

# Specifications

Photo is representative

## Eaton 064976

Eaton Moeller® series P3 Main switch, P3, 100 A, rear mounting, 3 pole, STOP function, With black rotary handle and locking ring, Lockable in the 0 (Off) position

### General specifications

<b>PRODUCT NAME</b>	Eaton Moeller® series P3 Main switch
<b>CATALOG NUMBER</b>	064976
<b>MODEL CODE</b>	P3-100/V/SVB-SW
<b>EAN</b>	4015080649762
<b>PRODUCT LENGTH/DEPTH</b>	150 mm
<b>PRODUCT HEIGHT</b>	114 mm
<b>PRODUCT WIDTH</b>	90 mm
<b>PRODUCT WEIGHT</b>	0.458 kg
<b>CERTIFICATIONS</b>	CSA File No.: 012528 IEC/EN 60204 UL File No.: E36332 CE CSA-C22.2 No. 60947-4-1-14 VDE 0660 IEC/EN 60947 UL 60947-4-1 UL Category Control No.: NLRV IEC/EN 60947-3 CSA-C22.2 No. 94 CSA Class No.: 3211-05 UL CSA
<b>CATALOG NOTES</b>	Rated Short-time Withstand Current (Icw) for a time of 1 second

## Features & Functions

<b>FEATURES</b>	Version as main switch Version as maintenance-/service switch
<b>FITTED WITH:</b>	Black rotary handle and locking ring
<b>FUNCTIONS</b>	Interlockable STOP function
<b>LOCKING FACILITY</b>	Lockable in the 0 (Off) position
<b>NUMBER OF POLES</b>	3

## General information

<b>ACCESSORIES</b>	Auxiliary contact or neutral conductor fitted by user.
<b>DEGREE OF PROTECTION</b>	NEMA 12
<b>DEGREE OF PROTECTION (FRONT SIDE)</b>	IP65
<b>LIFESPAN, MECHANICAL</b>	100,000 Operations
<b>MOUNTING METHOD</b>	Rear mounting
<b>MOUNTING POSITION</b>	As required
<b>OPERATING FREQUENCY</b>	1200 Operations/h
<b>OVERVOLTAGE CATEGORY</b>	III
<b>POLLUTION DEGREE</b>	3
<b>PRODUCT CATEGORY</b>	Main switch
<b>PRODUCT CATEGORY</b>	Main switch
<b>RATED IMPULSE WITHSTAND VOLTAGE (UIMP)</b>	6000 V AC
<b>SAFE ISOLATION</b>	440 V AC, Between the contacts, According to EN 61140
<b>SAFETY PARAMETER (EN ISO 13849-1)</b>	B10d values as per EN ISO 13849-1, table C.1
<b>SHOCK RESISTANCE</b>	15 g, Mechanical, According to IEC/EN 60068-2-27, Half-sinusoidal shock 20 ms
<b>SUITABLE FOR</b>	Branch circuits, suitable as motor disconnect, (UL/CSA)

## Climatic environmental conditions

<b>AMBIENT OPERATING TEMPERATURE - MIN</b>	-25 °C
<b>AMBIENT OPERATING TEMPERATURE - MAX</b>	50 °C
<b>AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MIN</b>	-25 °C
<b>AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MAX</b>	40 °C
<b>CLIMATIC PROOFING</b>	Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30

## Terminal capacities

<b>TERMINAL CAPACITY</b>	1 x (1.5 - 25) mm <sup>2</sup> , flexible with ferrules to DIN 46228 2 x (1.5 - 6) mm <sup>2</sup> , flexible with ferrules to DIN 46228 14 - 2 AWG, solid or flexible with ferrule 1 x (2.5 - 35) mm <sup>2</sup> , solid or stranded 2 x (2.5 - 10) mm <sup>2</sup> , solid or stranded
<b>SCREW SIZE</b>	M5, Terminal screw
<b>TIGHTENING TORQUE</b>	3 Nm, Screw terminals 26.5 lb-in, Screw terminals

