



NGN463



## MCB 4P 6/10kA D-63A 4M

## **Technical properties**

Arc	hi	tec	ctu	re
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Architecture	
Neutral position	without neutral
Number of protected poles	4
Number of poles	4 P
Type of pole	4 P
Curve	D
Functions	
Concurrently switching N-neutral	No
Configuration	
Number of modules	4
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	6 kA
Rated operational voltage Ue	400 V
Type of supply voltage	AC
Voltage	
Rated insulation voltage	500 V
Rated impulse withstand voltage	6000 V
Minimum threshold voltage (Ue min)	12 V
Electric current	
Rated current	63 A
Rated service breaking capacity Ics AC according IEC 60898-1	6 kA
min/maxi threshold value of the AC thermal operation	1.13 / 1.45 In
Magnetic regulating currrent	10 / 14.4 In
min/maxi threshold value of the DC magnetic operation	15 / 30 In
min/maxi threshold value of the DC thermal operation	1.13 / 1.45 In
Rating current -10°C according to IEC 60947	83.72 A

Rating current -15°C according to IEC 60947	85.22 A
Rating current -20°C according to IEC 60947	86.7 A
Rating current -25°C according to IEC 60947	88.15 A
Rating current -5°C according to IEC 60947	82.2 A
Rating current 0°C according to IEC 60947	80.64 A
Rating current 10°C according to IEC 60947	77.43 A
Rating current 15°C according to IEC 60947	75.78 A
Rating current 20°C according to IEC 60947	74.09 A
Rating current 25°C according to IEC 60947	72.36 A
Rating current 30°C according to IEC 60947	70.59 A
Rating current 35°C according to IEC 60947	68.77 A
Rating current 40°C according to IEC 60947	66.9 A
Rating current 45°C according to IEC 60947	64.98 A
Rating current 5°C according to IEC 60947	79.05 A
Rating current 50°C according to IEC 60947	63 A
Rating current 55°C according to IEC 60947	60.26 A
Rating current 60°C according to IEC 60947	57.38 A
Rating current 65°C according to IEC 60947	54.35 A
Rating current 70°C according to IEC 60947	51.14 A
Rated short circuit breaking capacity Icn under 230V AC according IEC60898-1	10 kA
Rated short circuit breaking capacity Icn under 400V AC according IEC60898-1	6 kA
Rated ultimate short-circuit breaking capacity Icu under 230V AC IEC 60947-2	20 kA
Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2	20 kA
Rated ultimate short-circuit breaking capacity Icu under 400V AC IEC 60947-2	10 kA
Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2	10 kA
Rated short circuit breaking capacity Icn under 240V AC according IEC 60898-1	10 kA
Rated short circuit breaking capacity Icn under 415V AC according IEC 60898-1	6 kA
Rated ultimate short-circuit breaking capacity Icu under 220V AC IEC 60947-2	20 kA
Rated ultimate short-circuit breaking capacity Icu under 380V AC IEC 60947-2	10 kA
Electric current / temperature	
Rating current -25°C	78.67 A
Rating current -20°C	77.38 A
Rating current -15°C	76.06 A
Rating current -10°C	74.72 A
Rating current -5°C	73.36 A
Rating current 0°C	71.97 A
Rating current 5°C	70.56 A
Rating current 10°C	69.11 A

Rating current 40°C Rating current 55°C Rating current 55°C Rating current 55°C Rating current 60°C Rating current 70°C  Current correction factors  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 6 devices placed side-by-side Correction factor of magnetic tripping with 100 Hz Correction factor of magnetic tripping with 200 Hz Correction factor of magnetic tripping with 400 Hz Correction factor of magnetic tripping with 60 Hz  Dimensions Depth of installed product Reight of	Rating current 25°C	64.58 A
Rating current 40°C Rating current 45°C Rating current 45°C Rating current 55°C Rating current 60°C Rating current 60°C Rating current 65°C Rating current 70°C  Current correction factors  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 6 devices placed side-by-side Correction factor of rating current for 6 devices placed side-by-side Correction factor of magnetic tripping with 100 Hz  Correction factor of magnetic tripping with 200 Hz  Correction factor of magnetic tripping with 400 Hz  Correction factor of magnetic tripping with 60 Hz  Pimensions  Depth of installed product Reight of installed product Reight of installed product Rating proper pole according to the product standard  Total power loss per pole according to the product standard  Total power loss under IN Power Bating power loss per pole according to the product standard  Total power loss under IN Power loss per pole according to the product standard  Total power loss under IN Power loss per pole according to the product standard  Total power loss under IN Power loss per pole according to the product standard  Total power loss under IN Power loss per pole according to the product standard  Total power loss under IN Power loss per pole according to the product standard  Total power loss under IN Power loss per pole according to the product standard  Total power loss under IN Power loss per pole according to the product standard  Total power loss under IN Power loss per pole according to the product standard  Total power loss per pole according to the product standard  Total power loss per pole according to the product standard  Total power loss per pole according to the product standard  Total power loss per pole according to the product standard  Total power loss per pole according to the product sta	Rating current 30°C	63 A
