

## Eaton 199894

Eaton Moeller® series P1 Main switch, 40 A, flush mounting, 3 pole, Emergency switching off function, With red rotary handle and yellow locking ring, Lockable in the 0 (Off) position

### General specifications

<b>PRODUCT NAME</b>	Eaton Moeller® series P1 Main switch
<b>CATALOG NUMBER</b>	199894
<b>EAN</b>	4015082952891
<b>PRODUCT LENGTH/DEPTH</b>	75 mm
<b>PRODUCT HEIGHT</b>	70 mm
<b>PRODUCT WIDTH</b>	49 mm
<b>PRODUCT WEIGHT</b>	0.241 kg
<b>COMPLIANCES</b>	UKCA CE
<b>CERTIFICATIONS</b>	IEC/EN 60947 IEC/EN 60947-3 IEC/EN 60204
<b>CATALOG NOTES</b>	Rated Short-time Withstand Current (Icw) for a time of 1 second
<b>MODEL CODE</b>	P1-40/EA/SVB

## Cechy i funkcje

<b>FEATURES</b>	Version as main switch Version as maintenance- /service switch Version as emergency stop installation
<b>FITTED WITH:</b>	Red rotary handle and yellow locking ring Auxiliary contact
<b>FUNCTIONS</b>	Emergency switching off function Interlockable
<b>LOCKING FACILITY</b>	Lockable in the 0 (Off) position
<b>NUMBER OF POLES</b>	3

## Klimatyczne warunki środowiskowe

<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

## Parametry ogólne

<b>DEGREE OF PROTECTION</b>	IP65
<b>DEGREE OF PROTECTION (FRONT SIDE)</b>	IP65
<b>LIFESPAN, MECHANICAL</b>	300,000 Operations
<b>MOUNTING METHOD</b>	Flush mounting
<b>MOUNTING POSITION</b>	As required
<b>OPERATING FREQUENCY</b>	50 Operations/h
<b>OVERVOLTAGE CATEGORY</b>	III
<b>POLLUTION DEGREE</b>	3
<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>SHOCK RESISTANCE</b>	15 g, Mechanical, According to IEC/EN 60068-2-27, Half- sinusoidal shock 20 ms
<b>SWITCHING ANGLE</b>	90 °

## Pojemność zacisków

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

## Parametry elektryczne

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

## Wytrzymałość zwarciova

**RATED CONDITIONAL  
SHORT-CIRCUIT CURRENT** 80 kA  
(IQ)

**RATED SHORT-TIME  
WITHSTAND CURRENT** 0.64 kA  
(ICW) 640 A, Contacts, 1 second

**SHORT-CIRCUIT  
PROTECTION RATING** 50 A gG/gL, Fuse, Contacts

<b>RATED UNINTERRUPTED CURRENT (IU)</b>	40 A
<b>UNINTERRUPTED CURRENT</b>	Rated uninterrupted current I <sub>u</sub> is specified for max. cross-section.

## Zdolność łączeniowa

<b>LOAD RATING</b>	1.3 x I <sub>e</sub> (with intermittent operation class 12, 60 % duty factor)
	1.6 x I <sub>e</sub> (with intermittent operation class 12, 40 % duty factor)
	2 x I <sub>e</sub> (with intermittent operation class 12, 25 % duty factor)

## Uruchamianie

<b>ACTUATOR COLOR</b>	Red
<b>ACTUATOR TYPE</b>	Door coupling rotary drive

## Styki

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

## Weryfikacja projektu

<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>	1.9 W
<b>RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)</b>	40 A
<b>STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS</b>	0 W
<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</b>	Meets the product

<b>INSUL. MAT. TO ABNORMAL HEAT/FIRE BY INTERNAL ELECT. EFFECTS</b>	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 AND COMPONENTS</b>	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.

**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.

**Do pobrania**

	<a href="#">DA-DC-00005059.pdf</a>
	<a href="#">DA-DC-00005061.pdf</a>
<b>DEKLARACJE ZGODNOŚCI</b>	<a href="#">eaton-main-switch-declaration-of-conformity-eu250807en.pdf</a>
<b>INSTRUKCJE MONTAŻU</b>	<a href="#">eaton-switch-disconnector-p1-flush-mounting-il03802003z.pdf</a>
<b>MODELE ECAD</b>	<a href="#">ETN.199894.edz</a>

**PROJECT NAME:**

**PROJECT NUMBER:**

**PREPARED BY:**

**DATA:**



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