Main switch, P1, 40 A, flush mounting, 3 pole + N, Emergency switching off function, With red rotary handle and yellow locking ring, Lockable in the 0 (Off) position  $\frac{1}{2}$ 



Part no. P1-40/EA/SVB/N

199896

**EL Number** 1403729

(Norway)

(Norway)		
General specifications		
Product name	Ea	aton Moeller® series P1 Main switch
Part no.	P1	1-40/EA/SVB/N
EAN	40	015082953126
Product Length/Depth	12	20 millimetre
Product height	70	) millimetre
Product width	65	5 millimetre
Product weight	0.2	271 kilogram
Compliances	UI CE	KCA
Certifications	IE IE	C/EN 60947-3 C/EN 60947 C/EN 60204
Product Tradename	P1	1
Product Type	M	lain switch
Product Sub Type	Ne	one
Catalog Notes	Ra	ated Short-time Withstand Current (Icw) for a time of 1 second
Features & Functions		
Features	Ve	ersion as main switch ersion as maintenance-/service switch ersion as emergency stop installation
Fitted with:		ed rotary handle and yellow locking ring uxiliary contact
Functions		mergency switching off function Iterlockable
Locking facility	Lo	ockable in the 0 (Off) position
Number of poles	3+	+N
General information		
Accessories	Au	uxiliary contact fitted by user.
Degree of protection	IP	P65
Degree of protection (front side)	IP	265
Lifespan, mechanical	30	00,000 Operations
Mounting method	Flu	ush mounting
Mounting position	As	s required
Operating frequency	50	O Operations/h
Overvoltage category	III	I
Pollution degree	3	
Rated impulse withstand voltage (Uimp)	60	000 V AC
Safe isolation	44	40 V AC, Between the contacts, According to EN 61140
Shock resistance	15	og, Mechanical, According to IEC/EN 60068-2-27, Half-sinusoidal shock 20 ms
Switching angle	90	)°
Climatic environmental conditions		
Ambient operating temperature - min	-2	25 °C
Ambient operating temperature - max	50	0°C
Ambient operating temperature (enclosed) - min	-2	25 °C
Ambient operating temperature (enclosed) - max	40	0°C
Climatic proofing		amp heat, constant, to IEC 60068-2-78 amp heat, cyclic, to IEC 60068-2-30
Terminal capacities		

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 $2 \times 10 \text{ mm}^2$ with fork terminal
Screw size	M4, Terminal screw
Tightening torque	1.6 Nm, Screw terminals
Electrical rating	
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 (le) 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 (le) at AC-3, 660 V, 690 V	17 A
Rated operational current (le) at AC-21, 440 V	40 A
Rated operational current (le) at AC-23A, 230 V	40 A
Rated operational current (le) at AC-23A, 400 V, 415 V	40 A
Rated operational current (le) 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 lu is specified for max. cross-section.
Short-circuit rating	
Rated conditional short-circuit current (Iq)	80 kA
Rated short-time withstand current (Icw)	0.64 kA
nated short aline with stand current (rew)	640 A, Contacts, 1 second
Short-circuit protection rating	50 A gG/gL, Fuse, Contacts
Switching capacity	
Load rating	1.3 x l# (with intermittent operation class 12, 60 % duty factor) 1.6 x l# (with intermittent operation class 12, 40 % duty factor) 2 x l# (with intermittent operation class 12, 25 % duty factor)
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)	0
Number of auxiliary contacts (normally open contacts)	0
Actuator	
Actuator color	Red
Actuator type	Door coupling rotary drive
Design verification	
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.
many	

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 disconnector (EC000216)

Electric engineering, automation, process control engineering / Low-voltage switch technology / Off-load switch, circuit breaker, control switch / Switch disconnector (ecl@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 lu	Α	40
Rated permanent current at AC-23, 400 V	Α	40
Rated permanent current at AC-21, 400 V	Α	40
Rated operation power at AC-3, 400 V	kW	15
Rated short-time withstand current lcw	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		0
Number of auxiliary contacts as normally open contact		0
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)