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NDN332A

MCB 3P 10kA/15kA D-32A 3M

Technical characteristics

Rated current	32 A
Rated ultimate short-circuit breaking capa- city Icu under 400 V AC IEC 60947-2	15 kA
Rated current -25°C	39.04 A
Rated current at -20°C	38.45 A
Rated current -15°C	37.86 A
Rated current -10°C	37.25 A
Rated current -5°C	36.64 A
Rated current at 0°C	36.01 A
Rated current 5°C	35.37 A
Rated current 10°C	34.73 A
Rated current 15°C	34.06 A
Rated current at 20°C	33.39 A
Rated current 25°C	32.70 A
Rated current 30°C	32 A
Rated current 35°C	31.26 A
Rated current at 40°C	30.50 A
Rated current at 45°C	29.72 A
Rated current at 50°C	28.92 A
Rated current 55°C	28.10 A
Rated current 60°C	27.26 A
Rated current 65°C	26.38 A
Rated current 70°C	25.48 A
Architecture	
Type of pole	ЗР

Capacity

Number of modules

Installation, mounting

Nominal tightening torque top terminal	2.80 - 2.80 Nm
Nominal tightening torque down terminal	2.80 - 2.80 Nm
Nominal tightening torque	2.80 - 2.80 Nm
Type of bottom connection for modular	
devices	biconnect
Type of top connection for modular devices	Screw terminal

