



PKZ-SOL STRING CIRCUIT BREAKER
120937



Overview

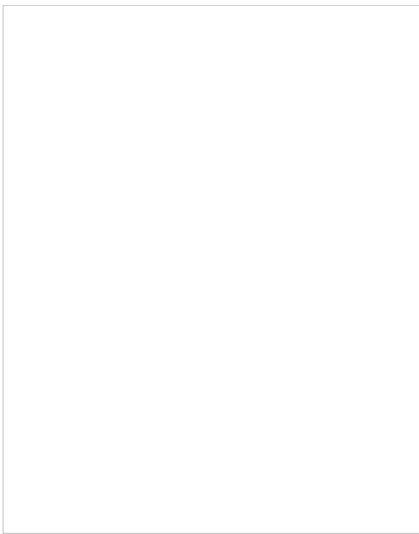


Specifications



Resources

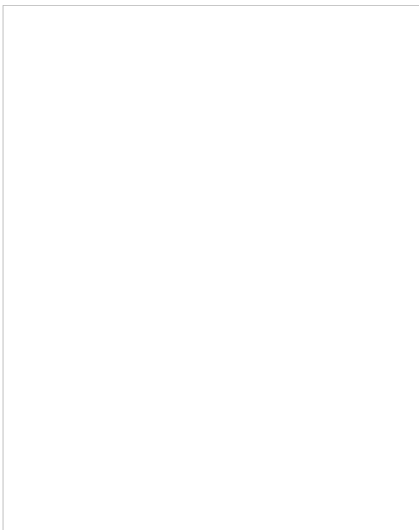
How to

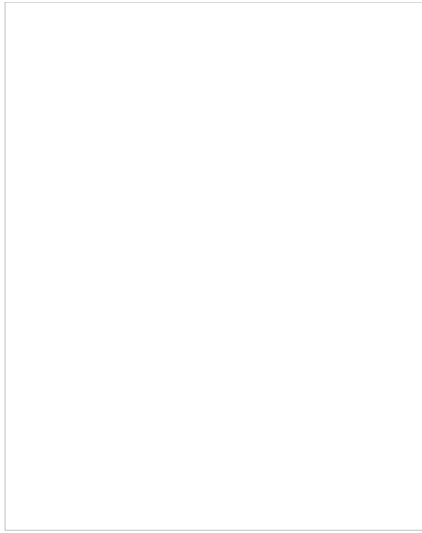
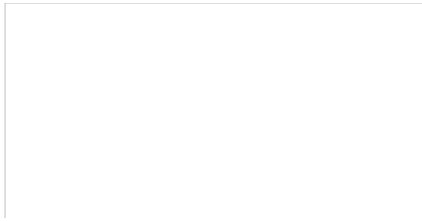


120937

Eaton Moeller® series PKZ-SOL String circuit-breaker

How to buy





GENERAL SPECIFICATIONS

General specifications



PRODUCT NAME Eaton Moeller® series PKZ-SOL String circuit-brea

CATALOG NUMBER

120937

Product specifications



MODEL CODE

PKZ-SOL12

EAN

4015081187676

PRODUCT LENGTH/DEPTH

93 mm

PRODUCT HEIGHT

76 mm

PRODUCT WIDTH

58 mm

PRODUCT WEIGHT

0.308 kg

CERTIFICATIONS

IEC 60947-2

EN 60947-2

PRODUCT SPECIFICATIONS

RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	12 A
TERMINAL CAPACITY (FLEXIBLE WITH FERRULE)	2 x (1 - 6) mm ² , ferrule to DIN 46228 1 x (1 - 6) mm ² , ferrule to DIN 46228
10.11 SHORT-CIRCUIT RATING	Is the panel builder's responsibility. The specification must be observed.
10.4 CLEARANCES AND CREEPAGE DISTANCES	Meets the product standard's requirements.
10.12 ELECTROMAGNETIC COMPATIBILITY	Is the panel builder's responsibility. The specification must be observed.
MOUNTING METHOD	DIN rail (top hat rail) mounting optional Top-hat rail fixing (according to IEC/EN 60715, 35)
10.2.5 LIFTING	Does not apply, since the entire switchgear needs to
ADJUSTMENT RANGE SHORT-TERM DELAYED SHORT-CIRCUIT RELEASE - MAX	0 A
DESIGN	Open
RATED SHORT-CIRCUIT BREAKING CAPACITY ICU AT 400 V AC	0 kA
10.2.3.1 VERIFICATION OF THERMAL STABILITY OF ENCLOSURES	Meets the product standard's requirements.
ADJUSTMENT RANGE UNDELAYED SHORT-CIRCUIT RELEASE - MAX	72 A
10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS	Is the panel builder's responsibility.
ADJUSTMENT RANGE SHORT-TERM DELAYED SHORT-CIRCUIT RELEASE - MIN	0 A
ACTUATOR TYPE	Turn button
AMBIENT OPERATING TEMPERATURE - MAX	60 °C
POSITION OF CONNECTION FOR MAIN CURRENT CIRCUIT	Other
CLIMATIC PROOFING	Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
DEVICE CONSTRUCTION	Built-in device fixed built-in technique
FEATURES	Complete device with protection unit
STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS	0 W

ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT	Screw connection
10.9.3 IMPULSE WITHSTAND VOLTAGE	Is the panel builder's responsibility.
NUMBER OF POLES	Two-pole
AMBIENT OPERATING TEMPERATURE - MIN	-25 °C
10.6 INCORPORATION OF SWITCHING DEVICES AND COMPONENTS	Does not apply, since the entire switchgear needs to
10.5 PROTECTION AGAINST ELECTRIC SHOCK	Does not apply, since the entire switchgear needs to
RATED UNINTERRUPTED CURRENT (IU)	12 A
SHORT-CIRCUIT RELEASE	6 x I _e , Electromagnetic trip block
10.13 MECHANICAL FUNCTION	The device meets the requirements, provided the inf instruction leaflet (IL) is observed.
10.2.6 MECHANICAL IMPACT	Does not apply, since the entire switchgear needs to
10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL	Is the panel builder's responsibility.
APPLICATION	<ul style="list-style-type: none"> • Open areas • Utility buildings
10.3 DEGREE OF PROTECTION OF ASSEMBLIES	Does not apply, since the entire switchgear needs to
HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID	1.5 W
PRODUCT CATEGORY	<ul style="list-style-type: none"> • String circuit-breakers • Switchgear for photovoltaic systems
OVERLOAD RELEASE CURRENT SETTING - MIN	8 A
EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID	4.5 W
HEAT DISSIPATION CAPACITY PDISS	0 W
RATED OPERATIONAL CURRENT (IE)	12 A at AC-21A
SUITABLE FOR	DIN rail (top hat rail) mounting
INTERNAL RESISTANCE	31 mΩ
PROTECTION CLASS	2
NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS)	0
SHORT-CIRCUIT CURRENT	5 - 9 A, I _{cs} , Admissible short-circuit current for sol
POWER LOSS	4.5 W
10.2.3.2 VERIFICATION OF RESISTANCE OF INSULATING MATERIALS TO NORMAL HEAT	Meets the product standard's requirements.
10.2.3.3 RESIST. OF INSUL. MAT. TO ABNORMAL HEAT/FIRE BY INTERNAL ELECT. EFFECTS	Meets the product standard's requirements.

TERMINAL CAPACITY (SOLID/STRANDED AWG)	18 - 14
OVERLOAD RELEASE CURRENT SETTING - MAX	12 A
10.9.2 POWER-FREQUENCY ELECTRIC STRENGTH	Is the panel builder's responsibility.
DEGREE OF PROTECTION	IP20
NUMBER OF AUXILIARY CONTACTS (CHANGE-OVER CONTACTS)	0
ADJUSTMENT RANGE UNDELAYED SHORT-CIRCUIT RELEASE - MIN	72 A
10.7 INTERNAL ELECTRICAL CIRCUITS AND CONNECTIONS	Is the panel builder's responsibility.
CONNECTION	Screw terminals
10.10 TEMPERATURE RISE	The panel builder is responsible for the temperature Eaton will provide heat dissipation data for the devi
RATED OPERATIONAL VOLTAGE (UE) - MIN	900 V
TYPE	Breaker
10.2.2 CORROSION RESISTANCE	Meets the product standard's requirements.
10.2.4 RESISTANCE TO ULTRA-VIOLET (UV) RADIATION	Meets the product standard's requirements.
10.2.7 INSCRIPTIONS	Meets the product standard's requirements.
NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS)	0
RATED OPERATIONAL VOLTAGE (UE) - MAX	900 V

Catalogs

Certification reports

Characteristic curve

Drawings

eCAD model

Installation instructions

120937



Eaton is an intelligent power management company dedicated to improving the quality of life and protecting the environment for people everywhere. We are guided by our commitment to do business right, to operate sustainably and to help our customers manage power — today and well into the future. By capitalizing on the global growth trends of electrification and digitalization, we're accelerating the planet's transition to renewable energy and helping to solve the world's most urgent power management challenges.