



□□□□□

## Eaton 165757

Eaton Moeller series xPole - PF6/7 RCCB.  
Residual current circuit breaker (RCCB), 16A,  
2 p, 30mA, type A

□□□□

<b>PRODUCT NAME</b>	Eaton Moeller series xPole - PF6/7 RCCB
<b>CATALOG NUMBER</b>	165757
<b>PRODUCT LENGTH/DEPTH</b>	76 mm
<b>PRODUCT HEIGHT</b>	80 mm
<b>PRODUCT WIDTH</b>	35 mm
<b>PRODUCT WEIGHT</b>	0.22 kg
<b>COMPLIANCES</b>	RoHS conform
<b>CERTIFICATIONS</b>	IEC/EN 61008

**USED WITH**

PF6  
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-2TE 285385  
(sealing cover set)

**AMPERAGE RATING**

16 A

**VOLTAGE RATING**

230 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  
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.

□□□□

[eaton-xpole-pf6-rccb-  
catalog-ca019034en-en-  
us.pdf](#)

[eaton-xpole-pf7-rccb-  
catalog-ca019032en-en-  
us.pdf](#)

□□

[eaton-xpole-pf67-rccb-  
wiring-diagram.jpg](#)

[eaton-circuit-breaker-  
xeffect-frcmm-rccb-  
dimensions.jpg](#)

[eaton-xpole-pf67-rccb-3d-  
drawing.jpg](#)

<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>	Interlocking device IS/SPE-1TE 101911
<b>FRAME</b>	45 mm
<b>FREQUENCY RATING</b>	50 Hz
<b>POLLUTION DEGREE</b>	2
<b>MOUNTING METHOD</b>	DIN rail Quick attachment with 2 latch positions for DIN-rail IEC/EN 60715
<b>CLIMATIC PROOFING</b>	25-55 °C / 90-95% relative humidity according to IEC 60068-2
<b>EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT</b>	1.2 W
<b>RATED IMPULSE</b>	4 kV

<b>WITHSTAND VOLTAGE (UIMP)</b>	
<b>RATED SHORT-TIME WITHSTAND CURRENT (ICW)</b>	6 kA
<b>ADMISSIBLE BACK-UP FUSE OVERLOAD - MAX</b>	25 A gG/gL
<b>BUILT-IN WIDTH (NUMBER OF UNITS)</b>	35 mm (2 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 - 250 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>	30 mA
<b>HEAT DISSIPATION CAPACITY</b>	0 W
<b>HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT</b>	0 W
<b>PERMITTED STORAGE AND TRANSPORT TEMPERATURE - MAX</b>	60 °C
<b>PERMITTED STORAGE AND TRANSPORT TEMPERATURE - MIN</b>	-35 °C

<b>LIFESPAN, MECHANICAL</b>	20000 operations
<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>	Two-pole
<b>LEAKAGE CURRENT TYPE</b>	A
<b>LIFESPAN, ELECTRICAL</b>	4000 operations

<b>TYPE</b>	<ul style="list-style-type: none"> <li>• PF6</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>	0.03 A
<b>RATED FAULT CURRENT - MIN</b>	0.03 A
<b>RATED INSULATION VOLTAGE (UI)</b>	440 V
<b>RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)</b>	16 A
<b>RATED OPERATIONAL VOLTAGE (UE) - MAX</b>	230 V
<b>RATED RESIDUAL</b>	500 A

MAKING AND BREAKING CAPACITY	
STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT	0 W
SURGE CURRENT CAPACITY	0.25 kA
WIDTH IN NUMBER OF MODULAR SPACINGS	2
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	6 kA
TERMINAL CAPACITY (STRANDED CABLE)	16 mm <sup>2</sup> (2x)
RAL-NUMBER	7035
COLOR	Gray

PROJECT NAME:
PROJECT NUMBER:
PREPARED BY:



0000  
Eaton House  
30 Pembroke Road  
Dublin 4, 0000  
Eaton.com

© 2025 00 00000000

Follow us on social media to get the latest product and support information.

