



## AE116Z

## RCBO electronic 1P 6kA C-16A 100mA type AC

## **Technical characteristics**

Architecture	Arc	hi	it	ec	t	u	r	e
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Neutral position	right
Number of protected poles	1
Number of poles	1 P
Type of pole	1 P
Curve	С
Functions	
Concurrently switching N-neutral	No
Configuration	
Configuration  Number of modules	1
Number of modules	1
Main electrical features	
Rated short circuit breaking capacity Icn AC according IEC60898-1	6 kA
Rated operational voltage Ue	230 / 240 V
Frequency	50/60 Hz
Voltage	
Rated insulation voltage	250 V
Max operating voltage	253 V
Rated impulse withstand voltage	4000 V
Electric current	
Rated residual operating current	100 mA
Rated current	16 A
Breaking and opening capacity	6 kA
min/maxi threshold value of the AC thermal operation	1.13 / 1.45 ln
Magnetic regulating currrent	5 / 10 ln
Rated short circuit breaking capacity Icn under 230V AC according IEC60898-1	6 kA
Electric current / temperature	
Rating current -25°C	22.23 A
Rating current -20°C	21.74 A
Rating current -15°C	21.23 A
Rating current -10°C	20.72 A
Rating current -5°C	20.19 A
Rating current 0°C	19.64 A

