



MBN350

**MCB 3P 6kA B-50A 3M**

**Technical properties**

**Architecture**

Number of protected poles	3
Number of poles	3 P
Type of pole	3 P

**Functions**

Concurrently switching N-neutral	No
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**Configuration**

Number of modules	3
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**Connectivity**

Top connection alignment for modular devices	Aligned terminal
Bottom connection alignment for modular devices	Aligned terminal

**Main electrical features**

Rated short circuit breaking capacity $I_{cn}$ AC according IEC60898-1	6 kA
Rated operational voltage $U_e$	230 / 400 V
Type of supply voltage	AC
Frequency	50/60 Hz

**Voltage**

Rated insulation voltage	500 V
Rated impulse withstand voltage	4000 V

**Electric current**

Rated current	50 A
Rated service breaking capacity $I_{cs}$ AC according IEC 60898-1	6 kA
min/maxi threshold value of the AC thermal operation	1.13 / 1.45 $I_n$
Magnetic regulating current	3 / 5 $I_n$
min/maxi threshold value of the DC magnetic operation	4 / 7 $I_n$
min/maxi threshold value of the DC thermal operation	1.13 / 1.45 $I_n$
Breaking capacity on 1 pole for IT 400V NF 60947-2	3 kA
Rated short circuit breaking capacity $I_{cn}$ under 400V AC according IEC60898-1	6 kA

Rated ultimate short-circuit breaking capacity Icu under 400V AC IEC 60947-2	10 kA
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Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2	10 kA
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### Electric current / temperature

Rating current -25°C	63.7 A
Rating current -20°C	62.5 A
Rating current -15°C	61.4 A
Rating current -10°C	60.2 A
Rating current -5°C	59.1 A
Rating current 0°C	57.9 A
Rating current 5°C	56.6 A
Rating current 10°C	55.4 A
Rating current 15°C	54.1 A
Rating current 20°C	52.8 A
Rating current 25°C	51.4 A
Rating current 30°C	50 A
Rating current 35°C	48.5 A
Rating current 40°C	47 A
Rating current 45°C	45.4 A
Rating current 50°C	43.7 A
Rating current 55°C	42 A
Rating current 60°C	40.2 A
Rating current 65°C	38.3 A
Rating current 70°C	36.3 A

### Current correction factors

Correction factor of rating current for 2 devices placed side-by-side	1
Correction factor of rating current for 3 devices placed side-by-side	0.95
Correction factor of rating current for 4 and 5 devices placed side-by-side	0.9
Correction factor of rating current for 6 devices placed side-by-side	0.85
Correction factor of magnetic tripping with 100 Hz	1.1
Correction factor of magnetic tripping with 200 Hz	1.2
Correction factor of magnetic tripping with 400 Hz	1.5
Correction factor of magnetic tripping with 60 Hz	1

### Dimensions

Depth of installed product	70 mm
Height of installed product	83 mm
Width of installed product	52.5 mm

### Frequency

Frequency	50 to 60 Hz
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**Power**

Total power loss under IN	16.3 W
Power loss per pole at In	6.4 W

**Endurance**

Electric endurance in number of cycles	4000
Number of mechanical operations	20000

**Installation, mounting**

Type of top connection for modular devices	with screw
Tightening torque	2,8Nm
Type of Bottom Connection for modular devices	Blconnect

**Connection**

Connection cross-section of input and output with screws, for massive conductors	1 / 35 mm <sup>2</sup>
Connection cross section of access and exit with screws, for flexible conductor	1 / 25 mm <sup>2</sup>

**Standards**

Standard text	EN 60898-1
European directive WEEE	concerned

**Safety**

Protection index IP	IP20
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**Use conditions**

Operating temperature	-25...70 °C
Class of energy limitation I <sup>2</sup> t	3
Altitude	2000 m
Storage/transport temperature	-25...80 °C