Rated short-circuit breaking capacity Icn AC according to IEC 60898-1 10 kA Voltage 400 - 400 V Rated operational voltage Ue 400 - 400 V Rated insulation voltage Ui 500 V Rated insulation voltage Ui 500 V Rated insulation voltage Ui 500 V Prequency 6,000 V Frequency 50 - 60 Hz Connection 1 - 35 mm² Cross-section of input and output with screws, for flex-lible conductors 1 - 25 mm² Cross-section of input and output with screws, for flex-lible conductors 1 - 35 mm² Cross-section of input with screws, for flex-lible conductors 1 - 35 mm² Safety 1 25 mm² Ingress Protection (IP) class IP20 Use conditions 2 2 Degree of pollution according to IEC 60664 / IEC 60664 / IEC 60947-2 2 2 Operating temperature -25 - 70 °C Power Total power loss under IN 12.30 W 20,000 20,000 Connection alignment for modular devices 4,000 30,000 20,000 20,000 20,000 20,000 20,000 20,000 20,000 20,000	360° mounting position possible	Yes
according to IEC 60898-1 10 kA Voltage Rated operational voltage Ue 400 - 400 V Type voltage supply AC Rated insulation voltage Ui 500 V Rated insulation voltage Ui 500 V Prequency 6,000 V Frequency 50 - 60 Hz Connection Cross-section of input and output with screws, for fixsible conductors 1 - 35 mm ² Cross-section of input and output with screws, for fixsible conductors 1 - 25 mm ² Cross-section of input with screws, for flex- libe conductors 1 - 25 mm ² Cross-section of input with screws, for flex- libe conductors 1 - 35 mm ² Safety Ingress Protection (IP) class IP20 Use conditions Degree of pollution according to IEC 60664 / IEC 60947-2 2 Operating temperature -25 - 70 °C Power Total power loss under IN 12.30 W Endurance Electric endurance in number of cycles 4,000 Number of mechanical operations 20,000 Connectivity Type of connection alignment for modular devices Aligned terminal Down connection alignment for modular devices Aligned terminal Dimensions Height 83 mm Width 52.50 mm	Main electrical attributes	
Rated operational voltage Ue 400 - 400 V Type voltage supply AC Rated insulation voltage Ui 500 V Rated insulation voltage Uimp 6,000 V Frequency 50 - 60 Hz Connection 1 - 35 mm² Cross-section of input and output with screws, for flex-ible conductors 1 - 35 mm² Cross-section of input and output with screws, for flex-ible conductors 1 - 25 mm² Cross-section of input with screws, for flex-ible conductors 1 - 35 mm² Cross-section of input with screws, for flex-ible conductors 1 - 35 mm² Cross-section of input with screws, for flex-ible conductors 1 - 35 mm² Safety 1 - 35 mm² Ingress Protection (IP) class IP20 Use conditions 1 - 25 mm² Degree of pollution according to IEC 60664 / IEC 60664 / IEC 60664 / IEC 60672 2 Connection 2 - 70 °C Power - Total power loss under IN 12.30 W Electric endurance in number of cycles 4,000 Number of mechanical operations 20,000 Connectivity - Type of connection Screw terminal Down connection alignment for modular Aligned terminal Down connection alignment for modular Aligned terminal Dimensions	Rated short-circuit breaking capacity Icn AC according to IEC 60898-1	10 kA
Type voltage supply AC Rated insulation voltage Ui 500 V Reted insulation voltage Uimp 6,000 V Frequency 50 - 60 Hz Connection 1 - 35 mm² Cross-section of input and output with screws, for massive conductors 1 - 35 mm² Cross-section of input and output with screws, for fixible conductors 1 - 25 mm² Cross-section of input with screws, for flex- ible conductors 1 - 35 mm² Cross-section of input with screws, for flex- ible conductors 1 - 35 mm² Safety 1 - 35 mm² Use conditions 1 - 35 mm² Degree of pollution according to IEC 60664 / IEC 60947-2 2 Operating temperature -25 - 70 °C Power 2 Total power loss under IN 12.30 W Endurance 20,000 Connection alignment for modular devices 4,000 Number of mechanical operations 20,000 Connectivity 2 Type of connection alignment for modular devices Aligned terminal Down connection alignment for modular devices Aligned terminal Dimensions 83 mm Height 83 mm	Voltage	
Rated insulation voltage Ui 500 V Rated insulation voltage Uimp 6,000 V Frequency 50 - 60 Hz Connection 1 - 35 mm² Cross-section of input and output with screws, for massive conductors 1 - 25 mm² Cross-section of input with screws, for flex-lible conductors 1 - 25 mm² Cross-section of input with screws, for flex-lible conductors 1 - 35 mm² Safety 1 - 35 mm² Safety 1 - 35 mm² Use conditions 1 - 35 mm² Degree of pollution according to IEC 60664 / 2 EC 60947-2 2 Operating temperature -25 - 70 °C Power 2 Total power loss under IN 12.30 W Endurance 2 Electric endurance in number of cycles 4.000 Number of mechanical operations 20.000 Connectivity 2 Type of connection alignment for modular devices Aligned terminal Down connection alignment for modular devices Aligned terminal Dimensions 2 3 Height 83 mm	Rated operational voltage Ue	400 - 400 V
Rated impulse withstand voltage Uimp 6,000 V Frequency 50 - 60 Hz Connection 1 - 35 mm² Cross-section of input and output with screws, for massive conductors 1 - 35 mm² Cross-section of input and output with screws, for flex-lible conductors 1 - 25 mm² Cross-section of input with screws, for flex-lible conductors 1 - 35 mm² Cross-section of input with screws, for flex-lible conductors 1 - 35 mm² Safety 1 - 35 mm² Use conditions 1 - 35 mm² Degree of pollution according to IEC 60664 / IEC 60664 / IEC 60647-2 2 Operating temperature -25 - 70 ° C Power 2 Total power loss under IN 12.30 W Electric endurance in number of cycles 4,000 Number of mechanical operations 20,000 Connectivity 2 Type of connection Screw terminal Top connection alignment for modular Aligned terminal Down connection alignment for modular Aligned terminal Down connection alignment for modular Aligned terminal Dimensions 83 mm Height 83 mm	Type voltage supply	AC