## Electrical rating

**RATED BREAKING CAPACITY AT 220/230 V (COS PHI TO IEC 60947-3)** 760 A

**RATED BREAKING CAPACITY AT 400/415 V (COS PHI TO IEC 60947-3)** 740 A

**RATED BREAKING CAPACITY AT 500 V (COS PHI TO IEC 60947-3)** 880 A

**RATED BREAKING CAPACITY AT 660/690 V (COS PHI TO IEC 60947-3)** 520 A

**RATED OPERATIONAL CURRENT (IE) AT AC-3, 220 V, 230 V, 240 V** 71 A

**RATED OPERATIONAL CURRENT (IE) AT AC-3, 380 V, 400 V, 415 V** 71 A

**RATED OPERATIONAL CURRENT (IE) AT AC-3, 500 V** 65 A

**RATED OPERATIONAL CURRENT (IE) AT AC-3, 660 V, 690 V** 23.8 A

**RATED OPERATIONAL CURRENT (IE) AT AC-21, 440 V** 100 A

**RATED OPERATIONAL CURRENT (IE) AT AC-23A, 230 V** 100 A

**RATED OPERATIONAL CURRENT (IE) AT AC-23A, 400 V, 415 V** 100 A

**RATED OPERATIONAL CURRENT (IE) AT AC-23A, 500 V** 96 A

**RATED OPERATIONAL CURRENT (IE) AT AC-23A, 690 V** 68 A

**RATED OPERATIONAL CURRENT (IE) AT DC-1, LOAD-BREAK SWITCHES L/R = 1 MS** 100 A

**RATED OPERATIONAL CURRENT (IE) AT DC-23A, 24 V** 50 A

**RATED OPERATIONAL CURRENT (IE) AT DC-23A, 48 V** 50 A

**RATED OPERATIONAL CURRENT (IE) AT DC-23A,** 50 A

## Short-circuit rating

**RATED CONDITIONAL SHORT-CIRCUIT CURRENT (IQ)** 4 kA (Load side)  
80 kA (Supply side)

**RATED SHORT-TIME WITHSTAND CURRENT (ICW)** 2 kA

**SHORT-CIRCUIT CURRENT RATING (BASIC RATING)** 150A, max. Fuse, SCCR (UL/CSA)  
10 kA, SCCR (UL/CSA)

**SHORT-CIRCUIT PROTECTION RATING** 100 A gG/gL, Fuse, Contacts

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**60 V**

**RATED OPERATIONAL**

**CURRENT (IE) AT DC-23A, 25 A**

**120 V**

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**RATED OPERATIONAL**

**POWER AT AC-3, 380/400 V, 50 Hz**

**37 kW**

**V, 50 Hz**

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**RATED OPERATIONAL**

**POWER AT AC-3, 415 V, 50 Hz**

**37 kW**

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**RATED OPERATIONAL**

**POWER AT AC-3, 500 V, 50 Hz**

**45 kW**

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**RATED OPERATIONAL**

**POWER AT AC-3, 690 V, 50 Hz**

**37 kW**

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**RATED OPERATIONAL**

**POWER AT AC-23A, 220/230 V, 50 Hz**

**30 kW**

**220/230 V, 50 Hz**

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**RATED OPERATIONAL**

**POWER AT AC-23A, 400 V, 50 Hz**

**55 kW**

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**RATED OPERATIONAL**

**POWER AT AC-23A, 500 V, 50 Hz**

**55 kW**

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**RATED OPERATIONAL**

**POWER AT AC-23A, 690 V, 50 Hz**

**55 kW**

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**RATED OPERATIONAL**

**VOLTAGE (UE) AT AC - MAX**

**690 V**

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**RATED UNINTERRUPTED CURRENT (IU)**

**100 A**

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**UNINTERRUPTED CURRENT**

Rated uninterrupted current  $I_u$  is specified for max. cross-section.

