

**System-protective circuit-breaker, Complete device with standard knob,
30 - 65 A, 65 A, With overload release**



Powering Business Worldwide™

Part no. PKE65/XTUCP-65

168974

EL Number

4315146

(Norway)

General specifications		
Product name		Eaton Moeller® series PKE System-protective circuit-breaker
Part no.		PKE65/XTUCP-65
EAN		4015081654659
Product Length/Depth		187 millimetre
Product height		162 millimetre
Product width		55 millimetre
Product weight		1.469 kilogram
Certifications		IEC/EN 60947 VDE 0660
Product Tradename		PKE
Product Type		System-protective circuit-breaker
Product Sub Type		None
Features & Functions		
Actuator type		Turn button
Features		Complete device with protection unit
Fitted with:		Standard knob
Functions		Line and cable protection Overload release System protection
Number of poles		Three-pole
General information		
Current flow times - min		900 (Class 15) AC-4 cycle operation, Main conducting paths 500 (Class 5) AC-4 cycle operation, Main conducting paths For all combinations with an SWD activation, you need not adhere to the minimum current flow times and minimum cut-out periods. Note: Going below the minimum current flow time can cause overheating of the load (motor). 700 (Class 10) AC-4 cycle operation, Main conducting paths 1000 (Class 20) AC-4 cycle operation, Main conducting paths
Cut-out periods - min		≤ 500 ms, main conducting paths, AC-4 cycle operation
Degree of protection		IP20 Terminals: IP00
Lifespan, electrical		50,000 operations (at 400V, AC-3)
Lifespan, mechanical		30,000 Operations (Main conducting paths)
Operating frequency		60 Operations/h
Overload release current setting - min		30 A
Overload release current setting - max		65 A
Overvoltage category		III
Pollution degree		3
Product category		Circuit-breaker PKE
Protection		Finger and back-of-hand proof, Protection against direct contact when actuated from front (EN 50274)
Rated impulse withstand voltage (Uimp)		6000 V AC
Suitable for		DIN rail (top hat rail) mounting
Temperature compensation		-5 - 40 °C to IEC/EN 60947, VDE 0660 -25 - 55 °C, Operating range
Ambient conditions, mechanical		
Shock resistance		15 g, Mechanical, According to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms
Climatic environmental conditions		
Altitude		Max. 2000 m
Ambient operating temperature - min		-25 °C

Ambient operating temperature - max		55 °C
Ambient operating temperature (enclosed) - min		25 °C
Ambient operating temperature (enclosed) - max		40 °C
Ambient storage temperature - min		40 °C
Ambient storage temperature - max		80 °C
Climatic proofing		Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78
Terminal capacities		
Terminal capacity (flexible with ferrule)		2 x (0.75 - 25) mm ² , ferrule to DIN 46228 1 x (0.75 - 35) mm ² , ferrule to DIN 46228
Terminal capacity (solid)		2 x (0.75 - 16) mm ² 1 x (0.75 - 16) mm ²
Stripping length (main cable)		14 mm
Tightening torque		1 Nm, Screw terminals, Control circuit cables 3.3 Nm, Screw terminals, Main cable
Electrical rating		
Rated frequency - min		50 Hz
Rated frequency - max		60 Hz
Rated operational current (Ie)		65 A
Rated operational voltage (Ue) - min		690 V
Rated operational voltage (Ue) - max		690 V
Rated uninterrupted current (Iu)		65 A
Short-circuit rating		
Short-circuit release		Trip block adjustable 5 - 8 x Ir Basic device fixed 15.5 x Iu, Trip Blocks ± 20% tolerance, Trip blocks Delayed approx. 60 ms, Trip blocks
Communication		
Connection		Screw terminals
Contacts		
Number of auxiliary contacts (change-over contacts)		0
Number of auxiliary contacts (normally closed contacts)		0
Number of auxiliary contacts (normally open contacts)		0
Design verification		
Equipment heat dissipation, current-dependent Pvid		21.6 W
Heat dissipation capacity Pdis		0 W
Heat dissipation per pole, current-dependent Pvid		7.2 W
Rated operational current for specified heat dissipation (In)		65 A
Static heat dissipation, non-current-dependent Pvs		0 W
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.
10.2.4 Resistance to ultra-violet (UV) radiation		Meets the product standard's requirements.
10.2.5 Lifting		Does not apply, since the entire switchgear needs to be evaluated.
10.2.6 Mechanical impact		Does not apply, since the entire switchgear needs to be evaluated.
10.2.7 Inscriptions		Meets the product standard's requirements.
10.3 Degree of protection of assemblies		Does not apply, since the entire switchgear needs to be evaluated.
10.4 Clearances and creepage distances		Meets the product standard's requirements.
10.5 Protection against electric shock		Does not apply, since the entire switchgear needs to be evaluated.
10.6 Incorporation of switching devices and components		Does not apply, since the entire switchgear needs to be evaluated.
10.7 Internal electrical circuits and connections		Is the panel builder's responsibility.
10.8 Connections for external conductors		Is the panel builder's responsibility.
10.9.2 Power-frequency electric strength		Is the panel builder's responsibility.
10.9.3 Impulse withstand voltage		Is the panel builder's responsibility.
10.9.4 Testing of enclosures made of insulating material		Is the panel builder's responsibility.
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.

Technical data ETIM 9.0

Low-voltage industrial components (EG000017) / Power circuit-breaker for trafo/generator/installation protection (EC000228)

Electric engineering, automation, process control engineering / Low-voltage switch technology / Circuit breaker (LV < 1 kV) / Circuit breaker for power transformer, generator and system protection (ecl@ss13-27-37-04-09 [AJZ716018])

Rated permanent current I _u	A	65
Rated voltage	V	690 - 690
Rated short-circuit breaking capacity I _{cu} at 400 V, 50 Hz	kA	50
Overload release current setting	A	30 - 65
Adjustment range short-term delayed short-circuit release	A	150 - 150
Adjustment range undelayed short-circuit release	A	1008 - 1008
Power loss	W	
Device construction		Built-in device fixed built-in technique
Integrated earth fault protection		No
Type of electrical connection of main circuit		Screw connection
Suitable for DIN rail (top hat rail) mounting		Yes
DIN rail (top hat rail) mounting optional		Yes
Number of auxiliary contacts as normally closed contact		0
Number of auxiliary contacts as normally open contact		0
Number of auxiliary contacts as change-over contact		0
With switched-off indicator		No
With integrated under voltage release		No
Number of poles		3
Position of connection for main current circuit		Other
Type of control element		Turn button
Complete device with protection unit		Yes
Motor drive integrated		No
Motor drive optional		No
Degree of protection (IP)		IP20