Frequency 50 - 60 Hz Connection I - 35 mm² Cross-section of input and output with screws, for massive conductors 1 - 35 mm² Cross-section of input and output with screws, for flex-lible conductors 1 - 25 mm² Cross-section of input with screws, for flex-lible conductors 1 - 35 mm² Cross-section of input with screws, for flex-lible conductors 1 - 35 mm² Cross-section of input with screws, for flex-lible conductors 1 - 35 mm² Safety Image: Seconductors 1 - 35 mm² Degree of pollution according to IEC 60664 / IEC 60647 / IEC 60947-2 2 2 Operating temperature -25 - 70 °C Power 2 Total power loss under IN 12.30 W 20.000 Endurance 20.000 20.000 20.000 Connectivity 10 power loss under IN 20.000 20.000 20.000 Connectivity Screw terminal 20.000 20.000 20.000 20.000 20.000 20.000 20.000 2	Rated insulation voltage Ui	500 V
Frequency 50 - 60 Hz Connection 1 - 35 mm² Cross-section of input and output with screws, for flexible conductors 1 - 25 mm² Cross-section of input with screws, for flex-ible conductors 1 - 25 mm² Cross-section of input with screws, for flex-ible conductors 1 - 35 mm² Cross-section of input with screws, for flex-ible conductors 1 - 35 mm² Cross-section of input with screws, for flex-ible conductors 1 - 35 mm² Safety 1 - 35 mm² Ingress Protection (IP) class IP20 Use conditions 2 Degree of pollution according to IEC 60664 / IEC 60664 / IEC 60947-2 2 Operating temperature -25 - 70 °C Power 2 Total power loss under IN 12.30 W Endurance 2,000 Connectivity 20,000 Type of connection alignment for cycles 4,000 Number of mechanical operations 20,000 Connection alignment for modular Aligned terminal Down connection alignment for modular Aligned terminal Dimensions 83 mm Height 83 mm	Rated impulse withstand voltage Uimp	6,000 V
Connection Cross-section of input and output with screws, for massive conductors 1 - 35 mm² Cross-section of input and output with screws, for flexible conductors 1 - 25 mm² Cross-section of input with screws, for flex- ible conductors 1 - 25 mm² Cross-section of input with screws, for massive conductors 1 - 35 mm² Safety 1 - 35 mm² Ingress Protection (IP) class IP20 Use conditions 2 Degree of pollution according to IEC 60664 / IEC 60947-2 2 Operating temperature -25 - 70 °C Power 2 Total power loss under IN 12.30 W Electric endurance in number of cycles 4,000 Number of mechanical operations 20,000 Connectivity 2 Type of connection Screw terminal Top connection alignment for modular Aligned terminal Down connection alignment for modular Aligned terminal Dimensions 83 mm Height 83 mm	Frequency	
Cross-section of input and output with screws, for massive conductors 1 - 35 mm² Cross-section of input and output with screws, for flexible conductors 1 - 25 mm² Cross-section of input with screws, for flex- ible conductors 1 - 25 mm² Cross-section of input with screws, for massive conductors 1 - 35 mm² Cross-section of input with screws, for massive conductors 1 - 35 mm² Safety 1 - 35 mm² Ungress Protection (IP) class IP20 Use conditions IP20 Degree of pollution according to IEC 60664 / IEC 60947.2 2 Operating temperature -25 - 70 °C Power -25 - 70 °C Total power loss under IN 12.30 W Endurance 20,000 Number of mechanical operations 20,000 Connectivity 20,000 Type of connection alignment for modular devices Aligned terminal Down connection alignment for modular devices Aligned terminal Dimensions 83 mm Width 52.50 mm	Frequency	50 - 60 Hz
screws, for massive conductors 1 - 35 mm² Cross-section of input and output with screws, for flexible conductors 1 - 25 mm² Cross-section of input with screws, for flex- ible conductors 1 - 25 mm² Cross-section of input with screws, for massive conductors 1 - 35 mm² Safety Ingress Protection (IP) class IP20 Use conditions Degree of pollution according to IEC 60664 / IEC 60947-2 2 Operating temperature -25 - 70 °C Power Total power loss under IN 12.30 W Endurance Electric endurance in number of cycles 4,000 Number of mechanical operations 20,000 Connectivity Type of connection alignment for modular devices Aligned terminal Down connection alignment for modular devices Aligned terminal Dimensions	Connection	
screws, for flexible conductors 1 - 25 mm² Cross-section of input with screws, for flex- ible conductors 1 - 25 mm² Cross-section of input with screws, for massive conductors 1 - 35 mm² Safety Ingress Protection (IP) class IP20 Use conditions Degree of pollution according to IEC 60664 / IEC 60947-2 2 Operating temperature -25 - 70 °C Power Total power loss under IN 12.30 W Endurance Electric endurance in number of cycles 4,000 Number of mechanical operations 20,000 Connectivity Type of connection alignment for modular devices Aligned terminal Down connection alignment for modular devices Aligned terminal Down connection alignment for modular devices Aligned terminal Down connection alignment for modular devices Aligned terminal Dimensions	Cross-section of input and output with screws, for massive conductors	1 - 35 mm²
