







MCB 1P 10kA C-20A 1M

Technical properties

| Architecture | Arc | hit | ect | ure |
|--------------|-----|-----|-----|-----|
|--------------|-----|-----|-----|-----|

| Neutral position | without neutral |
|---|------------------|
| 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 |
| 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 | 240 / 415 V |
| Type of supply voltage | AC |
| Voltage | |
| Rated insulation voltage | 500 V |
| Max operating voltage | 440 V |
| Rated impulse withstand voltage | 6000 V |
| Minimum threshold voltage (Ue min) | 12 V |
| Electric current | |
| Rated current | 20 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 | 7 / 15 ln |
| min/maxi threshold value of the DC thermal operation | 1.13 / 1.45 ln |
| | |

| Rating current -10°C according to IEC 60947 | 26.75 A |
|---|---------|
| Rating current -15°C according to IEC 60947 | 27.24 A |
| Rating current -20°C according to IEC 60947 | 27.72 A |
| Rating current -25°C according to IEC 60947 | 28.19 A |
| Rating current -5°C according to IEC 60947 | 26.26 A |
| Rating current 0°C according to IEC 60947 | 25.75 A |
| Rating current 10°C according to IEC 60947 | 24.71 A |
| Rating current 15°C according to IEC 60947 | 24.17 A |
| Rating current 20°C according to IEC 60947 | 23.62 A |
| Rating current 25°C according to IEC 60947 | 23.06 A |
| Rating current 30°C according to IEC 60947 | 22.48 A |
| Rating current 35°C according to IEC 60947 | 21.88 A |
| Rating current 40°C according to IEC 60947 | 21.28 A |
| Rating current 45°C according to IEC 60947 | 20.65 A |
| Rating current 5°C according to IEC 60947 | 25.24 A |
| Rating current 50°C according to IEC 60947 | 20 A |
| Rating current 55°C according to IEC 60947 | 19.33 A |
| Rating current 60°C according to IEC 60947 | 18.64 A |
| Rating current 65°C according to IEC 60947 | 17.92 A |
| Rating current 70°C according to IEC 60947 | 17.17 A |
| Rated short circuit breaking capacity Icn under 230V 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 240V AC IEC 60947-2 | 15 kA |
| Rated short circuit breaking capacity Icn under 240V AC according IEC 60898-1 | 10 kA |
| Rated ultimate short-circuit breaking capa- city Icu under 220V AC IEC 60947-2 | 15 kA |
| Electric current / temperature | |
| Rating current -25°C | 25.08 A |
| Rating current -20°C | 24.66 A |
| Rating current -15°C | 24.24 A |
| Rating current -10°C | 23.8 A |
| Rating current -5°C | 23.36 A |
| Rating current 0°C | 22.91 A |
| Rating current 5°C | 22.45 A |
| Rating current 10°C | 21.98 A |
| Rating current 25°C | 20.51 A |
| Rating current 30°C | 20 A |
| Rating current 35°C | 19.47 A |
| Rating current 40°C | 18.93 A |
| Rating current 45°C | 18.37 A |
| Rating current 50°C | 17.8 A |

| Rating current 55°C | 17.2 A |
|--|--|
| Rating current 60°C | 16.58 A |
| Rating current 65°C | 15.94 A |
| Rating current 70°C | 15.28 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 | 2.0 |
| Correction factor of rating current for 6 devices placed side-by-side | 0.85 |
| Correction factor of magnetic tripping with 100 Hz | 1.1 |
| Correction factor of magnetic tripping with 200 Hz | 1.2 |
| Correction factor of magnetic tripping with 400 Hz | 1. |
| Correction factor of magnetic tripping with 60 Hz | 1. |
| Dimensions | |
| Depth of installed product | 70 mn |
| Hadalah adda aka Hada aya da ak | |
| Height of installed product Width of installed product | |
| | 17.5 mm |
| Width of installed product Frequency | 17.5 mn |
| Width of installed product Frequency Frequency | 17.5 mn 50 to 60 H. |
| Width of installed product Frequency Frequency Power Maximum power loss per pole according to | 17.5 mm 50 to 60 Hz |
| Width of installed product Frequency Frequency Power Maximum power loss per pole according to the product standard | 17.5 mn 50 to 60 H 4.5 V 2.56 V |
| 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 | 17.5 mn 50 to 60 H 4.5 V 2.56 V |
| 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 | 17.5 mn 50 to 60 H 4.5 V 2.56 V 2.56 V |
| 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 | 17.5 mn 50 to 60 H 4.5 V 2.56 V 4000 |
| 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 | 17.5 mn 50 to 60 H 4.5 V 2.56 V 2.56 V |
| 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 | 17.5 mn 50 to 60 H. 4.5 V 2.56 V 2.56 V |
| Frequency Frequency Frequency 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 | 17.5 mn 50 to 60 H 4.5 V 2.56 V 2.56 V 4000 20000 |
| 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 | 17.5 mn 50 to 60 H. 4.5 V 2.56 V 2.56 V 2.8Nn |
| 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 | 17.5 mn 50 to 60 H. 4.5 V 2.56 V 2.56 V 2.8Nn NA |
| Width of installed product Frequency Frequency 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 Type of top rail clip for modular devices | 17.5 mn 50 to 60 H 4.5 V 2.56 V 2.56 V with screv 2,8Nn N/ plastic |
| Width of installed product Frequency Frequency 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 Type of bottom rail clip for modular devices Type of Bottom Connection for modular | 17.5 mm 50 to 60 H: 4.5 W 2.56 W 2.56 W 2.80m With screw 2,8Nm NA plastic |
| Width of installed product Frequency Frequency 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 Type of bottom rail clip for modular devices Type of Bottom Connection for modular devices Type of Bottom Connection for modular devices | 83 mm 17.5 mm 50 to 60 Hz 4.5 W 2.56 W 2.56 W 2.8Nm NA plastic Blconnect Yes |

| 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 | closed |
| Upstream cage clamp delivery status | opened |
| Equipment | |
| Can be accessorized | Yes |
| Standards | |
| Standard text | EN 60898-1 |
| European directive WEEE | 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 I ² t | 3 |
| Altitude | 2000 m |
| Storage/transport temperature | -2580 °C |
| temperatur | |
| Temperature of calibration | 30 °C |