

## Eaton EP-400946

Eaton Moeller® series P3 Main switch, 80 A,Rear mounting, 4 pole, Form M4/K2-R, Red, Short thumb-grip

PRODUCT NAME	Eaton Moeller® series P3 Main switch
CATALOG NUMBER	EP-400946
PRODUCT LENGTH/DEPTH	340 mm
PRODUCT HEIGHT	84 mm
PRODUCT WIDTH	100 mm
PRODUCT WEIGHT	0.605 kg
CERTIFICATIONS	IEC/EN 60947-3 IEC/EN 60947 VDE 0660 IEC/EN 60204

<b>PRODUCT CATEGORY</b>	Main switch
<b>FEATURES</b>	Version as emergency stop installation Version as maintenance-/service switch Version as main switch
<b>ACTUATOR COLOR</b>	Red
<b>10.10 TEMPERATURE RISE</b>	The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.
<b>10.11 SHORT-CIRCUIT RATING</b>	Is the panel builder's responsibility. The specifications for the switchgear must be observed.
<b>10.12 ELECTROMAGNETIC COMPATIBILITY</b>	Is the panel builder's responsibility. The specifications for the switchgear must be observed.
<b>10.13 MECHANICAL FUNCTION</b>	The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.
<b>10.2.2 CORROSION RESISTANCE</b>	Meets the product standard's requirements.
<b>10.2.3.1 VERIFICATION OF THERMAL STABILITY OF ENCLOSURES</b>	Meets the product standard's requirements.
<b>10.2.3.2 VERIFICATION OF RESISTANCE OF INSULATING MATERIALS TO NORMAL HEAT</b>	Meets the product standard's requirements.
<b>10.2.3.3 RESIST. OF INSUL. MAT. TO ABNORMAL HEAT/FIRE BY INTERNAL ELECT. EFFECTS</b>	Meets the product standard's requirements.
<b>10.2.4 RESISTANCE TO ULTRA-VIOLET (UV) RADIATION</b>	UV resistance only in connection with protective shield.
<b>10.2.5 LIFTING</b>	Does not apply, since the entire switchgear needs to be evaluated.
<b>10.2.6 MECHANICAL IMPACT</b>	Does not apply, since the entire switchgear needs to be evaluated.
<b>10.2.7 INSCRIPTIONS</b>	Meets the product standard's requirements.
<b>10.3 DEGREE OF PROTECTION OF ASSEMBLIES</b>	Does not apply, since the entire switchgear needs to be evaluated.
<b>10.4 CLEARANCES AND CREEPAGE DISTANCES</b>	Meets the product standard's requirements.
<b>10.5 PROTECTION AGAINST ELECTRIC SHOCK</b>	Does not apply, since the entire switchgear needs to be evaluated.
<b>10.6 INCORPORATION OF SWITCHING DEVICES</b>	Does not apply, since the entire switchgear needs to be

<b>AND COMPONENTS</b>	evaluated.
<b>10.7 INTERNAL ELECTRICAL CIRCUITS AND CONNECTIONS</b>	Is the panel builder's responsibility.
<b>10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS</b>	Is the panel builder's responsibility.
<b>10.9.2 POWER-FREQUENCY ELECTRIC STRENGTH</b>	Is the panel builder's responsibility.
<b>10.9.3 IMPULSE WITHSTAND VOLTAGE</b>	Is the panel builder's responsibility.
<b>10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL</b>	Is the panel builder's responsibility.
<b>FITTED WITH:</b>	Red rotary handle and yellow locking ring Metal shaft for a control panel depth of 400 mm
<b>OPERATING FREQUENCY</b>	1200 Operations/h
<b>POLLUTION DEGREE</b>	3
<b>CLIMATIC PROOFING</b>	Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
<b>RATED IMPULSE WITHSTAND VOLTAGE (UIMP)</b>	6000 V AC
<b>RATED PERMANENT CURRENT AT AC-21, 400 V</b>	80 A
<b>RATED PERMANENT CURRENT AT AC-23, 400 V</b>	80 A
<b>RATED UNINTERRUPTED CURRENT (IU)</b>	80 A
<b>STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS</b>	0 W
<b>SWITCHING ANGLE</b>	90 °
<b>SWITCHING POWER AT 400 V</b>	55 kW
<b>VOLTAGE PER CONTACT PAIR IN SERIES</b>	60 V
<b>ACCESSORIES</b>	Auxiliary contact or neutral conductor fitted by user.
<b>RATED OPERATIONAL POWER AT AC-3, 500 V, 50 HZ</b>	45 kW
<b>DEVICE CONSTRUCTION</b>	Built-in device fixed built-in technique
<b>RATED SHORT-TIME WITHSTAND CURRENT (ICW)</b>	2 kA
<b>ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT</b>	Screw connection