Rating current 45°C Rating current 50°C Rating current 50°C Rating current 60°C Rating current 65°C Rating current 70°C  Current correction factors  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 6 devices placed side-by-side Correction factor of rating current for 6 devices placed side-by-side Correction factor of magnetic tripping with 100 Hz  Correction factor of magnetic tripping with 200 Hz  Correction factor of magnetic tripping with 60 Hz  Power Maximum for magnetic tripping with 60 Hz  Frequency Freq	Rating current 35°C	60.96 A
Rating current 50°C 5. Rating current 60°C 4.5 Rating current 60°C 4.5 Rating current 60°C 4.5 Rating current 65°C 4.6 Rating current 65°C 4.6 Rating current 70°C 4.6 Rating current 70°C 4.6 Rating current 70°C 4.6 Currection factor of rating current for 2 devices placed side-by-side 6.7 Correction factor of rating current for 3 devices placed side-by-side 6.7 Correction factor of rating current for 4 and 5 devices placed side-by-side 6.7 Correction factor of rating current for 6 devices placed side-by-side 7.7 Correction factor of magnetic tripping with 100 Hz 7.7 Correction factor of magnetic tripping with	Rating current 40°C	58.86 A
Rating current 55°C	Rating current 45°C	56.68 A
Rating current 60°C 48 Rating current 65°C 44 Rating current 65°C 44 Rating current 70°C 44  Current correction factors  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 magnetic tripping with 100 Hz  Correction factor of magnetic tripping with 200 Hz  Correction factor of magnetic tripping with 400 Hz  Pomensions  Depth of installed product 7  Height of installed product 7  Frequency 50 to 7  Power  Maximum power loss per pole according to the product standard  Total power loss under IN 6  Endurance  Electric endurance in number of cycles  Number of mechanical operations 2  Installation, mounting  Type of top connection for modular devices with	Rating current 50°C	54.4 A
Rating current 65°C 448 Rating current 70°C 442  Current correction factors  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 magnetic tripping with 100 Hz  Correction factor of magnetic tripping with 200 Hz  Correction factor of magnetic tripping with 400 Hz  Correction factor of magnetic tripping with 60 Hz  Dimensions  Depth of installed product 7  Height of installed product 7  Frequency 50 to  Power  Maximum power loss per pole according to the product standard 7  Total power loss under IN 2  Power loss per pole at In 6  Endurance  Electric endurance in number of cycles  Number of mechanical operations 2  Installation, mounting  Type of top connection for modular devices 3  with Tightening torque 2	Rating current 55°C	52.03 A
Rating current 70°C  Current correction factors  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 magnetic tripping with 100 Hz  Correction factor of magnetic tripping with 200 Hz  Correction factor of magnetic tripping with 400 Hz  Correction factor of magnetic tripping with 60 Hz  Dimensions  Depth of installed product 7  Height of installed product 8  Width of installed product 7  Frequency 50 to  Power  Maximum power loss per pole according to the product standard 7  Total power loss under IN 2  Power loss per pole at In 6  Endurance  Electric endurance in number of cycles  Number of mechanical operations 2  Installation, mounting  Type of top connection for modular devices with 15 devices and 2  Eight ending to rouge 2  With Tightening torque 2	Rating current 60°C	49.55 A
