C 6/4	9004840547702		BM617406
10 A	4	3	BMS6 C 10/4	9004840547719		BM617410
16 A	4	3	BMS6 C 16/4	9004840547726		BM617416
20 A	4	3	BMS6 C 20/4	9004840547733		BM617420
25 A	4	3	BMS6 C 25/4	9004840547740		BM617425
32 A	4	3	BMS6 C 32/4	9004840547757		BM617432
40 A	4	3	BMS6 C 40/4	9004840547764		BM617440
50 A	4	3	BMS6 C 50/4	9004840547788		BM617450
63 A	4	3	BMS6 C 63/4	9004840547771		BM617463
CHARACTERISTIC CURVE C / CAL. TEMP 40°C						
2 A	4	3	BMS6 C 2/4 ME	9004840545050		BM617402ME
4 A	4	3	BMS6 C 4/4 ME	9004840545067		BM617404ME
6 A	4	3	BMS6 C 6/4 ME	9004840545074		BM617406ME
10 A	4	3	BMS6 C 10/4 ME	9004840545081		BM617410ME
16 A	4	3	BMS6 C 16/4 ME	9004840545098		BM617416ME
20 A	4	3	BMS6 C 20/4 ME	9004840545104		BM617420ME
25 A	4	3	BMS6 C 25/4 ME	9004840545111		BM617425ME
32 A	4	3	BMS6 C 32/4 ME	9004840545128		BM617432ME
40 A	4	3	BMS6 C 40/4 ME	9004840545135		BM617440ME
50 A	4	3	BMS6 C 50/4 ME	9004840545142		BM617450ME
63 A	4	3	BMS6 C 63/4 ME	9004840545159		BM617463ME

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MCB 10 kA, SERIES BMS0 – GENERAL INFORMATION


BM018110


BM018210


BM018310


BM017410

SCHRACK-INFO

- Insulated terminal guide for secure connection
- Lift and clamp terminals on both sides
- High selectivity by low let-through energies
- Window with positively-driven contact position indicator for each pole
- Terminal cross-section: 1 mm² – 25 mm²
- Meets the requirements for insulation coordination, contact gap 4 mm
- Mains power connection selectable (top/bottom)
- Installation not dependent on position
- Special latching snap-on mounting for DIN rail EN 50 022

TIPS & TRICKS

NEW: Improved busbar connection by clamp terminals on both sides (top and bottom). No mismating of conductors when connecting thanks to effective terminal guide. No removal of busbar during replacement due to latching snap-on mounting.

ACCESSORIES

Housings, covers
Remote release
Undervoltage release
Auxiliary contact
Automatic remote switching unit (FSA)
Busbar

NOTE

Other rated currents on request
For higher rated currents, see series BR

TECHNICAL DATA

Rated voltage/frequency:	230 V/400 V AC, 50/60 Hz
Rated breaking capacity DC (per pole with release):	max. 48 V DC
Tripping temperature:	-5 °C to +40 °C
Operating temperature:	-40 °C to +75 °C
Permissible back-up fuse:	125 A gG max, >10 kA
Selectivity class:	3
Rated breaking capacity:	10 kA acc. to IEC/EN 60898, 15 kA acc. to IEC/EN 60947-2
Degree of protection:	IP 20
Tripping characteristics:	B, C, D
Endurance:	≥ 8.000 operating cycles (mechanical ≥ 20.000)
Finger and hand touch safe:	acc. to ÖVE EN 6, BGV A3
Terminals:	Double clamp / lift terminal
Terminal cross-section:	1 - 25 mm² (except 1P+N on 1MW)
Terminal width 1 MW:	17.8 mm
Terminal tightening torque:	2 - 2.4 Nm
Mounting:	on DIN rail by latching snap-on mounting

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MCB 10 kA, SERIES BMS0, SINGLE POLE, 1 MW

BM018110

CIRCUIT DIAGRAM

SCHRACK-INFO

Most common accessories:

- Auxiliary contact 1 NO / 1 NC BM900001
- Busbar 10 mm²/3-pole BS990113
- End cap 3-pole BS900116
- Busbar 10 mm²/1-pole BS900140

RATED CURRENT	MW	PU	TYPE	EAN CODE	AVAILABLE	ORDER NO.
CHARACTERISTIC CURVE B / CAL. TEMP 30°C						
2 A	1	12	BMS0 B 2/1	9004840392739		**BM018102**
4 A	1	12	BMS0 B 4/1	9004840392746		**BM018104**
6 A	1	12	BMS0 B 6/1	9004840392753		**BM018106**
10 A	1	12	BMS0 B 10/1	9004840392760		**BM018110**
13 A	1	12	BMS0 B 13/1	9004840392777		**BM018113**
16 A	1	12	BMS0 B 16/1	9004840392784		**BM018116**
20 A	1	12	BMS0 B 20/1	9004840392791		**BM018120**
25 A	1	12	BMS0 B 25/1	9004840392807		**BM018125**
32 A	1	12	BMS0 B 32/1	9004840392814		**BM018132**
40 A	1	12	BMS0 B 40/1	9004840392821		**BM018140**
50 A	1	12	BMS0 B 50/1	9004840392838		**BM018150**
63 A	1	12	BMS0 B 63/1	9004840392845		**BM018163**
CHARACTERISTIC CURVE B / CAL. TEMP 40°C						
2 A	1	12	BMS0 B 2/1 ME	9004840628142		BM018102ME
4 A	1	12	BMS0 B 4/1 ME	9004840628159		BM018104ME
6 A	1	12	BMS0 B 6/1 ME	9004840591330		BM018106ME
10 A	1	12	BMS0 B 10/1 ME	9004840591347		BM018110ME
16 A	1	12	BMS0 B 16/1 ME	9004840591354		BM018116ME
20 A	1	12	BMS0 B 20/1 ME	9004840591439		BM018120ME
25 A	1	12	BMS0 B 25/1 ME	9004840591446		BM018125ME
32 A	1	12	BMS0 B 32/1 ME	9004840591453		BM018132ME
40 A	1	12	BMS0 B 40/1 ME	9004840591460		BM018140ME
50 A	1	12	BMS0 B 50/1 ME	9004840591477		BM018150ME
63 A	1	12	BMS0 B 63/1 ME	9004840591484		BM018163ME
CHARACTERISTIC CURVE C / CAL. TEMP 30°C						
0.5 A	1	12	BMS0 C 0.5/1	9004840391688		**BM0171005**
1 A	1	12	BMS0 C 1/1	9004840391671		**BM017101**
2 A	1	12	BMS0 C 2/1	9004840391695		**BM017102**
4 A	1	12	BMS0 C 4/1	9004840391725		**BM017104**
6 A	1	12	BMS0 C 6/1	9004840391718		**BM017106**
10 A	1	12	BMS0 C 10/1	9004840391732		**BM017110**
13 A	1	12	BMS0 C 13/1	9004840391749		**BM017113**
16 A	1	12	BMS0 C 16/1	9004840391756		**BM017116**
20 A	1	12	BMS0 C 20/1	9004840391763		**BM017120**
25 A	1	12	BMS0 C 25/1	9004840391770		**BM017125**
32 A	1	12	BMS0 C 32/1	9004840391787		**BM017132**
40 A	1	12	BMS0 C 40/1	9004840391794		**BM017140**
50 A	1	12	BMS0 C 50/1	9004840391800		**BM017150**
63 A	1	12	BMS0 C 63/1	9004840391817		**BM017163**

MCB 10 kA, SERIES BMS0, SINGLE POLE, 1 MW – continued

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RATED CURRENT	MW	PU	TYPE	EAN CODE	AVAILABLE	ORDER NO.
CHARACTERISTIC CURVE C / CAL. TEMP 40°C						
2 A	1	12	BMS0 C 2/1 ME	9004840591231		BM017102ME
4 A	1	12	BMS0 C 4/1 ME	9004840591248		BM017104ME
6 A	1	12	BMS0 C 6/1 ME	9004840527094		BM017106ME
10 A	1	12	BMS0 C 10/1 ME	9004840527100		BM017110ME
16 A	1	12	BMS0 C 16/1 ME	9004840527117		BM017116ME
20 A	1	12	BMS0 C 20/1 ME	9004840527124		BM017120ME
25 A	1	12	BMS0 C 25/1 ME	9004840527131		BM017125ME
32 A	1	12	BMS0 C 32/1 ME	9004840527148		BM017132ME
40 A	1	12	BMS0 C 40/1 ME	9004840527155		BM017140ME
50 A	1	12	BMS0 C 50/1 ME	9004840527162		BM017150ME
63 A	1	12	BMS0 C 63/1 ME	9004840527179		BM017163ME
CHARACTERISTIC CURVE D / CAL. TEMP 30°C						
2 A	1	12	BMS0 D 2/1	9004840398151		**BM019102**
4 A	1	12	BMS0 D 4/1	9004840398168		**BM019104**
6 A	1	12	BMS0 D 6/1	9004840398175		**BM019106**
10 A	1	12	BMS0 D 10/1	9004840398182		**BM019110**
13 A	1	12	BMS0 D 13/1	9004840398199		**BM019113**
16 A	1	12	BMS0 D 16/1	9004840398205		**BM019116**
20 A	1	12	BMS0 D 20/1	9004840398212		**BM019120**
25 A	1	12	BMS0 D 25/1	9004840398229		**BM019125**
32 A	1	12	BMS0 D 32/1	9004840398236		**BM019132**
40 A	1	12	BMS0 D 40/1	9004840398243		**BM019140**
50 A acc. to EN 60947-2	1	12	BMS0 D 50/1	9004840562170		BM019150
63 A acc. to EN 60947-2	1	12	BMS0 D 63/1	9004840562187		BM019163
CHARACTERISTIC CURVE D / CAL. TEMP 40°C						
2 A	1	12	BMS0 D 2/1 ME	9004840622409		BM019102ME
4 A	1	12	BMS0 D 4/1 ME	9004840622416		BM019104ME
6 A	1	12	BMS0 D 6/1 ME	9004840622423		BM019106ME
10 A	1	12	BMS0 D 10/1 ME	9004840622430		BM019110ME
16 A	1	12	BMS0 D 16/1 ME	9004840622447		BM019116ME
20 A	1	12	BMS0 D 20/1 ME	9004840622454		BM019120ME
25 A	1	12	BMS0 D 25/1 ME	9004840622461		BM019125ME
32 A	1	12	BMS0 D 32/1 ME	9004840622478		BM019132ME
40 A	1	12	BMS0 D 40/1 ME	9004840622485		BM019140ME
50 A acc. to EN 60947-2	1	12	BMS0 D 50/1 ME	9004840622492		BM019150ME
63 A acc. to EN 60947-2	1	12	BMS0 D 63/1 ME	9004840622508		BM019163ME

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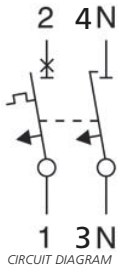
MCB 10 kA, SERIES BMS0, SINGLE POLE WITH SWITCHABLE N-CONDUCTOR, 2 MW

BM018610



CIRCUIT DIAGRAM

SCHRACK-INFO

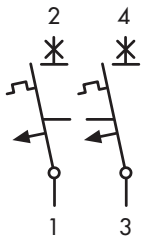
Most common accessories:

- Auxiliary contact 1 NO / 1 NC BM900001
- Busbar 10 mm²/3-pole BS990113
- Busbar 10 mm²/N-conductor BS990115
- Busbar 16 mm²/1N, 2N, 3N BS900123
- Busbar end cap 4-pole BS900117

RATED CURRENT	MW	PU	TYPE	EAN CODE	AVAILABLE	ORDER NO.
CHARACTERISTIC CURVE B / CAL. TEMP 30°C						
2 A	2	6	BMS0 B 2/1N	9004840393071		**BM018602**
4 A	2	6	BMS0 B 4/1N	9004840393088		**BM018604**
6 A	2	6	BMS0 B 6/1N	9004840393095		**BM018606**
10 A	2	6	BMS0 B 10/1N	9004840393101		**BM018610**
13 A	2	6	BMS0 B 13/1N	9004840393118		**BM018613**
16 A	2	6	BMS0 B 16/1N	9004840393125		**BM018616**
20 A	2	6	BMS0 B 20/1N	9004840393132		**BM018620**
25 A	2	6	BMS0 B 25/1N	9004840393149		**BM018625**
32 A	2	6	BMS0 B 32/1N	9004840393156		BM018632
40 A	2	6	BMS0 B 40/1N	9004840393163		BM018640
50 A	2	6	BMS0 B 50/1N	9004840393170		BM018650
63 A	2	6	BMS0 B 63/1N	9004840393187		BM018663
CHARACTERISTIC CURVE C / CAL. TEMP 30°C						
2 A	2	6	BMS0 C 2/1N	9004840392470		**BM017602**
4 A	2	6	BMS0 C 4/1N	9004840392494		**BM017604**
6 A	2	6	BMS0 C 6/1N	9004840392500		**BM017606**
10 A	2	6	BMS0 C 10/1N	9004840392517		**BM017610**
13 A	2	6	BMS0 C 13/1N	9004840392524		**BM017613**
16 A	2	6	BMS0 C 16/1N	9004840392531		**BM017616**
20 A	2	6	BMS0 C 20/1N	9004840392548		**BM017620**
25 A	2	6	BMS0 C 25/1N	9004840392555		**BM017625**
32 A	2	6	BMS0 C 32/1N	9004840392562		**BM017632**
40 A	2	6	BMS0 C 40/1N	9004840392579		BM017640
50 A	2	6	BMS0 C 50/1N	9004840392586		BM017650
63 A	2	6	BMS0 C 63/1N	9004840392593		BM017663
CHARACTERISTIC CURVE C / CAL. TEMP 40°C						
2 A	2	6	BMS0 C 2/1N ME	9004840622843		BM017602ME
6 A	2	6	BMS0 C 6/1N ME	9004840619003		BM017606ME
10 A	2	6	BMS0 C 10/1N ME	9004840619041		BM017610ME
16 A	2	6	BMS0 C 16/1N ME	9004840619058		BM017616ME
20 A	2	6	BMS0 C 20/1N ME	9004840619065		BM017620ME
25 A	2	6	BMS0 C 25/1N ME	9004840619072		BM017625ME
32 A	2	6	BMS0 C 32/1N ME	9004840619089		BM017632ME
40 A	2	6	BMS0 C 40/1N ME	9004840619096		BM017640ME
50 A	2	6	BMS0 C 50/1N ME	9004840619102		BM017650ME
63 A	2	6	BMS0 C 63/1N ME	9004840619119		BM017663ME

MCB 10 kA, SERIES BMS0, DOUBLE POLE, 2 MW

BM018210



CIRCUIT DIAGRAM

SCHRACK-INFO

Most common accessories:

- Auxiliary contact 1 NO / 1 NC BM900001
- Busbar 10 mm²/2-pole BS900111
- Busbar end cap 2-pole BS900118

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RATED CURRENT	MW	PU	TYPE	EAN CODE	AVAILABLE	ORDER NO.
CHARACTERISTIC CURVE B / CAL. TEMP 30°C						
6 A	2	6	BMS0 B 6/2	9004840392852		**BM018206**
10 A	2	6	BMS0 B 10/2	9004840392869		**BM018210**
13 A	2	6	BMS0 B 13/2	9004840392876		**BM018213**
16 A	2	6	BMS0 B 16/2	9004840392883		**BM018216**
20 A	2	6	BMS0 B 20/2	9004840392890		**BM018220**
25 A	2	6	BMS0 B 25/2	9004840392906		**BM018225**
32 A	2	6	BMS0 B 32/2	9004840392913		**BM018232**
40 A	2	6	BMS0 B 40/2	9004840392920		BM018240
50 A	2	6	BMS0 B 50/2	9004840392937		BM018250
63 A	2	6	BMS0 B 63/2	9004840392944		BM018263
CHARACTERISTIC CURVE B / CAL. TEMP 40°C						
2 A	2	6	BMS0 B 2/2 ME	9004840626568		BM018202ME
4 A	2	6	BMS0 B 4/2 ME	9004840626575		BM018204ME
6 A	2	6	BMS0 B 6/2 ME	9004840623789		BM018206ME
10 A	2	6	BMS0 B 10/2 ME	9004840623796		BM018210ME
16 A	2	6	BMS0 B 16/2 ME	9004840623802		BM018216ME
20 A	2	6	BMS0 B 20/2 ME	9004840623819		BM018220ME
25 A	2	6	BMS0 B 25/2 ME	9004840623826		BM018225ME
32 A	2	6	BMS0 B 32/2 ME	9004840623833		BM018232ME
40 A	2	6	BMS0 B 40/2 ME	9004840623840		BM018240ME
50 A	2	6	BMS0 B 50/2 ME	9004840623857		BM018250ME
63 A	2	6	BMS0 B 63/2 ME	9004840623864		BM018263ME
CHARACTERISTIC CURVE C / CAL. TEMP 30°C						
0.5 A	2	6	BMS0 C 0.5/2	9004840391824		BM0172005
1 A	2	6	BMS0 C 1/2	9004840449617		**BM017201**
2 A	2	6	BMS0 C 2/2	9004840391831		**BM017202**
4 A	2	6	BMS0 C 4/2	9004840391848		**BM017204**
6 A	2	6	BMS0 C 6/2	9004840391855		**BM017206**
10 A	2	6	BMS0 C 10/2	9004840391862		**BM017210**
13 A	2	6	BMS0 C 13/2	9004840391879		**BM017213**
16 A	2	6	BMS0 C 16/2	9004840391886		**BM017216**
20 A	2	6	BMS0 C 20/2	9004840391893		**BM017220**
25 A	2	6	BMS0 C 25/2	9004840391909		**BM017225**
32 A	2	6	BMS0 C 32/2	9004840391916		**BM017232**
40 A	2	6	BMS0 C 40/2	9004840391923		**BM017240**
50 A	2	6	BMS0 C 50/2	9004840391930		**BM017250**
63 A	2	6	BMS0 C 63/2	9004840391947		**BM017263**

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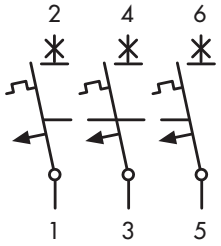
MCB 10 kA, SERIES BMS0, DOUBLE POLE, 2 MW – continued

RATED CURRENT	MW	PU	TYPE	EAN CODE	AVAILABLE	ORDER NO.
CHARACTERISTIC CURVE C / CAL. TEMP 40°C						
2 A	2	6	BMS0 C 2/2 ME	9004840591255		BM017202ME
4 A	2	6	BMS0 C 4/2 ME	9004840591262		BM017204ME
6 A	2	6	BMS0 C 6/2 ME	9004840590111		BM017206ME
10 A	2	6	BMS0 C 10/2 ME	9004840590128		BM017210ME
16 A	2	6	BMS0 C 16/2 ME	9004840590135		BM017216ME
20 A	2	6	BMS0 C 20/2 ME	9004840590142		BM017220ME
25 A	2	6	BMS0 C 25/2 ME	9004840591279		BM017225ME
32 A	2	6	BMS0 C 32/2 ME	9004840527186		BM017232ME
40 A	2	6	BMS0 C 40/2 ME	9004840527193		BM017240ME
50 A	2	6	BMS0 C 50/2 ME	9004840590159		BM017250ME
63 A	2	6	BMS0 C 63/2 ME	9004840590166		BM017263ME
CHARACTERISTIC CURVE D / CAL. TEMP 30°C						
2 A	2	6	BMS0 D 2/2	9004840398250		**BM019202**
4 A	2	6	BMS0 D 4/2	9004840398267		**BM019204**
6 A	2	6	BMS0 D 6/2	9004840398274		**BM019206**
10 A	2	6	BMS0 D 10/2	9004840398281		**BM019210**
13 A	2	6	BMS0 D 13/2	9004840398298		**BM019213**
16 A	2	6	BMS0 D 16/2	9004840398304		**BM019216**
20 A	2	6	BMS0 D 20/2	9004840398311		**BM019220**
25 A	2	6	BMS0 D 25/2	9004840398328		**BM019225**
32 A	2	6	BMS0 D 32/2	9004840398335		**BM019232**
40 A	2	6	BMS0 D 40/2	9004840398342		**BM019240**

