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## Eaton 120939

Eaton Moeller® series PKZ-SOL String circuit-breaker, 2p, 30 A, 900 V DC

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<b>PRODUCT NAME</b>	Eaton Moeller® series PKZ-SOL String circuit-breaker
<b>CATALOG NUMBER</b>	120939
<b>PRODUCT LENGTH/DEPTH</b>	93 mm
<b>PRODUCT HEIGHT</b>	76 mm
<b>PRODUCT WIDTH</b>	58 mm
<b>PRODUCT WEIGHT</b>	0.309 kg
<b>CERTIFICATIONS</b>	IEC/EN 60947-2

<b>TRIP TYPE</b>	Type C characteristic
<b>FEATURES</b>	Complete device with protection unit
<b>10.10 TEMPERATURE RISE</b>	The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.
<b>10.11 SHORT-CIRCUIT RATING</b>	Is the panel builder's responsibility. The specifications for the switchgear must be observed.
<b>10.12 ELECTROMAGNETIC COMPATIBILITY</b>	Is the panel builder's responsibility. The specifications for the switchgear must be observed.
<b>10.13 MECHANICAL FUNCTION</b>	The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.
<b>10.2.2 CORROSION RESISTANCE</b>	Meets the product standard's requirements.
<b>10.2.3.1 VERIFICATION OF THERMAL STABILITY OF ENCLOSURES</b>	Meets the product standard's requirements.
<b>10.2.3.2 VERIFICATION OF RESISTANCE OF INSULATING MATERIALS TO NORMAL HEAT</b>	Meets the product standard's requirements.
<b>10.2.3.3 RESIST. OF INSUL. MAT. TO ABNORMAL HEAT/FIRE BY INTERNAL ELECT. EFFECTS</b>	Meets the product standard's requirements.
<b>10.2.4 RESISTANCE TO ULTRA-VIOLET (UV) RADIATION</b>	Meets the product standard's requirements.
<b>10.2.5 LIFTING</b>	Does not apply, since the entire switchgear needs to be evaluated.
<b>10.2.6 MECHANICAL IMPACT</b>	Does not apply, since the entire switchgear needs to be evaluated.
<b>10.2.7 INSCRIPTIONS</b>	Meets the product standard's requirements.
<b>10.3 DEGREE OF PROTECTION OF ASSEMBLIES</b>	Does not apply, since the entire switchgear needs to be evaluated.

<b>CHARACTERISTIC CURVE</b>	<a href="#">eaton-motorstarters-pkz-sol-string-circuit-breaker-characteristic-curve.eps</a>
<b>DECLARATIONS OF CONFORMITY</b>	<a href="#">eaton-string-circuit-breaker-declaration-of-conformity-uk251263en.pdf</a>
□□□□□	<a href="#">IL03402020Z</a>
□□	<a href="#">eaton-contactors-mounting-pkz-sol-string-circuit-breaker-dimensions.eps</a>  <a href="#">eaton-manual-motor-starters-mounting-pkz-sol-string-circuit-breaker-dimensions.eps</a>  <a href="#">eaton-manual-motor-starters-pkz-sol-string-circuit-breaker-3d-drawing.eps</a>

<b>10.4 CLEARANCES AND CREEPAGE DISTANCES</b>	Meets the product standard's requirements.
<b>10.5 PROTECTION AGAINST ELECTRIC SHOCK</b>	Does not apply, since the entire switchgear needs to be evaluated.
<b>10.6 INCORPORATION OF SWITCHING DEVICES AND COMPONENTS</b>	Does not apply, since the entire switchgear needs to be evaluated.
<b>10.7 INTERNAL ELECTRICAL CIRCUITS AND CONNECTIONS</b>	Is the panel builder's responsibility.
<b>10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS</b>	Is the panel builder's responsibility.
<b>10.9.2 POWER-FREQUENCY ELECTRIC STRENGTH</b>	Is the panel builder's responsibility.
<b>10.9.3 IMPULSE WITHSTAND VOLTAGE</b>	Is the panel builder's responsibility.
<b>10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL</b>	Is the panel builder's responsibility.
<b>MOUNTING METHOD</b>	DIN rail (top hat rail) mounting optional Top-hat rail fixing (according to IEC/EN 60715, 35 mm)
<b>CLIMATIC PROOFING</b>	Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78
<b>ACTUATOR TYPE</b>	Turn button
<b>ADJUSTMENT RANGE UNDELAYED SHORT-CIRCUIT RELEASE - MAX</b>	180 A
<b>ADJUSTMENT RANGE UNDELAYED SHORT-CIRCUIT RELEASE - MIN</b>	180 A
<b>AMBIENT OPERATING TEMPERATURE - MAX</b>	60 °C
<b>AMBIENT OPERATING TEMPERATURE - MIN</b>	-25 °C
<b>EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID</b>	6.3 W
<b>HEAT DISSIPATION CAPACITY PDISS</b>	0 W
<b>HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID</b>	2.1 W
<b>INTERNAL RESISTANCE</b>	7 mΩ
<b>DEVICE CONSTRUCTION</b>	Built-in device fixed built-in technique

<b>CONNECTION</b>	Screw terminals
<b>ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT</b>	Screw connection
<b>DESIGN</b>	Open
<b>DEGREE OF PROTECTION</b>	IP00
<b>NUMBER OF POLES</b>	Three-pole
<b>TYPE</b>	Breaker
<b>APPLICATION</b>	<ul style="list-style-type: none"> <li>• Open areas</li> <li>• Utility buildings</li> </ul>
<b>PROTECTION CLASS</b>	2
<b>TERMINAL CAPACITY (SOLID/STRANDED AWG)</b>	18 - 14
<b>POSITION OF CONNECTION FOR MAIN CURRENT CIRCUIT</b>	Other
<b>NUMBER OF AUXILIARY CONTACTS (CHANGE-OVER CONTACTS)</b>	0
<b>NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS)</b>	0
<b>NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS)</b>	0
<b>OVERLOAD RELEASE CURRENT SETTING - MAX</b>	30 A
<b>OVERLOAD RELEASE CURRENT SETTING - MIN</b>	23 A
<b>RATED OPERATIONAL VOLTAGE (UE) - MAX</b>	900 VDC
<b>RATED OPERATIONAL VOLTAGE (UE) - MIN</b>	900 VDC
<b>RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)</b>	30 A
<b>RATED UNINTERRUPTED CURRENT (IU)</b>	30 A
<b>STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS</b>	0 W
<b>PRODUCT CATEGORY</b>	<ul style="list-style-type: none"> <li>• String circuit-breakers</li> <li>• Switchgear for photovoltaic systems</li> </ul>
<b>SUITABLE FOR</b>	DIN rail (top hat rail)

	mounting
SHORT-CIRCUIT RELEASE	6 x Ie
RATED OPERATIONAL CURRENT (IE)	30 A at AC-21A
SHORT-CIRCUIT CURRENT	5 - 9 A, Ics, Admissible short-circuit current for solar modules
TERMINAL CAPACITY (FLEXIBLE WITH FERRULE)	1 x (1 - 6) mm <sup>2</sup> , ferrule to DIN 46228 2 x (1 - 6) mm <sup>2</sup> , ferrule to DIN 46228
POWER LOSS	6.5 W
