

6,83 A

7,14 A

5,24 A

5,03 A

4,81 A

## RCBO 1P 6kA C-6A 30mA type AC

Technische Merkmale		
Architecture		
Neutral position	right	
Number of protected poles	1	
Number of poles	1 F	
Type of pole	1 F	
Curve	C	
Main electrical features		
Frequency	50/60 Hz	
Rated short circuit breaking capacity Icn AC according IEC60898-1	6 kA	
Rated operational voltage Ue	230/240 V	
Voltage		
Rated insulation voltage	250 V	
Max operating voltage	253 V	
Rated impulse withstand voltage	4000 V	
Electric current		
Rated residual operating current	30 mA	
Rated short circuit breaking capacity Icn under 230V AC according IEC60898-1	6 kA	
Breaking and opening capacity	6 kA	
Magnetic regulating currrent at 40° C	5/10 In	
min/maxi threshold value of the AC thermal operation	1,13/1,45 ln	
Electric current / temperature		
Rating current -15°C	7,43 A	
Rating current -20°C	7,58 A	
Rating current 0°C	6,99 A	
Rating current 10°C	6,67 A	
Rating current -10°C	7,29 A	
Rating current 15°C	6,51 A	
Rating current 20°C	6,35 A	
Rating current 25°C	6,18 A	
Rating current -25°C	7,72 A	
Rating current 30°C	6 A	
Rating current 35°C	5,82 A	
Rating current 40°C	5,63 A	
Rating current 45°C	5,44 A	