MCB 10 kA, SERIES BMS0, TRIPLE POLE, 3 MW

BM018310



CIRCUIT DIAGRAM

SCHRACK-INFO

Most common accessories:

- Auxiliary contact 1 NO / 1 NC BM900001
- Busbar 10 mm²/3-pole BS990113
- Busbar 16 mm²/3-pole BS990114
- Busbar end cap 3-pole BS900116

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RATED CURRENT	MW	PU	TYPE	EAN CODE	AVAILABLE	ORDER NO.
CHARACTERISTIC CURVE B / CAL. TEMP 30°C						
2 A	3	4	BMS0 B 2/3	9004840392951		**BM018302**
4 A	3	4	BMS0 B 4/3	9004840392968		**BM018304**
6 A	3	4	BMS0 B 6/3	9004840392975		**BM018306**
10 A	3	4	BMS0 B 10/3	9004840392982		**BM018310**
13 A	3	4	BMS0 B 13/3	9004840392999		**BM018313**
16 A	3	4	BMS0 B 16/3	9004840393002		**BM018316**
20 A	3	4	BMS0 B 20/3	9004840393019		**BM018320**
25 A	3	4	BMS0 B 25/3	9004840393026		**BM018325**
32 A	3	4	BMS0 B 32/3	9004840393064		**BM018332**
40 A	3	4	BMS0 B 40/3	9004840393033		**BM018340**
50 A	3	4	BMS0 B 50/3	9004840393040		**BM018350**
63 A	3	4	BMS0 B 63/3	9004840393057		**BM018363**
CHARACTERISTIC CURVE B / CAL. TEMP 40°C						
2 A	3	4	BMS0 B 2/3 ME	9004840628166		BM018302ME
4 A	3	4	BMS0 B 4/3 ME	9004840628173		BM018304ME
6 A	3	4	BMS0 B 6/3 ME	9004840591491		BM018306ME
10 A	3	4	BMS0 B 10/3 ME	9004840591507		BM018310ME
16 A	3	4	BMS0 B 16/3 ME	9004840591514		BM018316ME
20 A	3	4	BMS0 B 20/3 ME	9004840591521		BM018320ME
25 A	3	4	BMS0 B 25/3 ME	9004840591538		BM018325ME
32 A	3	4	BMS0 B 32/3 ME	9004840591545		BM018332ME
40 A	3	4	BMS0 B 40/3 ME	9004840591552		BM018340ME
50 A	3	4	BMS0 B 50/3 ME	9004840591569		BM018350ME
63 A	3	4	BMS0 B 63/3 ME	9004840591576		BM018363ME
CHARACTERISTIC CURVE C / CAL. TEMP 30°C						
2 A	3	4	BMS0 C 2/3	9004840391954		**BM017302**
4 A	3	4	BMS0 C 4/3	9004840391961		**BM017304**
6 A	3	4	BMS0 C 6/3	9004840391978		**BM017306**
10 A	3	4	BMS0 C 10/3	9004840391985		**BM017310**
13 A	3	4	BMS0 C 13/3	9004840391992		**BM017313**
16 A	3	4	BMS0 C 16/3	9004840392005		**BM017316**
20 A	3	4	BMS0 C 20/3	9004840392012		**BM017320**
25 A	3	4	BMS0 C 25/3	9004840392029		**BM017325**
32 A	3	4	BMS0 C 32/3	9004840392036		**BM017332**
40 A	3	4	BMS0 C 40/3	9004840392043		**BM017340**
50 A	3	4	BMS0 C 50/3	9004840392050		**BM017350**
63 A	3	4	BMS0 C 63/3	9004840392067		**BM017363**

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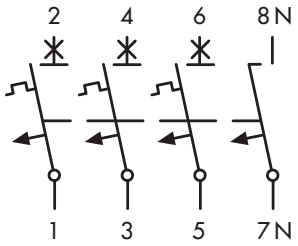
MCB 10 kA, SERIES BMS0, TRIPLE POLE, 3 MW – continued

RATED CURRENT	MW	PU	TYPE	EAN CODE	AVAILABLE	ORDER NO.
CHARACTERISTIC CURVE C / CAL. TEMP 40°C						
2 A	3	4	BMS0 C 2/3 ME	9004840591286		BM017302ME
4 A	3	4	BMS0 C 4/3 ME	9004840591293		BM017304ME
6 A	3	4	BMS0 C 6/3 ME	9004840527209		BM017306ME
10 A	3	4	BMS0 C 10/3 ME	9004840527216		BM017310ME
16 A	3	4	BMS0 C 16/3 ME	9004840527230		BM017316ME
20 A	3	4	BMS0 C 20/3 ME	9004840527247		BM017320ME
25 A	3	4	BMS0 C 25/3 ME	9004840527254		BM017325ME
32 A	3	4	BMS0 C 32/3 ME	9004840527261		BM017332ME
40 A	3	4	BMS0 C 40/3 ME	9004840527278		BM017340ME
50 A	3	4	BMS0 C 50/3 ME	9004840527285		BM017350ME
63 A	3	4	BMS0 C 63/3 ME	9004840527292		BM017363ME
CHARACTERISTIC CURVE D / CAL. TEMP 30°C						
2 A	3	4	BMS0 D 2/3	9004840398359		**BM019302**
4 A	3	4	BMS0 D 4/3	9004840398366		**BM019304**
6 A	3	4	BMS0 D 6/3	9004840398373		**BM019306**
10 A	3	4	BMS0 D 10/3	9004840398380		**BM019310**
13 A	3	4	BMS0 D 13/3	9004840398397		**BM019313**
16 A	3	4	BMS0 D 16/3	9004840398403		**BM019316**
20 A	3	4	BMS0 D 20/3	9004840398410		**BM019320**
25 A	3	4	BMS0 D 25/3	9004840398427		**BM019325**
32 A	3	4	BMS0 D 32/3	9004840398434		**BM019332**
40 A	3	4	BMS0 D 40/3	9004840398441		**BM019340**
50 A acc. to EN 60947-2	3	4	BMS0 D 50/3	9004840562194		**BM019350**
63 A acc. to EN 60947-2	3	4	BMS0 D 63/3	9004840562200		**BM019363**
CHARACTERISTIC CURVE D / CAL. TEMP 40°C						
2 A	3	4	BMS0 D 2/3 ME	9004840622515		BM019302ME
4 A	3	4	BMS0 D 4/3 ME	9004840622522		BM019304ME
6 A	3	4	BMS0 D 6/3 ME	9004840622539		BM019306ME
10 A	3	4	BMS0 D 10/3 ME	9004840622546		BM019310ME
16 A	3	4	BMS0 D 16/3 ME	9004840622553		BM019316ME
20 A	3	4	BMS0 D 20/3 ME	9004840622560		BM019320ME
25 A	3	4	BMS0 D 25/3 ME	9004840622577		BM019325ME
32 A	3	4	BMS0 D 32/3 ME	9004840622584		BM019332ME
40 A	3	4	BMS0 D 40/3 ME	9004840622591		BM019340ME
50 A acc. to EN 60947-2	3	4	BMS0 D 50/3 ME	9004840622607		BM019350ME
63 A acc. to EN 60947-2	3	4	BMS0 D 63/3 ME	9004840622614		BM019363ME

MCB 10 kA, SERIES BMS0, TRIPLE POLE WITH SWITCHABLE N-CONDUCTOR, 4 MW

BM018810



CIRCUIT DIAGRAM

SCHRACK-INFO

Most common accessories:

- Auxiliary contact 1 NO / 1 NC BM900001
- Busbar 10 mm²/3-pole BS990113
- Busbar 16 mm²/3-pole BS990114
- Busbar 10 mm²/N-conductor BS990115
- Busbar 16 mm²/N-conductor BS900127
- Busbar end cap 4-pole BS900117

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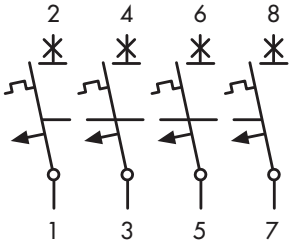
RATED CURRENT	MW	PU	TYPE	EAN CODE	AVAILABLE	ORDER NO.
CHARACTERISTIC CURVE B						
6 A	4	3	BMS0 B 6/3N	9004840393194		**BM018806**
10 A	4	3	BMS0 B 10/3N	9004840393200		**BM018810**
13 A	4	3	BMS0 B 13/3N	9004840393217		**BM018813**
16 A	4	3	BMS0 B 16/3N	9004840393224		**BM018816**
20 A	4	3	BMS0 B 20/3N	9004840393231		**BM018820**
25 A	4	3	BMS0 B 25/3N	9004840393248		**BM018825**
32 A	4	3	BMS0 B 32/3N	9004840393255		**BM018832**
40 A	4	3	BMS0 B 40/3N	9004840393262		**BM018840**
50 A	4	3	BMS0 B 50/3N	9004840393279		**BM018850**
63 A	4	3	BMS0 B 63/3N	9004840393286		**BM018863**
CHARACTERISTIC CURVE C						
1 A	4	3	BMS0 C 1/3N	9004840392609		**BM017801**
2 A	4	3	BMS0 C 2/3N	9004840392616		**BM017802**
4 A	4	3	BMS0 C 4/3N	9004840392623		**BM017804**
6 A	4	3	BMS0 C 6/3N	9004840392630		**BM017806**
10 A	4	3	BMS0 C 10/3N	9004840392647		**BM017810**
13 A	4	3	BMS0 C 13/3N	9004840392654		**BM017813**
16 A	4	3	BMS0 C 16/3N	9004840392661		**BM017816**
20 A	4	3	BMS0 C 20/3N	9004840392678		**BM017820**
25 A	4	3	BMS0 C 25/3N	9004840392685		**BM017825**
32 A	4	3	BMS0 C 32/3N	9004840392692		**BM017832**
40 A	4	3	BMS0 C 40/3N	9004840392708		**BM017840**
50 A	4	3	BMS0 C 50/3N	9004840392715		**BM017850**
63 A	4	3	BMS0 C 63/3N	9004840392722		**BM017863**
CHARACTERISTIC CURVE D						
6 A	4	3	BMS0 D 6/3N	9004840398472		**BM019806**
10 A	4	3	BMS0 D 10/3N	9004840398489		**BM019810**
16 A	4	3	BMS0 D 16/3N	9004840398502		**BM019816**
20 A	4	3	BMS0 D 20/3N	9004840398519		**BM019820**
25 A	4	3	BMSO D 25/3N	9004840398526		**BM019825**
32 A	4	3	BMS0 D 32/3N	9004840398533		**BM019832**
40 A	4	3	BMS0 D 40/3N	9004840398540		**BM019840**
50 A acc. to EN 60947-2	4	3	BMS0 D 50/3N	9004840562217		BM019850
63 A acc. to EN 60947-2	4	3	BMS0 D 63/3N	9004840562224		BM019863

MCB 10 kA, SERIES BMS0, FOUR POLE, 4 MW

BM017410



CIRCUIT DIAGRAM

SCHRACK-INFO

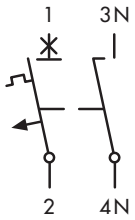
Most common accessories:

- Auxiliary contact 1 NO / 1 NC BM900001
- Busbar 10 mm²/4-pole BS990121
- Busbar 16 mm²/4-pole BS990122
- Busbar end cap 4-pole BS900117

RATED CURRENT	MW	PU	TYPE	EAN CODE	AVAILABLE	ORDER NO.
CHARACTERISTIC CURVE C / CAL. TEMP 30°C						
6 A	4	3	BMS0 C 6/4	9004840392371		**BM017406**
10 A	4	3	BMS0 C 10/4	9004840392388		**BM017410**
13 A	4	3	BMS0 C 13/4	9004840392395		BM017413
16 A	4	3	BMS0 C 16/4	9004840392401		**BM017416**
20 A	4	3	BMS0 C 20/4	9004840392418		**BM017420**
25 A	4	3	BMS0 C 25/4	9004840392425		**BM017425**
32 A	4	3	BMS0 C 32/4	9004840392432		**BM017432**
40 A	4	3	BMS0 C 40/4	9004840392449		**BM017440**
50 A	4	3	BMS0 C 50/4	9004840392456		**BM017450**
63 A	4	3	BMS0 C 63/4	9004840392463		**BM017463**
CHARACTERISTIC CURVE C / CAL. TEMP 40°C						
2 A	4	3	BMS0 C 2/4 ME	9004840622850		BM017402ME
4 A	4	3	BMS0 C 4/4 ME	9004840624717		BM017404ME
6 A	4	3	BMS0 C 6/4 ME	9004840591309		BM017406ME
10 A	4	3	BMS0 C 10/4 ME	9004840591316		BM017410ME
16 A	4	3	BMS0 C 16/4 ME	9004840590173		BM017416ME
20 A	4	3	BMS0 C 20/4 ME	9004840590180		BM017420ME
25 A	4	3	BMS0 C 25/4 ME	9004840591323		BM017425ME
32 A	4	3	BMS0 C 32/4 ME	9004840590197		BM017432ME
40 A	4	3	BMS0 C 40/4 ME	9004840590203		BM017440ME
50 A	4	3	BMS0 C 50/4 ME	9004840590210		BM017450ME
63 A	4	3	BMS0 C 63/4 ME	9004840590227		BM017463ME

MCB 4.5 kA, SERIES SI-E, SINGLE POLE WITH SWITCHABLE N-CONDUCTOR, 1 MW

BS018506



CIRCUIT DIAGRAM

SCHRACK-INFO

Thanks to the slim overall width (1 MW, 17.5 mm), attachments and installations can be implemented requiring minimum space.

Most common accessories:

- Auxiliary contact 1 NO / 1 NC BM900006
- Tongue busbar 4 mm L1, L2, L3 16 mm² BS990152
- Tongue busbar 4 m N, 16 mm² BS990153
- End cap 4-pole BS900117

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REGULATIONS

ÖVE-EN 60 898

TECHNICAL DATA

Single pole with switchable N-conductor, 1 MW, width 17.5 mm

Rated voltage/frequency:	230 V AC, 50/60 Hz
Rated breaking capacity:	4.5 kA acc. to EN/IEC 60 898
Rated breaking capacity DC:	max. 48 V DC
Selectivity class:	3
Back-up fuse max.:	100 A gG
Connection cross-section:	1 – 16 mm²
Tripping characteristic curves:	C
Mounting system:	Special snap-on mounting for DIN rail EN 50 022
Endurance:	≥ 8000 operating cycles
Cap/base dimensions:	45 mm / 80 mm

RATED CURRENT	MW	PU	TYPE	EAN CODE	AVAILABLE	ORDER NO.
CHARACTERISTIC CURVE C						
2 A	1	12	SI-E-2/1N/C	9004840278125		**BS417502**
4 A	1	12	SI-E-4/1N/C	9004840278132		**BS417504**
6 A	1	12	SI-E-6/1N/C	9004840277968		**BS417506**
10 A	1	12	SI-E-10/1N/C	9004840277975		**BS417510**
13 A	1	12	SI-E-13/1N/C	9004840277982		BS417513
16 A	1	12	SI-E-16/1N/C	9004840277999		**BS417516**
20 A	1	12	SI-E-20/1N/C	9004840278002		**BS417520**
25 A	1	12	SI-E-25/1N/C	9004840278019		**BS417525**
32 A	1	12	SI-E-32/1N/C	9004840278026		**BS417532**
40 A	1	12	SI-E-40/1N/C	9004840278033		**BS417540**

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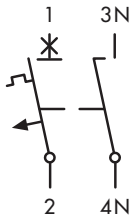
MCB 6 kA, SERIES SI-E, SINGLE POLE WITH SWITCHABLE N-CONDUCTOR, 1 MW

BS018506



CIRCUIT DIAGRAM

SCHRACK-INFO

Thanks to the slim overall width (1 MW, 17.5 mm), attachments and installations can be implemented requiring minimum space.

Most common accessories:

- Auxiliary contact 1 NO / 1 NC BM900006
- Tongue busbar 4 mm L1, L2, L3 16 mm² BS990152
- Tongue busbar 4 m N, 16 mm² BS990153
- End cap 4-pole BS900117

REGULATIONS

ÖVE-EN 60 898

TECHNICAL DATA

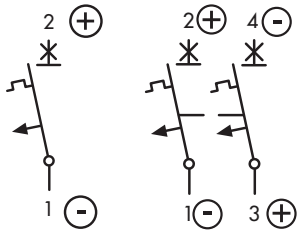
Single pole with switchable N-conductor, 1 MW, width 17.5 mm

Rated voltage/frequency:	230 V AC, 50/60 Hz
Rated breaking capacity:	6 kA acc. to EN/IEC 60 898
Rated breaking capacity DC:	max. 48 V DC
Selectivity class:	3
Back-up fuse max.:	100 A gG
Connection cross-section:	1 – 16 mm²
Tripping characteristic curves:	B, C
Mounting system:	Special snap-on mounting for DIN rail EN 50 022
Endurance:	≥ 8000 operating cycles
Cap/base dimensions:	45 mm / 80 mm

RATED CURRENT	MW	PU	TYPE	EAN CODE	AVAILABLE	ORDER NO.
CHARACTERISTIC CURVE B						
6 A	1	12	SI-E-6/1N/B	9004840210187		**BS018506**
10 A	1	12	SI-E-10/1N/B	9004840210194		**BS018510**
13 A	1	12	SI-E-13/1N/B	9004840210200		**BS018513**
16 A	1	12	SI-E-20/1N/B	9004840210224		BS018520
25 A	1	12	SI-E-25/1N/B	9004840210231		BS018525
CHARACTERISTIC CURVE C						
2 A	1	12	SI-E-2/1N/C	9004840210279		**BS017502**
4 A	1	12	SI-E-4/1N/C	9004840210286		**BS017504**
6 A	1	12	SI-E-6/1N/C	9004840210262		**BS017506**
10 A	1	12	SI-E-10/1N/C	9004840210293		**BS017510**
13 A	1	12	SI-E-13/1N/C	9004840210309		**BS017513**
16 A	1	12	SI-E-16/1N/C	9004840210316		**BS017516**
20 A	1	12	SI-E-20/1N/C	9004840210323		**BS017520**
25 A	1	12	SI-E-25/1N/C	9004840210330		**BS017525**
32 A	1	12	SI-E-32/1N/C	9004840210347		BS017532

MCB SERIES BMS0-DC

BM015110/BM015225



CIRCUIT DIAGRAMS

SCHRACK-INFO

For use in DC power systems.

NOTE

Observe polarity when connecting!