<b>MOUNTING POSITION</b>	As required
<b>ACTUATOR TYPE</b>	Short thumb-grip
<b>AMBIENT OPERATING TEMPERATURE - MAX</b>	50 °C
<b>AMBIENT OPERATING TEMPERATURE - MIN</b>	-25 °C
<b>AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MAX</b>	40 °C
<b>AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MIN</b>	-25 °C
<b>ASSIGNED MOTOR POWER AT 115/120 V, 60 HZ, 1-PHASE</b>	5 HP
<b>ASSIGNED MOTOR POWER AT 200/208 V, 60 HZ, 1-PHASE</b>	10 HP
<b>ASSIGNED MOTOR POWER AT 200/208 V, 60 HZ, 3-PHASE</b>	15 HP
<b>ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 1-PHASE</b>	15 HP
<b>ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 3-PHASE</b>	20 HP
<b>ASSIGNED MOTOR POWER AT 460/480 V, 60 HZ, 3-PHASE</b>	50 HP
<b>ASSIGNED MOTOR POWER AT 575/600 V, 60 HZ, 3-PHASE</b>	60 HP
<b>EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID</b>	0 W
<b>HEAT DISSIPATION CAPACITY PDISS</b>	0 W
<b>HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID</b>	7.5 W
<b>NUMBER OF AUXILIARY CONTACTS (CHANGE-OVER CONTACTS)</b>	0
<b>NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS)</b>	0
<b>RATED CONDITIONAL SHORT-CIRCUIT CURRENT (IQ)</b>	4 kA (Load side) 80 kA (Supply side)
<b>OVERVOLTAGE CATEGORY</b>	III
<b>CONTROL CIRCUIT RELIABILITY</b>	1 failure per 100,000 switching operations statistically determined, at 24 V DC, 10 mA)
<b>DEGREE OF PROTECTION (FRONT SIDE)</b>	IP65
<b>NUMBER OF POLES</b>	Four-pole

<b>MOUNTING METHOD</b>	Rear mounting
<b>DEGREE OF PROTECTION</b>	NEMA 12
<b>SUITABLE FOR</b>	Ground mounting Intermediate mounting
<b>LOCKING FACILITY</b>	Lockable in the 0 (Off) position
<b>FUNCTIONS</b>	Emergency switching off function Interlockable
<b>NUMBER OF SWITCHES</b>	1
<b>SAFE ISOLATION</b>	440 V AC, Between the contacts, According to EN 61140
<b>SHOCK RESISTANCE</b>	15 g, Mechanical, According to IEC/EN 60068-2-27, Half-sinusoidal shock 20 ms
<b>LIFESPAN, MECHANICAL</b>	100,000 Operations
<b>LOAD RATING</b>	2 x I <sub>e</sub> (with intermittent operation class 12, 25 % duty factor) 1.6 x I <sub>e</sub> (with intermittent operation class 12, 40 % duty factor) 1.3 x I <sub>e</sub> (with intermittent operation class 12, 60 % duty factor)
<b>TERMINAL CAPACITY</b>	1 x (2.5 - 35) mm <sup>2</sup> , solid or stranded 2 x (2.5 - 10) mm <sup>2</sup> , solid or stranded 2 x (1.5 - 6) mm <sup>2</sup> , flexible with ferrules to DIN 46228 1 x (1.5 - 25) mm <sup>2</sup> , flexible with ferrules to DIN 46228
<b>SAFETY PARAMETER (EN ISO 13849-1)</b>	B10d values as per EN ISO 13849-1, table C.1
<b>NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS)</b>	0
<b>NUMBER OF CONTACTS IN SERIES AT DC-23A, 120 V</b>	3
<b>NUMBER OF CONTACTS IN SERIES AT DC-23A, 24 V</b>	1
<b>NUMBER OF CONTACTS IN SERIES AT DC-23A, 48 V</b>	2
<b>NUMBER OF CONTACTS IN SERIES AT DC-23A, 60 V</b>	2
<b>RATED BREAKING CAPACITY AT 220/230 V (COS PHI TO IEC 60947-3)</b>	760 A
<b>RATED BREAKING CAPACITY AT 400/415 V (COS PHI TO IEC 60947-3)</b>	740 A
<b>RATED BREAKING CAPACITY AT 500 V (COS</b>	880 A

