



Eaton 050740

Eaton Moeller® series P1 Main switch, P1, 25 A, flush mounting, 3 pole + N, 1 N/O, 1 N/C, STOP function, With black rotary handle and locking ring, Lockable in the 0 (Off) position

050740

PRODUCT NAME	Eaton Moeller® series P1 Main switch
CATALOG NUMBER	050740
PRODUCT LENGTH/DEPTH	119 mm
PRODUCT HEIGHT	65 mm
PRODUCT WIDTH	83 mm
PRODUCT WEIGHT	0.26 kg
CERTIFICATIONS	UL Listed CSA Class No.: 3211-05 CSA File No.: 012528 IEC/EN 60947-3 UL UL Category Control No.: NLRV VDE 0660 UL File No.: E36332 CSA-C22.2 No. 60947-4-1- 14 CSA-C22.2 No. 94 UL 60947-4-1 CE CSA IEC/EN 60204 IEC/EN 60947
CATALOG NOTES	Rated Short-time Withstand Current (Icw) for a time of 1 second

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TYPE	Disconnect switch
PRODUCT CATEGORY	Main switch
FEATURES	Version as main switch Version as maintenance-/service switch
ACTUATOR COLOR	Black

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

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.

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DECLARATIONS OF CONFORMITY

[eaton-main-switch-declaration-of-conformity-uk251289en.pdf](#)

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[eaton-rotary-switches-mounting-p1-main-switch-dimensions.eps](#)

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 ENCLOSURES MADE OF INSULATING MATERIAL	Is the panel builder's responsibility.
FITTED WITH:	Black rotary handle and locking ring
OPERATING FREQUENCY	1200 Operations/h
POLLUTION DEGREE	3
CLIMATIC PROOFING	Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78
RATED IMPULSE WITHSTAND VOLTAGE (UIMP)	6000 V AC
RATED PERMANENT CURRENT AT AC-21, 400 V	25 A
RATED PERMANENT CURRENT AT AC-23, 400 V	25 A
RATED UNINTERRUPTED CURRENT (IU)	25 A
STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS	0 W
SWITCHING POWER AT 400 V	13 kW
VOLTAGE PER CONTACT PAIR IN SERIES	60 V
RATED OPERATIONAL POWER AT AC-3, 500 V, 50	7.5 kW

HZ	
DEVICE CONSTRUCTION	Built-in device fixed built-in technique
RATED SHORT-TIME WITHSTAND CURRENT (ICW)	0.64 kA 640 A, Contacts, 1 second
ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT	Screw connection
MOUNTING POSITION	As required
ACTUATOR TYPE	Door coupling rotary drive
AMBIENT OPERATING TEMPERATURE - MAX	50 °C
AMBIENT OPERATING TEMPERATURE - MIN	-25 °C
AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MAX	40 °C
AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MIN	-25 °C
ASSIGNED MOTOR	
POWER AT 115/120 V, 60 HZ, 1-PHASE	1 HP
ASSIGNED MOTOR	
POWER AT 200/208 V, 60 HZ, 1-PHASE	2 HP
ASSIGNED MOTOR	
POWER AT 200/208 V, 60 HZ, 3-PHASE	3 HP
ASSIGNED MOTOR	
POWER AT 230/240 V, 60 HZ, 1-PHASE	3 HP
ASSIGNED MOTOR	
POWER AT 230/240 V, 60 HZ, 3-PHASE	5 HP
ASSIGNED MOTOR	
POWER AT 460/480 V, 60 HZ, 3-PHASE	10 HP
ASSIGNED MOTOR	
POWER AT 575/600 V, 60 HZ, 3-PHASE	15 HP
EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID	0 W
HEAT DISSIPATION CAPACITY PDISS	0 W
HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID	1.1 W
NUMBER OF AUXILIARY	0

CONTACTS (CHANGE-OVER CONTACTS)**NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS)**

1

RATED CONDITIONAL SHORT-CIRCUIT CURRENT (I_Q)

50 kA

OVERVOLTAGE CATEGORY

III

CONTROL CIRCUIT RELIABILITY

1 failure per 100,000 switching operations statistically determined, at 24 V DC, 10 mA)

DEGREE OF PROTECTION (FRONT SIDE)

IP65

NUMBER OF POLES

4

MOUNTING METHOD

Flush mounting

DEGREE OF PROTECTION

NEMA 12

SUITABLE FORBranch circuits, suitable as motor disconnect, (UL/CSA)
Front mounting 4-hole**LOCKING FACILITY**

Lockable in the 0 (Off) position

FUNCTIONSInterlockable
STOP function**NUMBER OF SWITCHES**

1

SAFE ISOLATION

440 V AC, Between the contacts, According to EN 61140

SCREW SIZE

M4, Terminal screw

SHOCK RESISTANCE15 g, Mechanical,
According to IEC/EN 60068-2-27, Half-sinusoidal shock 20 ms**LIFESPAN, MECHANICAL**