ACCESSORIES

Auxiliary contact
Signal contact
Remote release
Busbar
Automatic remote switching unit (FSA)

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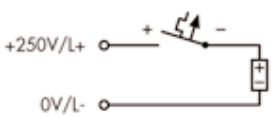
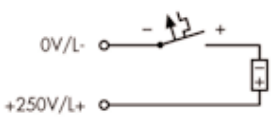
TECHNICAL DATA

Type:		According to IEC/EN 60 947-2
Characteristic:		According to ÖVE-EN 60 898 (C)
Poles:		1- or 2-pole
Rated voltage:		250 V DC (1-pole), 500 V DC (2-pole)
Rated insulation voltage:	500 V DC	
Surge voltage protection U_{imp}:		6000 V
Tripping characteristics:	Non-tripping current:	I_{nt} = 1.13 I_n
	Tripping current:	I_t = 1.45 I_n
Calibration temperature:		30 °C
Temperature factor:		0.5 % / K
Tripping current, non-delayed:		Characteristic B & C, according to EN 60898
Rated breaking capacity:		I_{cs} 7.5 kA, I_{cn} 10 kA
Back-up fuse:		100 A gG max.
Selectivity class:		According to Class 3
Mechanical endurance:		> 20.000 operating cycles
Electrical endurance:		> 8.000 operating cycles
Climatic conditions:		According to IEC 68-2 (25 ... 55 ... 95 °C/90% RH)
Dimensions (WxHxD):	1-pole:	17.7 x 80 x 60 mm
	2-pole:	35.4 x 80 x 60 mm
Cap dimension:		45 mm
Weight:	1-pole:	0.12 kg
	2-pole:	0.24 kg
Terminals:		Double lift terminal
Terminal cross-section:		1 - 25 mm²
Terminal screw:		Pozidriv PZ2
Terminal screw torque:		Max. 2.4 Nm
Terminal protection:		Finger and hand touch safe, ÖVE-EN 6, BGV A3
Degree of protection:		IP20 (IP40 installed)
Mounting:		Tristable latch slide for DIN rail according to EN 50022
Contact position indicator:		Red / green

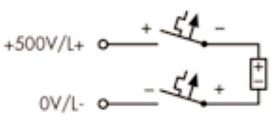
WIRING DIAGRAMS

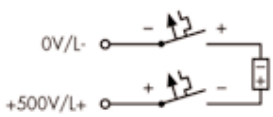
Connection example for 250V DC, 1-pole





Connection example for 500V DC, 2-pole





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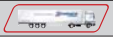
MCB, SERIES BMS0-DC, SINGLE POLE, 1 MW

RATED CURRENT	MW	PU	TYPE	EAN CODE	AVAILABLE	ORDER NO.
CHARACTERISTIC CURVE B / CAL. TEMP 40°C						
2 A	1	12	BMS0 B 2/1 DC ME	9004840592597		BM014102ME
4 A	1	12	BMS0 B 4/1 DC ME	9004840628371		BM014104ME
6 A	1	12	BMS0 B 6/1 DC ME	9004840628388		BM014106ME
10 A	1	12	BMS0 B 10/1 DC ME	9004840628395		BM014110ME
16 A	1	12	BMS0 B 16/1 DC ME	9004840628401		BM014116ME
20 A	1	12	BMS0 B 20/1 DC ME	9004840628418		BM014120ME
25 A	1	12	BMS0 B 25/1 DC ME	9004840628425		BM014125ME
32 A	1	12	BMS0 B 32/1 DC ME	9004840628432		BM014132ME
40 A	1	12	BMS0 B 40/1 DC ME	9004840628449		BM014140ME
50 A	1	12	BMS0 B 50/1 DC ME	9004840628456		BM014150ME
CHARACTERISTIC CURVE C / CAL. TEMP 30°C						
2 A	1	12	BMS0 C 2/1 DC	9004840398557		**BM015102**
4 A	1	12	BMS0 C 4/1 DC	9004840533361		**BM015104**
6 A	1	12	BMS0 C 6/1 DC	9004840398564		**BM015106**
10 A	1	12	BMS0 C 10/1 DC	9004840398571		**BM015110**
13 A	1	12	BMS0 C 13/1 DC	9004840398588		**BM015113**
16 A	1	12	BMS0 C 16/1 DC	9004840398595		**BM015116**
20 A	1	12	BMS0 C 20/1 DC	9004840398601		**BM015120**
25 A	1	12	BMS0 C 25/1 DC	9004840398618		**BM015125**
32 A	1	12	BMS0 C 32/1 DC	9004840398625		**BM015132**
40 A	1	12	BMS0 C 40/1 DC	9004840398632		**BM015140**
50 A	1	12	BMS0 C 50/1 DC	9004840398649		**BM015150**
CHARACTERISTIC CURVE C / CAL. TEMP 40°C						
2 A	1	12	BMS0 C 2/1 DC ME	9004840622201		BM015102ME
4 A	1	12	BMS0 C 4/1 DC ME	9004840622218		BM015104ME
6 A	1	12	BMS0 C 6/1 DC ME	9004840622225		**BM015106ME**
10 A	1	12	BMS0 C 10/1 DC ME	9004840622232		BM015110ME
16 A	1	12	BMS0 C 16/1 DC ME	9004840622249		BM015116ME
20 A	1	12	BMS0 C 20/1 DC ME	9004840622256		BM015120ME
25 A	1	12	BMS0 C 25/1 DC ME	9004840622263		BM015125ME
32 A	1	12	BMS0 C 32/1 DC ME	9004840622270		BM015132ME
40 A	1	12	BMS0 C 40/1 DC ME	9004840622287		BM015140ME
50 A	1	12	BMS0 C 50/1 DC ME	9004840622294		BM015150ME

MCB, SERIES BMS0-DC, DOUBLE POLE, 2 MW

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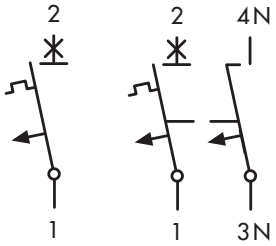
RATED CURRENT	MW	PU	TYPE	EAN CODE	AVAILABLE	ORDER NO.
CHARACTERISTIC CURVE B / CAL. TEMP 40°C						
2 A	2	6	BMS0 B 2/2 DC ME	9004840628463		BM014202ME
4 A	2	6	BMS0 B 4/2 DC ME	9004840628470		BM014204ME
6 A	2	6	BMS0 B 6/2 DC ME	9004840628487		BM014206ME
10 A	2	6	BMS0 B 10/2 DC ME	9004840628494		BM014210ME
16 A	2	6	BMS0 B 16/2 DC ME	9004840628500		BM014216ME
20 A	2	6	BMS0 B 20/2 DC ME	9004840628517		BM014220ME
25 A	2	6	BMS0 B 25/2 DC ME	9004840628524		BM014225ME
32 A	2	6	BMS0 B 32/2 DC ME	9004840628531		BM014232ME
40 A	2	6	BMS0 B 40/2 DC ME	9004840628548		BM014240ME
50 A	2	6	BMS0 B 50/2 DC ME	9004840628555		BM014250ME
CHARACTERISTIC CURVE C / CAL. TEMP 30°C						
2 A	2	6	BMS0 C 2/2 DC	9004840398656		**BM015202**
4 A	2	6	BMS0 C 4/2 DC	9004840533378		**BM015204**
6 A	2	6	BMS0 C 6/2 DC	9004840398663		**BM015206**
10 A	2	6	BMS0 C 10/2 DC	9004840398670		**BM015210**
13 A	2	6	BMS0 C 13/2 DC	9004840398687		**BM015213**
16 A	2	6	BMS0 C 16/2 DC	9004840398694		**BM015216**
20 A	2	6	BMS0 C 20/2 DC	9004840398700		**BM015220**
25 A	2	6	BMS0 C 25/2 DC	9004840398717		**BM015225**
32 A	2	6	BMS0 C 32/2 DC	9004840398724		**BM015232**
40 A	2	6	BMS0 C 40/2 DC	9004840398731		**BM015240**
50 A	2	6	BMS0 C 50/2 DC	9004840398748		**BM015250**
CHARACTERISTIC CURVE C / CAL. TEMP 40°C						
2 A	2	6	BMS0 C 2/2 DC ME	9004840622300		BM015202ME
4 A	2	6	BMS0 C 4/2 DC ME	9004840622317		BM015204ME
6 A	2	6	BMS0 C 6/2 DC ME	9004840622324		**BM015206ME**
10 A	2	6	BMS0 C 10/2 DC ME	9004840622331		BM015210ME
16 A	2	6	BMS0 C 16/2 DC ME	9004840622348		**BM015216ME**
20 A	2	6	BMS0 C 20/2 DC ME	9004840622355		BM015220ME
25 A	2	6	BMS0 C 25/2 DC ME	9004840622362		**BM015225ME**
32 A	2	6	BMS0 C 32/2 DC ME	9004840622379		BM015232ME
40 A	2	6	BMS0 C 40/2 DC ME	9004840622386		BM015240ME
50 A	2	6	BMS0 C 50/2 DC ME	9004840622393		BM015250ME

MCB 10 kA, SERIES BMS0-H, FOR AC CONTROL CIRCUITS

BM918104



CIRCUIT DIAGRAMS

SCHRACK-INFO

- Special design with extremely low let-through energy
- For the protection of control circuits
- For short-circuit and overload in control systems, safety circuits, emergency stop circuits (protection against contact welding), etc.
- Triggering response approximately equivalent to a 4 A gG fuse.

TECHNICAL DATA

see BMS0

TIPS & TRICKS

Auxiliary switches of switchgear system such as contactors, relays, etc. must be protected against overload and short-circuit in accordance with manufacturer's instructions. IEC 947-5 specifies a maximum back-up fuse for a conditional surge current of 1000 A. The SI-H meets this requirement. "Tapping" the control voltage from the next MCB is therefore not correct – there is a risk of contact welding.

ACCESSORIES

Remote release
Undervoltage release
Auxiliary contact
Automatic remote switching unit (FSA)
Busbar

RATED CURRENT/NUMBER OF POLES	MW	PU	TYPE	EAN CODE	AVAILABLE	ORDER NO.
CHARACTERISTIC CURVE B						
4 A/1-pole	1	1	BMS0-H B 4/1	9004840398755		**BM918104**
4 A/1-pole + switchable N-conductor	2	1	BMS0-H B 4/1N	9004840398762		BM918604

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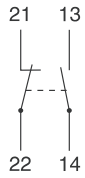
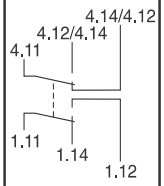
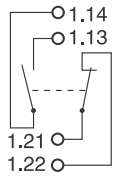
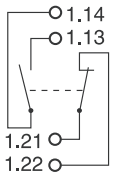
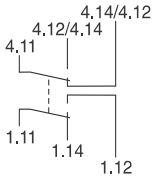
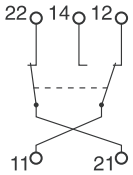
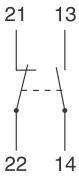
AUXILIARY CONTACT MATRIX

AUXILIARY SWITCHES

	BD-H BD 900002	BD-HR BD 900022	H11 BD 900006	B-HSI BM 900001 Snap-on mountable	B-HR BM 900022 Snap-on mountable	DHi 2 BD 900030	BR-H BR 900005
Circuit diagram							
Contacts	1NO+1NC	2W	1NO+1NC	1NO+1NC	2W	1NC+1CO	1NO+1NC
BC	L	R				L	
BMS.		L	L	L	L		
SI-E		L	L				
SI-BR							R
BOLF		L	L	L	L		
MP		L	L	L	L		
A-BS		L	L				
BMA		L	L	L	L		
B-FA			L				
B-HSI				L (1x)			

L mountable on left R mountable on right

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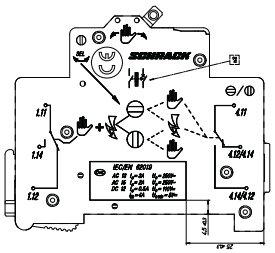
SIGNAL/TRIP-INDICATING AUXILIARY CONTACT BD-HR, B-HR WITH TRIP INDICATION

BM900022



FUNCTION

SCHRACK-INFO

- 1 CO settable from manual switch-off function to electrically-tripped switch-off function
- Retrofittable, mountable on the right for RCCB series BCF0 on the left for MCB series BS, BMS, MP, RCBO series BOLF
- Manual operation (T-handle) for functional simulation
- Test button for electrical tripping
- Indication white/blue for electrical tripping

TECHNICAL DATA

Thermal rated current I_{th}:	4 A
Rated insulation voltage U_i:	250 V AC
Rated operating voltage U_e:	250 V AC
Minimum operating voltage for each contact U_{min}:	5 V AC/DC
Minimum operating current I_{min}:	10 mA AC/DC
Complies with:	IEC/EN 62019
Utilisation category AC 13:	3 A, 250 V AC
Utilisation category AC 15:	2 A, 250 V AC
Utilisation category DC 12:	110 V/0.5 A; 220 V/0.25 A
Maximum back-up fuse:	4 A gG or SI-H, BMS0-H 4A
2 CO (manual off or trip function) or	
1 CO (manual off or trip function) + 1 CO (trip function only)	
Terminal cross-section:	0.5–2.5 mm²

"ELECTRICAL TRIP" FUNCTIONAL TEST

The contact function of the changeover switch 95-96/98 can be checked by pressing the test button "T". In this case, the colour of the trip indication changes from white to blue, just like after a "real" electrical trip. A manual off operation does not modify the trip indication in the "SEL position is perpendicular to DIN rail".

DESCRIPTION	MW	PU	TYPE	EAN CODE	AVAILABLE	ORDER NO.
2 CO, toggable, snap-on mounting	0.5	10	BM-HR	9004840408218		**BM900022**
2 CO, toggable, screw mounting	0.5	10	BD-HR	9004840201888		**BD900022**

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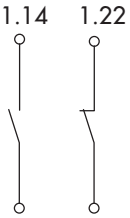
AUXILIARY CONTACT H11 FOR SERIES MP, A, FA, BMS, B0LF, BMA, B-FA

BM900006



CIRCUIT DIAGRAM

SCHRACK-INFO

- B-HSI BM900001
  2 auxiliary contacts, snap-on mounting in parallel

TECHNICAL DATA

	H11	B-HSI
Rated insulation voltage U_i:	250 V AC	250 V AC
Minimum voltage for each switching section U_{min}:	5 V AC/DC	5 V DC
Minimum operating current I_{min}:	10 mA AC/DC	10 mA DC
Thermal rated current I_B:	4 A	4 A
Conditional surge current I_K:	1000 A with BMS0-H	
Utilisation category AC 15:	2 A / 250 V AC	2 A / 250 V AC
Utilisation category AC 13:	3 A / 250 V AC	3 A / 250 V AC
Utilisation category DC 12:	110 V/0.5 A ; 250 V/0.1 A	110 V/0.5 A
Maximum permitted back-up fuse for short-circuit protection:	6A gG or BMS0-H	6A gG or BMS0-H
Contact function:	1 NO + 1 NC	1 NO + 1 NC
Complies with:	IEC/EN 62019	IEC/EN 62019
Retrofittable:	left screw mountable	left snap-on mountable
Terminal cross-section:	0.5–2.5 mm²	

DESCRIPTION	MW	PU	TYPE	EAN CODE	AVAILABLE	ORDER NO.
1 NO + 1 NC snap-on	0.5	10	B-HSI	9004840408225		**BM900001**
1 NO + 1 NC screw	0.5	4	H11	9004840222586		**BD900006**

AUXILIARY CONTACT H

BM900099ME

CIRCUIT DIAGRAM

TECHNICAL DATA

	H
Rated insulation voltage U_i:	250 V AC
Minimum voltage for each switching section U_{min}:	5 V AC/DC
Minimum operating current I_{min}:	10 mA AC/DC, 10 mA DC
Conditional surge current I_K:	1000 A with BMS0-H
Utilisation category AC 15:	2 A / 250 V AC
Utilisation category AC 13:	3 A / 250 V AC
Utilisation category DC 12:	110 V/0.5 A
Maximum permitted back-up fuse for short-circuit protection:	6A gG or BMS0-H
Contact function:	1 CO
Complies with:	IEC/EN 62019
Retrofittable:	left snap-on mountable
Terminal cross-section:	0.5–2.5 mm²

DESCRIPTION	EAN CODE	AVAILABLE	ORDER NO.
1 CO snap on	9004840615777		**BM900099ME**

Order no. blue: on stock, usually ready for delivery on the day of order!

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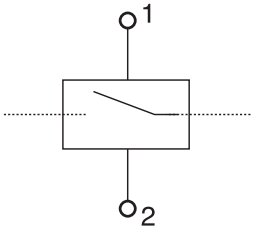
SHUNT RELEASE FA, B-FA, 1 MW FOR BMS, B0LF AND BE4 (MP)

BS900006



CIRCUIT DIAGRAM

SCHRACK-INFO

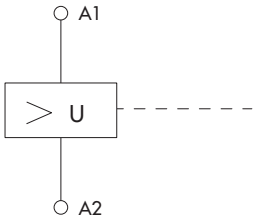
- Remote release for subsequent installation on MCB, RCBO, A, MP
- Module width 1 MW
- Additional installation of standard auxiliary switch possible
- Position indicator red/green
- Type B-FA snap-on mounting possible

TECHNICAL DATA		B-FA	B-FA
Electrical			
Mountable on	MCB, RCBO:	BMS0, BMS6, BMS4, BOLF	BMS0, BMS6, BMS4, BOLF
	Accessories:	BMA	BMA
Operating voltage range		12-60V AC 12-60V DC	110-415V AC 110-220V DC
Frequency		50/60 Hz	50/60 Hz
Possible standard auxiliary switch		B-HR	B-HR
Mechanical			
Cap installation dimension		45 mm	45 mm
Device base dimension		80 mm	80 mm
Installation width		17.5 mm (1TE)	17.5 mm (1TE)
		Quick fastening on DIN rail EN 50022	
Degree of protection (built-in)		IP40	IP40
Terminal protection		Contact protection according to BGV A3, Ö VE-EN 6	
Terminals		Clamp/lift terminals + protection against mismating	Clamp/lift terminals + protection against mismating
Terminal cross-section		1-25 mm²	1-25 mm²

RATED VOLTAGE RANGE	MW	PU	TYPE	EAN CODE	AVAILABLE	ORDER NO.
12 - 60 V AC snap-on	1	7	B-FA-24	9004840408249		BM900005
110 - 220 V AC snap-on	1	7	B-FA-230	9004840408232		BM900006

UNDERVOLTAGE RELEASE BS-UA, NON-DELAYED

BS900008



CIRCUIT DIAGRAM

SCHRACK-INFO

- Remote release for subsequent installation on MCB, BMS0, BMS6, BMS4, BMA, A, MP
- Module width 1 MW, left screw mounting
- Indication blue tripped, white voltage present

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TECHNICAL DATA

- Conductor cross-section 1 - 2x2.5 mm²
- Clamp/lift terminals
- Quick fastening for DIN rail EN 50022
- Service button for no-voltage switching for test purposes
- Activation from typically 80% of rated voltage
- Tripping typically below 50% of rated voltage
- Other voltages and delayed tripping on request

DESCRIPTION	MW	PU	TYPE	EAN CODE	AVAILABLE	ORDER NO.
230 V AC, non-delayed	1	7	BS-UA 230-U	9004840266542		**BS900008**
400 V AC, non-delayed	1	7	BS-UA 400-U	9004840266559		**BS900009**

NEUTRAL CONDUCTOR DUCT, 1 MW

BS900004

BS900024

BS900010

SCHRACK-INFO

- Rated current: 63 A, 80 A
- Terminal capacity: 1-25 mm² (80 A bottom 2.5-50 mm²)
- Rated voltage: 230/400 VAC
- 1 MW wide

DESCRIPTION	MW	PU	TYPE	EAN CODE	AVAILABLE	ORDER NO.
N-duct 63 A	1	12	ND-8S	9004840266603		**BS900004**
N-duct 80 A	1	12	ND 80	9004840154160		**BS900024**
N-duct with test terminal	1	12	NDP-8S	9004840266610		**BS900010**

BLIND MODULE, 0.5 MW

BS900026

FOR USE ON BUSBAR

SCHRACK-INFO

- Space holder to confirm a auxiliary contact to 1 MW

DESCRIPTION	MW	PU	TYPE	EAN CODE	AVAILABLE	ORDER NO.
Cap dimension 45 mm, width 9 mm, snap-on	0.5	1	BLIND MODULE	9004840013245		**BS900026**

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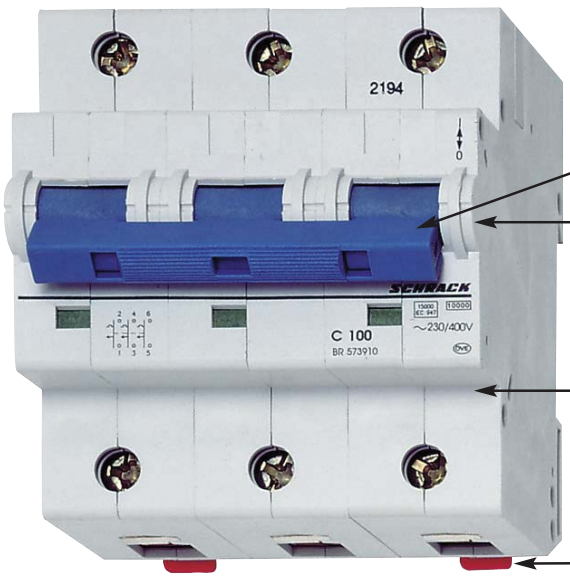
HIGH CURRENT MCB



