

# MCB 1P 6/10kA C-50A 1M

**Product Datasheet** 

AICHILECTULE	Arc	hite	cture
--------------	-----	------	-------

1 P
1 P
С

# **Functions**

Concurrently switching N-neutral	no
----------------------------------	----

# Connectivity

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

### Main electrical features

Rated short circuit breaking capacity Icn AC according IEC60898-1	6 kA
Rated operational voltage Ue	230 / 400 V
Frequency	50/60 Hz

# Voltage

Rated insulation voltage	500 V
Rated impulse withstand voltage	4000 V

# Electric current

50 A
6 kA
1,13 / 1,45 ln
5 / 10 ln
7 / 15 ln
1,13 / 1,45 ln
3 kA
6 kA
10 kA
10 kA



Electric current / temperature	
Rating current -25°C	64,7 A
Rating current -20°C	63,5 A
Rating current -15°C	62,3 A
Rating current -10°C	61,1 A
Rating current -5°C	59,9 A
Rating current 0°C	58,7 A
Rating current 5°C	57,4 A
Rating current 10°C	56,1 A
Rating current 15°C	54,7 A
Rating current 20°C	53,4 A
Rating current 25°C	52 A
Rating current 30°C	50 A
Rating current 35°C	48,8 A
Rating current 40°C	47,7 A
Rating current 45°C	46,5 A
Rating current 50°C	45,3 A
Rating current 55°C	44,1 A
Rating current 60°C	43 A
Rating current 65°C	41,8 A
Rating current 70°C	40,6 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
Frequency	
Frequency	50 to 60 Hz
Power	
Total power loss under IN	5,2 W
Power loss per pole at In	5,2 W
i owei 1035 pei pole at III	5,2 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 top rail clip for modular devices	NA
Type of bottom rail clip for modular devices	metallic
Type of Bottom Connection for modular devices	Blconnect
Top removability for modular devices	no
Bottom removability for modular devices	no
360° product mounting position	yes
Connection	
Connection cross-section of input and output with screws, for massive conductors	1 / 35 mm²
Connection cross section of access and exit with screws, for flexible conductor	1 / 25 mm²
Type of connection	with screw
Standards	
Standard text	EN 60898-1
European directive WEEE	not concerned
Safety	
Protection index IP	IP20
Use conditions	
Operating temperature	-2570 °C
Degree of pollution according to IEC 60664 / IEC 60947-2	2
Class of energy limitation I <sup>2</sup> t	3
Altitude	2000 m
Air humidity protection	for all climates
Storage/transport temperature	-2580 °C