



AE110Z

RCBO electronic 1P 6kA C-10A 100mA type AC

Technical characteristics

Arc	h	it	ec	tι	ıre
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Architecture	
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	
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	10 A
Breaking and opening capacity	6 kA
min/maxi threshold value of the AC thermal operation	1.13 / 1.45 In
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	13.38 A
Rating current -20°C	13.11 A
Rating current -15°C	12.84 A
Rating current -10°C	12.55 A
Rating current -5°C	12.26 A
Rating current 0°C	11.97 A

Rating current 10°C 11.35 A Rating current 15°C 11.03 A Rating current 20°C 10.7 A Rating current 20°C 10.35 A Rating current 30°C 10.35 A Rating current 30°C 10.35 A Rating current 30°C 9.63 A Rating current 30°C 9.63 A Rating current 40°C 9.25 A Rating current 45°C 8.84 A Rating current 50°C 8.44 A Rating current 50°C 8.44 A Rating current 50°C 8.44 A Rating current 50°C 8.45 A Rating current 60°C 7.54 A Rating current 60°C 7.54 A Current correction factors Correction factor of rating current for 2 devices placed side-by-side 10.95 Correction factor of rating current for 3 devices placed side-by-side 0.95 Correction factor of rating current for 6 devices placed side-by-side 0.95 Correction factor of rating current for 6 Reting for installed product 70 mm Height of installed product 115 mm Width of installed product 17.5 mm Frequency 50 to 60 Hz Power Total power loss per pole at In 1.87 W Tripping No Endurance Electric endurance in number of cycles 2000 Number of mechanical operations 1000 Installation, mounting Triphening torque 2.1 Nm Connection cross-section at output with screw, for flexible conductor 1/15 mm² Connection cross-section at output with screw, for flexible conductor 1/25 mm² Connection cross-section at output with screw, for flexible conductor 1/25 mm² Connection cross-section at output with screw, for flexible conductor 1/25 mm² Connection cross-section at output with screw, for flexible conductor 1/25 mm² Connection cross-section at output with screw, for flexible conductor 1/25 mm² Connection cross-section for rigid	Paties assumed 500	11.66 A
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Rating current 30°C 9.63 A Rating current 40°C 9.25 A Rating current 40°C 8.86 A Rating current 45°C 8.86 A Rating current 50°C 8.44 A Rating current 60°C 7.54 A Current correction factors Currection 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 0.95 Correction factor of rating current for 6 devices placed side-by-side 0.95 Dimensions Depth of installed product 70 mm Height of installed product 11.5 mm Width of installed product 17.5 mm Frequency 50 to 60 Hz Power Total power loss under IN 2.58 W Power loss per pole at in 1.87 W Tripping Protected against nuisance tripping No Endurance Electric endurance in number of cycles 2000 Number of mechanical operations 1000 Installation, mounting Tightening torque 2.1 Nm Connection Connection cross-section at output with screw, for flexible conductor 1/15 mm² Connection cross-section at output with screw, for flexible conductor 1/25 mm² Connection cross-section at output with screw, for flexible conductor 1/25 mm² Connection cross-section at output with screw, for flexible conductor 1/25 mm² Connection cross-section at output with screw, for flexible conductor 1/25 mm² Connection cross-section at output with screw, for flexible conductor 1/25 mm² Connection cross-section for rigid	Rating current 20°C	10.7 A
Rating current 35°C 9.63 A Rating current 40°C 9.25 A Rating current 40°C 8.86 A Rating current 50°C 8.44 A Rating current 50°C 8.44 A Rating current 50°C 8.44 A Rating current 50°C 7.54 A Rating current 60°C 7.54 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 0.95 Correction factor of rating current for 6 devices placed side-by-side 0.95 Dimensions Depth of installed product 70 mm Height of installed product 115 mm Width of installed product 17.5 mm Frequency 50 to 60 Hz Power Total power loss under IN 2.58 W Power loss per pole at In 1.87 W Tripping Protected against nuisance tripping No Endurance Electric endurance in number of cycles 2000 Number of mechanical operations 1000 Installation, mounting Tightening torque 2,1Nm Connection Connection cross-section at output with screw, for flexible conductor 1,75 mm² Connection cross-section at output with screw, for flexible conductor 1,75 mm² Connection cross-section at output with screw, for flexible conductor 1,75 mm² Connection cross-section at output with screw, for flexible conductor 1,75 mm² Connection cross-section at output with screw, for flexible conductor 1,75 mm² Connection cross-section at output with screw, for flexible conductor 1,75 mm² Connection cross-section at output with screw, for flexible conductor 1,75 mm² Connection cross-section at output with screw, for flexible conductor 1,75 mm² Connection cross-section for rigid	Rating current 25°C	10.35 A