RUGGED T-HANDLE

SEALABLE

MODULE WIDTH 27 mm

STURDY LATCH SLIDE

HIGH CURRENT MCB 10 kA, SERIES BR – GENERAL INFORMATION


BR561200


BR572910


BR573910


BR578910

SCHRACK-INFO

- In commercial and industrial facilities with high continuous currents
- Mounting system: Special snap-on mounting for DIN rail EN 50 022
- Positively guided position indicator
- Rated currents: 80, 100, 125 A

ACCESSORIES

Remote release
Auxiliary contact
Busbar

TECHNICAL DATA

Type:	According to IEC/EN 60947-2
Characteristic:	C, according to En 60898
Rated voltage/frequency:	230/400 V AC, 50/60 Hz
Tripping temperature:	-5°C to +40°C
Max. back-up fuse:	200 A gG (> 20 kA)
Selectivity class:	According to Class 3
Rated breaking capacity:	According to IEC/EN 60947-2
Characteristic C In = 80-125 A	10 kA
Rated breaking capacity DC:	Max. 60 V per pole with release
Rated insulation voltage:	440 V
Surge voltage protection U_{imp}:	4000 V
Connection cross-section:	2.5 – 50 mm²
Switching contact:	Double break, snap-action behaviour
Endurance:	≥ 20,000 operating cycles
Contact position indicator:	For each pole (red/green)
Isolating characteristics:	4 mm contact gap
Cap installation dimension:	45 mm
Device base dimension:	90 mm
Installation width:	27 mm (1.5 MW) for each pole
Mounting:	Quick mounting with 2 latching positions for DIN rail EN50022
Degree of protection (built in):	IP20 (IP40)
Terminals:	Top and bottom lift terminals
Terminal protection:	Finger and hand touch safe, BGV A3, ÖVE-EN 6
Terminal cross-section:	2.5 – 50 mm²

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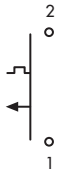
HIGH CURRENT MCB 10 kA, SERIES BR, SINGLE POLE, CHARACTERISTIC C

BR561200

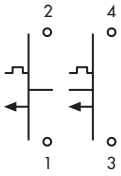


SINGLE POLE

RATED CURRENT	DIM. (BXHXT) mm	PU	TYPE	EAN CODE	AVAILABLE	ORDER NO.
CHARACTERISTIC CURVE C / CAL. TEMP 30°C						
80 A	27x90x80,5	12	C 80/1	9004840507096		BR971800
100 A	27x90x80,5	12	C 100/1	9004840507089		BR971910
125 A	27x90x80,5	12	C 125/1	9004840545333		BR971912

HIGH CURRENT MCB 10 kA, SERIES BR, DOUBLE POLE, CHARACTERISTIC C

BR572910



DOUBLE POLE

RATED CURRENT	DIM. (BXHXT) mm	PU	TYPE	EAN CODE	AVAILABLE	ORDER NO.
CHARACTERISTIC CURVE C / CAL. TEMP 30°C						
80 A	54x90x80,5	6	C 80/2	9004840545340		BR972800
100 A	54x90x80,5	6	C 100/2	9004840545357		BR972910
125 A	54x90x80,5	6	C 125/2	9004840587623		BR972912

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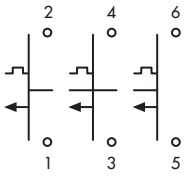
HIGH CURRENT MCB 10 kA, SERIES BR, TRIPPLE POLE, CHARACTERISTIC C

BR573910

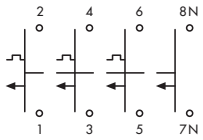


TRIPLE POLE

RATED CURRENT	DIM. (BXHXT) mm	PU	TYPE	EAN CODE	AVAILABLE	ORDER NO.
CHARACTERISTIC CURVE C / CAL. TEMP 30°C						
80 A	81x90x80,5	4	C 80/3	9004840507065		**BR973800**
100 A	81x90x80,5	4	C 100/3	9004840507072		**BR973910**
125 A	81x90x80,5	4	C 125/3	9004840545395		**BR973912**

HIGH CURRENT MCB 10 kA, SERIES BR, FOUR POLE, CHARACTERISTIC C

BR578910



TRIPLE POLE + NEUTRAL

RATED CURRENT	DIM. (BXHXT) mm	PU	TYPE	EAN CODE	AVAILABLE	ORDER NO.
CHARACTERISTIC CURVE C / CAL. TEMP 30°C						
80 A	108x90x80,5	3	C 80/3N	9004840545371		**BR974800**
100 A	108x90x80,5	3	C 100/3N	9004840545388		**BR974910**
125 A	108x90x80,5	3	C 125/3N	9004840545401		**BR974912**

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HIGH CURRENT MCB 15-25 kA, SERIES BR – GENERAL INFORMATION


BR561200


BR572910


BR573910


BR578910

SCHRACK-INFO

- In commercial and industrial facilities with high continuous currents
- Mounting system: Special snap-on mounting for DIN rail EN 50 022
- Positively guided position indicator
- Rated currents up to 125 A
- Rated breaking capacity up to 25 kA according to EN 60947-2

ACCESSORIES

Remote release
Auxiliary contact
Busbar

TECHNICAL DATA

Type:		According to IEC/EN 60947-2
Characteristic:		C, D, according to En 60898
Rated voltage/frequency:		230/400 V AC, 50/60 Hz
Tripping temperature:		-5°C to +40°C
Max. back-up fuse:		200 A gG (> 20 kA)
Selectivity class:		According to Class 3
Rated breaking capacity:		According to IEC/EN 60947-2
Characteristic C	In = 20-63 A	25 kA
	In = 80-100 A	20 kA
	In = 125 A	15 kA
Characteristic D	In = 63 A	25 kA
	In = 80 A	20 kA
	In = 100 A	15 kA
Rated breaking capacity DC:		Max. 60 V per pole with release
Rated insulation voltage:		440 V
Surge voltage protection U_{imp}:		4000 V
Connection cross-section:		2.5 – 50 mm²
Switching contact:		Double break, snap-action behaviour
Endurance:		≥ 20,000 operating cycles
Contact position indicator:		For each pole (red/green)
Isolating characteristics:		4 mm contact gap
Cap installation dimension:		45 mm
Device base dimension:		90 mm
Installation width:		27 mm (1.5 MW) for each pole
Mounting:		Quick mounting with 2 latching positions for DIN rail EN50022
Degree of protection (built in):		IP20 (IP40)
Terminals:		Top and bottom lift terminals
Terminal protection:		Finger and hand touch safe, BGV A3, ÖVE-EN 6
Terminal cross-section:		2.5 – 50 mm²

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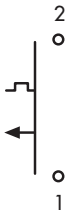
HIGH CURRENT MCB, SERIES BR, SINGLE POLE

BR571910

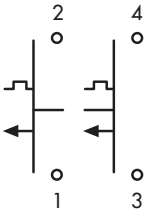


CIRCUIT DIAGRAM

RATED CURRENT	DIM. (BXHXT) mm	PU	TYPE	EAN CODE	AVAILABLE	ORDER NO.
CHARACTERISTIC C						
20 A	27x90x77.9	12	BR-C 20/1	9004840266665		BR571200
25 A	27x90x77.9	12	BR-C 25/1	9004840266672		**BR571250**
40 A	27x90x77.9	12	BR-C 40/1	9004840266696		BR571400
50 A	27x90x77.9	12	BR-C 50/1	9004840266702		**BR571500**
63 A	27x90x77.9	12	BR-C 63/1	9004840266719		**BR571630**
80 A	27x90x77.9	12	BR-C 80/1	9004840266726		**BR571800**
100 A	27x90x77.9	12	BR-C 100/1	9004840266733		**BR571910**
125 A	27x90x77.9	12	BR-C 125/1	9004840266740		**BR571912**
CHARACTERISTIC D						
63 A	27x90x77.9	12	BR-D 63/1	9004840266634		BR591630
80 A	27x90x77.9	12	BR-D 80/1	9004840266641		**BR591800**
100 A	27x90x77.9	12	BR-D 100/1	9004840266658		BR591910

HIGH CURRENT MCB, SERIES BR, DOUBLE POLE

BR572910



CIRCUIT DIAGRAM

RATED CURRENT	DIM. (BxHxT) mm	PU	TYPE	EAN CODE	AVAILABLE	ORDER NO.
CHARACTERISTIC C						
25 A	54x90x80.5	6	BR-C 25/2	9004840266801		BR572250
32 A	54x90x80.5	6	BR-C 32/2	9004840266818		BR572320
40 A	54x90x80.5	6	BR-C 40/2	9004840266825		BR572400
50 A	54x90x80.5	6	BR-C 50/2	9004840266832		BR572500
63 A	54x90x80.5	6	BR-C 63/2	9004840266849		BR572630
125 A	54x90x80.5	6	BR-C 125/2	9004840266870		**BR572912**

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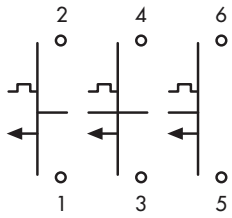
HIGH CURRENT MCB, SERIES BR, TRIPLE POLE

BR573910



CIRCUIT DIAGRAM

RATED CURRENT	DIM. (BxHxT) mm	PU	TYPE	EAN CODE	AVAILABLE	ORDER NO.
CHARACTERISTIC C						
20 A	81x90x80.5	4	BR-C 20/3	9004840266924		**BR573200**
25 A	81x90x80.5	4	BR-C 25/3	9004840266931		**BR573250**
32 A	81x90x80.5	4	BR-C 32/3	9004840266948		**BR573320**
40 A	81x90x80.5	4	BR-C 40/3	9004840266955		**BR573400**
50 A	81x90x80.5	4	BR-C 50/3	9004840266962		**BR573500**
63 A	81x90x80.5	4	BR-C 63/3	9004840266979		**BR573630**
80 A	81x90x80.5	4	BR-C 80/3	9004840266986		**BR573800**
100 A	81x90x80.5	4	BR-C 100/3	9004840266993		**BR573910**
125 A	81x90x80.5	4	BR-C 125/3	9004840267006		**BR573912**
CHARACTERISTIC CURVE D						
50 A	81x90x80.5	4	BR-D 50/3	9004840266887		**BR593500**
63 A	81x90x80.5	4	BR-D 63/3	9004840266894		**BR593630**
80 A	81x90x80.5	4	BR-D 80/3	9004840266900		**BR593800**
100 A	81x90x80.5	4	BR-D 100/3	9004840266917		**BR593910**

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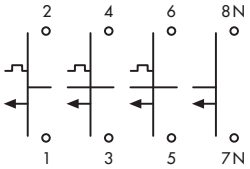
HIGH CURRENT MCB, SERIES BR, TRIPLE POLE + SWITCHABLE N-CONDUCTOR

BR578910

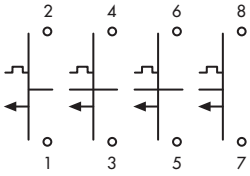


CIRCUIT DIAGRAM

RATED CURRENT	DIM. (BxHxT) mm	PU	TYPE	EAN CODE	AVAILABLE	ORDER NO.
CHARACTERISTIC CURVE C						
20 A	108x90x80.5	3	BR-C 20/3N	9004840264289		BR578200
25 A	108x90x80.5	3	BR-C 25/3N	9004840267044		BR578250
32 A	108x90x80.5	3	BR-C 32/3N	9004840267051		BR578320
40 A	108x90x80.5	3	BR-C 40/3N	9004840267068		BR578400
50 A	108x90x80.5	3	BR-C 50/3N	9004840267075		BR578500
63 A	108x90x80.5	3	BR-C 63/3N	9004840267082		**BR578630**
80 A	108x90x80.5	3	BR-C 80/3N	9004840267099		**BR578800**
100 A	108x90x80.5	3	BR-C 100/3N	9004840267105		**BR578910**
125 A	108x90x80.5	3	BR-C 125/3N	9004840267112		BR578912
CHARACTERISTIC CURVE D						
63 A	108x90x80.5	3	BR-D 63/3N	9004840267013		**BR598630**
80 A	108x90x80.5	3	BR-D 80/3N	9004840267020		**BR598800**
100 A	108x90x80.5	3	BR-D 100/3N	9004840267037		BR598910

HIGH CURRENT MCB, SERIES BR, FOUR POLE

BR578910



CIRCUIT DIAGRAM

SCHRACK-INFO

- All four poles equipped with thermal and magnetic release

RATED CURRENT	DIM. (BxHxT) mm	PU	TYPE	EAN CODE	AVAILABLE	ORDER NO.
CHARACTERISTIC C						
80 A	108x90x80.5	3	BR-C 80/4	9004840267181		**BR574800**

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REMOTE RELEASE FOR SERIES BR

BR900003

SCHRACK-INFO

For MCB series BR

Make sure there is sufficient capacity of the power supply (at least 90 VA).

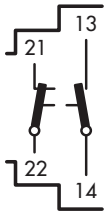
TECHNICAL DATA

- Remote release (shunt release)
- Width 27 mm
- Switch position indicator red/green
- Additional installation of a signal contact possible

NOMINAL VOLTAGE/ NOMINAL CURRENT	DIM. (BxHxT) mm	PU	TYPE	EAN CODE	AVAILABLE	ORDER NO.
110-415 VAC; 110-230V DC, max. 3.6 A	39.1x90x80.5	6	BR-FA 230	9004840267242		BR900003
12-60 V AC/DC, max. 44 A	39.1x90x80.5	6	BR-FA 24	9004840267259		BR900004

AUXILIARY CONTACT FOR SERIES BR 0.5 MW

BR900005



CIRCUIT DIAGRAM

SCHRACK-INFO

For high-current miniature circuit breakers, series BR

Auxiliary contact for control purposes

TECHNICAL DATA

- 1 NC + 1 NO
- Width 0.5 MW (9 mm)
- I therm.= 8 A
- AC 13: 6 A, 250 V, 2 A/400 V
- DC 13: 4 A/ 60 V, 2 A/110 V, 0.5 A /230 V
- Maximum permissible back-up fuse against short circuit and overload: 4 A gG or BMS0-H
- Minimum operating voltage for each path: 24 V
- Minimum operating current for each path: 0.5 A
- According to EN 60947-5-1

DESCRIPTION	DIM. (BxHxT) mm	PU	TYPE	EAN CODE	AVAILABLE	ORDER NO.
1 NC +1 NO	9x90x65.5	8	BR-H	9004840267266		BR900005

PROTECTIVE CAP IP 20 FOR SERIES BR

BS900030

SCHRACK-INFO

- Terminal screw cover for one screw of each pole

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DESCRIPTION	DIM. (BXHXT) mm	PU	TYPE	EAN CODE	AVAILABLE	ORDER NO.
Cover	17x19x10.5	100	IP20/BS	9004840196450		BR900030

ON/OFF SWITCH PROTECTION FOR SERIES BR

BS900001

BS900002

DESCRIPTION	PU	EAN CODE	AVAILABLE	ORDER NO.
Off switch protector	150	9004840210385		**BR900001**
On/Off switch protector	150	9004840210392		**BR900002**

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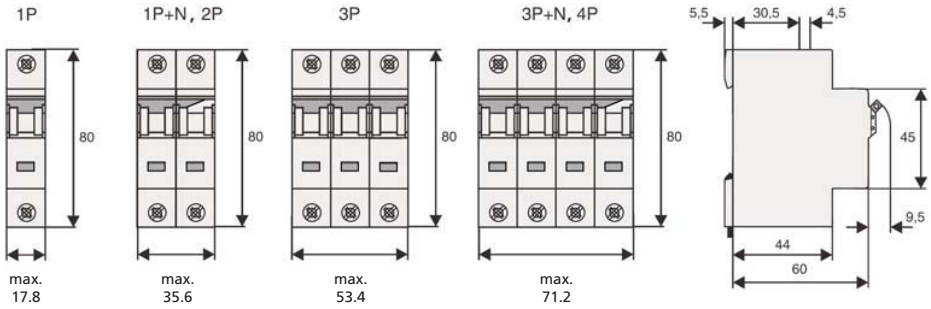
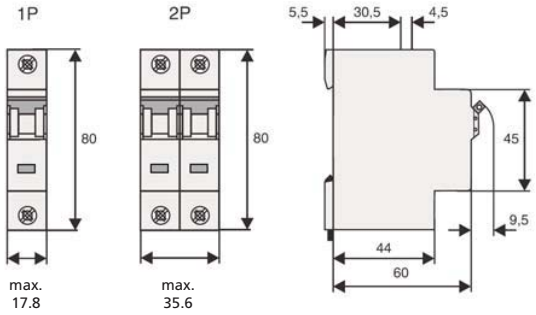
TECHNICAL DATA OF MCB

DIMENSIONS

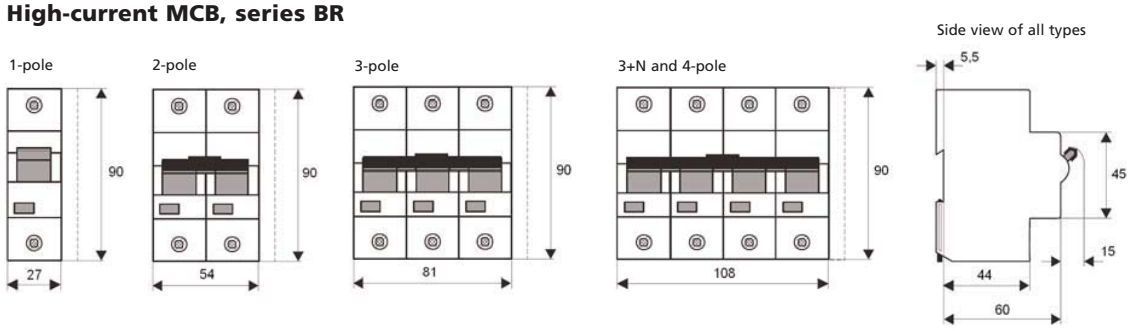
MCB, series BMS0, BMS6, BMS4



MCB for DC, series BMS0-DC



High-current MCB, series BR



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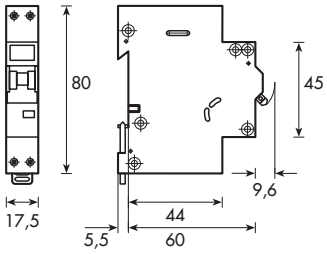
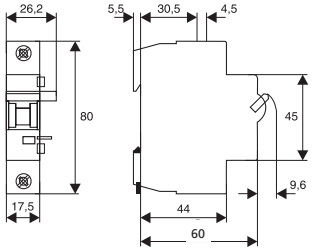
DIMENSIONS