Rating current 15°C 11.9.9 Rating current 20°C 11.7 Rating current 20°C 16.6 Rating current 30°C 15.3 Rating current 35°C 15.3 Rating current 40°C 14.4.7 Rating current 40°C 14.4.7 Rating current 55°C 12.8 Rating current 55°C 12.8 Rating current 55°C 12.8 Rating current 55°C 12.8 Rating current 60°C 12.2  Current correction factors  Correction factor of rating current for 2 devices placed side-by-side 0 Correction factor of rating current for 3 devices placed side-by-side 0 Correction factor of rating current for 6 devices placed side-by-side 0  Dimensions  Depth of installed product 70 of the first placed side-by-side 15.5 of the f	Rating current 5°C	19.08 A
Rating current 15°C 17.9 Rating current 20°C 17. Rating current 20°C 16.6 Rating current 30°C 18. Rating current 30°C 19. Rating current 40°C 19. Rating current 55°C 19. Rating current 55°C 19. Rating current 60°C 19. Rating current 60°C 19. Rating current 60°C 19. Rating current 60°C 19. Current correction factors 19. Correction factor of rating current for 2 devices placed side-by-side 19. Correction factor of rating current for 3 19. Revices placed side-by-side 19. Correction factor of rating current for 4 and 5 devices placed side-by-side 19. Dimensions 19. Depth of installed product 19. Replaced side-by-side 19. Power 19. Frequency 50 to 60 Power 19. Tripping 19. Protected against nuisance tripping 19. Endurance 19. Endurance 19. Linear 19. Line	Rating current 10°C	18.51 A
Rating current 25°C 16.6 Rating current 30°C 15.3 Rating current 40°C 14.7 Rating current 40°C 14.7 Rating current 40°C 14.7 Rating current 50°C 13.3 Rating current 50°C 13.3 Rating current 50°C 12.8 Rating current 50°C 12.8 Rating current 60°C 12.2 Current correction factors  Currection factor of rating current for 2 devices placed side-by-side 0 Correction factor of rating current for 3 devices placed side-by-side 0 Correction factor of rating current for 4 and 5 devices placed side-by-side 0 Correction factor of rating current for 6 devices placed side-by-side 0  Dimensions  Depth of installed product 70 or devices placed side-by-side 0  Power 15.5  Frequency 50 to 60  Power 7  Total power loss under IN 4.7 Power loss per pole at In 2.88  Tripping Protected against nulsance tripping 2.88  Endurance 2.10  Installation, mounting 11  Tipptening torque 2.11  Connection Conses-section at output with screw, for missive conductor 1 1/25 m 1/25	Rating current 15°C	17.91 A
Rating current 30°C 15. Rating current 40°C 14.7 Rating current 40°C 14.7 Rating current 45°C 14.1 Rating current 45°C 14.1 Rating current 45°C 14.1 Rating current 55°C 12.8 Rating current 55°C 12.8 Rating current 60°C 12.2 Current correction factors  Correction factor of rating current for 2 devices placed side-by-side 0 0 Correction factor of rating current for 3 devices placed side-by-side 0 0 Correction factor of rating current for 6 devices placed side-by-side 0 0 Correction factor of rating current for 6 devices placed side-by-side 0 0 Correction factor of rating current for 6 devices placed side-by-side 10.5 Rating current for 6 devices placed side-by-side 10.5 Rating current for 6 Rating for first first first for first firs	Rating current 20°C	17.3 A
Rating current 35°C 15.3 Rating current 40°C 14.7 Rating current 45°C 14.1 Rating current 45°C 12.8 Rating current 55°C 12.8 Rating current 55°C 12.8 Rating current 60°C 12.2  Current correction factors  Correction factor of rating current for 2 devices placed side-by-side 0 Correction factor of rating current for 3 devices placed side-by-side 0 Correction factor of rating current for 4 and 5 devices placed side-by-side 0  Dimensions  Depth of installed product 70 in the first place of the first place	Rating current 25°C	16.66 A
Rating current 40°C 14.7 Rating current 45°C 14.1 Rating current 45°C 12.8 Rating current 55°C 12.8 Rating current 55°C 12.8 Rating current 60°C 12.2  Current correction factors  Currection factor of rating current for 2 devices placed side-by-side 0  Correction factor of rating current for 3 devices placed side-by-side 0  Correction factor of rating current for 4 and 5 devices placed side-by-side 0  Dimensions  Depth of installed product 70 installed product 115 installed product 12.8 installed product 12.8 installed product 12.8 installed product 13.8 installed product 14.7 installed product 15.8 installed product 1	Rating current 30°C	16 A
Rating current 40°C 14.7 Rating current 45°C 14.1 Rating current 55°C 12.8 Rating current 55°C 12.8 Rating current 60°C 12.2 Current correction factors Correction factor of rating current for 2 devices placed side-by-side 0 Correction factor of rating current for 3 devices placed side-by-side 0 Correction factor of rating current for 4 and 5 devices placed side-by-side 0 Correction factor of rating current for 6 devices placed side-by-side 0 Dimensions  Depth of installed product 70 installed product 115 installed product	Rating current 35°C	15.38 A
Rating current 50°C 12.8 Rating current 55°C 12.8 Rating current 60°C 12.2  Current correction factors  Correction factor of rating current for 2 devices placed side-by-side 0  Correction factor of rating current for 3 devices placed side-by-side 0  Correction factor of rating current for 4 and 5 devices placed side-by-side 0  Correction factor of rating current for 6 devices placed side-by-side 0  Dimensions  Depth of installed product 70 or devices placed side-by-side 15 or d		14.75 A
Rating current 55°C 12.8 Rating current 60°C 12.2  Current correction factors  Correction factor of rating current for 2 devices placed side-by-side 0  Correction factor of rating current for 3 devices placed side-by-side 0  Correction factor of rating current for 4 and 5 devices placed side-by-side 0  Correction factor of rating current for 6 devices placed side-by-side 0  Dimensions  Depth of installed product 70 melliphone 15 mel	Rating current 45°C	14.13 A