300,000 Operations

LOAD RATING1.6 x I_e (with intermittent operation class 12, 40 % duty factor)
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)**SWITCHING CAPACITY (AUXILIARY CONTACTS, GENERAL USE)**10A, I_U, (UL/CSA)**SWITCHING CAPACITY (AUXILIARY CONTACTS, PILOT DUTY)**P600 (UL/CSA)
A600 (UL/CSA)

TERMINAL CAPACITY	2 x (1 - 4) mm ² , flexible with ferrules to DIN 46228 14 - 8 AWG, solid or flexible with ferrule 1 x (1 - 4) mm ² , flexible with ferrules to DIN 46228 2 x (1.5 - 6) mm ² , solid or stranded 1 x (1.5 - 6) mm ² , solid or stranded
SWITCHING CAPACITY (MAIN CONTACTS, GENERAL USE)	20 A, Rated uninterrupted current max. (UL/CSA)
SAFETY PARAMETER (EN ISO 13849-1)	B10d values as per EN ISO 13849-1, table C.1
NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS)	1
NUMBER OF CONTACTS IN SERIES AT DC-23A, 120 V	3
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
RATED BREAKING CAPACITY AT 220/230 V (COS PHI TO IEC 60947-3)	190 A
RATED BREAKING CAPACITY AT 400/415 V (COS PHI TO IEC 60947-3)	150 A
RATED BREAKING CAPACITY AT 500 V (COS PHI TO IEC 60947-3)	170 A
RATED BREAKING CAPACITY AT 660/690 V (COS PHI TO IEC 60947-3)	150 A
RATED MAKING CAPACITY UP TO 690 V (COS PHI TO IEC/EN 60947-3)	240 A
RATED OPERATING VOLTAGE (UE) - MAX	690 V
RATED OPERATING VOLTAGE (UE) - MIN	690 V
RATED OPERATIONAL VOLTAGE (UE) AT AC - MAX	690 V
SHORT-CIRCUIT CURRENT RATING (BASIC RATING)	5 kA, SCCR (UL/CSA) 110A, max. Fuse, SCCR (UL/CSA)

SHORT-CIRCUIT CURRENT RATING (HIGH FAULT)	50 A, Class J, max. Fuse, SCCR (UL/CSA) 10 kA, SCCR (UL/CSA)
SHORT-CIRCUIT PROTECTION RATING	25 A gG/gL, Fuse, Contacts
RATED OPERATIONAL CURRENT (IE) AT AC-21, 440 V	25 A
RATED OPERATIONAL CURRENT (IE) AT AC-23A, 230 V	25 A
RATED OPERATIONAL CURRENT (IE) AT AC-23A, 400 V, 415 V	25 A
RATED OPERATIONAL CURRENT (IE) AT AC-23A, 500 V	17.4 A
RATED OPERATIONAL CURRENT (IE) AT AC-23A, 690 V	12.6 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 220 V, 230 V, 240 V	19.6 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 380 V, 400 V, 415 V	15.2 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 500 V	12.1 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 660 V, 690 V	8.8 A
RATED OPERATIONAL CURRENT (IE) AT DC-1, LOAD-BREAK SWITCHES L/R = 1 MS	25 A
RATED OPERATIONAL CURRENT (IE) AT DC-23A, 120 V	12 A
RATED OPERATIONAL CURRENT (IE) AT DC-23A, 24 V	25 A
RATED OPERATIONAL CURRENT (IE) AT DC-23A, 48 V	25 A
RATED OPERATIONAL CURRENT (IE) AT DC-23A, 60 V	25 A
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	25 A
RATED OPERATIONAL POWER AT AC-23A,	5.5 kW

220/230 V, 50 Hz

RATED OPERATIONAL

POWER AT AC-23A, 400 V, 50 Hz 13 kW

RATED OPERATIONAL

POWER AT AC-23A, 500 V, 50 Hz 11 kW

RATED OPERATIONAL

POWER AT AC-23A, 690 V, 50 Hz 11 kW

RATED OPERATIONAL

POWER AT AC-3, 380/400 V, 50 Hz 7.5 kW

RATED OPERATIONAL

POWER AT AC-3, 415 V, 50 Hz 7.5 kW

RATED OPERATIONAL

POWER AT AC-3, 690 V, 50 Hz 7.5 kW

TIGHTENING TORQUE

1.6 Nm, Screw terminals
14.1 lb-in, Screw terminals

UNINTERRUPTED CURRENT

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

HOUSING COLOR

Black

HOUSING MATERIAL

Plastic

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