



## Eaton 199964

Eaton Moeller® series P1 On-Off switch, 40 A, rear mounting, 3 pole, with black thumb grip and front plate

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<b>PRODUCT NAME</b>	Eaton Moeller® series P1 On-off switch
<b>CATALOG NUMBER</b>	199964
<b>PRODUCT LENGTH/DEPTH</b>	130 mm
<b>PRODUCT HEIGHT</b>	70 mm
<b>PRODUCT WIDTH</b>	49 mm
<b>PRODUCT WEIGHT</b>	0.131 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>PRODUCT CATEGORY</b>	On-Off switch
<b>ACTUATOR COLOR</b>	Black
<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.
<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 INSUL. MAT. TO ABNORMAL HEAT/FIRE BY INTERNAL ELECT. EFFECTS</b>	Meets the product 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</b>	Meets the product

DECLARATIONS OF CONFORMITY	<a href="#">eaton-on-off-switch-declaration-of-conformity-uk251288en.pdf</a>
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<b>CREEPAGE DISTANCES</b>	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>FITTED WITH:</b>	Black thumb grip and front plate Auxiliary contact
<b>OPERATING FREQUENCY</b>	50 Operations/h
<b>POLLUTION DEGREE</b>	3
<b>CLIMATIC PROOFING</b>	Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
<b>RATED IMPULSE WITHSTAND VOLTAGE (UIMP)</b>	6000 V AC
<b>RATED PERMANENT CURRENT AT AC-21, 400 V</b>	40 A
<b>RATED PERMANENT CURRENT AT AC-23, 400 V</b>	40 A
<b>RATED UNINTERRUPTED CURRENT (IU)</b>	40 A
<b>STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS</b>	0 W
<b>SWITCHING ANGLE</b>	90 °
<b>SWITCHING POWER AT 400 V</b>	22 kW
<b>DEVICE CONSTRUCTION</b>	Built-in device fixed built-in technique
<b>RATED SHORT-TIME WITHSTAND CURRENT (ICW)</b>	0.64 kA 640 A, Contacts, 1 second
<b>ELECTRICAL</b>	Screw connection

<b>CONNECTION TYPE OF MAIN CIRCUIT</b>	
<b>MOUNTING POSITION</b>	As required
<b>ACTUATOR TYPE</b>	Short thumb-grip
<b>AMBIENT OPERATING TEMPERATURE - MAX</b>	50 °C
<b>AMBIENT OPERATING TEMPERATURE - MIN</b>	-25 °C
<b>AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MAX</b>	40 °C
<b>AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MIN</b>	-25 °C
<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>NUMBER OF AUXILIARY CONTACTS (CHANGE-OVER CONTACTS)</b>	0
<b>NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS)</b>	0
<b>HANDLE COLOR</b>	Black
<b>RATED CONDITIONAL SHORT-CIRCUIT CURRENT (IQ)</b>	80 kA
<b>OVERVOLTAGE CATEGORY</b>	III
<b>CONTROL CIRCUIT RELIABILITY</b>	1 failure per 100,000 switching operations statistically determined, at 24 V DC, 10 mA)
<b>DEGREE OF PROTECTION (FRONT SIDE)</b>	IP65
<b>NUMBER OF POLES</b>	3
<b>MOUNTING METHOD</b>	Rear mounting
<b>DEGREE OF PROTECTION</b>	IP65 NEMA Other
<b>NUMBER OF SWITCHES</b>	1
<b>SAFE ISOLATION</b>	440 V AC, Between the contacts, According to EN 61140
<b>SCREW SIZE</b>	M4, Terminal screw
<b>SHOCK RESISTANCE</b>	15 g, Mechanical,

	According to IEC/EN 60068-2-27, Half-sinusoidal shock 20 ms
<b>LIFESPAN, MECHANICAL</b>	300,000 Operations
<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)
<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>NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS)</b>	0
<b>RATED BREAKING CAPACITY AT 400/415 V (COS PHI TO IEC 60947-3)</b>	290 kA
<b>RATED BREAKING CAPACITY AT 660/690 V (COS PHI TO IEC 60947-3)</b>	130 kA
<b>RATED OPERATING VOLTAGE (UE) - MAX</b>	690 V
<b>RATED OPERATING VOLTAGE (UE) - MIN</b>	690 V
<b>RATED OPERATIONAL VOLTAGE (UE) AT AC - MAX</b>	690 V
<b>SHORT-CIRCUIT PROTECTION RATING</b>	50 A gG/gL, Fuse, Contacts
<b>RATED OPERATIONAL CURRENT (IE) AT AC-21, 440 V</b>	40 A
<b>RATED OPERATIONAL CURRENT (IE) AT AC-21, 500 V</b>	40 A
<b>RATED OPERATIONAL CURRENT (IE) AT AC-21, 690 V</b>	40 A
<b>RATED OPERATIONAL CURRENT (IE) AT AC-22, 380 V, 400 V, 415 V</b>	40 A
<b>RATED OPERATIONAL CURRENT (IE) AT AC-22, 500 V</b>	40 A

<b>RATED OPERATIONAL CURRENT (IE) AT AC-22, 690 V</b>	40 A
<b>RATED OPERATIONAL CURRENT (IE) AT AC-23A, 230 V</b>	40 A
<b>RATED OPERATIONAL CURRENT (IE) AT AC-23A, 400 V, 415 V</b>	40 A
<b>RATED OPERATIONAL CURRENT (IE) AT AC-23A, 690 V</b>	20 A
<b>RATED OPERATIONAL CURRENT (IE) AT AC-3, 220 V, 230 V, 240 V</b>	30 A
<b>RATED OPERATIONAL CURRENT (IE) AT AC-3, 380 V, 400 V, 415 V</b>	30 A
<b>RATED OPERATIONAL CURRENT (IE) AT AC-3, 660 V, 690 V</b>	17 A
<b>RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)</b>	40 A
<b>RATED OPERATIONAL POWER AT AC-23A, 220/230 V, 50 HZ</b>	11 kW
<b>RATED OPERATIONAL POWER AT AC-23A, 400 V, 50 HZ</b>	22 kW
<b>RATED OPERATIONAL POWER AT AC-23A, 690 V, 50 HZ</b>	18.5 kW
<b>RATED OPERATIONAL POWER AT AC-3, 380/400 V, 50 HZ</b>	15 kW
<b>RATED OPERATIONAL POWER AT AC-3, 415 V, 50 HZ</b>	15 kW
<b>RATED OPERATIONAL POWER AT AC-3, 690 V, 50 HZ</b>	15 kW
<b>TIGHTENING TORQUE</b>	1.6 Nm, Screw terminals
<b>UNINTERRUPTED CURRENT</b>	Rated uninterrupted current I <sub>u</sub> is specified for max. cross-section.
<b>HOUSING COLOR</b>	Black
<b>HOUSING MATERIAL</b>	Plastic