Rating current 40°C 9.25 A Rating current 45°C 8.86 A Rating current 50°C 8.44 A Rating current 55°C 8 A Rating current 55°C 8 A Rating current 60°C 7.54 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 0.95 Correction factor of rating current for 6 devices placed side-by-side 0.95 Dimensions Depth of installed product 70 mm Height of installed product 115 mm Width of installed product 17.5 mm Frequency 50 to 60 Hz Power Total power loss under IN 2.58 W Power loss per pole at In 1.87 W Tripping Protected against nuisance tripping No Endurance Electric endurance in number of cycles 2000 Number of mechanical operations 1000 Installation, mounting Tightening torque 2.1Nm Connection Connection cross-section at output with screw, for flexible conductor 1/25 mm² Connection cross-section at output with screw, for flexible conductor 1/25 mm² Connection cross-section at output with screw, for flexible conductor 1/25 mm² Connection cross-section at output with screw, for flexible conductor 1/25 mm² Connection cross-section at output with screw, for flexible conductor 1/25 mm² Connection cross-section at output with screw, for flexible conductor 1/25 mm² Connection cross-section for rigid	Rating current 30°C	10 A
Rating current 45°C 8.86 A Rating current 50°C 8.44 A Rating current 50°C 8.44 A Rating current 55°C 8.8 A Rating current 60°C 7.54 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 0.95 Correction factor of rating current for 6 devices placed side-by-side 0.95 Dimensions Depth of installed product 70 mm Height of installed product 115 mm Width of installed product 17.5 mm Frequency 50 to 60 Hz Power Total power loss under IN 2.58 W Power loss per pole at In 1.87 W Tripping Protected against nuisance tripping No Endurance Electric endurance in number of cycles 2000 Number of mechanical operations 1000 Installation, mounting Tightening torque 2.1Nm Connection Connection cross-section at output with screw, for flexible conductor 1/25 mm² Connection cross-section at output with screw, for flexible conductor 1/25 mm² Connection cross-section at output with screw, for flexible conductor 1/25 mm² Connection cross-section at output with screw, for flexible conductor 1/25 mm² Connection cross-section at output with screw, for massive conductor 1/25 mm² Connection cross-section at output with screw, for massive conductor 1/25 mm² Connection cross-section for rigid	Rating current 35°C	9.63 A
Rating current 50°C 8.44 A Rating current 55°C 8. A Rating current 60°C 7.54 A Rating current 60°C 7.55 A Rating current 60°C 7.55 A Rating current 60°C 7.55 A Rating current for 2 Redwices placed side-by-side 9.95 Correction factor of rating current for 3 Redwices placed side-by-side 9.95 Correction factor of rating current for 4 and 5 Redwices placed side-by-side 9.85 Correction factor of rating current for 6 Redwices placed side-by-side 9.85 Dimensions Depth of installed product 70 mm Width of installed product 115 mm Width of installed product 17.5 mm Frequency 50 to 60 Hz Power Total power loss under IN 2.58 W Power loss per pole at In 1.87 W Tripping Protected against nuisance tripping No Endurance Electric endurance in number of cycles 2000 Number of mechanical operations 1000 Installation, mounting Tightening torque 2,1Nm Connection Connection cross-section at output with screw, for flexible conductor 1/16 mm² Connection cross-section at output with screw, for flexible conductor 1/25 mm² Connection cross-section at output with screw, for flexible conductor 1/25 mm² Connection cross-section at output with screw, for flexible conductor 1/25 mm² Connection cross-section at output with screw, for flexible conductor 1/25 mm² Connection cross-section at output with screw, for massive conductor 1/25 mm² Connection cross-section for rigid	Rating current 40°C	9.25 A