Current 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 4 and 5 devices placed side-by-side  Correction factor of rating current for 6 devices placed side-by-side  Correction factor of magnetic tripping with 100 Hz  Correction factor of magnetic tripping with 200 Hz  Correction factor of magnetic tripping with 400 Hz  Correction factor of magnetic tripping with 60 Hz  Pimensions  Depth of installed product 7  Height of installed product 7  Frequency 50 to Power  Maximum power loss per pole according to the product standard 7  Total power loss under IN 2  Power loss per pole at In 6  Endurance  Electric endurance in number of cycles  Number of mechanical operations 2  Installation, mounting  Type of top connection for modular devices with	Rating current 65°C	46.94 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 magnetic tripping with 100 Hz  Correction factor of magnetic tripping with 200 Hz  Correction factor of magnetic tripping with 400 Hz  Correction factor of magnetic tripping with 60 Hz  Pimensions  Depth of installed product 7  Height of installed product 8  Width of installed product 7  Frequency 50 to Power  Maximum power loss per pole according to the product standard 7  Total power loss under IN 2  Power loss per pole at In 6  Endurance  Electric endurance in number of cycles  Number of mechanical operations 2  Installation, mounting  Type of top connection for modular devices with 15 devices 2  with 15 devices 1 and 5 devices 4 with 15 devices 4 with 15 devices 4 with 15 devices 5 with 15 devices 5 with 15 devices 6 with 15 devices 7 with 15 devices 6 with 15 devices 7 with 15 devices 8 with 15 devices 8 with 15 devices 9 with 15 device	Rating current 70°C	44.17 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 magnetic tripping with 100 Hz  Correction factor of magnetic tripping with 200 Hz  Correction factor of magnetic tripping with 400 Hz  Correction factor of magnetic tripping with 500 Hz  Dimensions  Depth of installed product 7  Height of installed product 7  Frequency 50 to  Power  Maximum power loss per pole according to the product standard  Total power loss under IN 2  Power loss under IN 6  Endurance  Electric endurance in number of cycles  Number of mechanical operations 2  Installation, mounting  Type of top connection for modular devices with	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  Correction factor of magnetic tripping with 100 Hz  Correction factor of magnetic tripping with 200 Hz  Correction factor of magnetic tripping with 400 Hz  Correction factor of magnetic tripping with 60 Hz  Dimensions  Depth of installed product 7  Height of installed product 8  Width of installed product 7  Frequency 50 to  Power  Maximum power loss per pole according to the product standard 10-total power loss under IN 2  Power loss per pole at In 6  Endurance  Electric endurance in number of cycles  Number of mechanical operations 2  Installation, mounting  Type of top connection for modular devices with 15 devices		1
5 devices placed side-by-side  Correction factor of rating current for 6 devices placed side-by-side  Correction factor of magnetic tripping with 100 Hz  Correction factor of magnetic tripping with 200 Hz  Correction factor of magnetic tripping with 400 Hz  Correction factor of magnetic tripping with 400 Hz  Correction factor of magnetic tripping with 60 Hz  Dimensions  Depth of installed product 7  Height of installed product 8  Width of installed product 7  Frequency 50 to  Power  Maximum power loss per pole according to the product standard 7  Total power loss under IN 2  Power loss per pole at In 6  Endurance  Electric endurance in number of cycles  Number of mechanical operations 2  Installation, mounting  Type of top connection for modular devices with 15 in 10 in	3	0.95
devices placed side-by-side  Correction factor of magnetic tripping with 100 Hz  Correction factor of magnetic tripping with 200 Hz  Correction factor of magnetic tripping with 400 Hz  Correction factor of magnetic tripping with 400 Hz  Correction factor of magnetic tripping with 60 Hz  Dimensions  Depth of installed product 7  Height of installed product 8  Width of installed product 7  Frequency  Frequency 50 to  Power  Maximum power loss per pole according to the product standard 10 the product standar		0.9
Correction factor of magnetic tripping with 200 Hz  Correction factor of magnetic tripping with 400 Hz  Correction factor of magnetic tripping with 60 Hz  Dimensions  Depth of installed product 7  Height of installed product 7  Frequency  Frequency  Frequency 50 to  Power  Maximum power loss per pole according to the product standard  Total power loss under IN 2  Power loss per pole at In 6  Endurance  Electric endurance in number of cycles  Number of mechanical operations 2  Installation, mounting  Type of top connection for modular devices with  Tightening torque 2	5	0.85
200 Hz  Correction factor of magnetic tripping with 400 Hz  Correction factor of magnetic tripping with 60 Hz  Dimensions  Depth of installed product 7  Height of installed product 8  Width of installed product 7  Frequency  Frequency  Frequency 50 to  Power  Maximum power loss per pole according to the product standard 7  Total power loss under IN 2  Power loss per pole at In 6  Endurance  Electric endurance in number of cycles  Number of mechanical operations 2  Installation, mounting  Type of top connection for modular devices with 7  Tightening torque 2		1.1