<b>PHI TO IEC 60947-3)</b>	
<b>RATED BREAKING CAPACITY AT 660/690 V (COS PHI TO IEC 60947-3)</b>	520 A
<b>RATED MAKING CAPACITY UP TO 690 V (COS PHI TO IEC/EN 60947-3)</b>	950 A
<b>RATED OPERATING VOLTAGE (UE) - MAX</b>	690 V
<b>RATED OPERATING VOLTAGE (UE) - MIN</b>	690 V
<b>RATED OPERATIONAL VOLTAGE (UE) AT AC - MAX</b>	690 V
<b>SHORT-CIRCUIT PROTECTION RATING</b>	100 A gG/gL, Fuse, Contacts
<b>RATED OPERATIONAL CURRENT (IE) AT AC-21, 440 V</b>	80 A
<b>RATED OPERATIONAL CURRENT (IE) AT AC-23A, 230 V</b>	80 A
<b>RATED OPERATIONAL CURRENT (IE) AT AC-23A, 400 V, 415 V</b>	80 A
<b>RATED OPERATIONAL CURRENT (IE) AT AC-23A, 500 V</b>	80 A
<b>RATED OPERATIONAL CURRENT (IE) AT AC-23A, 690 V</b>	68 A
<b>RATED OPERATIONAL CURRENT (IE) AT AC-3, 220 V, 230 V, 240 V</b>	71 A
<b>RATED OPERATIONAL CURRENT (IE) AT AC-3, 380 V, 400 V, 415 V</b>	71 A
<b>RATED OPERATIONAL CURRENT (IE) AT AC-3, 500 V</b>	65 A
<b>RATED OPERATIONAL CURRENT (IE) AT AC-3, 660 V, 690 V</b>	23.8 A
<b>RATED OPERATIONAL CURRENT (IE) AT DC-1, LOAD-BREAK SWITCHES L/R = 1 MS</b>	80 A
<b>RATED OPERATIONAL CURRENT (IE) AT DC-23A, 120 V</b>	25 A
<b>RATED OPERATIONAL CURRENT (IE) AT DC-23A, 24 V</b>	50 A
<b>RATED OPERATIONAL CURRENT (IE) AT DC-23A, 48 V</b>	50 A
<b>RATED OPERATIONAL CURRENT (IE) AT DC-23A, 60 V</b>	50 A

<b>RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)</b>	80 A
<b>RATED OPERATIONAL POWER AT AC-23A, 400 V, 50 HZ</b>	30 kW
<b>RATED OPERATIONAL POWER AT AC-3, 380/400 V, 50 HZ</b>	30 kW
<b>TIGHTENING TORQUE</b>	3 Nm, Screw terminals
<b>UNINTERRUPTED CURRENT</b>	Rated uninterrupted current $I_u$ is specified for max. cross- section.

<b>PROJECT NAME:</b>
<b>PROJECT NUMBER:</b>
<b>PREPARED BY:</b>
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