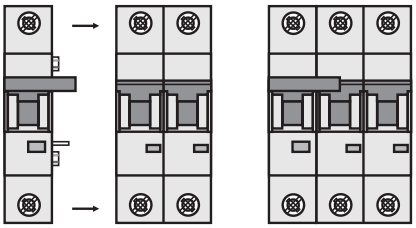
MCB, series SI-E



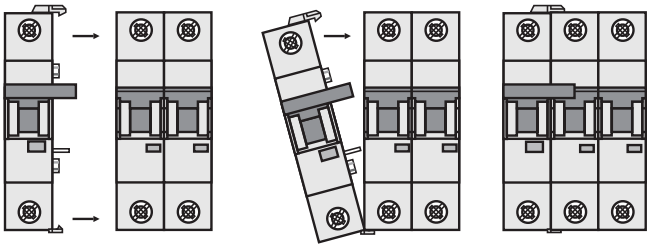
Shunt release B-FA



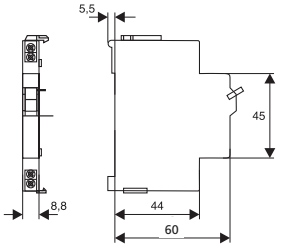
Example: FA + BMS0, BMS6, BMS4



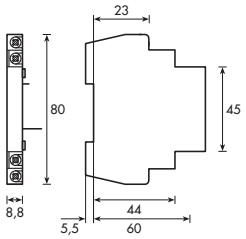
Example: B-FA + BMS0, BMS6, BMS4



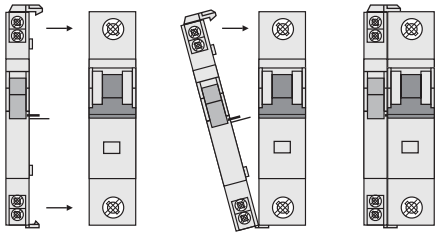
Auxiliary switch BI-HSI



Auxiliary switch for series BR



Snap-on example: B-HSI + BMS0, BMS6, BMS4, BOLF, MP



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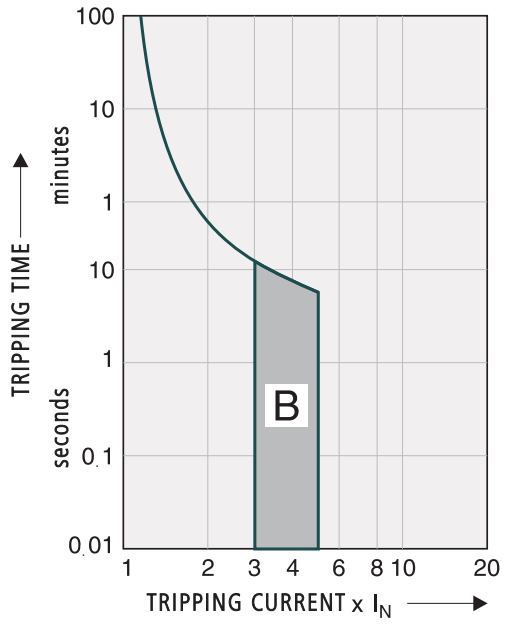
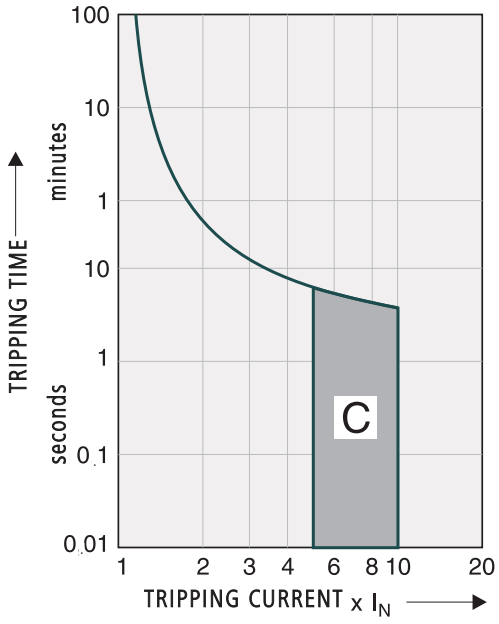
TRIPPING CHARACTERISTIC CURVES ACCORDING TO IEC/EN 60898

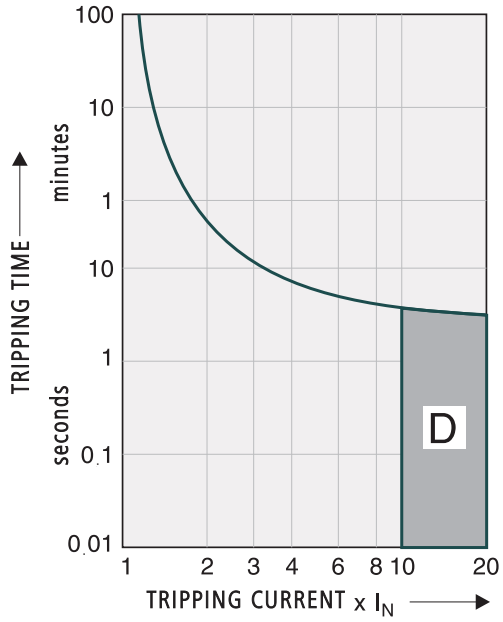
Characteristic curve B



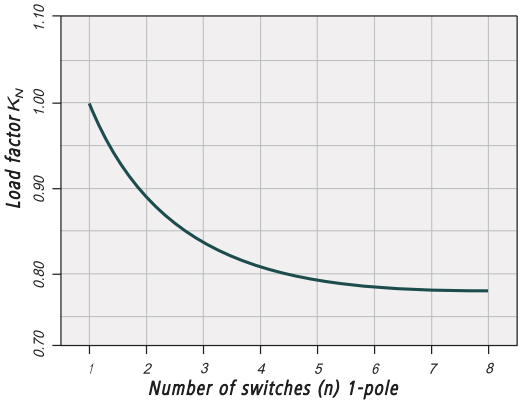
Characteristic curve C



Characteristic curve D

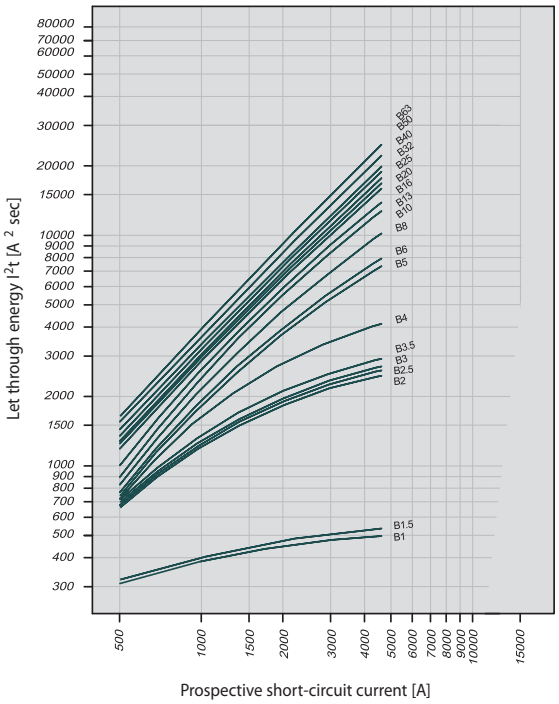


CAPACITY WITH BLOCK MOUNTING

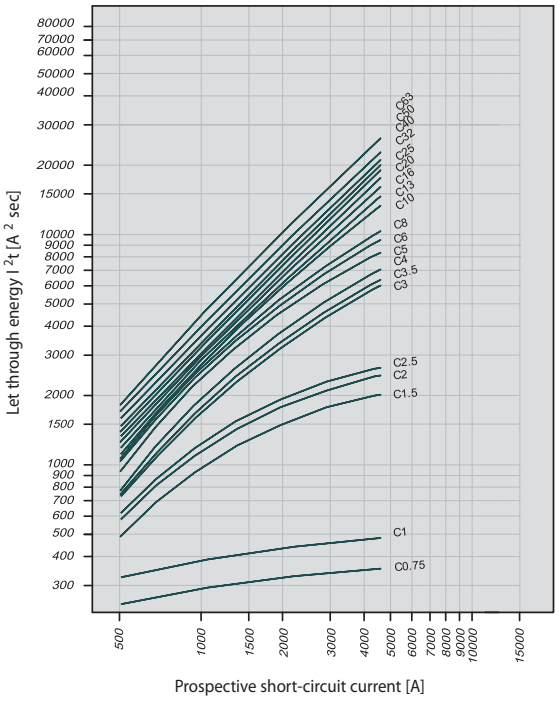


LET-THROUGH ENERGY DIAGRAM, SERIES BMS4

Let-through energy BM4, characteristic B, 1-pole



Let-through energy BM4, characteristic C, 1-pole



SHORT-CIRCUIT SELECTIVITY OF MCB, SERIES BMS4 FOR DIAZED FUSES

In case of short circuit, there is selectivity between the miniature circuit breakers BM4 and the upstream fuses up to the specified values of the selectivity limit current I_s [kA] (i. e. in case of short-circuit currents I_{ks} under I_s, only the MCB will trip, in case of short circuit currents above this value both protective devices will respond).

*) basically in accordance with EN 60898 D.5.2.b

[1] Selectivity limit current I_s under 0.5 kA

[2] Selectivity limit current I_s = rated breaking capacity I_{cn} of the MCB

no selectivity

Short circuit selectivity ***characteristic B*** *towards fuse link* ***DIAZED****)

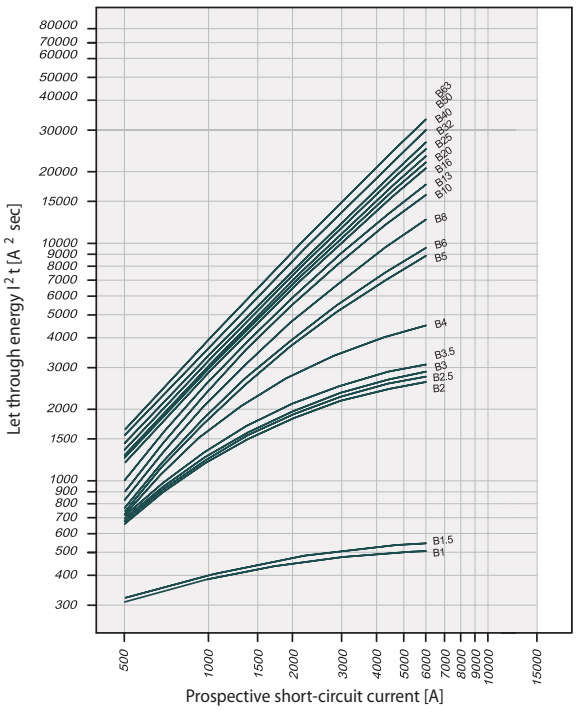
BMS4	DIAZED DII-DIV gL/gG								
I_n [A]	10	16	20	25	35	50	63	80	100
1.0	<0.5 [1]	1.2	4.5 [2]	4.5 [2]	4.5 [2]	4.5 [2]	4.5 [2]	4.5 [2]	4.5 [2]
1.5	<0.5 [1]	1.0	4.5 [2]	4.5 [2]	4.5 [2]	4.5 [2]	4.5 [2]	4.5 [2]	4.5 [2]
2.0	<0.5 [1]	<0.5 [1]	0.8	1.6	4.5 [2]	4.5 [2]	4.5 [2]	4.5 [2]	4.5 [2]
2.5	<0.5 [1]	<0.5 [1]	0.8	1.5	4.5 [2]	4.5 [2]	4.5 [2]	4.5 [2]	4.5 [2]
3.0	<0.5 [1]	<0.5 [1]	0.8	1.4	4.5 [2]	4.5 [2]	4.5 [2]	4.5 [2]	4.5 [2]
3.5	<0.5 [1]	<0.5 [1]	0.7	1.3	4.5 [2]	4.5 [2]	4.5 [2]	4.5 [2]	4.5 [2]
4	<0.5 [1]	<0.5 [1]	0.6	1.0	3.6	4.5 [2]	4.5 [2]	4.5 [2]	4.5 [2]
5	<0.5 [1]	<0.5 [1]	0.6	0.9	2.0	3.5	4.5 [2]	4.5 [2]	4.5 [2]
6		<0.5 [1]	0.6	0.9	1.8	3.2	4.5 [2]	4.5 [2]	4.5 [2]
8		<0.5 [1]	0.5	0.8	1.6	2.6	4.5 [2]	4.5 [2]	4.5 [2]
10			0.5	0.8	1.4	2.2	3.9	4.5 [2]	4.5 [2]
13			0.5	0.7	1.3	2.0	3.6	4.5 [2]	4.5 [2]
16				0.6	1.2	1.9	3.2	4.5 [2]	4.5 [2]
20					1.2	1.8	3.1	4.4	4.5 [2]
25					1.2	1.8	3.0	4.2	4.5 [2]
32						1.7	2.8	3.9	4.5 [2]
40							2.7	3.8	4.5 [2]
50							2.5	3.5	4.5 [2]
63									4.5 [2]

Short circuit selectivity ***characteristic C*** *towards fuse link* ***DIAZED****)

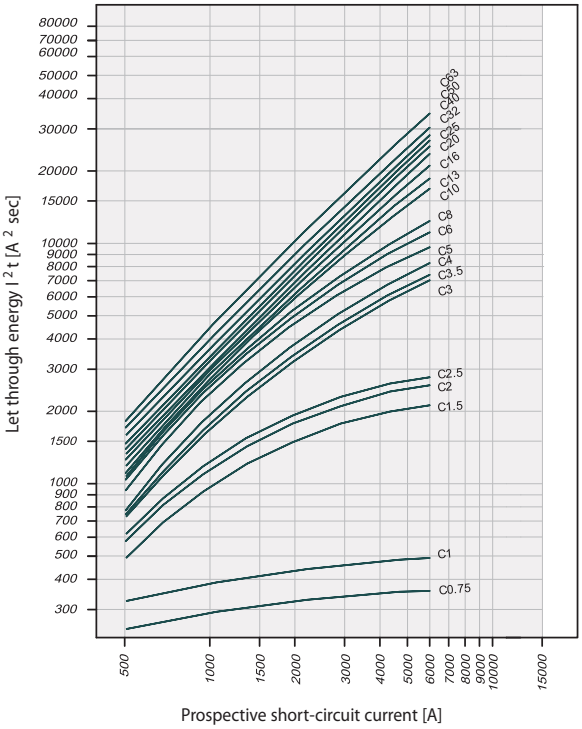
BMS4	DIAZED DII-DIV gL/gG								
I_n [A]	10	16	20	25	35	50	63	80	100
0.75	1.0	4.5 [2]	4.5 [2]	4.5 [2]	4.5 [2]	4.5 [2]	4.5 [2]	4.5 [2]	4.5 [2]
1.0	<0.5 [1]	1.2	4.5 [2]	4.5 [2]	4.5 [2]	4.5 [2]	4.5 [2]	4.5 [2]	4.5 [2]
1.5	<0.5 [1]	<0.5 [1]	1.0	2.2	4.5 [2]	4.5 [2]	4.5 [2]	4.5 [2]	4.5 [2]
2.0	<0.5 [1]	<0.5 [1]	0.8	1.6	4.5 [2]	4.5 [2]	4.5 [2]	4.5 [2]	4.5 [2]
2.5	<0.5 [1]	<0.5 [1]	0.8	1.4	4.5 [2]	4.5 [2]	4.5 [2]	4.5 [2]	4.5 [2]
3.0	<0.5 [1]	<0.5 [1]	0.8	0.9	4.5 [2]	4.5 [2]	4.5 [2]	4.5 [2]	4.5 [2]
3.5	<0.5 [1]	<0.5 [1]	0.6	0.9	2.2	4.5 [2]	4.5 [2]	4.5 [2]	4.5 [2]
4	<0.5 [1]	<0.5 [1]	0.6	0.8	1.8	3.6	4.5 [2]	4.5 [2]	4.5 [2]
5	<0.5 [1]	<0.5 [1]	0.6	0.7	1.5	2.7	4.5 [2]	4.5 [2]	4.5 [2]
6		<0.5 [1]	0.5	0.6	1.4	2.4	4.5 [2]	4.5 [2]	4.5 [2]
8		<0.5 [1]	<0.5 [1]	0.6	1.3	2.2	4.5 [2]	4.5 [2]	4.5 [2]
10			<0.5 [1]	0.6	1.3	2.0	3.6	4.5 [2]	4.5 [2]
13					1.3	1.9	3.3	4.5 [2]	4.5 [2]
16					1.2	1.8	3.2	4.4	4.5 [2]
20					1.2	1.8	3.1	4.1	4.5 [2]
25						1.7	2.8	3.8	4.5 [2]
32							2.7	3.7	4.5 [2]
40								3.5	4.5 [2]
50									4.5 [2]
63									

LET-THROUGH ENERGY DIAGRAM, SERIES BMS6

Let-through energy BM6, characteristic B, 1-pole



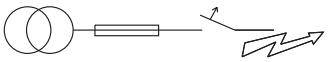
Let-through energy BM6, characteristic C, 1-pole



SHORT-CIRCUIT SELECTIVITY OF MCB, SERIES BMS6 FOR DIAZED D-FUSES

In case of short circuit, there is selectivity between the miniature circuit breakers BM6 and the upstream fuses up to the specified values of the selectivity limit current I_s [kA] (i. e. in case of short-circuit currents I_{ks} under I_s, only the MCB will trip, in case of short circuit currents above this value both protective devices will respond).

*) basically in accordance with EN 60898 D.5.2.b



Short circuit selectivity ***characteristic B*** *towards fuse link* ***DIAZED****)*

BMS6	DIAZED DII-DIV gL/gG								
I_n [A]	10	16	20	25	35	50	63	80	100
1.0	<0.5 [1]	1.2	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]
1.5	<0.5 [1]	1.0	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]
2.0	<0.5 [1]	<0.5 [1]	0.8	1.6	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]
2.5	<0.5 [1]	<0.5 [1]	0.8	1.5	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]
3.0	<0.5 [1]	<0.5 [1]	0.8	1.4	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]
3.5	<0.5 [1]	<0.5 [1]	0.7	1.3	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]
4	<0.5 [1]	<0.5 [1]	0.6	1.0	3.6	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]
5	<0.5 [1]	<0.5 [1]	0.6	0.9	2.0	3.5	6.0 [2]	6.0 [2]	6.0 [2]
6		<0.5 [1]	0.6	0.9	1.8	3.2	6.0 [2]	6.0 [2]	6.0 [2]
8		<0.5 [1]	0.5	0.8	1.6	2.6	5.2	6.0 [2]	6.0 [2]
10			0.5	0.8	1.4	2.2	3.9	6.0 [2]	6.0 [2]
13			0.5	0.7	1.3	2.0	3.6	5.4	6.0 [2]
16				0.6	1.2	1.9	3.2	4.6	6.0 [2]
20					1.2	1.8	3.1	4.4	6.0 [2]
25					1.2	1.8	3.0	4.2	6.0 [2]
32						1.7	2.8	3.9	6.0 [2]
40							2.7	3.8	6.0 [2]
50							2.5	3.5	5.7
63									5.3

Short circuit selectivity ***characteristic C*** *towards fuse link* ***DIAZED****)*

BMS6	DIAZED DII-DIV gL/gG								
I_n [A]	10	16	20	25	35	50	63	80	100
0.75	1.0	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]
1.0	<0.5 [1]	1.2	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]
1.5	<0.5 [1]	<0.5 [1]	1.0	2.2	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]
2.0	<0.5 [1]	<0.5 [1]	0.8	1.6	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]
2.5	<0.5 [1]	<0.5 [1]	0.8	1.4	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]
3.0	<0.5 [1]	<0.5 [1]	0.8	0.9	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]
3.5	<0.5 [1]	<0.5 [1]	0.6	0.9	2.2	4.5	6.0 [2]	6.0 [2]	6.0 [2]
4	<0.5 [1]	<0.5 [1]	0.6	0.8	1.8	3.6	6.0 [2]	6.0 [2]	6.0 [2]
5	<0.5 [1]	<0.5 [1]	0.6	0.7	1.5	2.7	6.0 [2]	6.0 [2]	6.0 [2]
6		<0.5 [1]	0.5	0.6	1.4	2.4	5.5	6.0 [2]	6.0 [2]
8		<0.5 [1]	<0.5 [1]	0.6	1.3	2.2	4.7	6.0 [2]	6.0 [2]
10			<0.5 [1]	0.6	1.3	2.0	3.6	6.0 [2]	6.0 [2]
13					1.3	1.9	3.3	5.0	6.0 [2]
16					1.2	1.8	3.2	4.4	6.0 [2]
20					1.2	1.8	3.1	4.1	6.0 [2]
25						1.7	2.8	3.8	6.0 [2]
32							2.7	3.7	6.0 [2]
40								3.5	5.9
50									5.5
63									

[1] Selectivity limit current I_s under 0.5 kA

[2] Selectivity limit current I_s = rated breaking capacity I_{cn} of the MCB

no selectivity

SHORT-CIRCUIT SELECTIVITY OF MCB, SERIES BMS6 FOR NEOZED D0-FUSES

In case of short circuit, there is selectivity between the miniature circuit breakers BM6 and the upstream fuses up to the specified values of the selectivity limit current I_s [kA] (i. e. in case of short-circuit currents I_{ks} under I_s, only the MCB will trip, in case of short circuit currents above this value both protective devices will respond).