Rating current 60°C 12.2  Current correction factors Correction factors Correction factor of rating current for 2 devices placed side-by-side 0.  Correction factor of rating current for 3 devices placed side-by-side 0.  Correction factor of rating current for 4 and 5 devices placed side-by-side 0.  Correction factor of rating current for 6 devices placed side-by-side 0.  Dimensions	Rating current 50°C	13.5 A
Current correction factors  Correction factor of rating current for 2 devices placed side-by-side 0  Correction factor of rating current for 3 devices placed side-by-side 0  Correction factor of rating current for 4 and 5 devices placed side-by-side 0  Correction factor of rating current for 6 devices placed side-by-side 0  Dimensions  Depth of installed product 70 in the first side of t	Rating current 55°C	12.88 A
Correction factor of rating current for 2 devices placed side-by-side  Correction factor of rating current for 3 devices 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  Correction factor of rating current for 6 devices placed side-by-side  Dimensions  Depth of installed product  Pethod installed product  Frequency  Frequency  Frequency  Frequency  Frequency  Frequency  So to 60  Power  Total power loss under IN  4.74  Power loss per pole at In  2.88  Tripping  Endurance  Electric endurance in number of cycles  Number of mechanical operations  Installation, mounting  Tightening torque  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 for rigid	Rating current 60°C	12.25 A
devices placed side-by-side  Correction factor of rating current for 3 devices 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  Correction factor of rating current for 6 devices placed side-by-side  Dimensions  Depth of installed product  Frequency  Frequency  Frequency  Frequency  Frequency  Frequency  Total power loss under IN  Power loss per pole at In  2.86  Tripping  Protected against nuisance tripping  Endurance  Electric endurance in number of cycles  Number of mechanical operations  Installation, mounting  Tightening torque  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 for rigid	Current correction factors	
devices 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  Dimensions  Depth of installed product  Height of installed product  Width of installed product  Trequency  Frequency  Frequency  Fower  Total power loss under IN  Power loss per pole at In  2.88  Tripping  Protected against nuisance tripping  Endurance  Electric endurance in number of cycles  Number of mechanical operations  Installation, mounting  Tightening torque  Connection  Connection cross-section at output with screw, for flexible conductor  Connection cross-section at output with screw, for flexible conductor  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		1
5 devices placed side-by-side  Correction factor of rating current for 6 devices placed side-by-side  Dimensions  Depth of installed product  Height of installed product  Width of installed product  Frequency  Frequency  Frequency  50 to 60  Power  Total power loss under IN  A.74  Power loss per pole at In  2.88  Tripping  Protected against nuisance tripping  Endurance  Electric endurance in number of cycles  Number of mechanical operations  Installation, mounting  Tightening torque  Connection  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 for rigid		0.95
Dimensions  Depth of installed product  Height of installed product  Width of installed product  Frequency  Frequency  Frequency  Fower  Total power loss under IN  Power loss per pole at In  2.88  Tripping  Protected against nuisance tripping  Endurance  Electric endurance in number of cycles  Number of mechanical operations  Installation, mounting  Tightening torque  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  1 / 25 m  Connection cross-section at output with screw, for massive conductor  1 / 25 m  Connection cross-section for rigid		0.9
Depth of installed product 70 m Height of installed product 115 m Width of installed product 17.5 m  Frequency 17.5 m  Frequency 50 to 60 m  Power 17.5 m  Total power loss under IN 4.7 m Power loss per pole at In 2.80 m  Tripping 17.5 m  Fredurance 18.6 m  Electric endurance in number of cycles 20 m  Number of mechanical operations 10 m  Installation, mounting 19.5 m  Connection cross-section at output with screw, for flexible conductor 1 / 16 m  Connection cross-section at output with screw, for massive conductor 1 / 25 m  Connection cross-section at output with screw, for massive conductor 1 / 25 m  Connection cross-section at output with screw, for massive conductor 1 / 25 m  Connection cross-section at output with screw, for massive conductor 1 / 25 m  Connection cross-section at output with screw, for massive conductor 1 / 25 m  Connection cross-section of or rigid		0.85
Height of installed product 115 r Width of installed product 17.5 r  Frequency  Frequency  Fower  Total power loss under IN 4.74  Power loss per pole at In 2.88  Tripping  Protected against nuisance tripping  Endurance  Electric endurance in number of cycles 20  Number of mechanical operations 10  Installation, mounting  Tightening torque 2,11  Connection  Connection cross-section at output with screw, for flexible conductor 1/16 m  Connection cross-section at output with screw, for massive conductor 1/25 m  Connection cross-section at output with screw, for massive conductor 1/25 m  Connection cross-section for rigid	Dimensions	