Rating current 5°C

Rating current -5°C

Rating current 50°C

Rating current 55°C

Rating current 60°C



placed side-by-side Correction factor of rating current for 3 devices placed side-by-side Correction factor of rating current for 6 devices Correction factor of rating current for 6 devices placed side-by-side Correction factor of rating current for 6 devices placed side-by-side Correction factor of rating current for 6 devices placed side-by-side  Power  Power  Power Power loss per pole at In 1,24 W Total power loss under IN 1,5 W  Tripping Protected against nuisance tripping no  Endurance  Electric endurance in number of cycles 2000 Number of mechanical operations 1000  Dimensions  Depth of installed product 70 mm Height of installed product 115 mm Width of installed product 17,5 mm  Installation, mounting Tightening torque 2,1 Nm  Connection cross-section at output with screw, for 1/16 mm² flexible conductor Connection cross-section for rigid conductor, 1/25 mm² massive conductor Connection cross-section for rigid conductor, 1/25 mm² massive conductor Connection cross-section for rigid conductor, 1/25 mm² massive conductor Connection cross-section for rigid conductor, 1/25 mm² massive conductor Connection cross-section for rigid conductor, 1/25 mm² massive conductor Connection cross-section for rigid conductor, 1/25 mm² massive conductor Connection cross-section for rigid conductor, 1/25 mm² massive conductor Connection cross-section for rigid conductor, 1/25 mm² massive conductor Connection cross-section for rigid conductor, 1/25 mm² massive conductor Connection cross-section for rigid conductor, 1/25 mm² massive conductor Connection cross-section for rigid conductor, 1/25 mm² massive conductor Connection cross-section for rigid conductor, 1/25 mm² massive conductor Connection cross-section for rigid conductor, 1/25 mm² massive conductor Connection cross-section for rigid conductor, 1/25 mm² massive conductor Connection cross-section for rigid conductor, 1/25 mm² massive conductor Connection cross-section for rigid conductor, 1/25 mm² massive conductor Connection cross-section for rigid conductor, 1/25 mm²	Current correction factors	
placed side-by-side Correction factor of rating current for 4 and 5 devices placed side-by-side Correction factor of rating current for 6 devices placed side-by-side  Power  Power Power Power loss per pole at In 1,24 W Total power loss under IN 1,5 W Tripping Protected against nuisance tripping no Protected number of cycles 2000 Number of mechanical operations 1000 Number of installed product 115 mm Number of installed product 115 mm Number of installed product 115 mm Number of installed product 17,5 mm Number of Installed		1
devices placed side-by-side Correction factor of rating current for 6 devices placed side-by-side  Power Power Power Power loss per pole at In 1,24 W 1,5 W		0,95
Power Oss per pole at In 1,24 W Total power loss under IN 1,5 W Tripping Protected against nuisance tripping no Dimensions Electric endurance in number of cycles 2000 Number of mechanical operations 1000 Dimensions Dimensions Depth of installed product 70 mm Height of installed product 115 mm Width of installed product 17,5 mm Vistallation, mounting Tightening torque 2,1 Nm Connection Connection cross-section at output with screw, for flexible conductor Connection cross-section at output with screw, for massive conductor Connection cross-section for rigid conductor, 17,25 mm vistalladres with screws with screws of 1,25 mm vistalladres with screws Standards Standards Standards Standard text IEC 61009-1, EN 61009-1 European directive WEEE not concerned Safety Protection index IP 1P20		0,9
Power loss per pole at In 1,24 W Total power loss under IN 1,5 W Tripping Protected against nuisance tripping no  Endurance Electric endurance in number of cycles 2000 Number of mechanical operations 1000  Dimensions Depth of installed product 70 mm Height of installed product 115 mm Width of installed product 17,5 mm  Installation, mounting Tightening torque 2,1 Nm  Connection Connection cross-section at output with screw, for 1/16 mm² screws, with flexible conductor Connection cross-section at output with screw, for 1/25 mm² massive conductor Connection cross-section at output with screw, for 1/25 mm² upstream terminals with screws  Standards Standard text IEC 61009-1, EN 61009-1 European directive WEEE not concerned.  Safety Protection index IP		0,85
Tripping  Protected against nuisance tripping no  Endurance  Electric endurance in number of cycles 2000 Number of mechanical operations 1000  Dimensions  Depth of installed product 70 mm Height of installed product 115 mm Width of installed product 177,5 mm  Installation, mounting  Tightening torque 2,1Nm  Connection  Connection cross-section at output with screw, for flexible conductor Connection cross-section at output with screw, for massive conductor Connection cross-section at output with screw, for massive conductor Connection cross-section at output with screw, for massive conductor Connection cross-section at output with screw, for massive conductor Connection cross-section at output with screw, for massive conductor Connection cross-section at output with screw, for massive conductor Connection cross-section at output with screw, for massive conductor Connection cross-section for rigid conductor, upstream terminals with screws  Standards  Standards  Standard text IEC 61009-1, EN 61009-1 European directive WEEE not concerned  Safety Protection index IP	Power	
