Motor-protective circuit-breaker, 15 kW, 25 - 32 A, Screw terminals, lockable



Part no. PKZM0-32/AK 156398

EAN	4015081531134
Product Length/Depth	76 millimetre
Product height	94 millimetre
Product width	45 millimetre
Product weight	0.294 kilogram
Certifications	IEC/EN 60947 UL File No.: E36332 UL UL 60947-4-1 CSA CSA-C22.2 No. 60947-4-1-14 CSA CIASS No.: 3211-05 UL Category Control No.: NLRV VDE 0660 IEC/EN 60947-4-1
	CE CSA File No.: 165628
Product Tradename	PKZM0
Product Type	Motor-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)
Functions	Motor protection Phase failure sensitive
Number of poles	Three-pole
General information	
Connection	Screw terminals
Degree of protection	IP20 Terminals: IP00
Lifespan, electrical	100,000 operations (at 400V, AC-3)
Lifespan, mechanical	100,000 Operations (Main conducting paths)
Mounting position	Can be snapped on to IEC/EN 60715 top-hat rail with 7.5 or 15 mm height.
Operating frequency	40 Operations/h
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
Shock resistance	25 g, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms
Suitable for	Also motors with efficiency class IE3 Branch circuit: Suitable for group installations, (UL/CSA)
Temperature compensation	-25 - 55 °C, Operating range -5 - 40 °C to IEC/EN 60947, VDE 0660 ≤ 0.25 %/K, residual error for T > 40°
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 (1 - 6) mm ² , ferrule to DIN 46228
	1 x (1 - 6) mm², ferrule to DIN 46228
Terminal capacity (solid)	2 x (1 - 6) mm ² 1 x (1 - 6) mm ²
Terminal capacity (solid/stranded AWG)	18 - 10
Stripping length (main cable)	10 mm
Tightening torque	1 Nm, Screw terminals, Control circuit cables 1.7 Nm, Screw terminals, Main cable
Electrical rating	
Rated frequency - min	50 Hz
Rated frequency - max	60 Hz
Rated operational current (Ie)	32 A
Rated operational power at AC-3, 220/230 V, 50 Hz	7.5 kW
Rated operational power at AC-3, 380/400 V, 50 Hz	15 kW
Rated operational power at AC-3, 440 V, 50 Hz	15 kW
Rated operational power at AC-3, 500 V, 50 Hz	22 kW
Rated operational power at AC-3, 690 V, 50 Hz	30 kW
Rated operational voltage (Ue) - min	690 V
Rated operational voltage (Ue) - max	690 V
Rated uninterrupted current (Iu)	32 A
Short-circuit rating	
Rated short-circuit breaking capacity Icu at 400 V AC	40 kA
Rated short-circuit breaking capacity Ics at 400 V AC	10 kA
Rated short-circuit breaking capacity Icu at 440 V AC	10 kA
Rated short-circuit breaking capacity Ics at 440 V AC	3 kA
Rated short-circuit breaking capacity Icu at 500 V AC	3 kA
Rated short-circuit breaking capacity Ics at 500 V AC	3 kA
Rated short-circuit breaking capacity Icu at 690 V AC	3 kA
Rated short-circuit breaking capacity Ics at 690 V AC	1 kA
Short-circuit current	40 kA DC, up to 250 V DC, Main conducting paths
Short-circuit current rating (group protection)	10 kA, 600 V High Fault, Fuse, SCCR (UL/CSA) with 150 A, 600 V High Fault, Fuse, SCCR (UL/CSA) 10 kA, 600 V High Fault, CB, SCCR (UL/CSA) with 125 A, 600 V High Fault, CB, SCCR (UL/CSA) 18 kA, 600 V High Fault, CB with CL, SCCR (UL/CSA) with 600 A, 600 V High Fault, CB with CL, SCCR (UL/CSA) 18 kA, 600 V High Fault, Fuse with CL, SCCR (UL/CSA) with 600 A, 600 V High Fault, Fuse with CL, SCCR (UL/CSA) 18 kA, 480 V High Fault, CB, SCCR (UL/CSA) with 600 A, 480 V High Fault, CB, SCCR (UL/CSA) 18 kA, 480 V High Fault, Fuse, SCCR (UL/CSA) with 600 A, 480 V High Fault, Fuse, SCCR (UL/CSA)
Short-circuit release	± 20% tolerance, Trip blocks Basic device fixed 15.5 x lu, Trip Blocks 496 A, Irm, Setting range max.
Switching capacity	
Switching capacity	25 A (3 contacts in series), DC-5 up to 250V 32 A, AC-3 up to 690 V
Motor rating	
Assigned motor power at 200/208 V, 60 Hz, 3-phase	7.5 HP
Assigned motor power at 230/240 V, 60 Hz, 1-phase	5 HP
Assigned motor power at 230/240 V, 60 Hz, 3-phase	10 HP
Assigned motor power at 460/480 V, 60 Hz, 3-phase	20 HP
Assigned motor power at 575/600 V, 60 Hz, 3-phase	25 HP

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10.7 Internal electrical circuits and connections 1 Is the panel builder's responsibility. 10.8 Connections for external conductors 1 Is the panel builder's responsibility. 10.9.2 Power-frequency electric strength 1 Is the panel builder's responsibility. 10.9.3 Impulse withstand voltage 1 Is the panel builder's responsibility. 10.9.4 Testing of enclosures made of insulating material 1 Is the panel builder's responsibility. 10.10 Temperature rise 10.11 Short-circuit rating 1 Is the panel builder is responsibile for the temperature rise calculation. Eaton will provide heat dissipation data for the devices. 10.12 Electromagnetic compatibility 1 Is the panel builder's responsibility. The specifications for the switchgear must be observed. 10.13 Mechanical function 1 The device meets the requirements, provided the information in the instruction	10.5 Protection against electric shock	Does not apply, since the entire switchgear needs to be evaluated.
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	10.12 Electromagnetic compatibility	Is the panel builder's responsibility. The specifications for the switchgear must be observed.
	10.13 Mechanical function	

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])

[AGZ323021])		
Overload release current setting	Α	25 - 32
Adjustment range undelayed short-circuit release	Α	496 - 496
With thermal overload protection		No
Phase failure sensitive		Yes
Switch off technique		Thermomagnetic
Rated operating voltage	V	690 - 690
Rated permanent current lu	Α	32
Rated operation power at AC-3, 230 V	kW	7.5
Rated operation power at AC-3, 400 V	kW	15
Power loss	W	9.56
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	40
Degree of protection (IP)		IP20

Height	mm	94
Width	mm	45
Depth	mm	76