



## NC332A

## MCB 3P 10kA C-32A 3M

## **Technical properties**

Architecture	Arc	hit	ect	ure
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Architecture	
Number of protected poles	3
Number of poles	3 P
Type of pole	3 P
Curve	С
Functions	
Concurrently switching N-neutral	No
Configuration	
Number of modules	3
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	10 kA
Rated operational voltage Ue	230 / 400 V
Type of supply voltage	AC
Frequency	50/60 Hz
Voltage	
Rated insulation voltage	500 V
Rated impulse withstand voltage	4000 V
Electric current	
Rated current	32 A
Rated service breaking capacity Ics AC according IEC 60898-1	7.5 kA
min/maxi threshold value of the AC thermal operation	1.13 / 1.45 ln
Magnetic regulating currrent	5 / 10 In
min/maxi threshold value of the DC magnetic operation	5 / 15 ln
min/maxi threshold value of the DC thermal operation	1.13 / 1.45 ln
Breaking capacity on 1 pole for IT 400V NF 60947-2	3 kA
Rated short circuit breaking capacity lcn under 400V AC according IEC60898-1	10 kA

Rated ultimate short-circuit breaking capacity Icu under 230V AC IEC 60947-2	15 kA
Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2	15 kA
Electric current / temperature	
Rating current -25°C	40.8 A
Rating current -20°C	40.1 /
Rating current -15°C	39.3 /
Rating current -10°C	38.6 A
Rating current -5°C	37.8 A
Rating current 0°C	37.1
Rating current 5°C	36.3
Rating current 10°C	35.5 /
Rating current 15°C	34.6 /
Rating current 20°C	33.8 /
Rating current 25°C	32.9 /
Rating current 30°C	32 /
Rating current 35°C	31.1 /
Rating current 40°C	30.1 /
Rating current 45°C	29.1 /
Rating current 50°C	28.1 /
Rating current 55°C	27.1
Rating current 60°C	26 /
Rating current 65°C	25 /
Rating current 70°C	24 /
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	2.0
Correction factor of rating current for 6 devices placed side-by-side	0.85
Correction factor of magnetic tripping with 100 Hz	1.:
Correction factor of magnetic tripping with 200 Hz	1.:
Correction factor of magnetic tripping with 400 Hz	1.:
Correction factor of magnetic tripping with 60 Hz	:
Dimensions	
Depth of installed product	70 mn
Height of installed product	83 mn
Width of installed product	52.5 mm
Frequency	
Frequency	50 to 60 Hz

