MCB 3P 10kA C-50A 3M

Architecture	
Neutral position	without neutral
Number of protected poles	3
Number of poles	3 P
Type of pole	3 P
Curve	С
Connectivity	
Bottom connection alignement for modular devices	Aligned terminal
Top connection alignement for modular devices	Aligned terminal
Main electrical features	
Type of supply voltage	AC
Rated operational voltage Ue	415 V
Voltage	
Minimum threshold voltage (Ue min)	12 V
Rated insulation voltage	500 V
Max operating voltage	440 V
Rated impulse withstand voltage	6000 V
Electric current	
Rated ultimate short-circuit breaking capacity Icu under 400V AC IEC 60947-2	15 kA
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	10 kA
Rated short circuit breaking capacity Icn under 240V	10 kA

Technical Properties	
Rated service breaking capacity Ics under 240V AC	7,5 kA
according IEC 60898-1	
Rated service breaking capacity Ics under 380V AC	7,5 kA
according IEC 60898-1	
Rated service breaking capacity Ics under 400V AC	7,5 kA
according IEC 60898-1	
Rated service breaking capacity Ics under 415V AC	7,5 kA
according IEC 60898-1	
Rated ultimate short-circuit breaking capacity Icu	30 kA
under 220V AC IEC 60947-2	
Rated ultimate short-circuit breaking capacity Icu	30 kA
under 230V AC IEC 60947-2	
Rated ultimate short-circuit breaking capacity Icu	30 kA
under 240V AC IEC 60947-2	
Rated ultimate short-circuit breaking capacity Icu	15 kA
under 380V AC IEC 60947-2	
Rated ultimate short-circuit breaking capacity Icu	15 kA
under 415V AC IEC 60947-2	
Magnetic regulating currrent at 40° C	5/10 ln
min/maxi threshold value of the DC magnetic	7/15 ln
operation	
min/maxi threshold value of the AC thermal operation	1,13/1,45 ln
min/maxi threshold value of the DC thermal operation	
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Electric current / temperature

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Rating current -15°C	60,86 A
Rating current -20°C	61,95 A
Rating current 0°C	57,47 A
Rating current 10°C	55,09 A
Rating current -10°C	59,75 A
Rating current 25°C	51,32 A
Rating current -25°C	63,02 A
Rating current 30°C	50 A
Rating current 35°C	48,48 A
Rating current 40°C	46,91 A
Rating current 45°C	45,29 A
Rating current 5°C	56,29 A
Rating current -5°C	58,62 A
Rating current 50°C	43,6 A
Rating current 55°C	41,85 A
Rating current 60°C	40,02 A
Rating current 65°C	38,11 A
Rating current 70°C	36,09 A
Rating current 0°C according to IEC 60947-2	64,82 A
Rating current 10°C according to IEC 60947-2	62,14 A
Rating current -10°C according to IEC 60947-2	67,39 A
Rating current 150°C according to IEC 60947-2	60,75 A
Rating current -15°C according to IEC 60947-2	68,64 A
Rating current 20°C according to IEC 60947-2	59,34 A
Rating current -20°C according to IEC 60947-2	69,87 A
Rating current 25°C according to IEC 60947-2	57,89 A
Rating current -25°C according to IEC 60947-2	71,08 A
Rating current 30°C according to IEC 60947-2	56,4 A
Rating current 35°C according to IEC 60947-2	54,87 A
Rating current 40°C according to IEC 60947-2	53,29 A
Rating current 45°C according to IEC 60947-2	51,67 A
Rating current 5°C according to IEC 60947-2	63,49 A
Rating current -5°C according to IEC 60947-2	66,12 A
Rating current 50°C according to IEC 60947-2	50 A