Rating current 55°C 8 A Rating current 60°C 7.54 A Rating current 60°C 7.54 A Current correction factors Correction factor of rating current for 2 devices placed side-by-side 1.09.95 Correction factor of rating current for 3 devices placed side-by-side 0.9.95 Correction factor of rating current for 4 and 5 devices placed side-by-side 0.9.9 Correction factor of rating current for 6 devices placed side-by-side 0.85 Dimensions Depth of installed product 70 mm Height of installed product 115 mm Width of installed product 17.5 mm Frequency Frequency 50 to 60 Hz Power Total power loss under IN 2.58 W Power loss per pole at In 1.87 W Tripping Protected against nuisance tripping No Endurance Electric endurance in number of cycles 2000 Number of mechanical operations 1000 Installation, mounting Tightening torque 2,1Nm Connection Connection cross-section at output with screw, for flexible conductor 1/25 mm² Connection cross-section at output with screw, for flexible conductor 1/25 mm² Connection cross-section at output with screw, for flexible conductor 1/25 mm² Connection cross-section at output with screw, for flexible conductor 1/25 mm² Connection cross-section at output with screw, for massive conductor 1/25 mm² Connection cross-section for rigid	Rating current 45°C	8.86 A
Rating current 60°C 7.54 A Current correction factors Correction factor of rating current for 2 devices placed side-by-side 0.95 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 0.95 Correction factor of rating current for 6 devices placed side-by-side 0.95 Dimensions Depth of installed product 70 mm Width of installed product 115 mm Width of installed product 17.5 mm Width of installed product 17.5 mm Frequency 50 to 60 Hz Power Total power loss under IN 2.58 W Power loss per pole at in 1.87 W Tripping Protected against nuisance tripping No Endurance Electric endurance in number of cycles 2000 Number of mechanical operations 1000 Installation, mounting Trightening torque 2,1Nm Connection cross-section at output with screw, for flexible conductor 1/25 mm² Connection cross-section at output with screw, for flexible conductor 1/25 mm² Connection cross-section at output with screw, for flexible conductor 1/25 mm² Connection cross-section at output with screw, for flexible conductor 1/25 mm² Connection cross-section at output with screw, for flexible conductor 1/25 mm² Connection cross-section at output with screw, for flexible conductor 1/25 mm² Connection cross-section at output with screw, for flexible conductor 1/25 mm² Connection cross-section at output with screw, for flexible conductor 1/25 mm² Connection cross-section for rigid	Rating current 50°C	8.44 A
Current correction factors Correction factor of rating current for 2 devices placed side-by-side 0.95 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 0.99 Correction factor of rating current for 4 and 5 devices placed side-by-side 0.95 Dimensions Dimensions Depth of installed product 70 mm Height of installed product 115 mm Width of installed product 17.5 mm Frequency 50 to 60 Hz Power Total power loss under IN 2.58 W Power loss per pole at In 1.87 W Tripping Protected against nuisance tripping No Endurance Electric endurance in number of cycles 2000 Number of mechanical operations 1000 Installation, mounting Trightening torque 2,1Nm Connection Connection cross-section at output with screw, for flexible conductor 1,25 mm² Connection cross-section at output with screw, for flexible conductor 1,25 mm² Connection cross-section at output with screw, for flexible conductor 1,25 mm² Connection cross-section at output with screw, for massive conductor 1,25 mm² Connection cross-section for rigid	Rating current 55°C	8 A
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 0.99 Correction factor of rating current for 6 devices placed side-by-side 0.85 Dimensions Depth of installed product 70 mm Height of installed product 115 mm Width of installed product 17.5 mm Frequency 50 to 60 Hz Power Total power loss under IN 2.58 W Power loss per pole at In 1.87 W Tripping Endurance Electric endurance in number of cycles 2000 Number of mechanical operations 1000 Installation, mounting Tightening torque 2.1Nm Connection cross-section at output with screw, for flexible conductor 1/16 mm² Connection cross-section at output with screw, for flexible conductor 1/125 mm² Connection cross-section at output with screw, for flexible conductor 1/125 mm² Connection cross-section at output with screw, for massive conductor 1/25 mm² Connection cross-section at output with screw, for massive conductor 1/25 mm² Connection cross-section at output with screw, for massive conductor 1/25 mm² Connection cross-section for rigid	Rating current 60°C	7.54 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 O.95 Correction factor of rating current for 6 devices placed side-by-side Dimensions Depth of installed product Height of installed product To mm Width of installed product 115 mm Width of installed product Frequency Frequency Frequency Fower Total power loss under IN 2.58 W Power loss per pole at In 1.87 W 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 1/25 mm² Connection cross-section for rigid	Current correction factors	