Frequency  Frequency  Frequency  Fower  Total power loss under IN  Tripping  Protected against nuisance tripping  Endurance  Electric endurance in number of cycles  Number of mechanical operations  Installation, mounting  Tightening torque  Connection  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 of or rigid	Depth of installed product	70 mm
Frequency 50 to 60  Power  Total power loss under IN 4.74  Power loss per pole at In 2.88  Tripping  Protected against nuisance tripping  Endurance  Electric endurance in number of cycles 20  Number of mechanical operations 10  Installation, mounting  Tightening torque 2,11  Connection  Connection cross-section at output with screw, for flexible conductor 1/16 m  Connection cross-section at output with screw, for massive conductor 1/25 m  Connection cross-section for rigid	Height of installed product	115 mm
Frequency 50 to 60  Power  Total power loss under IN 4.74  Power loss per pole at In 2.88  Tripping  Protected against nuisance tripping  Endurance  Electric endurance in number of cycles 20  Number of mechanical operations 10  Installation, mounting  Tightening torque 2,1  Connection  Connection cross-section at output with screw, for flexible conductor 1/16 m  Connection cross-section at output with screw, for massive conductor 1/25 m  Connection cross-section for rigid	Width of installed product	17.5 mm
Power Installation, mounting  Tightening torque  Connection  Connection  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	Frequency	
Total power loss under IN 4.74  Power loss per pole at In 2.88  Tripping  Protected against nuisance tripping  Endurance  Electric endurance in number of cycles 20  Number of mechanical operations 10  Installation, mounting  Tightening torque 2,1  Connection  Connection cross-section at output with screw, for flexible conductor 1/16 m  Connection cross-section at output with screw, for massive conductor 1/25 m  Connection cross-section for rigid	Frequency	50 to 60 Hz
Protected against nuisance tripping  Endurance  Electric endurance in number of cycles 20 Number of mechanical operations 10 Installation, mounting  Tightening torque 2,1  Connection  Connection cross-section at output with screw, for flexible conductor 1/16 m  Connection cross-section at output with screw, for massive conductor 1/25 m  Connection cross-section for rigid	Power	
Tripping  Protected against nuisance tripping  Endurance  Electric endurance in number of cycles 20  Number of mechanical operations 10  Installation, mounting  Tightening torque 2,1  Connection  Connection cross-section at output with screw, for flexible conductor 1 / 16 m  Connection cross-section at output with screw, for massive conductor 1 / 25 m  Connection cross-section for rigid	Total power loss under IN	4.74 W
Protected against nuisance tripping  Endurance  Electric endurance in number of cycles 20  Number of mechanical operations 10  Installation, mounting  Tightening torque 2,1  Connection  Connection cross-section at output with screw, for flexible conductor 1/16 m  Connection cross-section at output with screw, for massive conductor 1/25 m  Connection cross-section for rigid	Power loss per pole at In	2.88 W
Endurance  Electric endurance in number of cycles 20  Number of mechanical operations 10  Installation, mounting  Tightening torque 2,1  Connection  Connection cross-section at output with screw, for flexible conductor 1/16 m  Connection cross-section at output with screw, for massive conductor 1/25 m  Connection cross-section for rigid	Tripping	
Electric endurance in number of cycles  Number of mechanical operations  Installation, mounting  Tightening torque  Connection  Connection  Connection cross-section at output with screw, for flexible conductor  Connection cross-section at output with screw, for massive conductor  1 / 16 m  Connection cross-section at output with screw, for massive conductor  1 / 25 m  Connection cross-section for rigid	Protected against nuisance tripping	No
Number of mechanical operations 10  Installation, mounting  Tightening torque 2,1  Connection  Connection cross-section at output with screw, for flexible conductor 1/16 m  Connection cross-section at output with screw, for massive conductor 1/25 m  Connection cross-section for rigid	Endurance	
Installation, mounting  Tightening torque 2,1  Connection  Connection cross-section at output with screw, for flexible conductor 1/16 m  Connection cross-section at output with screw, for massive conductor 1/25 m  Connection cross-section for rigid	Electric endurance in number of cycles	2000
Tightening torque 2,1  Connection  Connection cross-section at output with screw, for flexible conductor 1/16 m  Connection cross-section at output with screw, for massive conductor 1/25 m  Connection cross-section for rigid	Number of mechanical operations	1000
Connection  Connection cross-section at output with screw, for flexible conductor 1 / 16 m  Connection cross-section at output with screw, for massive conductor 1 / 25 m  Connection cross-section for rigid	Installation, mounting	
Connection cross-section at output with screw, for flexible conductor 1 / 16 m  Connection cross-section at output with screw, for massive conductor 1 / 25 m  Connection cross-section for rigid	Tightening torque	2,1Nm
screw, for flexible conductor 1 / 16 m  Connection cross-section at output with screw, for massive conductor 1 / 25 m  Connection cross-section for rigid	Connection	
screw, for massive conductor 1 / 25 m  Connection cross-section for rigid		1 / 16 mm²
		1 / 25 mm²
		1 / 25 mm²

Execution II

Sta	ndards	
264		

Air humidity protection

Standards	
Standard text	IEC 61009-1 ; EN 61009-1
Safety	
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 I <sup>2</sup> t	3
Altitude	2000 m