Tankai ad Basa adia	
Technical Properties Rating current 55°C according to IEC 60947-2	47,99 A
Rating current 60°C according to IEC 60947-2	45,9 A
Rating current 65°C according to IEC 60947-2	43,7 A
Rating current 70°C according to IEC 60947-2	41,38 A
Current correction factors	
Correction factor of magnetic tripping with 100 Hz	1,1
Correction factor of magnetic tripping with 200 Hz	1,2
Correction factor of magnetic tripping with 400 Hz	1,5
Correction factor of magnetic tripping with 60 Hz	1,1
Correction factor of rating current for 2 devices placed	d 1
side-by-side Correction factor of rating current for 3 devices placed	1005
side-by-side	10,55
Correction factor of rating current for 4 and 5 devices	0.9
placed side-by-side	0,3
Correction factor of rating current for 6 devices placed	d 0,85
side-by-side	
Power	
Power loss per pole at In	5,5 W
Maximum power loss per pole according to the	9 W
product standard	
Total power loss under IN	15,4 W
Endurance	
Endurance	
Electric endurance in number of cycles	4000
Number of mechanical operations	20000
Dimensions	
	70 mm
Depth of installed product Height of installed product	70 mm 83 mm
Depth of installed product	· · · · · · · · · · · · · · · · · · ·
Depth of installed product Height of installed product Width of installed product	83 mm
Depth of installed product Height of installed product	83 mm
Depth of installed product Height of installed product Width of installed product Installation, mounting Type of top connection for modular devices	83 mm
Depth of installed product Height of installed product Width of installed product Installation, mounting Type of top connection for modular devices Tightening torque	83 mm 52,5 mm with screw 2,8Nm
Depth of installed product Height of installed product Width of installed product Installation, mounting Type of top connection for modular devices Tightening torque Type of bottom rail clip for modular devices	83 mm 52,5 mm with screw 2,8Nm plastic
Depth of installed product Height of installed product Width of installed product Installation, mounting Type of top connection for modular devices Tightening torque Type of bottom rail clip for modular devices Type of top rail clip for modular devices	83 mm 52,5 mm with screw 2,8Nm plastic NA
Depth of installed product Height of installed product Width of installed product Installation, mounting Type of top connection for modular devices Tightening torque Type of bottom rail clip for modular devices Type of top rail clip for modular devices Type of Bottom Connection for modular devices	83 mm 52,5 mm with screw 2,8Nm plastic NA Blconnect
Depth of installed product Height of installed product Width of installed product Installation, mounting Type of top connection for modular devices Tightening torque Type of bottom rail clip for modular devices Type of top rail clip for modular devices Type of Bottom Connection for modular devices Bottom removability for modular devices	83 mm 52,5 mm with screw 2,8Nm plastic NA Blconnect yes
Depth of installed product Height of installed product Width of installed product Installation, mounting Type of top connection for modular devices Tightening torque Type of bottom rail clip for modular devices Type of top rail clip for modular devices Type of Bottom Connection for modular devices Bottom removability for modular devices Top removability for modular devices	83 mm 52,5 mm with screw 2,8Nm plastic NA Blconnect yes yes
Depth of installed product Height of installed product Width of installed product Installation, mounting Type of top connection for modular devices Tightening torque Type of bottom rail clip for modular devices Type of top rail clip for modular devices Type of Bottom Connection for modular devices Bottom removability for modular devices	83 mm 52,5 mm with screw 2,8Nm plastic NA Blconnect yes
Depth of installed product Height of installed product Width of installed product Installation, mounting Type of top connection for modular devices Tightening torque Type of bottom rail clip for modular devices Type of top rail clip for modular devices Type of Bottom Connection for modular devices Bottom removability for modular devices Top removability for modular devices	83 mm 52,5 mm with screw 2,8Nm plastic NA Blconnect yes yes
Depth of installed product Height of installed product Width of installed product Installation, mounting Type of top connection for modular devices Tightening torque Type of bottom rail clip for modular devices Type of top rail clip for modular devices Type of Bottom Connection for modular devices Bottom removability for modular devices Top removability for modular devices Suitable for flush-mounting	83 mm 52,5 mm with screw 2,8Nm plastic NA Blconnect yes yes
Depth of installed product Height of installed product Width of installed product Installation, mounting Type of top connection for modular devices Tightening torque Type of bottom rail clip for modular devices Type of top rail clip for modular devices Type of Bottom Connection for modular devices Bottom removability for modular devices Top removability for modular devices Suitable for flush-mounting Connection	83 mm 52,5 mm with screw 2,8Nm plastic NA Blconnect yes yes yes
