Specifications

Photo is representative

Eaton 170482

Eaton Moeller® series PKE65 Motor-protective circuit-breaker, Type E DOL starters (complete devices), Electronic, 16 - 65 A, Turn button, Screw connection, North America

General specifications	
PRODUCT NAME	Eaton Moeller® series PKE System-protective circuit-breaker
CATALOG NUMBER	170482
MODEL CODE	PKE65/AK/XTU-65-SP
EAN	4015081669806
PRODUCT LENGTH/DEPTH	198 mm
PRODUCT HEIGHT	204 mm
PRODUCT WIDTH	55 mm
PRODUCT WEIGHT	1.649 kg
CERTIFICATIONS	UL File No.: E123500 CSA CSA File No.: 012528 UL60947-4-1A CE CSA-C22.2 No. 14-10 IEC/EN 60947-4-1 UL VDE 0660 CSA Class No.: 3211-08 UL Category Control No.: NKJH
CATALOG NOTES	This is a product for Environment A (Industrial). In environment B (household) this device may cause undesirable radio interference. In this case the user may be obliged to take appropriate measures.
GLOBAL CATALOG	170482

Powering Business Worldwide

Product specifications

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.
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	Does not apply, since the

Resources

BROCHURES	eaton-motor-protective-circuit-breaker-pke-and-communication-modul-pke-brochure-w12107613en-en-us.pdf eaton-motor-starters-system-xstart-brochure-br03407001en-en-us.pdf
CATALOGS	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
DECLARATIONS OF CONFORMITY	eaton-system-protective-circuit-breaker-declaration-of-conformity-uk251177en.pdf eaton-system-protective-circuit-breaker-declaration-of-conformity-eu250694en.pdf
DRAWINGS	eaton-manual-motor-starters-pke65-dimensions-003.eps eaton-manual-motor-starters-pke65-3d-drawing-003.eps eaton-manual-motor-starters-mounting-msc-d-dol-starter-3d-drawing.eps
ECAD MODEL	ETN.PKE65_AK_XTU-65-SP
INSTALLATION INSTRUCTIONS	IL034002ZU
INSTALLATION VIDEOS	WIN-WIN with push-in technology Video Motor Protective Circuit Breaker PKE
MCAD MODEL	DA-CD-pke65_xtu65 DA-CS-pke65_xtu65 pke65_ak_xtu_65_sp.stp
SALES NOTES	eaton-pke-modbus-rtu-modul-flyer-fl034008en-en-us.pdf

AGAINST ELECTRIC SHOCK	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.
POLLUTION DEGREE	3
CONNECTION TO SMARTWIRE-DT	No
ACTUATOR TYPE	Turn button
ADJUSTMENT RANGE UNDELAYED SHORT-CIRCUIT RELEASE - MAX	0 A
ADJUSTMENT RANGE UNDELAYED SHORT-CIRCUIT RELEASE - MIN	0 A
AMBIENT OPERATING TEMPERATURE - MAX	55 °C
AMBIENT OPERATING TEMPERATURE - MIN	-25 °C
ASSIGNED MOTOR POWER AT 200/208 V, 60 HZ, 3-PHASE	15 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
EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID	19.2 W
HEAT DISSIPATION CAPACITY PDISS	0 W
HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID	6.4 W
RATED IMPULSE WITHSTAND VOLTAGE	6000 V AC

(UIMP)	
DEVICE CONSTRUCTION	Built-in device fixed built-in technique
CONNECTION	Screw terminals
ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT	Screw connection
CURRENT FLOW TIMES - MIN	1000 (Class 20) 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). 500 (Class 5) AC-4 cycle operation, Main conducting paths 700 (Class 10) AC-4 cycle operation, Main conducting paths 900 (Class 15) AC-4 cycle operation, Main conducting paths
OVERVOLTAGE CATEGORY	III
CUT-OUT PERIODS - MIN	≤ 500 ms, main conducting paths, AC-4 cycle operation
DEGREE OF PROTECTION	IP20
NUMBER OF POLES	Three-pole
TYPE	Type E DOL starter (complete device)
FUNCTIONS	Phase failure sensitive
OVERLOAD RELEASE CURRENT SETTING - MAX	65 A
OVERLOAD RELEASE CURRENT SETTING - MIN	16 A
RATED OPERATIONAL VOLTAGE (UE) - MAX	690 V
RATED OPERATIONAL VOLTAGE (UE) - MIN	690 V
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	61.4 A
RATED OPERATIONAL POWER AT AC-3E,	18.5 kW

220/230 V, 50 HZ	
RATED OPERATIONAL POWER AT AC-3E, 380/400 V, 50 HZ	30 kW
RATED UNINTERRUPTED CURRENT (IU)	65 A
STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS	0 W
RATED SHORT-CIRCUIT BREAKING CAPACITY ICU AT 400 V AC	50 kA
RATED SHORT-CIRCUIT BREAKING CAPACITY ICS AT 400 V AC	12 kA
RATED SHORT-CIRCUIT BREAKING CAPACITY ICU AT 440 V AC	45 kA
RATED SHORT-CIRCUIT BREAKING CAPACITY ICS AT 440 V AC	11 kA
RATED SHORT-CIRCUIT BREAKING CAPACITY ICU AT 500 V AC	15 kA
RATED SHORT-CIRCUIT BREAKING CAPACITY ICS AT 500 V AC	3 kA
RATED SHORT-CIRCUIT BREAKING CAPACITY ICU AT 690 V AC	5 kA
RATED SHORT-CIRCUIT BREAKING CAPACITY ICS AT 690 V AC	1 kA
SHORT-CIRCUIT RELEASE	910 A, Non-delayed
SHORT-CIRCUIT CURRENT RATING (TYPE E)	65 kA, 480 Y/277 V, SCCR (UL/CSA) 65 kA, 240 V, SCCR (UL/CSA)
SWITCH OFF TECHNIQUE	Electronic
POWER LOSS	19.2 W
RESISTANCE PER POLE	1.7 mΩ

PROJECT NAME:	
PROJECT NUMBER:	
PREPARED BY:	
DATE:	

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