	Power	
Electric endurance in number of cycles 10000 Number of mechanical operations 20000  Installation, mounting Type of top connection for modular devices with screw 11ghtening torque 2,8Nm 17ype of bottom rail clip for modular devices metallic 17ype of bottom rail clip for modular devices metallic 17ype of Bottom Connection for modular devices Bloomnect 17ype or Bottom Connection for modular devices No Bottom removability for modular devices No Standards 1,25 mm² 1,25	Total power loss under IN	12.3 W
Electric endurance in number of cycles 10000 Number of mechanical operations 20000  Installation, mounting Type of top connection for modular devices with screw 2,8Nm Type of top rail clip for modular devices NA Type of top rail clip for modular devices metallic 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 Bottom removability for modular devices No Top removability for modula	Power loss per pole at In	4.67 W
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 metallic Type of Bottom Connection for modular devices No Bottom removability for modular devices No Bottom removability for modular devices No  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  Equipment With transparent product label holder No  Standards 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 IPt 3 Altitude 2000 m	Endurance	
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  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  Equipment With transparent product label holder No  Standards 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 IPt 3 Altitude 2000 m	Electric endurance in number of cycles	10000
Type of top connection for modular devices Tightening torque 2,8Nm Type of top rail clip for modular devices NA Type of top rail clip for modular devices Type of bottom rail clip for modular devices Type of Bottom Connection for modular devices Blconnect Top removability for modular devices No Bottom removability for modular devices No Connection 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 Type of connection With transparent product label holder No Standards 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 Class of energy limitation IPt 3 Altitude 3,000 m	Number of mechanical operations	20000
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  Connection  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  Equipment  With transparent product label holder No  Standards  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 IPt 3  Altitude 2000 m	Installation, mounting	
Type of top rail clip for modular devices metallic 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  Connection  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  Equipment  With transparent product label holder No  Standards  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 I²t 3  Altitude 2000 m	Type of top connection for modular devices	with screw
Type of bottom rail clip for modular devices metallic Type of Bottom Connection for modular devices BIconnect Top removability for modular devices No Bottom removability for modular devices No  Connection  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  Equipment  With transparent product label holder No  Standards  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 I²t 3  Altitude 2000 m	Tightening torque	2,8Nm
Type of Bottom Connection for modular devices  Top removability for modular devices  No Bottom removability for modular devices  No  Connection  Connection  Connection cross-section of input and output with screws, for massive conductors  Connection cross section of access and exit with screws, for flexible conductor  Type of connection with screws  Equipment  With transparent product label holder  No  Standards  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  Class of energy limitation I²t 3  Altitude 2000 m	Type of top rail clip for modular devices	NA
devices Blconnect Top removability for modular devices No Bottom removability for modular devices No  Connection  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 screws  Equipment  With transparent product label holder No  Standards  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 I²t 3  Altitude 2000 m	Type of bottom rail clip for modular devices	metallic
Bottom removability for modular devices  Connection  Connection  Connection cross-section of input and output with screws, for massive conductors  Connection cross section of access and exit with screws, for flexible conductor  Type of connection  with screw  Equipment  With transparent product label holder  No  Standards  European directive WEEE  not concerned  Safety  Protection index IP  Use conditions  Operating temperature  -2570 °C  Degree of pollution according to IEC 60664 / IEC 60947-2  Class of energy limitation I²t  3  Altitude  Altitude		Blconnect
Connection  Connection cross-section of input and output with screws, for massive conductors  Connection cross section of access and exit with screws, for flexible conductor  Type of connection  Equipment  With transparent product label holder  No  Standards  European directive WEEE  not concerned  Safety  Protection index IP  Degree of pollution according to IEC 60664 / IEC 60947-2  Class of energy limitation I²t  Altitude  Altitude	Top removability for modular devices	No
Connection cross-section of input and output with screws, for massive conductors  Connection cross section of access and exit with screws, for flexible conductor  Type of connection  With screw  Equipment  With transparent product label holder  No  Standards  European directive WEEE  not concerned  Safety  Protection index IP  IP20  Use conditions  Operating temperature  Operating temperature  -2570 °C  Degree of pollution according to IEC 60664 / IEC 60947-2  Class of energy limitation I²t  3  Altitude  Altitude	Bottom removability for modular devices	No
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         Equipment       With transparent product label holder       No         Standards       Standards         European directive WEEE       not concerned         Safety       IP20         Use conditions       Use conditions         Operating temperature       -2570 °C         Degree of pollution according to IEC 60664 / IEC 60947-2       2         Class of energy limitation I²t       3         Altitude       2000 m	Connection	
with screws, for flexible conductor  Type of connection  with screw  Equipment  With transparent product label holder  No  Standards  European directive WEEE  not concerned  Safety  Protection index IP  IP20  Use conditions  Operating temperature  Operating temperature  -2570 °C  Degree of pollution according to IEC 60664 / IEC 60947-2  Class of energy limitation I²t  3  Altitude	•	1 / 35 mm²
Equipment  With transparent product label holder No  Standards  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 I²t 3  Altitude 2000 m		1 / 25 mm²
With transparent product label holder No  Standards  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 I²t 3  Altitude 2000 m	Type of connection	with screw
With transparent product label holder No  Standards  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 I²t 3  Altitude 2000 m	Equipment	
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 I²t 3  Altitude 2000 m		No
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 I²t 3  Altitude 2000 m	Standards	
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 I²t 3  Altitude 2000 m	European directive WEEE	not concerned
Use conditions  Operating temperature -2570 °C  Degree of pollution according to IEC 60664 / IEC 60947-2 2  Class of energy limitation I²t 3  Altitude 2000 m	Safety	
Operating temperature -2570 °C  Degree of pollution according to IEC 60664 / IEC 60947-2 2  Class of energy limitation I²t 3  Altitude 2000 m	Protection index IP	IP20
Degree of pollution according to IEC 60664 / IEC 60947-2 2  Class of energy limitation I²t 3  Altitude 2000 m	Use conditions	
IEC 60947-2 2 Class of energy limitation I²t 3 Altitude 2000 m	Operating temperature	-2570 °C
Altitude 2000 m		2
	Class of energy limitation I²t	3
Air humidity protection for all climates	Altitude	2000 m
	Air humidity protection	for all climates

-25...80 °C

Storage/transport temperature