*) basically in accordance with EN 60898 D.5.2.b

Short circuit selectivity ***characteristic B*** *towards fuse link* ***NEOZED****)*

BMS6	NEOZED D01-D03 gL/gG								
I_n [A]	10	16	20	25	35	50	63	80	100
1.0	<0.5 [1]	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]
1.5	<0.5 [1]	4.1	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]
2.0	<0.5 [1]	<0.5 [1]	0.6	1.0	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]
2.5	<0.5 [1]	<0.5 [1]	0.6	1.0	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]
3.0	<0.5 [1]	<0.5 [1]	0.5	1.0	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]
3.5	<0.5 [1]	<0.5 [1]	0.5	0.9	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]
4	<0.5 [1]	<0.5 [1]	0.5	0.9	2.5	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]
5		<0.5 [1]	0.5	0.8	1.7	4.0	6.0 [2]	6.0 [2]	6.0 [2]
6		<0.5 [1]	0.5	0.8	1.6	3.6	6.0 [2]	6.0 [2]	6.0 [2]
8			0.5	0.8	1.4	2.8	4.3	6.0 [2]	6.0 [2]
10			0.5	0.7	1.3	2.4	3.4	6.0 [2]	6.0 [2]
13			<0.5 [1]	0.7	1.2	2.3	3.2	5.3	6.0 [2]
16				0.6	1.1	2.2	2.9	4.6	6.0 [2]
20					1.1	2.1	2.8	4.4	6.0 [2]
25					1.1	2.0	2.7	4.2	6.0 [2]
32						2.0	2.6	4.0	6.0 [2]
40							2.5	3.8	6.0 [2]
50							2.3	3.4	6.0 [2]
63									6.0 [2]

Short circuit selectivity ***characteristic C*** *towards fuse link* ***NEOZED****)*

BMS6	NEOZED D01-D03 gL/gG								
I_n [A]	10	16	20	25	35	50	63	80	100
0.75	<0.5 [1]	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]
1.0	<0.5 [1]	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]
1.5	<0.5 [1]	0.5	0.6	0.9	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]
2.0	<0.5 [1]	<0.5 [1]	0.5	0.7	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]
2.5	<0.5 [1]	<0.5 [1]	0.5	0.7	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]
3.0	<0.5 [1]	<0.5 [1]	<0.5 [1]	0.6	1.9	5.2	6.0 [2]	6.0 [2]	6.0 [2]
3.5	<0.5 [1]	<0.5 [1]	<0.5 [1]	0.6	1.8	4.7	6.0 [2]	6.0 [2]	6.0 [2]
4	<0.5 [1]	<0.5 [1]	<0.5 [1]	0.6	1.6	4.0	6.0 [2]	6.0 [2]	6.0 [2]
5		<0.5 [1]	<0.5 [1]	0.5	1.3	3.1	5.7	6.0 [2]	6.0 [2]
6		<0.5 [1]	<0.5 [1]	<0.5 [1]	1.2	2.7	4.5	6.0 [2]	6.0 [2]
8		<0.5 [1]	<0.5 [1]	<0.5 [1]	1.2	2.5	4.0	6.0 [2]	6.0 [2]
10			<0.5 [1]	<0.5 [1]	1.2	2.3	3.1	5.4	6.0 [2]
13					1.1	2.2	3.0	4.9	6.0 [2]
16					1.1	2.1	2.8	4.4	6.0 [2]
20					1.0	2.0	2.6	4.0	6.0 [2]
25						1.9	2.5	3.8	6.0 [2]
32							2.5	3.7	6.0 [2]
40								3.5	6.0 [2]
50									6.0 [2]
63									

[1] Selectivity limit current I_s under 0.5 kA

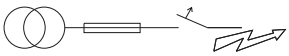
[2] Selectivity limit current I_s = rated breaking capacity I_{cn} of the MCB

no selectivity

SHORT-CIRCUIT SELECTIVITY OF MCB, SERIES BMS6 FOR HRC SIZE 00 FUSES

In case of short circuit, there is selectivity between the miniature circuit breakers BM6 and the upstream fuses up to the specified values of the selectivity limit current I_s [kA] (i. e. in case of short-circuit currents I_{ks} under I_s, only the MCB will trip, in case of short circuit currents above this value both protective devices will respond).

*) basically in accordance with EN 60898 D.5.2.b



Short circuit selectivity ***characteristic B*** *towards fuse link* ***NH-00****)*

BMS6	NH-00 gL/gG											
I_n [A]	16	20	25	32	35	40	50	63	80	100	125	160
1.0	0.9	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]
1.5	0.8	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]
2.0	<0.5 [1]	0.5	1.0	2.5	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]
2.5	<0.5 [1]	0.5	1.0	2.3	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]
3.0	<0.5 [1]	0.5	0.9	2.1	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]
3.5	<0.5 [1]	0.5	0.9	1.8	5.5	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]
4	<0.5 [1]	<0.5 [1]	0.8	1.3	2.3	4.3	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]
5	<0.5 [1]	<0.5 [1]	0.7	1.1	1.6	2.2	3.6	4.8	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]
6	<0.5 [1]	<0.5 [1]	0.7	1.1	1.5	2.0	3.3	4.3	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]
8	<0.5 [1]	<0.5 [1]	0.6	1.0	1.3	1.7	2.6	3.3	5.2	6.0 [2]	6.0 [2]	6.0 [2]
10		<0.5 [1]	0.6	0.9	1.2	1.5	2.2	2.7	4.0	6.0 [2]	6.0 [2]	6.0 [2]
13		<0.5 [1]	0.6	0.8	1.1	1.4	2.1	2.6	3.8	6.0 [2]	6.0 [2]	6.0 [2]
16			0.5	0.7	1.0	1.3	1.9	2.4	3.4	6.0 [2]	6.0 [2]	6.0 [2]
20				0.7	1.0	1.3	1.9	2.4	3.3	6.0 [2]	6.0 [2]	6.0 [2]
25				0.7	1.0	1.3	1.8	2.3	3.2	5.7	6.0 [2]	6.0 [2]
32					0.9	1.2	1.7	2.2	3.1	5.4	6.0 [2]	6.0 [2]
40								2.1	3.0	5.1	6.0 [2]	6.0 [2]
50								1.9	2.8	4.7	6.0 [2]	6.0 [2]
63										4.4	6.0 [2]	6.0 [2]

Short circuit selectivity ***characteristic C*** *towards fuse link* ***NH-00****)*

BMS6	NH-00 gL/gG											
I_n [A]	16	20	25	32	35	40	50	63	80	100	125	160
0.75	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]
1.0	0.9	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]
1.5	<0.5 [1]	0.6	1.3	4.2	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]
2.0	<0.5 [1]	0.6	1.0	2.5	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]
2.5	<0.5 [1]	0.5	1.0	2.1	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]
3.0	<0.5 [1]	<0.5 [1]	0.7	1.2	1.8	2.6	4.7	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]
3.5	<0.5 [1]	<0.5 [1]	0.7	1.1	1.7	2.4	4.2	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]
4	<0.5 [1]	<0.5 [1]	0.7	1.0	1.5	2.1	3.6	5.0	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]
5	<0.5 [1]	<0.5 [1]	0.6	0.8	1.2	1.7	2.8	3.8	6.0 [2]	6.0 [2]	6.0 [2]	6.0 [2]
6	<0.5 [1]	<0.5 [1]	0.5	0.8	1.2	1.5	2.5	3.3	5.7	6.0 [2]	6.0 [2]	6.0 [2]
8	<0.5 [1]	<0.5 [1]	0.5	0.8	1.1	1.5	2.3	2.9	4.9	6.0 [2]	6.0 [2]	6.0 [2]
10			0.5	0.7	1.0	1.4	2.0	2.5	3.8	6.0 [2]	6.0 [2]	6.0 [2]
13					1.0	1.3	1.9	2.4	3.6	6.0 [2]	6.0 [2]	6.0 [2]
16					1.0	1.3	1.8	2.3	3.3	6.0 [2]	6.0 [2]	6.0 [2]
20					1.0	1.2	1.7	2.2	3.2	5.5	6.0 [2]	6.0 [2]
25							1.6	2.1	3.0	5.2	6.0 [2]	6.0 [2]
32								2.1	2.9	5.0	6.0 [2]	6.0 [2]
40									2.8	4.8	6.0 [2]	6.0 [2]
50										4.5	6.0 [2]	6.0 [2]
63											5.9	6.0 [2]

[1] Selectivity limit current I_s under 0.5 kA

[2] Selectivity limit current I_s = rated breaking capacity I_{cn} of the MCB

no selectivity

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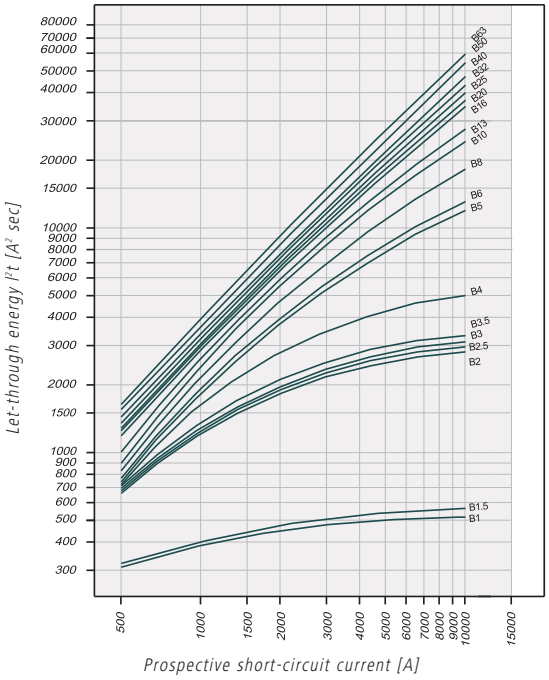
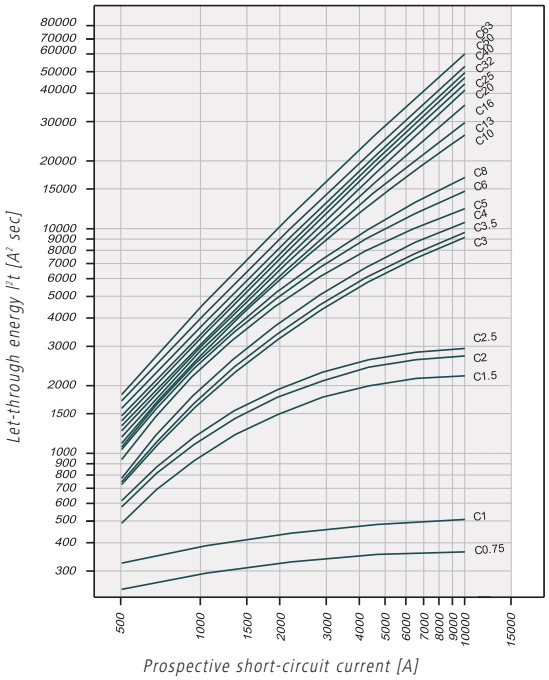
LET-THROUGH ENERGY DIAGRAM, SERIES BMS0

Let-through energy BMS0

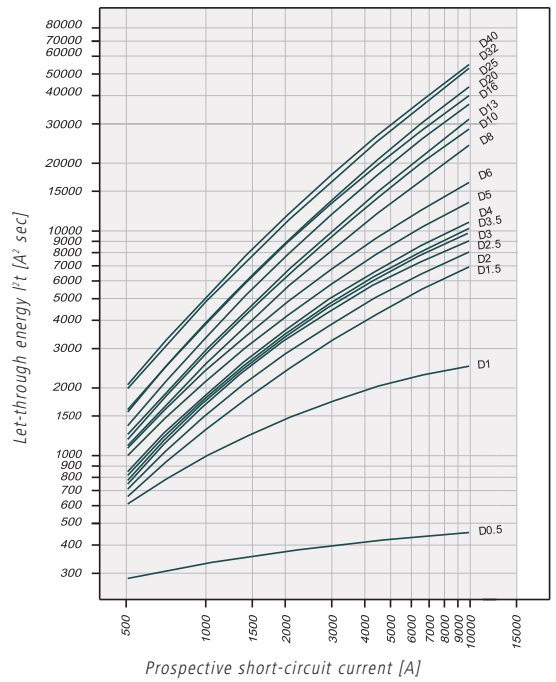
Let-through energy BMS0 characteristic B, 1-pole



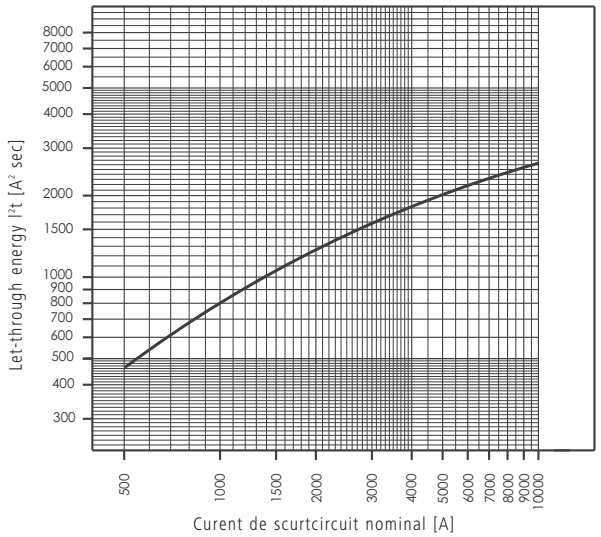
Let-through energy BMS0 characteristic C, 1-pole



Let-through energy BMS0 characteristic D, 1-pole



Let-through energy BMS0 - H - B4



INFLUENCE OF AMBIENT TEMPERATURE ON THE THERMAL TRIGGERING BEHAVIOUR OF MCB, SERIES BMS0, BMS6 AND BMS4 EXPECT ME TYPE

Corrected values of the rated current as a function of the ambient temperature

	Ambient temperature T (°C)												
I_n [A]	**-25**	**-20**	**-10**	**0**	**10**	**20**	**30**	**35**	**40**	**45**	**50**	**55**	**60**
0.16	0.20	0.19	0.19	0.18	0.17	0.17	0.16	0.16	0.15	0.15	0.15	0.14	0.14
0.25	0.31	0.30	0.29	0.28	0.27	0.26	0.25	0.25	0.24	0.24	0.23	0.23	0.22
0.5	0.61	0.60	0.58	0.56	0.54	0.52	0.50	0.49	0.48	0.47	0.46	0.45	0.44
0.75	0.92	0.90	0.87	0.84	0.81	0.78	0.75	0.74	0.73	0.71	0.69	0.68	0.66
1	1.2	1.2	1.2	1.1	1.1	1.0	1.0	0.99	0.97	0.95	0.93	0.90	0.89
1.5	1.8	1.8	1.7	1.7	1.6	1.6	1.5	1.5	1.5	1.4	1.4	1.4	1.3
1.6	2.0	1.9	1.9	1.8	1.7	1.7	1.6	1.6	1.5	1.5	1.5	1.4	1.4
2	2.4	2.4	2.3	2.2	2.2	2.1	2.0	2.0	1.9	1.9	1.9	1.8	1.8
2.5	3.1	3.0	2.9	2.8	2.7	2.6	2.5	2.5	2.4	2.4	2.3	2.3	2.2
3	3.7	3.6	3.5	3.4	3.3	3.1	3.0	3.0	2.9	2.8	2.8	2.7	2.7
3.5	4.3	4.2	4.1	3.9	3.8	3.7	3.5	3.4	3.4	3.3	3.2	3.2	3.1
4	4.9	4.8	4.7	4.5	4.3	4.2	4.0	3.9	3.9	3.8	3.7	3.6	3.5
5	6.1	6.0	5.8	5.6	5.4	5.2	5.0	4.9	4.8	4.7	4.6	4.5	4.4
6	7.3	7.2	7.0	6.7	6.5	6.3	6.0	5.9	5.8	5.7	5.6	5.4	5.3
8	9.8	9.6	9.3	9.0	8.7	8.4	8.0	7.9	7.7	7.6	7.4	7.2	7.1
10	12	12	12	11	11	10	10	9.9	9.7	9.5	9.3	9.0	8.9
12	15	14	14	13	13	13	12	12	12	11	11	11	11
13	16	16	15	15	14	14	13	13	13	12	12	12	12
15	18	18	17	17	16	16	15	15	15	14	14	14	13
16	20	19	19	18	17	17	16	16	15	15	15	14	14
20	24	24	23	22	22	21	20	20	19	19	19	18	18
25	31	30	29	28	27	26	25	25	24	24	23	23	22
32	39	38	37	36	35	33	32	32	31	30	30	29	28
40	49	48	47	45	43	42	40	39	39	38	37	36	35
50	61	60	58	56	54	52	50	49	48	47	46	45	44
63	77	76	73	71	68	66	63	62	61	60	58	57	56

INFLUENCE OF POWER FREQUENCY ON MCB, SERIES BMS0, BMS6 AND BMS4

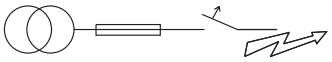
Influence of the mains frequency on the I_{MA} tripping behaviour of the instantaneous release

	Mains frequency f [Hz]						
	$16^2/_3$	50	60	100	200	300	400
I_{MA} (f)/I_{MA} (50Hz) [%]	91	100	101	106	115	134	141

SHORT-CIRCUIT SELECTIVITY OF MCB, SERIES BMS0 FOR NEOZED D0-FUSES

Short-circuit selectivity BMS0 for NEOZED D0-fuses

If a short circuit occurs, selectivity exists between the miniature circuit breaker BMS0 and the fuses in front up to the specified values of the selectivity limit current I_S [kA] (i.e., for short-circuit currents I_{kS} below I_S, only the line circuit breaker trips, for short-circuit currents above, both protective devices trip).
*) according to EN 60898 D.5.2.b



Short-circuit selectivity **Characteristic B** of fuse insert **NEOZED***)

BMS0	NEOZED D01-D03 gL/gG								
I_n [A]	10	16	20	25	35	50	63	80	100
1.0	<0.5 1)	10.0 2)	10.0 2)	10.0 2)	10.0 2)	10.0 2)	10.0 2)	10.0 2)	10.0 2)
1.5	<0.5 1)	4.1	10.0 2)	10.0 2)	10.0 2)	10.0 2)	10.0 2)	10.0 2)	10.0 2)
2.0	<0.5 1)	<0.5 1)	0.6	1.0	10.0 2)	10.0 2)	10.0 2)	10.0 2)	10.0 2)
2.5	<0.5 1)	<0.5 1)	0.6	1.0	10.0 2)	10.0 2)	10.0 2)	10.0 2)	10.0 2)
3.0	<0.5 1)	<0.5 1)	0.5	1.0	10.0 2)	10.0 2)	10.0 2)	10.0 2)	10.0 2)
3.5	<0.5 1)	<0.5 1)	0.5	0.9	7.0	10.0 2)	10.0 2)	10.0 2)	10.0 2)
4	<0.5 1)	<0.5 1)	0.5	0.9	2.5	10.0 2)	10.0 2)	10.0 2)	10.0 2)
5		<0.5 1)	0.5	0.8	1.7	4.0	7.0	10.0 2)	10.0 2)
6		<0.5 1)	0.5	0.8	1.6	3.6	6.0	10.0 2)	10.0 2)
8			0.5	0.8	1.4	2.8	4.3	8.2	10.0 2)
10			0.5	0.7	1.3	2.4	3.4	6.0	10.0 2)
13			<0.5 1)	0.7	1.2	2.3	3.2	5.3	10.0 2)
16				0.6	1.1	2.2	2.9	4.6	10.0
20					1.1	2.1	2.8	4.4	9.3
25					1.1	2.0	2.7	4.2	8.7
32						2.0	2.6	4.0	8.0
40							2.5	3.8	7.5
50							2.3	3.4	6.7
63									6.2

