

Motor-protective circuit-breaker, Complete device with AK lockable rotary handle, Electronic, 16 - 65 A, With overload release

**Part no. PKE65/AK/XTU-65
158248**

Product name	Eaton Moeller® series PKE65 System-protective circuit-breaker
Part no.	PKE65/AK/XTU-65
EAN	4015081548361
Product Length/Depth	198 millimetre
Product height	162 millimetre
Product width	55 millimetre
Product weight	1.474 kilogram
Certifications	CE VDE 0660 UL 60947-4-1 UL IEC/EN 60947-4-1 IEC/EN 60947 CSA UL Category Control No.: NLRV CSA File No.: 165628 CSA-C22.2 No. 60947-4-1-14 UL File No.: E36332 CSA Class No.: 3211-05
Product Tradename	PKE65
Product Type	System-protective circuit-breaker
Product Sub Type	None
Catalog Notes	IE3-ready devices are identified by the logo on their packaging.
Actuator type	Turn button
Features	Phase-failure sensitivity (according to IEC/EN 60947-4-1, VDE 0660 Part 102)
Fitted with:	AK lockable rotary handle
Functions	Motor protection for heavy starting duty Overload release Motor protection Phase failure sensitive
Number of poles	Three-pole
Current flow times - min	900 (Class 15) 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 500 (Class 5) 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	16 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	-25 - 55 °C, Operating range

		-5 - 40 °C to IEC/EN 60947, VDE 0660
Shock resistance		15 g, Mechanical, According to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms
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
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)		1 x (0.75 - 16) mm ² 2 x (0.75 - 16) mm ²
Terminal capacity (solid/stranded AWG)		14 - 2
Stripping length (main cable)		14 mm
Tightening torque		3.3 Nm, Screw terminals, Main cable 1 Nm, Screw terminals, Control circuit cables
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		18.5 kW
Rated operational power at AC-3, 380/400 V, 50 Hz		30 kW
Rated operational power at AC-3, 440 V, 50 Hz		37 kW
Rated operational power at AC-3, 500 V, 50 Hz		45 kW
Rated operational power at AC-3, 690 V, 50 Hz		55 kW
Rated operational voltage (Ue) - min		690 V
Rated operational voltage (Ue) - max		690 V
Rated uninterrupted current (Iu)		65 A
Short-circuit current rating (group protection)		200 A, Class J, 600 V High Fault, max. Fuse, SCCR (UL/CSA) 100 kA, 600 V High Fault, Fuse, SCCR (UL/CSA)
Short-circuit release		Delayed approx. 60 ms, Trip blocks Basic device fixed 15.5 x Iu, Trip Blocks Trip block fixed 15.5 x Ir ± 20% tolerance, Trip blocks
Switching capacity		65 A, AC-3 up to 690 V 58 A, General use UL/CSA
Assigned motor power at 115/120 V, 60 Hz, 1-phase		3 HP
Assigned motor power at 200/208 V, 60 Hz, 3-phase		15 HP
Assigned motor power at 230/240 V, 60 Hz, 1-phase		10 HP
Assigned motor power at 230/240 V, 60 Hz, 3-phase		15 HP
Assigned motor power at 460/480 V, 60 Hz, 3-phase		40 HP
Assigned motor power at 575/600 V, 60 Hz, 3-phase		40 HP
Connection		Screw terminals
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 8.0

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@ss10.0.1-27-37-04-01 [AGZ529016])		
Overload release current setting	A	16 - 65
Adjustment range undelayed short-circuit release	A	1,008 - 1,008
With thermal protection		No
Phase failure sensitive		Yes
Switch off technique		Electronic
Rated operating voltage	V	690 - 690
Rated permanent current I _u	A	65
Rated operation power at AC-3, 230 V	kW	18.5
Rated operation power at AC-3, 400 V	kW	30
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 I _{cu} at 400 V, AC	kA	0
Degree of protection (IP)		IP20
Height	mm	162
Width	mm	55
Depth	mm	198