Tripping Protected against nuisance tripping no  Endurance Electric endurance in number of cycles 2000 Number of mechanical operations 1000  Dimensions Depth of installed product 70 mm Height of installed product 115 mm Width of installed product 17,5 mm Width of installed product 17,5 mm  Installation, mounting Tightening torque 2,1 Nm  Connection Connection cross-section at output with screw, for flexible conductor Connection cross-section of the access with 31/16 mm² screws, with flexible conductor Connection cross-section at output with screw, for massive conductor Connection cross-section at output with screw, for massive conductor Connection cross-section of the access with 1/25 mm² upstream terminals with screws  Standards Standards Standard text IEC 61009-1, EN 61009-1 European directive WEEE not concerned  Safety Protection index IP	Power loss per pole at In	1,24 W
Endurance  Electric endurance in number of cycles 2000 Number of mechanical operations 1000  Dimensions  Depth of installed product 70 mm Height of installed product 115 mm Width of installed product 17,5 mm  Installation, mounting  Tightening torque 2,1Nm  Connection  Connection cross-section at output with screw, for flexible conductor  Connection cross-section of the access with 1/16 mm² screws, with flexible conductor  Connection cross-section at output with screw, for 1/25 mm² massive conductor  Connection cross-section for rigid conductor, 1/25 mm² upstream terminals with screws  Standards  Standard text IEC 61009-1, EN 61009-1 European directive WEEE not concerned  Safety  Protection index IP	Total power loss under IN	1,5 W
Electric endurance in number of cycles 2000 Number of mechanical operations 1000  Dimensions  Depth of installed product 70 mm Height of installed product 115 mm Width of installed product 17,5 mm  Installation, mounting  Tightening torque 2,1 Nm  Connection  Connection cross-section at output with screw, for flexible conductor Connection cross-section of the access with 1/16 mm² screws, with flexible conductor Connection cross-section at output with screw, for massive conductor Connection pross-section of the access with 1/25 mm² screws, with flexible conductor Connection cross-section for rigid conductor, 1/25 mm² upstream terminals with screws  Standards  Standard text IEC 61009-1, EN 61009-1 European directive WEEE not concerned  Safety Protection index IP	Tripping	
Electric endurance in number of cycles  Number of mechanical operations  Dimensions  Depth of installed product  Peight of installed product  To mm  Width of installed product  Installation, mounting  Tightening torque  Connection  Connection cross-section at output with screw, for flexible conductor  Connection cross-section of the access with screws, with flexible conductor  Connection cross-section at output with screw, for massive conductor  Connection cross-section at output with screw, for massive conductor  Connection cross-section for rigid conductor, upstream terminals with screws  Standards  Standards  Standard text  IEC 61009-1, EN 61009-1  European directive WEEE not concerned  Safety  Protection index IP	Protected against nuisance tripping	no
Number of mechanical operations  Dimensions  Depth of installed product 70 mm Height of installed product 115 mm Width of installed product 17,5 mm  Installation, mounting  Tightening torque 2,1Nm  Connection  Connection  Connection cross-section at output with screw, for 1/16 mm² flexible conductor  Connection cross-section of the access with 1/16 mm² screws, with flexible conductor  Connection cross-section at output with screw, for 1/25 mm² massive conductor  Connection cross-section for rigid conductor, 1/25 mm² upstream terminals with screws  Standards  Standard text IEC 61009-1, EN 61009-1 European directive WEEE not concerned  Safety  Protection index IP	Endurance	
Dimensions  Depth of installed product 70 mm Height of installed product 115 mm Width of installed product 17,5 mm  Installation, mounting  Tightening torque 2,1Nm  Connection  Connection cross-section at output with screw, for flexible conductor  Connection cross-section of the access with screw, for massive conductor  Connection cross-section at output with screw, for massive conductor  Connection cross-section for rigid conductor, upstream terminals with screws  Standards  Standard text IEC 61009-1, EN 61009-1 European directive WEEE not concerned  Safety  Protection index IP	Electric endurance in number of cycles	2000
Depth of installed product 115 mm Height of installed product 117,5 mm Width of installed product 177,5 mm  Installation, mounting  Tightening torque 2,1 Nm  Connection  Connection cross-section at output with screw, for flexible conductor  Connection cross-section of the access with 1/16 mm² screws, with flexible conductor  Connection cross-section at output with screw, for massive conductor  Connection cross-section for rigid conductor, upstream terminals with screws  Standards  Standards  Standard text IEC 61009-1, EN 61009-1 European directive WEEE not concerned Safety  Protection index IP	Number of mechanical operations	1000