Short-circuit selectivity **Characteristic C** of fuse insert **NEOZED***)

BMS0	NEOZED D01-D03 gL/gG								
I_n [A]	10	16	20	25	35	50	63	80	100
0.75	<0.5 1)	10.0 2)	10.0 2)	10.0 2)	10.0 2)	10.0 2)	10.0 2)	10.0 2)	10.0 2)
1.0	<0.5 1)	10.0 2)	10.0 2)	10.0 2)	10.0 2)	10.0 2)	10.0 2)	10.0 2)	10.0 2)
1.5	<0.5 1)	0.5	0.6	0.9	10.0 2)	10.0 2)	10.0 2)	10.0 2)	10.0 2)
2.0	<0.5 1)	<0.5 1)	0.5	0.7	10.0 2)	10.0 2)	10.0 2)	10.0 2)	10.0 2)
2.5	<0.5 1)	<0.5 1)	0.5	0.7	10.0 2)	10.0 2)	10.0 2)	10.0 2)	10.0 2)
3.0	<0.5 1)	<0.5 1)	<0.5 1)	0.6	1.9	5.2	10.0 2)	10.0 2)	10.0 2)
3.5	<0.5 1)	<0.5 1)	<0.5 1)	0.6	1.8	4.7	9.5	10.0 2)	10.0 2)
4	<0.5 1)	<0.5 1)	<0.5 1)	0.6	1.6	4.0	7.6	10.0 2)	10.0 2)
5		<0.5 1)	<0.5 1)	0.5	1.3	3.1	5.7	10.0 2)	10.0 2)
6		<0.5 1)	<0.5 1)	<0.5 1)	1.2	2.7	4.5	10.0 2)	10.0 2)
8		<0.5 1)	<0.5 1)	<0.5 1)	1.2	2.5	4.0	8.6	10.0 2)
10			<0.5 1)	<0.5 1)	1.2	2.3	3.1	5.4	10.0 2)
13					1.1	2.2	3.0	4.9	10.0 2)
16					1.1	2.1	2.8	4.4	9.5
20					1.0	2.0	2.6	4.0	8.3
25						1.9	2.5	3.8	7.8
32							2.5	3.7	7.3
40								3.5	7.0
50									6.5
63									

Short-circuit selectivity **Characteristic D** of fuse insert **NEOZED***)

BMS0	NEOZED D01-D03 gL/gG								
I_n [A]	10	16	20	25	35	50	63	80	100
0.5	<0.5 1)	10.0 2)	10.0 2)	10.0 2)	10.0 2)	10.0 2)	10.0 2)	10.0 2)	10.0 2)
1.0	<0.5 1)	<0.5 1)	0.7	1.3	10.0 2)	10.0 2)	10.0 2)	10.0 2)	10.0 2)
1.5	<0.5 1)	<0.5 1)	0.6	0.9	2.8	9.0	10.0 2)	10.0 2)	10.0 2)
2.0	<0.5 1)	<0.5 1)	0.6	0.8	2.2	6.7	10.0 2)	10.0 2)	10.0 2)
2.5	<0.5 1)	<0.5 1)	0.5	0.7	1.9	5.4	10.0 2)	10.0 2)	10.0 2)
3.0	<0.5 1)	<0.5 1)	0.5	0.7	1.8	4.8	9.3	10.0 2)	10.0 2)
3.5	<0.5 1)	<0.5 1)	0.5	0.7	1.7	4.7	8.6	10.0 2)	10.0 2)
4		<0.5 1)	0.5	0.7	1.7	4.6	7.7	10.0 2)	10.0 2)
5		<0.5 1)	<0.5 1)	0.6	1.5	3.5	5.8	10.0 2)	10.0 2)
6			<0.5 1)	0.5	1.3	2.9	4.5	9.0	10.0 2)
8			<0.5 1)	0.5	1.2	2.4	3.5	6.0	10.0 2)
10				0.5	1.1	2.2	3.0	5.0	10.0 2)
13					1.1	2.1	2.9	4.6	10.0 2)
16						1.9	2.6	3.9	9.0
20						1.7	2.3	3.5	8.0
25							2.2	3.4	7.5
32								2.9	6.0
40									5.7

1) Selectivity limit current I_S is less than 0.5 kA.
2) Selectivity limit current I_S = Rated breaking capacity I_{cn} of the line circuit breaker.

No selectivity

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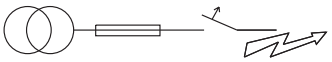
SHORT-CIRCUIT SELECTIVITY OF MCB, SERIES BMS0 FOR DIAZED D-FUSES

Short-circuit selectivity BMS0 for DIAZED D-fuses

If a short circuit occurs, selectivity exists between the miniature circuit breaker BMS0 and the fuses in front up to the specified values of the selectivity limit current I_s [kA] (i.e., for short-circuit currents I_{ks} below I s, only the line circuit breaker trips, for short-circuit currents above, both protective devices trip).
*) according to EN 60898 D.5.2.b



Short-circuit selectivity **Characteristic B** of fuse insert **DIAZED***)

BSM0	DIAZED DII-DIV gL/gG								
I_n [A]	10	16	20	25	35	50	63	80	100
1.0	<0.5 1)	1.2	10.0 2)	10.0 2)	10.0 2)	10.0 2)	10.0 2)	10.0 2)	10.0 2)
1.5	<0.5 1)	1.0	10.0 2)	10.0 2)	10.0 2)	10.0 2)	10.0 2)	10.0 2)	10.0 2)
2.0	<0.5 1)	<0.5 1)	0.8	1.6	10.0 2)	10.0 2)	10.0 2)	10.0 2)	10.0 2)
2.5	<0.5 1)	<0.5 1)	0.8	1.5	10.0 2)	10.0 2)	10.0 2)	10.0 2)	10.0 2)
3.0	<0.5 1)	<0.5 1)	0.8	1.4	10.0 2)	10.0 2)	10.0 2)	10.0 2)	10.0 2)
3.5	<0.5 1)	<0.5 1)	0.7	1.3	10.0 2)	10.0 2)	10.0 2)	10.0 2)	10.0 2)
4	<0.5 1)	<0.5 1)	0.6	1.0	3.6	10.0 2)	10.0 2)	10.0 2)	10.0 2)
5	<0.5 1)	<0.5 1)	0.6	0.9	2.0	3.5	8.5	10.0 2)	10.0 2)
6		<0.5 1)	0.6	0.9	1.8	3.2	7.4	10.0 2)	10.0 2)
8		<0.5 1)	0.5	0.8	1.6	2.6	5.2	8.3	10.0 2)
10			0.5	0.8	1.4	2.2	3.9	6.0	10.0 2)
13			0.5	0.7	1.3	2.0	3.6	5.4	10.0 2)
16				0.6	1.2	1.9	3.2	4.6	8.4
20					1.2	1.8	3.1	4.4	7.8
25					1.2	1.8	3.0	4.2	7.3
32						1.7	2.8	3.9	6.8
40							2.7	3.8	6.5
50							2.5	3.5	5.7
63									5.3

Short-circuit selectivity **Characteristic C** of fuse insert **DIAZED***)

BSM0	DIAZED DII-DIV gL/gG								
I_n [A]	10	16	20	25	35	50	63	80	100
0.75	1.0	10.0 2)	10.0 2)	10.0 2)	10.0 2)	10.0 2)	10.0 2)	10.0 2)	10.0 2)
1.0	<0.5 1)	1.2	10.0 2)	10.0 2)	10.0 2)	10.0 2)	10.0 2)	10.0 2)	10.0 2)
1.5	<0.5 1)	<0.5 1)	1.0	2.2	10.0 2)	10.0 2)	10.0 2)	10.0 2)	10.0 2)
2.0	<0.5 1)	<0.5 1)	0.8	1.6	10.0 2)	10.0 2)	10.0 2)	10.0 2)	10.0 2)
2.5	<0.5 1)	<0.5 1)	0.8	1.4	10.0 2)	10.0 2)	10.0 2)	10.0 2)	10.0 2)
3.0	<0.5 1)	<0.5 1)	0.8	0.9	10.0 2)	10.0 2)	10.0 2)	10.0 2)	10.0 2)
3.5	<0.5 1)	<0.5 1)	0.6	0.9	2.2	4.5	10.0 2)	10.0 2)	10.0 2)
4	<0.5 1)	<0.5 1)	0.6	0.8	1.8	3.6	9.7	10.0 2)	10.0 2)
5	<0.5 1)	<0.5 1)	0.6	0.7	1.5	2.7	7.3	10.0 2)	10.0 2)
6		<0.5 1)	0.5	0.6	1.4	2.4	5.5	10.0 2)	10.0 2)
8		<0.5 1)	<0.5 1)	0.6	1.3	2.2	4.7	8.7	10.0 2)
10			<0.5 1)	0.6	1.3	2.0	3.6	5.4	10.0 2)
13					1.3	1.9	3.3	5.0	9.4
16					1.2	1.8	3.2	4.4	8.0
20					1.2	1.8	3.1	4.1	7.0
25						1.7	2.8	3.8	6.5
32							2.7	3.7	6.2
40								3.5	5.9
50									5.5
63									

Short-circuit selectivity **Characteristic D** of fuse insert **DIAZED***)

BSM0	DIAZED DII-DIV gL/gG								
I_n [A]	10	16	20	25	35	50	63	80	100
0.5	0.5	3.0	10.0 2)	10.0 2)	10.0 2)	10.0 2)	10.0 2)	10.0 2)	10.0 2)
1.0	<0.5 1)	<0.5 1)	1.0	2.4	10.0 2)	10.0 2)	10.0 2)	10.0 2)	10.0 2)
1.5	<0.5 1)	<0.5 1)	0.7	1.2	3.5	7.7	10.0 2)	10.0 2)	10.0 2)
2.0	<0.5 1)	<0.5 1)	0.6	1.0	2.8	5.8	10.0 2)	10.0 2)	10.0 2)
2.5	<0.5 1)	<0.5 1)	0.6	1.4	2.3	4.6	10.0 2)	10.0 2)	10.0 2)
3.0	<0.5 1)	<0.5 1)	0.6	0.9	2.3	4.3	10.0 2)	10.0 2)	10.0 2)
3.5	<0.5 1)	<0.5 1)	0.6	0.9	2.1	4.0	10.0 2)	10.0 2)	10.0 2)
4		<0.5 1)	0.6	0.9	2.0	3.8	9.5	10.0 2)	10.0 2)
5		<0.5 1)	0.5	0.7	1.7	3.1	7.0	10.0 2)	10.0 2)
6			0.5	0.7	1.5	2.6	5.3	9.1	10.0 2)
8			<0.5 1)	0.7	1.4	2.2	3.9	6.0	10.0 2)
10				0.7	1.2	1.9	3.4	5.0	9.5
13					1.2	1.8	3.2	4.6	8.6
16						1.6	2.7	4.0	7.4
20						1.5	2.5	3.5	6.7
25							2.4	3.4	6.2
32								2.8	5.0
40									4.8

1) Selectivity limit current I_s is less than 0.5 kA.
2) Selectivity limit current I_s = Rated breaking capacity I_{cn} of the line circuit breaker.

No selectivity

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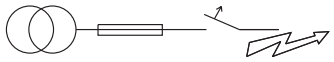
SHORT-CIRCUIT SELECTIVITY OF MCB, SERIES BMS0 FOR HRC SIZE 00 FUSES

Short-circuit selectivity BMS0 for HRC size 00 fuses

If a short circuit occurs, selectivity exists between the miniature circuit breaker BMS0 and the fuses in front up to the specified values of the selectivity limit current I_s [kA] (i.e., for short-circuit currents I_{ks} below I_s, only the line circuit breaker trips, for short-circuit currents above, both protective devices trip).
*) according to EN 60898 D.5.2.b



Short-circuit selectivity **Characteristic B** of fuse insert **NH-00***)

BMS0	NH-00 gL/gG											
I_n [A]	16	20	25	32	35	40	50	63	80	100	125	160
1.0	0.9	10.0 2)	10.0 2)	10.0 2)	10.0 2)	10.0 2)	10.0 2)	10.0 2)	10.0 2)	10.0 2)	10.0 2)	10.0 2)
1.5	0.8	10.0 2)	10.0 2)	10.0 2)	10.0 2)	10.0 2)	10.0 2)	10.0 2)	10.0 2)	10.0 2)	10.0 2)	10.0 2)
2.0	<0.5 1)	0.5	1.0	2.5	10.0 2)	10.0 2)	10.0 2)	10.0 2)	10.0 2)	10.0 2)	10.0 2)	10.0 2)
2.5	<0.5 1)	0.5	1.0	2.3	10.0 2)	10.0 2)	10.0 2)	10.0 2)	10.0 2)	10.0 2)	10.0 2)	10.0 2)
3.0	<0.5 1)	0.5	0.9	2.1	8.0	10.0 2)	10.0 2)	10.0 2)	10.0 2)	10.0 2)	10.0 2)	10.0 2)
3.5	<0.5 1)	0.5	0.9	1.8	5.5	10.0 2)	10.0 2)	10.0 2)	10.0 2)	10.0 2)	10.0 2)	10.0 2)
4	<0.5 1)	<0.5 1)	0.8	1.3	2.3	4.3	10.0 2)	10.0 2)	10.0 2)	10.0 2)	10.0 2)	10.0 2)
5	<0.5 1)	<0.5 1)	0.7	1.1	1.6	2.2	3.6	4.8	8.9	10.0 2)	10.0 2)	10.0 2)
6	<0.5 1)	<0.5 1)	0.7	1.1	1.5	2.0	3.3	4.3	7.6	10.0 2)	10.0 2)	10.0 2)
8	<0.5 1)	<0.5 1)	0.6	1.0	1.3	1.7	2.6	3.3	5.2	10.0 2)	10.0 2)	10.0 2)
10		<0.5 1)	0.6	0.9	1.2	1.5	2.2	2.7	4.0	9.0	10.0 2)	10.0 2)
13		<0.5 1)	0.6	0.8	1.1	1.4	2.1	2.6	3.8	7.9	10.0 2)	10.0 2)
16			0.5	0.7	1.0	1.3	1.9	2.4	3.4	6.4	9.3	10.0 2)
20				0.7	1.0	1.3	1.9	2.4	3.3	6.0	8.7	10.0 2)
25				0.7	1.0	1.3	1.8	2.3	3.2	5.7	8.0	10.0 2)
32					0.9	1.2	1.7	2.2	3.1	5.4	7.6	10.0 2)
40								2.1	3.0	5.1	7.2	10.0 2)
50								1.9	2.8	4.7	6.6	9.5
63										4.4	6.3	8.6

Short-circuit selectivity **Characteristic C** of fuse insert **NH-00***)

BMS0	NH-00 gL/gG											
I_n [A]	16	20	25	32	35	40	50	63	80	100	125	160
0.75	10.0 2)	10.0 2)	10.0 2)	10.0 2)	10.0 2)	10.0 2)	10.0 2)	10.0 2)	10.0 2)	10.0 2)	10.0 2)	10.0 2)
1.0	0.9	10.0 2)	10.0 2)	10.0 2)	10.0 2)	10.0 2)	10.0 2)	10.0 2)	10.0 2)	10.0 2)	10.0 2)	10.0 2)
1.5	<0.5 1)	0.6	1.3	4.2	10.0 2)	10.0 2)	10.0 2)	10.0 2)	10.0 2)	10.0 2)	10.0 2)	10.0 2)
2.0	<0.5 1)	0.6	1.0	2.5	10.0 2)	10.0 2)	10.0 2)	10.0 2)	10.0 2)	10.0 2)	10.0 2)	10.0 2)
2.5	<0.5 1)	0.5	1.0	2.1	10.0 2)	10.0 2)	10.0 2)	10.0 2)	10.0 2)	10.0 2)	10.0 2)	10.0 2)
3.0	<0.5 1)	<0.5 1)	0.7	1.2	1.8	2.6	4.7	6.6	10.0 2)	10.0 2)	10.0 2)	10.0 2)
3.5	<0.5 1)	<0.5 1)	0.7	1.1	1.7	2.4	4.2	6.0	10.0 2)	10.0 2)	10.0 2)	10.0 2)
4	<0.5 1)	<0.5 1)	0.7	1.0	1.5	2.1	3.6	5.0	10.0	10.0 2)	10.0 2)	10.0 2)
5	<0.5 1)	<0.5 1)	0.6	0.8	1.2	1.7	2.8	3.8	8.7	10.0 2)	10.0 2)	10.0 2)
6	<0.5 1)	<0.5 1)	0.5	0.8	1.2	1.5	2.5	3.3	5.7	10.0 2)	10.0 2)	10.0 2)
8	<0.5 1)	<0.5 1)	0.5	0.8	1.1	1.5	2.3	2.9	4.9	10.0 2)	10.0 2)	10.0 2)
10		0.5	0.7	1.0	1.4	2.0	2.5	3.8	8.0	10.0 2)	10.0 2)	
13				1.0	1.3	1.9	2.4	3.6	7.0	10.0 2)	10.0 2)	
16				1.0	1.3	1.8	2.3	3.3	6.0	8.8	10.0 2)	
20				1.0	1.2	1.7	2.2	3.2	5.5	7.7	10.0 2)	
25					1.6	2.1	3.0	5.2	7.3	10.0 2)		
32						2.1	2.9	5.0	7.0	10.0 2)		
40							2.8	4.8	6.7	10.0		
50								4.5	6.3	9.5		
63									5.9	8.4		

Short-circuit selectivity **Characteristic D** of fuse insert **NH-00***)

BMS0	NH-00 gL/gG											
I_n [A]	16	20	25	32	35	40	50	63	80	100	125	160
0.5	2.1	10.0 2)	10.0 2)	10.0 2)	10.0 2)	10.0 2)	10.0 2)	10.0 2)	10.0 2)	10.0 2)	10.0 2)	10.0 2)
1.0	<0.5 1)	0,6	1.4	4.3	10.0 2)	10.0 2)	10.0 2)	10.0 2)	10.0 2)	10.0 2)	10.0 2)	10.0 2)
1.5	<0.5 1)	<0.5 1)	0.9	1.6	2.7	4.0	8.0	10.0 2)	10.0 2)	10.0 2)	10.0 2)	10.0 2)
2.0	<0.5 1)	<0.5 1)	0.8	1.3	2.1	3.1	6.0	8.6	10.0 2)	10.0 2)	10.0 2)	10.0 2)
2.5	<0.5 1)	<0.5 1)	0.7	1.2	1.8	2.6	4.8	6.9	10.0 2)	10.0 2)	10.0 2)	10.0 2)
3.0	<0.5 1)	<0.5 1)	0.7	1.1	1.7	2.4	4.3	6.0	10.0 2)	10.0 2)	10.0 2)	10.0 2)
3.5	<0.5 1)	<0.5 1)	0.7	1.1	1.7	2.4	4.2	5.6	10.0 2)	10.0 2)	10.0 2)	10.0 2)
4	<0.5 1)	<0.5 1)	0.7	1.0	1.6	2.2	3.8	5.2	10.0	10.0 2)	10.0 2)	10.0 2)
5		<0.5 1)	0.6	0.9	1.4	1.9	3.2	4.1	7.1	10.0 2)	10.0 2)	10.0 2)
6		<0.5 1)	0.5	0.8	1.2	1.6	2.6	3.3	5.5	10.0 2)	10.0 2)	10.0 2)
8			0.5	0.8	1.1	1.5	2.2	2.7	4.1	8.7	10.0 2)	10.0 2)
10			0.5	0.7	1.0	1.3	1.9	2.5	3.6	7.2	10.0 2)	10.0 2)
13					1.0	1.3	1.9	2.3	3.4	6.5	9.5	10.0 2)
16						1.1	1.6	2.0	3.0	5.5	8.0	10.0 2)
20							1.4	1.8	2.8	5.0	7.5	10.0 2)
25								1.8	2.7	4.8	7.0	10.0 2)
32									2.4	4.1	6.2	9.3
40										4.0	6.0	9.0

1) Selectivity limit current I_s is less than 0.5 kA.
2) Selectivity limit current I_s = Rated breaking capacity I_{cn} of the line circuit breaker.

