

Specifications

Eaton 158247

Eaton Moeller® series PKE65 Circuit-breaker, Basic device with AK lockable rotary handle, Electronic, 65 A, Without overload releases

General specifications

PRODUCT NAME	Eaton Moeller® series PKE Motor-protective circuit-breaker
CATALOG NUMBER	158247
EAN	4015081548354
PRODUCT LENGTH/DEPTH	198 mm
PRODUCT HEIGHT	162 mm
PRODUCT WIDTH	55 mm
PRODUCT WEIGHT	1.236 kg
CERTIFICATIONS	VDE 0660 UL 60947-4-1 UL Category Control No.: NLRV CSA Class No.: 3211-05 CSA CE IEC/EN 60947 CSA-C22.2 No. 60947-4-1- 14 IEC/EN 60947-4-1 UL File No.: E36332 UL CSA File No.: 165628
MODEL CODE	PKE65/AK

Features & 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	System protection Line and cable protection Motor protection for heavy starting duty Motor protection
NUMBER OF POLES	Three-pole

Ambient conditions, mechanical

SHOCK RESISTANCE	15 g, Mechanical, According to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms
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General

DEGREE OF PROTECTION	Terminals: IP00 IP20
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	-25 - 55 °C, Operating range -5 - 40 °C to IEC/EN 60947, VDE 0660

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

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
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TERMINAL CAPACITY (SOLID/STRANDED AWG)	14 - 2
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STRIPPING LENGTH (MAIN CABLE)	14 mm
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TIGHTENING TORQUE	1 Nm, Screw terminals, Control circuit cables
	3.3 Nm, Screw terminals, Main cable

Short-circuit rating

SHORT-CIRCUIT RELEASE	± 20% tolerance, Trip blocks
	Basic device fixed 15.5 x lu, Trip Blocks

Communication

CONNECTION	Screw terminals
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AMBIENT STORAGE TEMPERATURE - MAX	80 °C
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CLIMATIC PROOFING	Damp heat, cyclic, to IEC 60068-2-30
	Damp heat, constant, to IEC 60068-2-78

Electrical rating

RATED FREQUENCY - MIN	50 Hz
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RATED FREQUENCY - MAX	60 Hz
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RATED OPERATIONAL CURRENT (IE)	65 A
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RATED OPERATIONAL POWER AT AC-3, 220/230 V, 50 HZ	0 kW
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RATED OPERATIONAL POWER AT AC-3, 380/400 V, 50 HZ	0 kW
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RATED OPERATIONAL VOLTAGE (UE) - MIN	690 V
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RATED OPERATIONAL VOLTAGE (UE) - MAX	690 V
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RATED UNINTERRUPTED CURRENT (IU)	65 A
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Switching capacity

SWITCHING CAPACITY	65 A, AC-3 up to 690 V
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Design verification

EQUIPMENT HEAT DISSIPATION, CURRENT- DEPENDENT PVID	12.9 W
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HEAT DISSIPATION CAPACITY PDISS	0 W
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HEAT DISSIPATION PER POLE, CURRENT- DEPENDENT PVID	4.3 W
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RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	65 A
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STATIC HEAT	0 W
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DISSIPATION, NON-CURRENT-DEPENDENT PVS	
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	Is the panel builder's

ENCLOSURES MADE OF INSULATING MATERIAL	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.

Resources

BROCHURES

[eaton-motor-starters-system-xstart-brochure-br03407001en-en-us.pdf](#)

[eaton-motor-protective-circuit-breaker-pke-and-communication-module-pke-brochure-w12107613en-en-us.pdf](#)

CATALOGUES

[Product Range Catalog Switching and protecting motors](#)

[eaton-product-overview-for-machinery-catalogue-ca08103003zen-en-us.pdf](#)

CHARACTERISTIC CURVE

[eaton-manual-motor-starters-pke65-characteristic-curve-005.eps](#)

[eaton-manual-motor-starters-pke65-characteristic-curve-004.eps](#)

[eaton-manual-motor-starters-pke65-characteristic-curve-002.eps](#)

DECLARATIONS OF CONFORMITY

[DA-DC-00004545.pdf](#)

[DA-DC-00005002.pdf](#)

DRAWINGS

[eaton-manual-motor-starters-pke65-dimensions-002.eps](#)

[eaton-manual-motor-starters-pke65-mccb-3d-drawing-002.eps](#)

[eaton-manual-motor-starters-mounting-3d-drawing.eps](#)

[eaton-general-ie-ready-dilm-contactor-standards.eps](#)

ECAD MODEL

[ETN.158247.edz](#)

INSTALLATION INSTRUCTIONS

[eaton-motor-protective-circuit-breaker-pke-il03402019z.pdf](#)

[IL034013ZU](#)

INSTALLATION VIDEOS	Video Motor Protective Circuit Breaker PKE WIN-WIN with push-in technology
MANUALS AND USER GUIDES	eaton-motor-protection-pke12-32-65-mn03402004z-de-de-en-us.pdf
MCAD MODEL	pke65_ak.dwg pke65_ak.stp
SALES NOTES	eaton-pke-modbus-rtu-modul-flyer-fl034008en-en-us.pdf

PROJECT NAME:
PROJECT NUMBER:
PREPARED BY:
DATE:



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