

Specifications



Eaton 199937

Eaton Moeller® series P1 Main switch, 40 A, rear mounting, 3 pole, 1 N/O, 1 N/C, Emergency switching off function, Lockable in the 0 (Off) position, With metal shaft for a control panel depth of 400 mm

General specifications

PRODUCT NAME	Eaton Moeller® series P1 Main switch
CATALOG NUMBER	199937
MODEL CODE	P1-40/M4/SVB/HI11
EAN	4015082953690
PRODUCT LENGTH/DEPTH	340 mm
PRODUCT HEIGHT	70 mm
PRODUCT WIDTH	72 mm
PRODUCT WEIGHT	0.355 kg
COMPLIANCES	UKCA CE
CERTIFICATIONS	IEC/EN 60947 IEC/EN 60947-3 IEC/EN 60204
CATALOG NOTES	Rated Short-time Withstand Current (Icw) for a time of 1 second

Actuator

ACTUATOR COLOR	Red
ACTUATOR TYPE	Door coupling rotary drive

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)	1
NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS)	1

Climatic environmental conditions

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
CLIMATIC PROOFING	Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30

Design verification

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.
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.
EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID	0 W
HEAT DISSIPATION CAPACITY PDISS	0 W
HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID	1.9 W
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	40 A
STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS	0 W

Electrical rating

**RATED BREAKING
CAPACITY AT 400/415 V** 290 kA
(COS PHI TO IEC 60947-3)

**RATED BREAKING
CAPACITY AT 660/690 V** 130 kA
(COS PHI TO IEC 60947-3)

**RATED OPERATIONAL
CURRENT (IE) AT AC-21,
440 V** 40 A

**RATED OPERATIONAL
CURRENT (IE) AT AC-23A,
230 V** 40 A

**RATED OPERATIONAL
CURRENT (IE) AT AC-23A,
400 V, 415 V** 40 A

**RATED OPERATIONAL
CURRENT (IE) AT AC-23A,
690 V** 20 A

**RATED OPERATIONAL
CURRENT (IE) AT AC-3,
220 V, 230 V, 240 V** 30 A

**RATED OPERATIONAL
CURRENT (IE) AT AC-3,
380 V, 400 V, 415 V** 30 A

**RATED OPERATIONAL
CURRENT (IE) AT AC-3,
660 V, 690 V** 17 A

**RATED OPERATIONAL
POWER AT AC-23A,
220/230 V, 50 HZ** 11 kW

**RATED OPERATIONAL
POWER AT AC-23A, 400 V,
50 HZ** 22 kW

**RATED OPERATIONAL
POWER AT AC-23A, 690 V,
50 HZ** 18.5 kW

**RATED OPERATIONAL
POWER AT AC-3, 380/400
V, 50 HZ** 15 kW

**RATED OPERATIONAL
POWER AT AC-3, 415 V, 50
HZ** 15 kW

**RATED OPERATIONAL
POWER AT AC-3, 690 V, 50
HZ** 15 kW

**RATED OPERATIONAL
VOLTAGE (UE) AT AC -
MAX** 690 V

**RATED UNINTERRUPTED
CURRENT (IU)** 40 A

UNINTERRUPTED Rated uninterrupted

Features & functions

FEATURES

Version as main switch
Version as maintenance-
/service switch
Version as emergency stop
installation

FITTED WITH:

Red rotary handle and
yellow locking ring
Metal shaft for a control
panel depth of 400 mm

FUNCTIONS

Emergency switching off
function
Interlockable

LOCKING FACILITY

Lockable in the 0 (Off)
position

NUMBER OF POLES

3

CURRENT	current I _u is specified for max. cross-section.
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General information

ACCESSORIES	Auxiliary contact or neutral conductor fitted by user.
DEGREE OF PROTECTION	IP65 NEMA Other
DEGREE OF PROTECTION (FRONT SIDE)	IP65
LIFESPAN, MECHANICAL	300,000 Operations
MOUNTING METHOD	Rear mounting
MOUNTING POSITION	As required
OPERATING FREQUENCY	50 Operations/h
OVERVOLTAGE CATEGORY	III
POLLUTION DEGREE	3
PRODUCT CATEGORY	Main switch
RATED IMPULSE WITHSTAND VOLTAGE (UIMP)	6000 V AC
SAFE ISOLATION	440 V AC, Between the contacts, According to EN 61140
SHOCK RESISTANCE	15 g, Mechanical, According to IEC/EN 60068-2-27, Half-sinusoidal shock 20 ms
SWITCHING ANGLE	90 °

Switching capacity

LOAD RATING	1.3 x I _e (with intermittent operation class 12, 60 % duty factor) 1.6 x I _e (with intermittent operation class 12, 40 % duty factor) 2 x I _e (with intermittent operation class 12, 25 % duty factor)
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Short-circuit rating

RATED CONDITIONAL SHORT-CIRCUIT CURRENT (IQ)	80 kA
RATED SHORT-TIME WITHSTAND CURRENT (ICW)	0.64 kA 640 A, Contacts, 1 second
SHORT-CIRCUIT PROTECTION RATING	50 A gG/gL, Fuse, Contacts

Terminal capacities

SCREW SIZE	M4, Terminal screw
TERMINAL CAPACITY	1 x (1 - 4) mm ² , flexible with ferrules to DIN 46228 2 x (1 - 4) mm ² , flexible with ferrules to DIN 46228 1 x 10 mm ² with fork terminal 2 x 10 mm ² with fork terminal
TIGHTENING TORQUE	1.6 Nm, Screw terminals

Resources

BROCHURES	Brochure - T Rotary Cam switch and P Switch-disconnector P1-40 Switch-disconnectors brochure
CATALOGUES	P Switch-disconnectors and T Rotary cam switches catalogue CA042001EN P1-40 Switch-disconnectors
DECLARATIONS OF CONFORMITY	eaton-main-switch-declaration-of-conformity-eu250808en.pdf eaton-main-switch-declaration-of-conformity-uk251291en.pdf
ECAD MODEL	ETN.199937.edz
INSTALLATION INSTRUCTIONS	eaton-switch-disconnector-p1-metal-shaft-il008007zu.pdf
INSTALLATION VIDEOS	Eaton's P Switch-disconnectors used in a factory
MCAD MODEL	eaton-erd-mcad-3d-models-p1-m4-svb-hi11.stp eaton-erd-mcad-drawings-p1-m4-svb-hi11.dwg
MULTIMEDIA	Unboxing Video P140

PROJECT NAME:

PROJECT NUMBER:

PREPARED BY:

DATE:



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