

**Circuit-breaker, Basic device with standard knob, Electronic, 65 A,  
Without overload releases**



**Part no.**                    **PKE65**  
**138258**  
**EL Number**                **4355198**  
**(Norway)**

<b>General specifications</b>		
Product name		Eaton Moeller® series PKE Motor-protective circuit-breaker
Part no.		PKE65
EAN		4015081350384
Product Length/Depth		187 millimetre
Product height		162 millimetre
Product width		55 millimetre
Product weight		1.231 kilogram
Compliances		CE Marked
Certifications		CSA Std. C22.2 No. 14-10 UL 508 IEC 60947-4-1 VDE CSA IEC/EN 60947-4-1 UL CSA Class No.: 3211-05 IEC/EN 60947 CSA File No.: 165628 CE UL Category Control No.: NLRV UL File No.: E36332 VDE 0660 UL 60947-4-1 CSA-C22.2 No. 60947-4-1-14
Product Tradename		PKE
Product Type		Motor-protective circuit-breaker
Product Sub Type		None
Catalog Notes		IE3-ready devices are identified by the logo on their packaging.
<b>Features &amp; Functions</b>		
Actuator type		Turn button
Features		Phase-failure sensitivity (according to IEC/EN 60947-4-1, VDE 0660 Part 102)
Fitted with:		Standard knob
Functions		Line and cable protection Motor protection Motor protection for heavy starting duty System protection
Number of poles		Three-pole
<b>General information</b>		
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		0 A
Overload release current setting - max		65 A
Overvoltage category		III
Pollution degree		3
Product category		Motor protective circuit breaker
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		Also motors with efficiency class IE3
Temperature compensation		-5 - 40 °C to IEC/EN 60947, VDE 0660 -25 - 55 °C, Operating range

<b>Ambient conditions, mechanical</b>		
Shock resistance		15 g, Mechanical, According to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms
<b>Climatic environmental conditions</b>		
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, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
<b>Terminal capacities</b>		
Terminal capacity (flexible with ferrule)		2 x (0.75 - 25) mm <sup>2</sup> , ferrule to DIN 46228 1 x (0.75 - 35) mm <sup>2</sup> , ferrule to DIN 46228
Terminal capacity (solid)		1 x (0.75 - 16) mm <sup>2</sup> 2 x (0.75 - 16) mm <sup>2</sup>
Terminal capacity (solid/stranded AWG)		14 - 2
Stripping length (main cable)		14 mm
Tightening torque		1 Nm, Screw terminals, Control circuit cables 3.3 Nm, Screw terminals, Main cable
<b>Electrical rating</b>		
Rated frequency - min		50 Hz
Rated frequency - max		60 Hz
Rated operational current (Ie)		65 A
Rated operational power at AC-3, 220/230 V, 50 Hz		0 kW
Rated operational power at AC-3, 380/400 V, 50 Hz		0 kW
Rated operational voltage (Ue) - min		690 V
Rated operational voltage (Ue) - max		690 V
Rated uninterrupted current (Iu)		65 A
<b>Short-circuit rating</b>		
Short-circuit release		Basic device fixed 15.5 x Iu, Trip Blocks ± 20% tolerance, Trip blocks
<b>Switching capacity</b>		
Switching capacity		65 A, AC-3 up to 690 V
<b>Communication</b>		
Connection		Screw terminals
<b>Design verification</b>		
Equipment heat dissipation, current-dependent Pvid		12.9 W
Heat dissipation capacity Pdis		0 W
Heat dissipation per pole, current-dependent Pvid		4.3 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) / Motor protection circuit-breaker (EC000074)			
Electric engineering, automation, process control engineering / Low-voltage switch technology / Circuit breaker (LV < 1 kV) / Motor protection circuit-breaker (ecl@ss13-27-37-04-01 [AGZ529021])			
Overload release current setting		A	0 - 65
Adjustment range undelayed short-circuit release		A	0 - 0
With thermal overload protection			No
Phase failure sensitive			No
Switch off technique			Electronic
Rated operating voltage		V	690 - 690
Rated permanent current Iu		A	65
Rated operation power at AC-3, 230 V		kW	0
Rated operation power at AC-3, 400 V		kW	0
Power loss		W	
Type of electrical connection of main circuit			Screw connection
Type of control element			Turn button
Device construction			Built-in device fixed built-in technique
With integrated auxiliary switch			No
With integrated under voltage release			No
Number of poles			3
Rated short-circuit breaking capacity Icu at 400 V, AC		kA	0
Degree of protection (IP)			IP20
Height		mm	162
Width		mm	55
Depth		mm	187