devices placed side-by-side 0.95 Correction factor of rating current for 4 and 5 devices placed side-by-side 0.95 Correction factor of rating current for 6 devices placed side-by-side 0.85 Dimensions Depth of installed product 70 mm Height of installed product 115 mm Width of installed product 17.5 mm Frequency 50 to 60 Hz Power Total power loss under IN 2.58 W Power loss per pole at In 1.87 W Tripping Protected against nuisance tripping No Endurance Electric endurance in number of cycles 2000 Number of mechanical operations 1000 Installation, mounting Tightening torque 2.1Nm Connection Connection cross-section at output with screw, for flexible conductor 1/16 mm² Connection cross-section at output with screw, for massive conductor 1/25 mm² Connection cross-section at output with screw, for massive conductor 1/25 mm² Connection cross-section for rigid	Correction factor of rating current for 2 devices placed side-by-side	1
5 devices placed side-by-side 0,9 Correction factor of rating current for 6 devices placed side-by-side 0.85 Dimensions Depth of installed product 70 mm Height of installed product 115 mm Width of installed product 17.5 mm Frequency 50 to 60 Hz Power Total power loss under IN 2.58 W Power loss per pole at In 1.87 W Tripping Protected against nuisance tripping No Endurance Electric endurance in number of cycles 2000 Number of mechanical operations 1000 Installation, mounting Tightening torque 2,1Nm Connection Connection cross-section at output with screw, for flexible conductor 1/16 mm² Connection cross-section at output with screw, for flexible conductor 1/25 mm² Connection cross-section at output with screw, for massive conductor 1/25 mm² Connection cross-section for rigid	Correction factor of rating current for 3 devices placed side-by-side	0.95
Dimensions Depth of installed product 70 mm Height of installed product 115 mm Width of installed product 17.5 mm Frequency Frequency 50 to 60 Hz Power Total power loss under IN 2.58 W Power loss per pole at In 1.87 W Tripping Protected against nuisance tripping No Endurance Electric endurance in number of cycles 2000 Number of mechanical operations 1000 Installation, mounting Connection Connection Connection cross-section at output with screw, for flexible conductor 1/16 mm² Connection cross-section at output with screw, for massive conductor 1/25 mm² Connection cross-section for rigid	Correction factor of rating current for 4 and 5 devices placed side-by-side	0.9
Depth of installed product 115 mm Height of installed product 115 mm Width of installed product 17.5 mm Frequency 50 to 60 Hz Power Total power loss under IN 2.58 W Power loss per pole at In 1.87 W Tripping Protected against nuisance tripping No Endurance Electric endurance in number of cycles 2000 Number of mechanical operations 1000 Installation, mounting Tightening torque 2,1Nm Connection Connection cross-section at output with screw, for flexible conductor 1/16 mm² Connection cross-section at output with screw, for massive conductor 1/25 mm² Connection cross-section for rigid	Correction factor of rating current for 6 devices placed side-by-side	0.85
Height of installed product Width of installed product 17.5 mm Frequency Frequency Frequency Fower Total power loss under IN 2.58 W Power loss per pole at In 1.87 W Tripping Protected against nuisance tripping No Endurance Electric endurance in number of cycles 2000 Number of mechanical operations 1000 Installation, mounting Tightening torque 2,1Nm Connection Connection Connection cross-section at output with screw, for flexible conductor 1 / 16 mm² Connection cross-section at output with screw, for massive conductor 1 / 25 mm² Connection cross-section or rigid	Dimensions	
Frequency Frequency Frequency Fower Total power loss under IN Power loss per pole at In 1.87 W Tripping Protected against nuisance tripping No Endurance Electric endurance in number of cycles Number of mechanical operations 1000 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 mm² Connection cross-section at output with screw, for massive conductor 1 / 25 mm² Connection cross-section or rigid	Depth of installed product	70 mm
Frequency 50 to 60 Hz Power Total power loss under IN 2.58 W Power loss per pole at In 1.87 W Tripping Protected against nuisance tripping No Endurance Electric endurance in number of cycles 2000 Number of mechanical operations 1000 Installation, mounting Tightening torque 2,1Nm Connection Connection Connection cross-section at output with screw, for flexible conductor 1/16 mm² Connection cross-section at output with screw, for massive conductor 1/25 mm² Connection cross-section at output with screw, for massive conductor 1/25 mm² Connection cross-section for rigid	Height of installed product	115 mm
