



## Eaton 165810

Eaton Moeller series xPole - PF6/7 Residual current circuit breaker (RCCB), 25A, 4 p, 500mA, type A

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<b>PRODUCT NAME</b>	Eaton Moeller series xPole - PF6/7 RCCB
<b>CATALOG NUMBER</b>	165810
<b>PRODUCT LENGTH/DEPTH</b>	76 mm
<b>PRODUCT HEIGHT</b>	80 mm
<b>PRODUCT WIDTH</b>	70 mm
<b>PRODUCT WEIGHT</b>	0.32 kg
<b>COMPLIANCES</b>	RoHS conform
<b>CERTIFICATIONS</b>	IEC/EN 61008

**USED WITH**

KLV-TC-4 276241 (Compact enclosure) Z-FW/LP 248296 (Remote control and automatic switching device) Z-RC/AK-4TE 101062 (sealing cover set) PF7  
 Type A  
 Residual current circuit breakers  
 KLV-TC-4 276241 (Compact enclosure)  
 Z-FW/LP 248296 (Remote control and automatic switching device)  
 Z-RC/AK-4TE 101062 (sealing cover set)

**AMPERAGE RATING**

25 A

**VOLTAGE RATING**

230 V AC / 400 V AC

**FEATURES**

Additional equipment possible  
 Residual current circuit breaker

**ACCESSORIES REQUIRED**

Z-HK 248432

**10.10 TEMPERATURE RISE**

The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.

**10.11 SHORT-CIRCUIT RATING**

Is the panel builder's responsibility. The specifications for the switchgear must be observed.

**10.12 ELECTROMAGNETIC COMPATIBILITY**

Is the panel builder's responsibility. The specifications for the switchgear must be observed.

**10.13 MECHANICAL FUNCTION**

The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

**10.2.2 CORROSION RESISTANCE**

Meets the product standard's requirements.

**10.2.3.1 VERIFICATION OF THERMAL STABILITY OF ENCLOSURES**

Meets the product standard's requirements.

**10.2.3.2 VERIFICATION OF RESISTANCE OF INSULATING MATERIALS**

Meets the product standard's requirements.

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<b>TO NORMAL HEAT</b>	
<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>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>FITTED WITH:</b>	IS/SPE-1TE 101911 Interlocking device
<b>FRAME</b>	45 mm
<b>FREQUENCY RATING</b>	50 Hz
<b>POLLUTION DEGREE</b>	2
<b>LIFESPAN, MECHANICAL</b>	20000 operations
<b>MOUNTING METHOD</b>	Quick attachment with 2 latch positions for DIN-rail IEC/EN 60715 DIN rail

<b>CLIMATIC PROOFING</b>	25-55 °C / 90-95% relative humidity according to IEC 60068-2
<b>EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT</b>	2.8 W
<b>RATED IMPULSE WITHSTAND VOLTAGE (UIMP)</b>	4 kV
<b>RATED SHORT-TIME WITHSTAND CURRENT (ICW)</b>	10 kA
<b>ADMISSIBLE BACK-UP FUSE OVERLOAD - MAX</b>	25 A gG/gL
<b>BUILT-IN WIDTH (NUMBER OF UNITS)</b>	70 mm (4 SU)
<b>BUSBAR MATERIAL THICKNESS</b>	0.8 mm - 2 mm
<b>SHORT-CIRCUIT RATING</b>	63 A (max. admissible back-up fuse)
<b>TERMINAL PROTECTION</b>	Finger and hand touch safe, DGUV VS3, EN 50274
<b>TERMINALS (TOP AND BOTTOM)</b>	Open mouthed/lift terminals
<b>TEST CIRCUIT RANGE</b>	184 V AC - 440 V AC
<b>AMBIENT OPERATING TEMPERATURE - MAX</b>	55 °C
<b>AMBIENT OPERATING TEMPERATURE - MIN</b>	-25 °C
<b>BUILT-IN DEPTH</b>	69.5 mm
<b>CONNECTABLE CONDUCTOR CROSS SECTION (MULTI-WIRED) - MAX</b>	16 mm <sup>2</sup>
<b>CONNECTABLE CONDUCTOR CROSS SECTION (MULTI-WIRED) - MIN</b>	1.5 mm <sup>2</sup>
<b>CONNECTABLE CONDUCTOR CROSS SECTION (SOLID-CORE) - MAX</b>	35 mm <sup>2</sup>
<b>CONNECTABLE CONDUCTOR CROSS SECTION (SOLID-CORE) - MIN</b>	1.5 mm <sup>2</sup>
<b>FAULT CURRENT RATING</b>	500 mA
<b>HEAT DISSIPATION CAPACITY</b>	0 W
<b>HEAT DISSIPATION PER POLE, CURRENT-</b>	0 W

<b>DEPENDENT</b>	
<b>PERMITTED STORAGE AND TRANSPORT TEMPERATURE - MAX</b>	60 °C
<b>PERMITTED STORAGE AND TRANSPORT TEMPERATURE - MIN</b>	-35 °C
<b>DEGREE OF PROTECTION</b>	IP20, IP40 with suitable enclosure IP20
<b>IMPULSE WITHSTAND CURRENT</b>	Partly surge-proof 250 A
<b>NUMBER OF POLES</b>	Four-pole
<b>LEAKAGE CURRENT TYPE</b>	A
<b>LIFESPAN, ELECTRICAL</b>	4000 operations
<b>TYPE</b>	<ul style="list-style-type: none"> <li>• PF7</li> <li>• Residual current circuit breakers</li> <li>• Type A</li> </ul>
<b>SPECIAL FEATURES</b>	<ul style="list-style-type: none"> <li>• Maximum operating temperature is 55 °C: Starting at 40 °C, the max. permissible continuous current decreases by 3% for every 1 °C</li> <li>• Tripping signal contact for subsequent installation Z-NHK 248434</li> </ul>
<b>APPLICATION</b>	<ul style="list-style-type: none"> <li>• Residual current circuit breaker for residential and commercial applications</li> <li>• xPole - Switchgear for residential and commercial applications</li> </ul>
<b>SENSITIVITY TYPE</b>	Pulse-current sensitive
<b>RATED FAULT CURRENT - MAX</b>	0.5 A
<b>RATED FAULT CURRENT - MIN</b>	0.5 A
<b>RATED INSULATION VOLTAGE (UI)</b>	440 V

RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	25 A
RATED OPERATIONAL VOLTAGE (UE) - MAX	230 V
RATED RESIDUAL MAKING AND BREAKING CAPACITY	500 A
STATIC HEAT DISSIPATION, NON- CURRENT-DEPENDENT	0 W
SURGE CURRENT CAPACITY	0.25 kA
WIDTH IN NUMBER OF MODULAR SPACINGS	4
VOLTAGE TYPE	AC
TERMINAL CAPACITY (SOLID WIRE)	1.5 mm <sup>2</sup> - 35 mm <sup>2</sup>
TRIPPING TIME	Non-delayed
RATED SHORT-CIRCUIT STRENGTH	10 kA
TERMINAL CAPACITY (STRANDED CABLE)	16 mm <sup>2</sup> (2x)
RAL-NUMBER	7035
COLOR	Gray

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