Depth of installed product Height of installed product Width of installed product Installation, mounting Type of top connection for modular devices Tightening torque Type of bottom rail clip for modular devices Type of top rail clip for modular devices Type of Bottom Connection for modular devices Bottom removability for modular devices Top removability for modular devices Suitable for flush-mounting Connection Upstream cage clamp delivery status	83 mm 52,5 mm with screw 2,8Nm plastic NA Blconnect yes yes yes opened
Depth of installed product Height of installed product Width of installed product Installation, mounting Type of top connection for modular devices Tightening torque Type of bottom rail clip for modular devices Type of top rail clip for modular devices Type of Bottom Connection for modular devices Bottom removability for modular devices Top removability for modular devices Suitable for flush-mounting Connection Upstream cage clamp delivery status Downstream cage clamp delivery status Connection cross-section at output with screw, for flexible conductor	83 mm 52,5 mm with screw 2,8Nm plastic NA Blconnect yes yes yes opened closed 1/25 mm²
Depth of installed product Height of installed product Width of installed product Installation, mounting Type of top connection for modular devices Tightening torque Type of bottom rail clip for modular devices Type of top rail clip for modular devices Type of Bottom Connection for modular devices Bottom removability for modular devices Top removability for modular devices Suitable for flush-mounting Connection Upstream cage clamp delivery status Downstream cage clamp delivery status Connection cross-section at output with screw, for flexible conductor Connection cross-section of the access with screws,	83 mm 52,5 mm with screw 2,8Nm plastic NA Blconnect yes yes yes opened closed
Depth of installed product Height of installed product Width of installed product Installation, mounting Type of top connection for modular devices Tightening torque Type of bottom rail clip for modular devices Type of top rail clip for modular devices Type of Bottom Connection for modular devices Bottom removability for modular devices Top removability for modular devices Suitable for flush-mounting Connection Upstream cage clamp delivery status Downstream cage clamp delivery status Connection cross-section at output with screw, for flexible conductor Connection cross-section of the access with screws, with flexible conductor	83 mm 52,5 mm with screw 2,8Nm plastic NA Bloonnect yes yes yes opened closed 1/25 mm²
Depth of installed product Height of installed product Width of installed product Installation, mounting Type of top connection for modular devices Tightening torque Type of bottom rail clip for modular devices Type of top rail clip for modular devices Type of Bottom Connection for modular devices Bottom removability for modular devices Top removability for modular devices Suitable for flush-mounting Connection Upstream cage clamp delivery status Downstream cage clamp delivery status Connection cross-section at output with screw, for flexible conductor Connection cross-section at output with screws, with flexible conductor Connection cross-section at output with screw, for	83 mm 52,5 mm with screw 2,8Nm plastic NA Blconnect yes yes yes opened closed 1/25 mm²
Depth of installed product Height of installed product Width of installed product Installation, mounting Type of top connection for modular devices Tightening torque Type of bottom rail clip for modular devices Type of top rail clip for modular devices Type of Bottom Connection for modular devices Bottom removability for modular devices Top removability for modular devices Suitable for flush-mounting Connection Upstream cage clamp delivery status Downstream cage clamp delivery status Connection cross-section at output with screw, for flexible conductor Connection cross-section at output with screws, with flexible conductor Connection cross-section at output with screw, for massive conductor	83 mm 52,5 mm with screw 2,8Nm plastic NA Blconnect yes yes yes opened closed 1/25 mm² 1/25 mm²
Depth of installed product Height of installed product Width of installed product Installation, mounting Type of top connection for modular devices Tightening torque Type of bottom rail clip for modular devices Type of top rail clip for modular devices Type of Bottom Connection for modular devices Bottom removability for modular devices Top removability for modular devices Suitable for flush-mounting Connection Upstream cage clamp delivery status Downstream cage clamp delivery status Connection cross-section at output with screw, for flexible conductor Connection cross-section at output with screws, with flexible conductor Connection cross-section at output with screw, for	83 mm 52,5 mm with screw 2,8Nm plastic NA Bloonnect yes yes yes opened closed 1/25 mm²

Equipment	
Can be accessorized	yes
Standards	
Standard text	EN 60898-1
European directive WEEE	concerned
Safety	
Protection index IP	IP20
Use conditions	
Degree of pollution according to IEC 60664 / IEC 60947-2	2
Class of energy limitation I2t	3
Altitude	2000 m
Storage temperature	-25 to 80 °C
temperatur	
Temperature of calibration	30 °C