A00 Hz  Correction factor of magnetic tripping with 60 Hz  Dimensions  Depth of installed product 7  Height of installed product 8  Width of installed product 7  Frequency  Frequency  Frequency 50 to  Power  Maximum power loss per pole according to the product standard  Total power loss under IN 2  Power loss per pole at In 6  Endurance  Electric endurance in number of cycles  Number of mechanical operations 2  Installation, mounting  Type of top connection for modular devices with Tightening torque 2		1.2
Dimensions  Depth of installed product 7 Height of installed product 8 Width of installed product 7  Frequency 7 Frequency 50 to  Power  Maximum power loss per pole according to the product standard 7 Total power loss under IN 2 Power loss per pole at In 6  Endurance  Electric endurance in number of cycles Number of mechanical operations 2  Installation, mounting  Type of top connection for modular devices with 7  Tightening torque 2		1.5
Depth of installed product 8 Height of installed product 7 Height of installed product 7  Frequency 7 Frequency 50 to 6  Power 8  Maximum power loss per pole according to the product standard 7  Total power loss under IN 2  Power loss per pole at In 6  Endurance 8 Electric endurance in number of cycles 8  Number of mechanical operations 2  Installation, mounting 7  Type of top connection for modular devices with 7  Tightening torque 2		1
Height of installed product 7  Frequency  Frequency 50 to  Power  Maximum power loss per pole according to the product standard  Total power loss under IN 2  Power loss per pole at In 6  Endurance  Electric endurance in number of cycles  Number of mechanical operations 2  Installation, mounting  Type of top connection for modular devices with Tightening torque 2	Dimensions	
Frequency  Frequency  Frequency  Fower  Maximum power loss per pole according to the product standard  Total power loss under IN  Power loss per pole at In  6  Endurance  Electric endurance in number of cycles  Number of mechanical operations  2  Installation, mounting  Type of top connection for modular devices  with  Tightening torque	Dimensions	
Frequency 50 to  Power  Maximum power loss per pole according to the product standard  Total power loss under IN 2  Power loss per pole at In 6  Endurance  Electric endurance in number of cycles  Number of mechanical operations 2  Installation, mounting  Type of top connection for modular devices with  Tightening torque 2		70 mm
Frequency 50 to  Power  Maximum power loss per pole according to the product standard  Total power loss under IN 2  Power loss per pole at In 6  Endurance  Electric endurance in number of cycles  Number of mechanical operations 2  Installation, mounting  Type of top connection for modular devices with  Tightening torque 2	Depth of installed product	70 mm 83 mm
Power  Maximum power loss per pole according to the product standard  Total power loss under IN 2  Power loss per pole at In 6  Endurance  Electric endurance in number of cycles  Number of mechanical operations 2  Installation, mounting  Type of top connection for modular devices with 1  Tightening torque 2	Depth of installed product Height of installed product	-
Maximum power loss per pole according to the product standard  Total power loss under IN  2  Power loss per pole at In  6  Endurance  Electric endurance in number of cycles  Number of mechanical operations  2  Installation, mounting  Type of top connection for modular devices  with  Tightening torque  2	Depth of installed product  Height of installed product  Width of installed product	83 mm
the product standard  Total power loss under IN 2  Power loss per pole at In 6  Endurance  Electric endurance in number of cycles  Number of mechanical operations 2  Installation, mounting  Type of top connection for modular devices with 1  Tightening torque 2	Depth of installed product  Height of installed product  Width of installed product  Frequency	83 mm 70 mm
Power loss per pole at In 6  Endurance  Electric endurance in number of cycles  Number of mechanical operations 2  Installation, mounting  Type of top connection for modular devices with 1  Tightening torque 2	Depth of installed product  Height of installed product  Width of installed product  Frequency  Frequency	83 mm 70 mm
