

**Main switch, P1, 40 A, rear mounting, 3 pole + N, 1 N/O, 1 N/C, Emergency switching off function, With red rotary handle and yellow locking ring, Lockable in the 0 (Off) position**

**Part no.** P1-40/V/SVB/N/HI11  
**199956**  
**EL Number** 1403769  
**(Norway)**

<b>General specifications</b>	
Product name	Eaton Moeller® series P1 Main switch
Part no.	P1-40/V/SVB/N/HI11
EAN	4015082952914
Product Length/Depth	90 millimetre
Product height	70 millimetre
Product width	78 millimetre
Product weight	0.335 kilogram
Compliances	UKCA CE
Certifications	IEC/EN 60947-3 IEC/EN 60947 IEC/EN 60204
Product Tradename	P1
Product Type	Main switch
Product Sub Type	None
Catalog Notes	Rated Short-time Withstand Current (I <sub>cw</sub> ) for a time of 1 second
<b>Features &amp; Functions</b>	
Features	Version as main switch Version as maintenance-/service switch Version as emergency stop installation
Fitted with:	Red rotary handle and yellow locking ring
Functions	Emergency switching off function Interlockable
Locking facility	Lockable in the 0 (Off) position
Number of poles	3+N
<b>General information</b>	
Accessories	Auxiliary contact or neutral conductor fitted by user.
Degree of protection	IP65
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
Rated impulse withstand voltage (U <sub>imp</sub> )	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 °
<b>Climatic environmental conditions</b>	
Ambient operating temperature - min	-25 °C
Ambient operating temperature - max	50 °C
Ambient operating temperature (enclosed) - min	-25 °C
Ambient operating temperature (enclosed) - max	40 °C
Climatic proofing	Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
<b>Terminal capacities</b>	
Terminal capacity	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
Screw size		M4, Terminal screw
Tightening torque		1.6 Nm, Screw terminals
<b>Electrical rating</b>		
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 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 - min		690 V
Rated operational voltage (Ue) at AC - max		690 V
Rated uninterrupted current (Iu)		40 A
Uninterrupted current		Rated uninterrupted current Iu is specified for max. cross-section.
<b>Short-circuit rating</b>		
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
<b>Switching capacity</b>		
Load rating		1.3 x I# (with intermittent operation class 12, 60 % duty factor) 1.6 x I# (with intermittent operation class 12, 40 % duty factor) 2 x I# (with intermittent operation class 12, 25 % duty factor)
<b>Contacts</b>		
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
<b>Actuator</b>		
Actuator color		Red
Actuator type		Door coupling rotary drive
<b>Design verification</b>		
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
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.
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.

## Technical data ETIM 8.0

Low-voltage industrial components (EG000017) / Switch disconnecter (EC000216)		
Electric engineering, automation, process control engineering / Low-voltage switch technology / Off-load switch, circuit breaker, control switch / Switch disconnecter (ec@ss10.0.1-27-37-14-03 [AKF060013])		
Version as main switch		Yes
Version as maintenance-/service switch		Yes
Version as safety switch		No
Version as emergency stop installation		Yes
Version as reversing switch		No
Number of switches		1
Max. rated operation voltage Ue AC	V	690
Rated operating voltage	V	690 - 690
Rated permanent current Iu	A	40
Rated permanent current at AC-23, 400 V	A	40
Rated permanent current at AC-21, 400 V	A	40
Rated operation power at AC-3, 400 V	kW	15
Rated short-time withstand current Icw	kA	0.64
Rated operation power at AC-23, 400 V	kW	22
Switching power at 400 V	kW	22
Conditioned rated short-circuit current Iq	kA	80
Number of poles		4
Number of auxiliary contacts as normally closed contact		1
Number of auxiliary contacts as normally open contact		1
Number of auxiliary contacts as change-over contact		0
Motor drive optional		No
Motor drive integrated		No
Voltage release optional		No
Device construction		Built-in device fixed built-in technique
Suitable for floor mounting		No
Suitable for front mounting 4-hole		No
Suitable for front mounting centre		No
Suitable for distribution board installation		No
Suitable for intermediate mounting		No
Colour control element		Red
Type of control element		Door coupling rotary drive
Interlockable		Yes
Type of electrical connection of main circuit		Screw connection
Degree of protection (IP), front side		IP65
Degree of protection (NEMA)		

