## 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 PKE 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	PKE
Product Type	System-protective circuit-breaker
Product Sub Type	None
Catalog Notes	IE3-ready devices are identified by the logo on their packaging.
eatures & Functions	
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
eneral information	
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 minimus 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	$\leq$ 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 actuate from front (EN 50274)
Rated impulse withstand voltage (Uimp)	6000 V AC
Suitable for	Also motors with efficiency class IE3

-5 - 40 °C to IEC/EN 60947, VDE 0660
15 g, Mechanical, According to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms
Max. 2000 m
-25 °C
55 °C
25 °C
40 °C
40 °C
80 °C
Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
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
1 x (0.75 - 16) mm <sup>2</sup> 2 x (0.75 - 16) mm <sup>2</sup>
14 - 2
14 mm
3.3 Nm, Screw terminals, Main cable 1 Nm, Screw terminals, Control circuit cables
Trans, Society terminals, Control Circuit Capites
50 Hz
60 Hz
65 A
18.5 kW
30 kW
37 kW
45 kW
55 kW
690 V
690 V
65 A
200 A, Class J, 600 V High Fault, max. Fuse, SCCR (UL/CSA) 100 kA, 600 V High Fault, Fuse, SCCR (UL/CSA)
Delayed approx. 60 ms, Trip blocks Basic device fixed 15.5 x lu, Trip Blocks Trip block fixed 15.5 x Ir ± 20% tolerance, Trip blocks
65 A, AC-3 up to 690 V 58 A, General use UL/CSA
3 HP
15 HP
10 HP
15 HP
40 HP
40 HP
Screw terminals
21 G W
21.6 W
0 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 lobserved.
10.12 Electromagnetic compatibility	Is the panel builder's responsibility. The specifications for the switchgear must lobserved.
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	Α	16 - 65
Adjustment range undelayed short-circuit release	Α	1008 - 1008
With thermal overload protection		No
Phase failure sensitive		Yes
Switch off technique		Electronic
Rated operating voltage	V	690 - 690
Rated permanent current lu	Α	65
Rated operation power at AC-3, 230 V	kW	18.5
Rated operation power at AC-3, 400 V	kW	30
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	50
Degree of protection (IP)		IP20
Height	mm	162
Width	mm	55
Depth	mm	198