Endurance  Electric endurance in number of cycles  Number of mechanical operations 2  Installation, mounting  Type of top connection for modular devices with 1  Tightening torque 2	Depth of installed product  Height of installed product  Width of installed product  Frequency  Frequency  Power  Maximum power loss per pole according to	83 mm 70 mm 50 to 60 Hz
Electric endurance in number of cycles  Number of mechanical operations 2  Installation, mounting  Type of top connection for modular devices with 1  Tightening torque 2	Depth of installed product  Height of installed product  Width of installed product  Frequency  Frequency  Power  Maximum power loss per pole according to the product standard	83 mm 70 mm
Number of mechanical operations 2  Installation, mounting  Type of top connection for modular devices with 1  Tightening torque 2	Depth of installed product  Height of installed product  Width of installed product  Frequency  Frequency  Power  Maximum power loss per pole according to the product standard  Total power loss under IN	83 mm 70 mm 50 to 60 Hz
Installation, mounting  Type of top connection for modular devices with  Tightening torque 2	Depth of installed product  Height of installed product  Width of installed product  Frequency  Frequency  Power  Maximum power loss per pole according to the product standard  Total power loss under IN  Power loss per pole at In	83 mm 70 mm 50 to 60 Hz 13 W 25.7 W
Type of top connection for modular devices with Tightening torque 2	Depth of installed product  Height of installed product  Width of installed product  Frequency  Frequency  Power  Maximum power loss per pole according to the product standard  Total power loss under IN  Power loss per pole at In  Endurance	83 mm 70 mm 50 to 60 Hz 13 W 25.7 W
Tightening torque 2	Depth of installed product  Height of installed product  Width of installed product  Frequency  Frequency  Power  Maximum power loss per pole according to the product standard  Total power loss under IN  Power loss per pole at In  Endurance  Electric endurance in number of cycles	83 mm 70 mm 50 to 60 Hz 13 W 25.7 W 6.62 W
	Depth of installed product  Height of installed product  Width of installed product  Frequency  Frequency  Power  Maximum power loss per pole according to the product standard  Total power loss under IN  Power loss per pole at In  Endurance  Electric endurance in number of cycles  Number of mechanical operations	83 mm 70 mm 50 to 60 Hz 13 W 25.7 W 6.62 W
Type of top rail clip for modular devices	Depth of installed product  Height of installed product  Width of installed product  Frequency  Frequency  Power  Maximum power loss per pole according to the product standard  Total power loss under IN  Power loss per pole at In  Endurance  Electric endurance in number of cycles  Number of mechanical operations  Installation, mounting	83 mm 70 mm 50 to 60 Hz 13 W 25.7 W 6.62 W
	Depth of installed product  Height of installed product  Width of installed product  Frequency  Frequency  Power  Maximum power loss per pole according to the product standard  Total power loss under IN  Power loss per pole at In  Endurance  Electric endurance in number of cycles  Number of mechanical operations  Installation, mounting  Type of top connection for modular devices	83 mm 70 mm 50 to 60 Hz 13 W 25.7 W 6.62 W
Type of bottom rail clip for modular devices	Depth of installed product  Height of installed product  Width of installed product  Frequency  Frequency  Power  Maximum power loss per pole according to the product standard  Total power loss under IN  Power loss per pole at In  Endurance  Electric endurance in number of cycles  Number of mechanical operations  Installation, mounting  Type of top connection for modular devices  Tightening torque	83 mm 70 mm 50 to 60 Hz  13 W 25.7 W 6.62 W  4000 20000

Type of Bottom Connection for modular devices	Blconnect
Top removability for modular devices	Yes
Bottom removability for modular devices	Yes
Suitable for flush-mounting	Yes
Connection	
Connection cross-section at output with screw, for flexible conductor	1 / 25 mm²
Connection cross-section at output with screw, for massive conductor	1 / 35 mm²
Connection cross-section for rigid conductor, upstream terminals with screws	1 / 35 mm²
Connection cross-section of the access with screws, with flexible conductor	1 / 25 mm²
Downstream cage clamp delivery status	opened
Upstream cage clamp delivery status	opened
Equipment	
Can be accessorized	Yes
Standards	
European directive WEEE	concerned
Safety	
Protection index IP	IP20
REACH conform	No
RoHS conform	Yes
Halogen free	No
Use conditions	
Operating temperature	-2570 °C
Degree of pollution according to IEC 60664 / IEC 60947-2	2
Class of energy limitation I <sup>2</sup> t	3
Altitude	2000 m
Storage/transport temperature	-2580 °C
temperatur	
Temperature of calibration	50 °C