



Eaton 199945

Eaton Moeller® series P1 On-Off switch, 40 A, 3 pole + N, surface mounting, with black thumb grip and front plate, in steel enclosure

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PRODUCT NAME	Eaton Moeller® series P1 On-off switch
CATALOG NUMBER	199945
PRODUCT LENGTH/DEPTH	200 mm
PRODUCT HEIGHT	127 mm
PRODUCT WIDTH	150 mm
PRODUCT WEIGHT	1.675 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

PRODUCT CATEGORY	On-Off switch
FEATURES	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.
10.3 DEGREE OF PROTECTION OF	Does not apply, since the entire switchgear needs to

DECLARATIONS OF CONFORMITY	eaton-on-off-switch-declaration-of-conformity-uk251288en.pdf
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ASSEMBLIES	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 thumb grip and front plate Auxiliary contact
OPERATING FREQUENCY	50 Operations/h
POLLUTION DEGREE	3
CLIMATIC PROOFING	Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
ENCLOSURE MATERIAL	Steel
RATED IMPULSE WITHSTAND VOLTAGE (UIMP)	6000 V AC
RATED PERMANENT CURRENT AT AC-21, 400 V	40 A
RATED PERMANENT CURRENT AT AC-23, 400 V	40 A
RATED UNINTERRUPTED CURRENT (IU)	40 A
STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS	0 W
SWITCHING ANGLE	90 °
SWITCHING POWER AT 400 V	22 kW
ACCESSORIES	Auxiliary contact fitted by user.
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	Short thumb-grip
AMBIENT OPERATING TEMPERATURE - MAX	40 °C
AMBIENT OPERATING TEMPERATURE - MIN	-25 °C
AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MAX	40 °C
AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MIN	-25 °C
EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID	0 W
HEAT DISSIPATION CAPACITY PDISS	0 W
HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID	3.5 W
NUMBER OF AUXILIARY CONTACTS (CHANGE-OVER CONTACTS)	0
NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS)	0
HANDLE COLOR	Black
RATED CONDITIONAL SHORT-CIRCUIT CURRENT (IQ)	80 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	3+N
MOUNTING METHOD	Surface mounting
DEGREE OF PROTECTION	IP65 NEMA Other
NUMBER OF SWITCHES	1

SAFE ISOLATION	440 V AC, Between the contacts, According to EN 61140
SCREW SIZE	M4, Terminal screw
SHOCK RESISTANCE	15 g, Mechanical, According to IEC/EN 60068-2-27, Half-sinusoidal shock 20 ms
LIFESPAN, MECHANICAL	300,000 Operations
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)
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
NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS)	0
RATED BREAKING CAPACITY AT 400/415 V (COS PHI TO IEC 60947-3)	290 kA
RATED BREAKING CAPACITY AT 660/690 V (COS PHI TO IEC 60947-3)	130 kA
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 PROTECTION RATING	50 A gG/gL, Fuse, Contacts
RATED OPERATIONAL CURRENT (IE) AT AC-21, 440 V	40 A
RATED OPERATIONAL CURRENT (IE) AT AC-21, 500 V	40 A
RATED OPERATIONAL CURRENT (IE) AT AC-21, 690 V	40 A

RATED OPERATIONAL CURRENT (IE) AT AC-22, 380 V, 400 V, 415 V	40 A
RATED OPERATIONAL CURRENT (IE) AT AC-22, 500 V	40 A
RATED OPERATIONAL CURRENT (IE) AT AC-22, 690 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 CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	40 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
TIGHTENING TORQUE	1.6 Nm, 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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