Frequency 50 to 60 Hz Power Total power loss under IN 2.58 W Power loss per pole at In 1.87 W Tripping Protected against nuisance tripping No Endurance Electric endurance in number of cycles 2000 Number of mechanical operations 1000 Installation, mounting Tightening torque 2,1Nm Connection Connection Connection cross-section at output with screw, for flexible conductor 1/16 mm² Connection cross-section at output with screw, for massive conductor 1/25 mm² Connection cross-section for rigid	Width of installed product	17.5 mm
Power loss under IN 2.58 W Power loss per pole at In 1.87 W Tripping Protected against nuisance tripping No Endurance Electric endurance in number of cycles 2000 Number of mechanical operations 1000 Installation, mounting Tightening torque 2,1Nm Connection Connection Connection cross-section at output with screw, for flexible conductor 1/16 mm² Connection cross-section at output with screw, for massive conductor 1/25 mm² Connection cross-section are output with screw, for massive conductor 1/25 mm² Connection cross-section for rigid	Frequency	
Total power loss under IN 2.58 W Power loss per pole at In 1.87 W Tripping Protected against nuisance tripping No Endurance Electric endurance in number of cycles Number of mechanical operations 1000 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 1 / 25 mm² Connection cross-section or rigid	Frequency	50 to 60 Hz
Protected against nuisance tripping Protected against nuisance tripping No 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 1 / 16 mm² Connection cross-section at output with screw, for massive conductor 1 / 25 mm² Connection cross-section for rigid	Power	
Tripping Protected against nuisance tripping No 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 1 / 16 mm² Connection cross-section at output with screw, for massive conductor 1 / 25 mm² Connection cross-section for rigid	Total power loss under IN	2.58 W
Protected against nuisance tripping No Endurance Electric endurance in number of cycles 2000 Number of mechanical operations 1000 Installation, mounting Tightening torque 2,1Nm Connection Connection cross-section at output with screw, for flexible conductor 1/16 mm² Connection cross-section at output with screw, for massive conductor 1/25 mm² Connection cross-section for rigid	Power loss per pole at In	1.87 W
Electric endurance in number of cycles 2000 Number of mechanical operations 1000 Installation, mounting Tightening torque 2,1Nm Connection Connection Connection cross-section at output with screw, for flexible conductor 1/16 mm² Connection cross-section at output with screw, for massive conductor 1/25 mm² 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 mm² Connection cross-section at output with screw, for massive conductor 1 / 25 mm² Connection cross-section for rigid	Protected against nuisance tripping	No
Number of mechanical operations 1000 Installation, mounting Tightening torque 2,1Nm Connection Connection Connection cross-section at output with screw, for flexible conductor 1/16 mm² Connection cross-section at output with screw, for massive conductor 1/25 mm² Connection cross-section for rigid	Endurance	
Tightening torque 2,1Nm Connection Connection cross-section at output with screw, for flexible conductor 1/16 mm² Connection cross-section at output with screw, for massive conductor 1/25 mm² Connection cross-section for rigid	Electric endurance in number of cycles	2000
Tightening torque 2,1Nm Connection Connection cross-section at output with screw, for flexible conductor 1/16 mm² Connection cross-section at output with screw, for massive conductor 1/25 mm² Connection cross-section for rigid	Number of mechanical operations	1000
Connection Connection cross-section at output with screw, for flexible conductor 1 / 16 mm² Connection cross-section at output with screw, for massive conductor 1 / 25 mm² Connection cross-section for rigid	Installation, mounting	
Connection cross-section at output with screw, for flexible conductor 1 / 16 mm² Connection cross-section at output with screw, for massive conductor 1 / 25 mm² Connection cross-section for rigid	Tightening torque	2,1Nm
Connection cross-section at output with screw, for massive conductor 1 / 16 mm² Connection cross-section at output with 1 / 25 mm² Connection cross-section for rigid	Connection	
screw, for massive conductor 1 / 25 mm ² Connection cross-section for rigid	Connection cross-section at output with screw, for flexible conductor	1 / 16 mm²
	Connection cross-section at output with screw, for massive conductor	1 / 25 mm²
	Connection cross-section for rigid conductor, upstream terminals with screws	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 ² t	3
Altitude	2000 m