

# MCB 1P 6kA C-63A 1M

## MSN163R

#### Architecture

Neutral position	without neutral
Number of protected poles	1
Number of poles	1 P
Type of pole	1 P
Fixing mode	DIN rail type O (symmetrical)
Curve	С
Connectivity	
Bottom connection alignement for modular devices	Aligned terminal
Top connection alignement for modular devices	Aligned terminal
Main electrical features	
	50/60 Hz
Main electrical features Frequency Rated short circuit breaking capacity Icn AC accordin	50/60 Hz g 6 kA
Frequency	
Frequency Rated short circuit breaking capacity Icn AC accordin	
Frequency Rated short circuit breaking capacity Icn AC accordin IEC60898-1	g 6 kA
Frequency Rated short circuit breaking capacity Icn AC accordin IEC60898-1 Type of supply voltage	g 6 kA
Frequency Rated short circuit breaking capacity Icn AC accordin IEC60898-1 Type of supply voltage Rated operational voltage Ue	g 6 kA
Frequency Rated short circuit breaking capacity Icn AC accordin IEC60898-1 Type of supply voltage Rated operational voltage Ue  Voltage	g 6 kA AC 240/415 V
Frequency Rated short circuit breaking capacity Icn AC accordin IEC60898-1 Type of supply voltage Rated operational voltage Ue  Voltage Rated insulation voltage	g 6 kA  AC 240/415 V  500 V

5/10 In

AC according IEC 60898-1

according IEC 60898-1

Magnetic regulating currrent at 40° C

60898-1

Rated service breaking capacity Ics AC according IEC 6 kA

min/maxi threshold value of the AC thermal operation 1,13/1,45 In

Rated service breaking capacity Ics under 240V AC

## Electric current / temperature

Rating current -15°C	79,87 A
Rating current -20°C	81,43 A
Rating current 0°C	75,21 A
Rating current 10°C	72,1 A
Rating current -10°C	78,28 A
Rating current 15°C	70,55 A
Rating current 20°C	68,99 A
Rating current 25°C	67,44 A
Rating current -25°C	82,98 A
Rating current 30°C	65,89 A
Rating current 35°C	64,33 A
Rating current 40°C	63 A
Rating current 45°C	61,22 A
Rating current 5°C	73,66 A
Rating current -5°C	76,76 A
Rating current 50°C	59,48 A
Rating current 55°C	58,12 A
Rating current 60°C	56,56 A
Rating current 65°C	55,01 A
Rating current 70°C	53,45 A

## **Current correction factors**

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
Correction factor of rating current for 2 devices place	d 1
side-by-side	
Correction factor of rating current for 3 devices place	d 0,95
side-by-side	
Correction factor of rating current for 4 and 5 devices	0,9
placed side-by-side	
Correction factor of rating current for 6 devices place	d 0,85
side-by-side	

### Power

Power loss per pole at In	7,43 W	
Total power loss under IN	7,43 W	

#### **Endurance**

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

### **Dimensions**

Depth of installed product	70 mm
Height of installed product	83 mm
Width of installed product	17,5 mm

## Installation, mounting

Type of top connection for modular devices	with screw
Tightening torque	2,8Nm
Type of bottom rail clip for modular devices	plastic
Type of Bottom Connection for modular devices	Blconnect
Bottom removability for modular devices	yes
Top removability for modular devices	no

## Connection

1 / 35mm²
1 / 25mm²
with screw
1/25 mm²
1/35 mm²

## Standards

Standard text	EN 60898-1, AS/NZS 60898-1
European directive WEEE	concerned

# Safety

Protection index IP	IP20	

## Use conditions

Degree of pollution according to IEC 60664 / IEC 60947-2	2
Operating temperature	-25 70 °C
Class of energy limitation I2t	3
Altitude	2000 m
Storage temperature	-25 to 80 °C
Air humidity protection	for all climates
Storage/transport temperature	-25 80 °C