Height of installed product 115 mm Width of installed product 17,5 mm  Installation, mounting Tightening torque 2,1Nm  Connection  Connection cross-section at output with screw, for flexible conductor Connection cross-section of the access with screw, with flexible conductor Connection cross-section at output with screw, for massive conductor Connection cross-section for rigid conductor, upstream terminals with screws  Standards Standards Standard text IEC 61009-1, EN 61009-1 European directive WEEE not concerned Safety Protection index IP	Dimensions	
Installation, mounting Tightening torque 2,1Nm  Connection  Connection  Connection cross-section at output with screw, for flexible conductor  Connection cross-section of the access with screws, with flexible conductor  Connection cross-section at output with screw, for massive conductor  Connection cross-section at output with screw, for massive conductor  Connection cross-section for rigid conductor, upstream terminals with screws  Standards  Standards  Standard text IEC 61009-1, EN 61009-1  European directive WEEE not concerned  Safety  Protection index IP	Depth of installed product	70 mm
Installation, mounting  Tightening torque 2,1Nm  Connection  Connection cross-section at output with screw, for flexible conductor  Connection cross-section of the access with screws, with flexible conductor  Connection cross-section at output with screw, for massive conductor  Connection cross-section at output with screw, for massive conductor  Connection cross-section for rigid conductor, upstream terminals with screws  Standards  Standards  Standard text IEC 61009-1, EN 61009-1  European directive WEEE not concerned  Safety  Protection index IP	Height of installed product	115 mm
Tightening torque 2,1Nm  Connection  Connection cross-section at output with screw, for flexible conductor  Connection cross-section of the access with screws, with flexible conductor  Connection cross-section at output with screw, for massive conductor  Connection cross-section at output with screw, for massive conductor  Connection cross-section for rigid conductor, upstream terminals with screws  Standards  Standards  Standard text IEC 61009-1, EN 61009-1  European directive WEEE not concerned  Safety  Protection index IP	Width of installed product	17,5 mm
Connection  Connection cross-section at output with screw, for flexible conductor  Connection cross-section of the access with screws, with flexible conductor  Connection cross-section at output with screw, for massive conductor  Connection cross-section for rigid conductor, upstream terminals with screws  Standards  Standards  Standard text IEC 61009-1, EN 61009-1 European directive WEEE not concerned  Safety  Protection index IP	Installation, mounting	
Connection cross-section at output with screw, for flexible conductor  Connection cross-section of the access with screws, with flexible conductor  Connection cross-section at output with screw, for massive conductor  Connection cross-section for rigid conductor, upstream terminals with screws  Standards  Standard text IEC 61009-1, EN 61009-1 European directive WEEE not concerned.  Safety  Protection index IP	Tightening torque	2,1Nm
flexible conductor  Connection cross-section of the access with 1/16 mm² screws, with flexible conductor  Connection cross-section at output with screw, for massive conductor  Connection cross-section for rigid conductor, 1/25 mm² upstream terminals with screws  Standards  Standards  Standard text IEC 61009-1, EN 61009-1  European directive WEEE not concerned  Safety  Protection index IP	Connection	
screws, with flexible conductor  Connection cross-section at output with screw, for massive conductor  Connection cross-section for rigid conductor, upstream terminals with screws  Standards  Standard text IEC 61009-1, EN 61009-1  European directive WEEE not concerned  Safety  Protection index IP IP20		1/16 mm²
massive conductor  Connection cross-section for rigid conductor, upstream terminals with screws  Standards  Standard text IEC 61009-1, EN 61009-1 European directive WEEE not concerned  Safety  Protection index IP IP20		1/16 mm²
Standards Standard text IEC 61009-1, EN 61009-1 European directive WEEE not concerned  Safety Protection index IP IP20		1/25 mm²
Standard text IEC 61009-1, EN 61009-1 European directive WEEE not concerned  Safety  Protection index IP IP20		1/25 mm²
European directive WEEE not concerned  Safety  Protection index IP IP20	Standards	
Safety Protection index IP IP20	Standard text	IEC 61009-1, EN 61009-1
Protection index IP IP20	European directive WEEE	not concerned
	Safety	
Residual current type AC	Protection index IP	IP20
	Residual current type	AC



## Use conditions

Degree of pollution according to IEC 60664 / IEC 60947-2	2
Class of energy limitation I2t	3
Altitude	2000 m
Air humidity protection	Execution II