ible conductors 1 - 25 mm² Cross-section of input with screws, for massive conductors 1 - 35 mm² Safety Ingress Protection (IP) class IP20 Use conditions IP20 Use conditions IP20 Operating temperature -25 - 70 °C Power -25 - 70 °C Total power loss under IN 12.30 W Endurance 2 Electric endurance in number of cycles 4,000 Number of mechanical operations 20,000 Connectivity Screw terminal Type of connection alignment for modular devices Aligned terminal Down connection alignment for modular devices Aligned terminal Dimensions 83 mm Width 52.50 mm	Cross-section of input and output with screws, for flexible conductors	1 - 25 mm²
massive conductors 1 - 35 mm² Safety Ingress Protection (IP) class IP20 Use conditions IP20 Degree of pollution according to IEC 60664 / IEC 60947-2 2 Operating temperature -25 - 70 °C Power -25 - 70 °C Total power loss under IN 12.30 W Electric endurance in number of cycles 4,000 Number of mechanical operations 20,000 Connectivity 20,000 Type of connection alignment for modular devices Aligned terminal Down connection alignment for modular devices Aligned terminal Dimensions 83 mm Width 52.50 mm	Cross-section of input with screws, for flex- ible conductors	1 - 25 mm²
Ingress Protection (IP) class IP20 Use conditions Degree of pollution according to IEC 60664 / IEC 60947-2 2 Operating temperature -25 - 70 °C Power Total power loss under IN 12.30 W Endurance Electric endurance in number of cycles 4,000 Number of mechanical operations 20,000 Connectivity Type of connection alignment for modular devices Aligned terminal Down connection alignment for modular devices Aligned terminal Dimensions Height 83 mm Width 52.50 mm	Cross-section of input with screws, for massive conductors	1 - 35 mm²
Use conditions Degree of pollution according to IEC 60664 / IEC 60947-2 2 2 Operating temperature -25 - 70 °C Power Total power loss under IN 12.30 W Endurance Electric endurance in number of cycles 4,000 Number of mechanical operations 20,000 Connectivity Type of connection alignment for modular devices Aligned terminal Down connection alignment for modular devices Aligned terminal Down connection alignment for modular Height 83 mm Width 52.50 mm	Safety	
Degree of pollution according to IEC 60664 / IEC 60947-2 2 Operating temperature -25 - 70 °C Power Total power loss under IN 12.30 W Endurance Electric endurance in number of cycles 4,000 Number of mechanical operations 20,000 Connectivity Type of connection Screw terminal Top connection alignment for modular devices Aligned terminal Down connection alignment for modular devices Aligned terminal Down connection alignment for modular devices Aligned terminal Dimensions Height 83 mm Width 52.50 mm	Ingress Protection (IP) class	IP20
IEC 60947-2 2 Operating temperature -25 - 70 °C Power Total power loss under IN 12.30 W Endurance Electric endurance in number of cycles 4,000 Number of mechanical operations 20,000 Connectivity Type of connection Screw terminal Top connection alignment for modular devices Aligned terminal Down connection alignment for modular devices Aligned terminal Dimensions Height 83 mm Width 52.50 mm	Use conditions	
Power Total power loss under IN 12.30 W Endurance 12.30 W Electric endurance in number of cycles 4,000 Number of mechanical operations 20,000 Connectivity 20,000 Type of connection Screw terminal Top connection alignment for modular devices Aligned terminal Down connection alignment for modular devices Aligned terminal Dimensions 83 mm Height 83 mm	Degree of pollution according to IEC 60664 / IEC 60947-2	2
Total power loss under IN 12.30 W Endurance 12.30 W Electric endurance in number of cycles 4,000 Number of mechanical operations 20,000 Connectivity 20,000 Type of connection Screw terminal Top connection alignment for modular devices Aligned terminal Down connection alignment for modular devices Aligned terminal Dimensions 83 mm Width 52.50 mm	Operating temperature	-25 - 70 °C
Endurance Electric endurance in number of cycles 4,000 Number of mechanical operations 20,000 Connectivity 20,000 Type of connection Screw terminal Top connection alignment for modular devices Aligned terminal Down connection alignment for modular devices Aligned terminal Dimensions Height 83 mm Width 52.50 mm	Power	
Electric endurance in number of cycles 4,000 Number of mechanical operations 20,000 Connectivity	Total power loss under IN	12.30 W
Number of mechanical operations 20,000 Connectivity Type of connection Top connection alignment for modular devices Aligned terminal Down connection alignment for modular devices Aligned terminal Dimensions Height 83 mm Width 52.50 mm	Endurance	
Connectivity Type of connection Top connection alignment for modular devices Down connection alignment for modular devices Diwn connection alignment for modular devices Dimensions Height 83 mm Width 52.50 mm	Electric endurance in number of cycles	4,000
Type of connection Screw terminal Top connection alignment for modular devices Aligned terminal Down connection alignment for modular devices Aligned terminal Dimensions Height 83 mm Width 52.50 mm	Number of mechanical operations	20,000
Top connection alignment for modular devices Aligned terminal Down connection alignment for modular devices Aligned terminal Dimensions Height 83 mm Width 52.50 mm	Connectivity	
devices Aligned terminal Down connection alignment for modular Aligned terminal devices Aligned terminal Dimensions 83 mm Width 52.50 mm	Type of connection	Screw terminal
devices Aligned terminal Dimensions 83 mm Height 83 mm Width 52.50 mm	Top connection alignment for modular devices	Aligned terminal
Height 83 mm Width 52.50 mm	Down connection alignment for modular devices	Aligned terminal
Width 52.50 mm	Dimensions	
	Height	83 mm
Depth 70 mm	Width	52.50 mm
	Depth	70 mm