## Switching capacity

LOAD RATING	1.3 x $I_e$ (with intermittent operation class 12, 60 % duty factor) 2 x $I_e$ (with intermittent operation class 12, 25 % duty factor) 1.6 x $I_e$ (with intermittent operation class 12, 40 % duty factor)
NUMBER OF CONTACTS IN SERIES AT DC-23A, 24 V	1
NUMBER OF CONTACTS IN SERIES AT DC-23A, 48 V	2
NUMBER OF CONTACTS IN SERIES AT DC-23A, 60 V	2
NUMBER OF CONTACTS IN SERIES AT DC-23A, 120 V	3
SWITCHING CAPACITY (MAIN CONTACTS, GENERAL USE)	100 A, If used with neutral conductor $I_U$ = max. 90 A, Rated uninterrupted current max. (UL/CSA)
SWITCHING CAPACITY (AUXILIARY CONTACTS, GENERAL USE)	10A, $I_U$ , (UL/CSA)
SWITCHING CAPACITY (AUXILIARY CONTACTS, PILOT DUTY)	P600 (UL/CSA) A600 (UL/CSA)
RATED MAKING CAPACITY UP TO 690 V (COS PHI TO IEC/EN 60947-3)	950 A
VOLTAGE PER CONTACT PAIR IN SERIES	60 V

## Contacts

CONTROL CIRCUIT RELIABILITY	1 failure per 100,000 switching operations statistically determined, at 24 V DC, 10 mA)
NUMBER OF AUXILIARY CONTACTS (CHANGE-OVER CONTACTS)	0
NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS)	0
NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS)	0

## Motor rating

ASSIGNED MOTOR	
POWER AT 115/120 V, 60 HZ, 1-PHASE	5 HP
ASSIGNED MOTOR	
POWER AT 200/208 V, 60 HZ, 1-PHASE	10 HP
ASSIGNED MOTOR	
POWER AT 200/208 V, 60 HZ, 3-PHASE	20 HP
ASSIGNED MOTOR	
POWER AT 230/240 V, 60 HZ, 1-PHASE	15 HP
ASSIGNED MOTOR	
POWER AT 230/240 V, 60 HZ, 3-PHASE	25 HP
ASSIGNED MOTOR	
POWER AT 460/480 V, 60 HZ, 3-PHASE	60 HP
ASSIGNED MOTOR	
POWER AT 575/600 V, 60 HZ, 3-PHASE	75 HP

## Actuator

ACTUATOR COLOR	Black
ACTUATOR TYPE	Door coupling rotary drive

## Design verification

### EQUIPMENT HEAT

DISSIPATION, CURRENT-DEPENDENT PVID 0 W

### HEAT DISSIPATION CAPACITY PDISS

HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID 7.5 W

### RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)

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** UV resistance only in connection with protective shield.

**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.

<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>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.

## Resources

BROCHURES	<a href="#">Brochure - T Rotary Cam switch and P Switch-disconnector</a>
CATALOGUES	<a href="#">P Switch-disconnectors and T Rotary cam switches catalogue CA042001EN</a>
DECLARATIONS OF CONFORMITY	<a href="#">eaton-main-switch-declaration-of-conformity-uk251292en.pdf</a> <a href="#">eaton-main-switch-declaration-of-conformity-eu250809en.pdf</a>
DRAWINGS	<a href="#">eaton-rotary-switches-padlock-t0-main-switch-dimensions.eps</a> <a href="#">eaton-rotary-switches-mounting-p3-main-switch-dimensions-006.eps</a> <a href="#">eaton-general-mounting-p1-main-switch-symbol-002.eps</a>

	<a href="#"><u>eaton-rotary-switches-mounting-p1-main-switch-3d-drawing-002.eps</u></a>
	<a href="#"><u>eaton-rotary-switches-t0-main-switch-symbol.eps</u></a>
ECAD MODEL	<a href="#"><u>DA-CE-ETN.P3-100_V_SVB-SW</u></a>
INSTALLATION INSTRUCTIONS	<a href="#"><u>eaton-switch-disconnector-p3-rear-mounting-il03802005z.pdf</u></a>
INSTALLATION VIDEOS	<a href="#"><u>Eaton's P Switch-disconnectors used in a factory</u></a>
MCAD MODEL	<a href="#"><u>DA-CS-p3_zz15 DA-CD-p3_zz15</u></a>
PRODUCT NOTIFICATIONS	<a href="#"><u>MZ008006ZU_Orderform_Customized_Switch.pdf</u></a>
WIRING DIAGRAMS	<a href="#"><u>eaton-rotary-switches-on-off-switch-p3-main-switch-wiring-diagram.eps</u></a>

**PROJECT NAME:**

**PROJECT NUMBER:**

**PREPARED BY:**

**DATE:**



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