No selectivity

SHORT-CIRCUIT SELECTIVITY OF MCB, SERIES BMS0-B.. FOR MC1 AND MC2

Selectivity limit current I_S [kA] for selectivity between BMSO-B..and MC...
(set overload and short-circuit release MC to max. value)

	MC...1-A... I_{cu} = 25 (50) kA						MC...2-A... I_{cu} = 25 (50)(100)(150) kA								
BMS0-B..	**40**	**50**	**63**	**80**	**100**	**125**	**40**	**50**	**63**	**80**	**100**	**125**	**160**	**200**	**250**
1	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
2	2	15	15	15	15	15	3	15	15	15	15	15	15	15	15
3	1.2	2	3	3	10	15	1.5	1.5	3	5	15	15	15	15	15
4	1.2	2	3	3	8	15	1.2	1.5	3	4	15	15	15	15	15
6	1.2	2	2.5	3	5	10	1.2	1.5	2.5	3	15	15	15	15	15
10	1.2	1.5	2	2	4	10	1	1.5	2.5	3	10	10	10	10	10
13	1	1.5	2	2	4	10	1	1.2	2	3	10	10	10	10	10
16	1	1.2	1.5	2	3	8	1	1.2	1.5	2.5	10	10	10	10	10
20	0.8	1.2	1.5	1.5	3	8	1	1.2	1.5	1.5	10	10	10	10	10
25	0.7	1.2	1.5	1.5	3	7	0.8	1	1.5	2	10	10	10	10	10
32	-	1.2	1	1.5	2	6	-	1	1.5	2	8	8	8	8	10
40	-	-	1	1.5	2	5	-	-	1.2	1.5	7	7	7	7	10
50	-	-	-	1.2	1.5	4	-	-	-	1.5	6	6	6	6	10
63	-	-	-	-	1.5	3	-	-	-	-	6	6	6	6	10

SHORT-CIRCUIT SELECTIVITY OF MCB, SERIES BMS0-C.. FOR MC1 AND MC2

Selectivity limit current I_S [kA] for selectivity between BMSO-B..and MC...
(set overload and short-circuit release MC to max. value)

	MC...1-A... I_{cu} = 25 (50) kA						MC...2-A... I_{cu} = 25 (50)(100)(150) kA								
BMS0-C..	**40**	**50**	**63**	**80**	**100**	**125**	**40**	**50**	**63**	**80**	**100**	**125**	**160**	**200**	**250**
0.5	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
1	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
2	2	15	15	15	15	15	3	15	15	15	15	15	15	15	15
3	1.2	2	3	3	10	15	1.5	1.5	3	5	15	15	15	15	15
4	1.2	2	3	3	8	15	1.2	1.5	3	4	15	15	15	15	15
6	1.2	2	2.5	3	5	10	1.2	1.5	2.5	3	15	15	15	15	15
10	1.2	1.5	2	2	4	10	1	1.5	2.5	3	10	10	10	10	10
13	1	1.5	2	2	4	10	1	1.2	2	3	10	10	10	10	10
16	1	1.2	1.5	2	3	8	1	1.2	1.5	2.5	10	10	10	10	10
20	0.8	1.2	1.5	1.5	3	8	1	1.2	1.5	1.5	10	10	10	10	10
25	0.7	1.2	1.5	1.5	3	7	0.8	1	1.5	2	10	10	10	10	10
32	-	1.2	1	1.5	2	6	-	1	1.5	2	8	8	8	8	10
40	-	-	1	1.5	2	5	-	-	1.2	1.5	7	7	7	7	10
50	-	-	-	1.2	1.5	4	-	-	-	1.5	6	6	6	6	10
63	-	-	-	-	1.5	3	-	-	-	-	6	6	6	6	10

SHORT-CIRCUIT SELECTIVITY OF MCB, SERIES BMS0-D.. FOR MC1 AND MC2

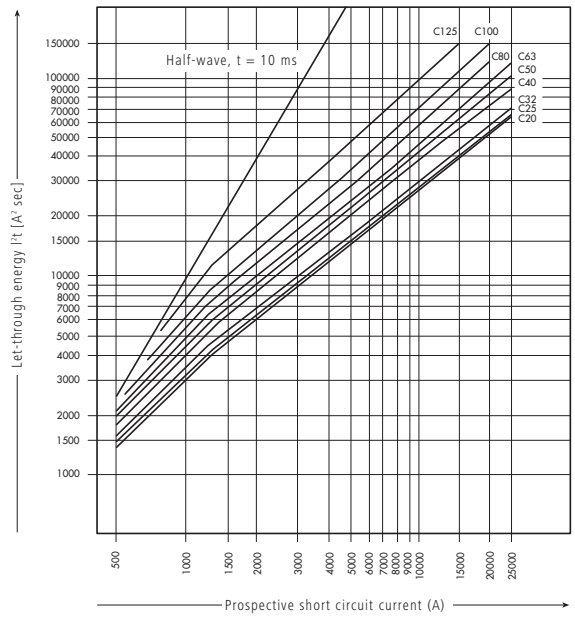
Selectivity limit current I_S [kA] for selectivity between BMSO-B..and MC...
(set overload and short-circuit release MC to max. value)

	MC...1-A... I_{cu} = 25 (50) kA						MC...2-A... I_{cu} = 25 (50)(100)(150) kA								
BMS0-D..	**40**	**50**	**63**	**80**	**100**	**125**	**40**	**50**	**63**	**80**	**100**	**125**	**160**	**200**	**250**
0.5	9	15	15	15	15	15	9	15	15	15	15	15	15	15	15
1	0.5	0.7	1.1	1.9	4.2	15	0.5	0.7	1.1	1.9	4.2	15	15	15	15
1.5	0.3	0.6	0.8	1.1	1.6	2.6	0.3	0.6	0.8	1.1	1.6	2.6	5	15	15
2	0.3	0.5	0.75	0.95	1.4	2.4	0.3	0.5	0.75	0.95	1.4	2.4	4.5	10	15
2.5	0.3	0.5	0.75	0.95	1.3	2.3	0.3	0.5	0.75	0.95	1.3	2.3	4.2	9	15
3	0.3	0.5	0.7	0.9	1.3	2.1	0.3	0.5	0.7	0.9	1.3	2.1	3.6	7	15
3.5	0.3	0.5	0.7	0.9	1.3	2	0.3	0.5	0.7	0.9	1.3	2	3.3	5.6	10
4	0.3	0.5	0.7	0.9	1.3	1.9	0.3	0.5	0.7	0.9	1.3	1.9	3	4.7	8
5	0.3	0.5	0.7	0.9	1.3	1.9	0.3	0.5	0.7	0.9	1.3	1.9	3	4.4	7
6	0.3	0.5	0.6	0.9	1.3	1.8	0.3	0.5	0.6	0.9	1.3	1.8	2.8	4	6
8	0.3	0.3	0.6	0.75	1	1.3	0.3	0.3	0.6	0.75	1	1.3	1.8	2.7	4
10	0.3	0.3	0.6	0.75	0.95	1.2	0.3	0.3	0.6	0.75	0.95	1.2	1.7	2.4	3.6
13	0.3	0.3	0.5	0.7	0.9	1.1	0.3	0.3	0.5	0.7	0.9	1.1	1.6	2.2	3.2
16	-	0.3	0.5	0.65	0.8	1.1	-	0.3	0.5	0.65	0.8	1.1	1.5	2.1	3
20	-	-	0.5	0.65	0.8	1.1	-	-	0.5	0.65	0.8	1.1	1.4	2.1	3
25	-	-	0.5	0.65	0.8	1.1	-	-	0.5	0.65	0.8	1.1	1.4	1.9	2.7
32	-	-	-	-	0.8	1.1	-	-	-	-	0.8	1.1	1.4	1.9	2.7
40	-	-	-	-	-	1	-	-	-	-	-	1	1.4	1.8	2.6

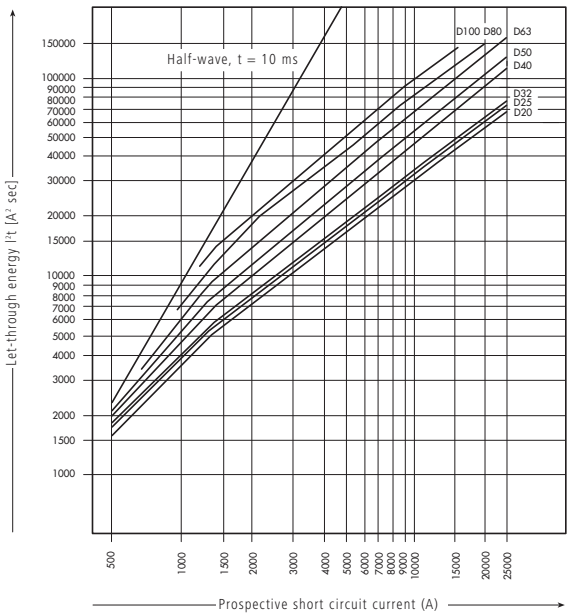
LET-THROUGH ENERGY DIAGRAM FOR HIGH-CURRENT MCB, SERIES BR

- Determined according to EN 60898

Maximum let-through energy, series BR, characteristic C, 1-pole



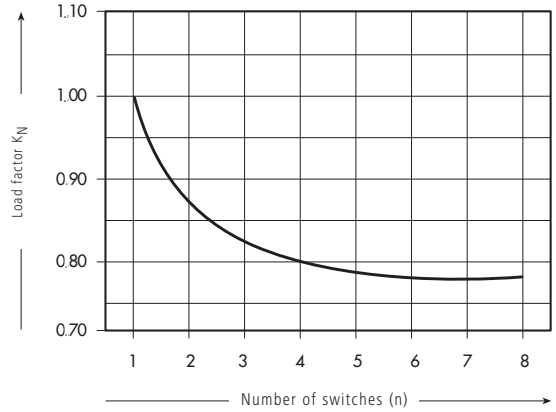
Maximum let-through energy, series BR, characteristic D, 1-pole



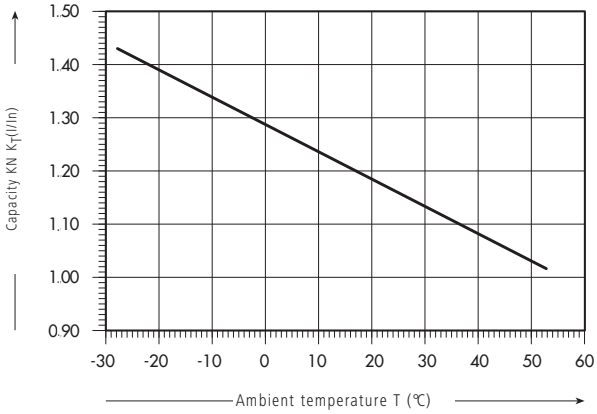
LOAD CAPACITY OF HIGH-CURRENT MCB, SERIES BR

- Valid for 1-pole switches, series BR
- Reliable continuous load at ambient temperature T (°C) and n switches: $I_{DL} = I_n K_T(T) K_N(N)$

Capacity with block mounting



Influence of ambient temperature



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SHORT-CIRCUIT SELECTIVITY OF HIGH-CURRENT MCB, SERIES BR FOR BACK-UP FUSES D01, D02, D03

Rated current i_n A*)		Rated current of back-up fuse in A gG					
		25	**35**	**50**	**63**	**80**	**100**
C characteristic	**20**	0.5	1.0	2.0	2.9	3.9	7.6
	25		1.0	1.9	2.8	3.8	7.3
	32		1.0	1.8	2.7	3.6	7.0
	40			1.6	2.2	3.0	5.6
	50				2.1	2.8	5.2
	63					2.7	4.8
	80						4.3
	100						
	125						
D characteristic	**20**	0.5	0.9	1.7	2.5	3.4	6.7
	25		0.9	1.6	2.3	3.2	6.2
	32		0.9	1.5	2.3	3.0	6.0
	40			1.4	2.0	2.6	4.7
	50				1.8	2.3	4.3
	63					2.1	3.7
	80						3.1
	100						

SHORT-CIRCUIT SELECTIVITY OF HIGH-CURRENT MCB, SERIES BR FOR BACK-UP FUSES HRC SIZE 00

Rated current i_n A*)		Rated current of back-up fuse in A gG									
		25	**35**	**40**	**50**	**63**	**80**	**100**	**125**	**160**	**200**
C characteristic	**20**	0.5	1.0	1.3	1.9	2.7	3.7	6.7	17.0		
	25		0.9	1.3	1.8	2.6	3.5	6.5	17.0	25.0	
	32		0.9	1.2	1.7	2.4	3.3	6.0	15.0	23.0	
	40				1.4	2.1	2.9	4.8	12.0	18.0	
	50					1.9	2.7	4.5	11.0	17.0	
	63							4.2	10.0	15.0	
	80							3.8	8.5	12.0	
	100								7.0	10.0	
	125									7.5	
D characteristic	**20**	<0.5	0.8	1.1	1.5	2.3	3.1	5.6	16.0	25.0	
	25		0.7	1.0	1.4	2.1	3.0	5.3	14.0	23.0	
	32		0.7	1.0	1.3	2.1	2.9	5.0	13.0	22.0	
	40				1.1	1.8	2.5	4.2	10.0	15.0	25.0
	50					1.6	2.3	3.8	8.5	13.0	22.0
	63						2.1	3.2	7.0	10.5	18.0
	80							2.8	5.5	8.4	15,0
	100								4.8	7.5	12.5

- Short-circuit selectivity (in kA) for connected fuse D0 or NH, class gG
- 1,4 … Selectivity up to 1.4 kA; … No selectivity

*) Partial export rated values. Available stock types on request

TOTAL POWER DISSIPATION FOR I_n BMS0

B characteristic

	1p	1pN	2p	3p	3pN*
I_n [A]	P [W]	P [W]	P [W]	P [W]	P [W]
1	1.6	1.7	3.1	4.7	4.8
1.5	2.3	2.5	4.6	6.9	7.2
1.6	2.5	2.7	4.9	7.4	7.6
2	1.4	1.5	2.8	4.1	4.3
2.5	1.5	1.7	3.1	4.6	4.7
3	2.5	2.7	5.0	7.6	7.8
3.5	2.5	2.8	5.1	7.8	8.0
4	1.4	1.6	2.9	4.4	4.5
5	1.9	2.1	3.8	5.8	6.0
6	1.8	2.0	3.6	5.5	5.6
8	2.1	2.3	4.1	6.3	6.5
10	1.9	2.1	3.9	5.9	6.1
12	2.8	3.2	5.9	8.7	9.0
13	2.5	2.9	5.3	7.8	8.1
15	2.1	2.4	4.4	6.5	6.7
16	2.2	2.6	4.7	6.9	7.2
20	3.2	3.6	6.6	9.8	10.1
25	3.0	3.5	6.4	9.4	9.7
32	3.7	4.4	8.1	12.1	12.5
40	3.4	4.1	7.5	11.2	11.5
50	4.5	5.4	9.9	14.9	15.3
63	5.2	6.3	11.5	17.2	17.7

* Symmetrical load

C characteristic

	1p	1pN	2p	3p	3pN*
I_n [A]	P [W]	P [W]	P [W]	P [W]	P [W]
0.16	2.2	2.4	4.4	6.7	6.9
0.25	2.0	2.2	4.0	6.1	6.3
0.5	1.2	1.3	2.4	3.5	3.7
0.75	1.3	1.4	2.6	3.9	4.1
1	1.6	1.7	3.1	4.7	4.8
1.5	1.5	1.6	2.9	4.4	4.6
1.6	1.6	1.7	3.1	4.7	4.9
2	1.4	1.5	2.8	4.1	4.3
2.5	1.5	1.7	3.1	4.6	4.7
3	1.2	1.3	2.4	3.6	3.7
3.5	1.3	1.4	2.6	3.9	4.0
4	1.4	1.6	2.9	4.4	4.5
5	1.9	2.1	3.8	5.8	6.0
6	1.5	1.6	2.9	4.4	4.6
8	2.1	2.3	4.1	6.3	6.5
10	1.5	1.7	3.0	4.6	4.7
12	2.1	2.4	4.4	6.5	6.8
13	2.5	2.9	5.3	7.8	8.1
15	2.1	2.4	4.4	6.5	6.7
16	2.2	2.6	4.7	6.9	7.2
20	3.2	3.6	6.6	9.8	10.1
25	3.0	3.5	6.4	9.4	9.7
32	3.7	4.4	8.1	12.1	12.5
40	3.4	4.1	7.5	11.2	11.5
50	4.5	5.4	9.9	14.9	15.3
63	5.2	6.3	11.5	17.2	17.7

* Symmetrical load

D characteristic

	1p	1pN	2p	3p	3pN*
I_n [A]	P [W]	P [W]	P [W]	P [W]	P [W]
0.5	1.2	1.3	2.4	3.5	3.7
1	0.8	0.9	1.6	2.4	2.5
1.5	1.2	1.3	2.3	3.5	3.6
1.6	1.3	1.4	2.5	3.8	3.9
2	1.0	1.1	2.0	3.0	3.1
2.5	1.0	1.1	1.9	2.9	3.0
3	1.2	1.3	2.4	3.6	3.7
3.5	1.3	1.4	2.6	3.9	4.0
4	1.4	1.6	2.9	4.4	4.5
5	1.7	1.8	3.3	5.1	5.3
6	1.5	1.6	2.9	4.4	4.6
8	1.3	1.5	2.6	4.0	4.2
10	1.5	1.7	3.0	4.6	4.7
12	1.7	2.0	3.6	5.3	5.4
13	1.9	2.2	4.0	5.9	6.1
15	2.1	2.4	4.4	6.5	6.7
16	2.2	2.6	4.7	6.9	7.2
20	2.0	2.2	4.1	6.1	6.2
25	2.5	2.9	5.2	7.7	7.9
32	3.4	4.0	7.4	11.1	11.4
40	3.2	3.8	7.0	10.4	10.7

* Symmetrical load

POSSIBLE CONNECTION

25 mm² terminal BMS0, BMS6, BMS4, BOLF

Conductor cross-section	Number of single conductors, rigid, single-wire Cu conductors					
[mm²]	1	2	3	4	5	6
1,5	+	+	+	+	+	-
2,5	+	+	+	-	-	-
4	+	+	+	-	-	-
6	+	+	+	-	-	-
10	+	+	-	-	-	-
16	+	-	-	-	-	-
25	+	-	-	-	-	-

Conductor cross-section	Number of single conductors, rigid, multi-wire Cu conductors					
[mm²]	1	2	3	4	5	6
10	+	+	-	-	-	-
16	+	-	-	-	-	-
25	+	-	-	-	-	-

Conductor cross-section	Number of single-conductors, flexible Cu conductors					
[mm²]	1**	2*	3*	4*	5*	6*
1,5	+	-	-	+	+	-
2,5	+	-	+	-	-	-
4	+	+	+	-	-	-
6	+	+	+	-	-	-
10	+	+	-	-	-	-
16	+	-	-	-	-	-
25	+	-	-	-	-	-

*) Only without wire end and sleeve
**) Only with wire end and sleeve

Conductor cross-section	Combinations of different cross-sections of flexible Cu conductors with each other						
[mm²]	Permissible variations (without wire end sleeves)						
1,5	+	-	-	-	-	-	-
2,5	+	+	-	-	+	-	-
4	-	+	+	-	-	+	-
6	-	-	+	+	+	-	+
10	-	-	-	+	-	+	-
16	-	-	-	-	-	-	+
25	-	-	-	-	-	-	-

\+ Permissible
\- Not permissible

No combinations are permissible for rigid single- and multi-wire Cu conductors!