Main switch, P1, 40 A, surface mounting, 3 pole, STOP function, With black rotary handle and locking ring, Lockable in the 0 (Off) position, hard knockout version



Part no. P1-40/I2H/SVB-SW

199925

**EL Number** 1403755

(Norway)

(Norway)		
General specifications		
Product name	Eaton Moeller® series P1	Main switch
Part no.	P1-40/I2H/SVB-SW	
EAN	4015082953287	
Product Length/Depth	115 millimetre	
Product height	180 millimetre	
Product width	100 millimetre	
Product weight	0.556 kilogram	
Compliances	CE UKCA	
Certifications	IEC/EN 60947 IEC/EN 60204 IEC/EN 60947-3	
Product Tradename	P1	
Product Type	Main switch	
Product Sub Type	None	
Catalog Notes	Rated Short-time Withstar	d Current (Icw) for a time of 1 second
Features & Functions		
Enclosure material	Polycarbonate	
Features	Version as main switch Version as maintenance-/s Version as emergency sto	
Fitted with:	Red rotary handle and yell Auxiliary contact	ow locking ring
Functions	Interlockable STOP function	
Locking facility	Lockable in the 0 (Off) pos	tion
Number of poles	3+N	
General information		
Accessories	Auxiliary contact fitted by	user.
Degree of protection	IP65	
Degree of protection (front side)	IP65	
Lifespan, mechanical	300,000 Operations	
Mounting method	Surface mounting	
Mounting position	As required	
Operating frequency	50 Operations/h	
Overvoltage category	III	
Pollution degree	3	
Rated impulse withstand voltage (Uimp)	6000 V AC	
Safe isolation	440 V AC, Between the co	ntacts, According to EN 61140
Shock resistance	15 g, Mechanical, Accordi	ng to IEC/EN 60068-2-27, Half-sinusoidal shock 20 ms
Switching angle	90 °	
Climatic environmental conditions		
Ambient operating temperature - min	-25 °C	
Ambient operating temperature - max	40 °C	
Ambient operating temperature (enclosed) - min	-25 °C	
Ambient operating temperature (enclosed) - max	40 °C	
Climatic proofing	Damp heat, constant, to IE	C 60068-2-78
,	Damp heat, cyclic, to IEC 6	

1 x (1 - 4) mm <sup>2</sup> , flexible with ferrules to DIN 46228
2 x (1 - 4) mm², flexible with ferrules to DIN 46228 1 x 10 mm² with fork terminal
2 x 10 mm <sup>2</sup> with fork terminal
M4, Terminal screw
1.6 Nm, Screw terminals
290 kA
130 kA
30 A
30 A
17 A
40 A
40 A
40 A
20 A
15 kW
15 kW
15 kW
11 kW
22 kW
18.5 kW
690 V
690 V
40 A
Rated uninterrupted current lu is specified for max. cross-section.
80 kA
0.64 kA
640 A, Contacts, 1 second  50 A gG/qL, Fuse, Contacts
30 A gu/gc, ruse, contacts
40.1%/ 21.1
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 l# (with intermittent operation class 12, 25 % duty factor)
1 failure per 100,000 switching operations statistically determined, at 24 V DC, 10 mA)
0
0
0
Red
Door coupling rotary drive
0 W
0 W
3.5 W
40 A
0 W
Meets the product standard's requirements.
Meets the product standard's requirements.
Meets the product standard's requirements.
Meets the product standard's requirements.  Meets the product standard's requirements.  UV resistance only in connection with protective shield.

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 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 maintanance / Service switch         Yes           Version as seafety switch         Yes           Version as emergency stop installation         Yes           Version as emergency stop installation         Yes           Number of switches         1           Max. rated operation voltage Ue AC         V         80°-890           Rated operating voltage         A         40°-890           Rated permanent current at AC-23, 400 V         A         40°-20           Rated permanent current at AC-23, 400 V         A         40°-20           Rated short-sime withstand current low         Ka         52°-20           Rated operation power at AC-23, 400 V         Ka         52°-20           Rated short-sime withstand current low         Ka         52°-20           Rated operation power at AC-23, 400 V         Ka         52°-20           Switching power at 400 V         Ka         52°-20           Switching power at 400 V         Ka         52°-20           Switching power at 400 V         Ka         52°-20           Number of auxiliary contacts as normally closed contact         Ka         50°-20           Number of auxiliary contacts as change-over contact         Ka         60°-20           Voltage release optional         Ka         6	[410 00010])		
Version as safety switch         Yes           Version as emergency stop installation         Yes           Version as energency stop installation         Yes           Number of switches         In           Number of switches         Y         89           Rated operating voltage         Y         80           Rated operating voltage         A         40           Rated permanent current up         A         40           Rated permanent current at AC-23,400 V         A         40           Rated operation power at AC-3,400 V         K         15           Rated short-time withstand current low         K         22           Switching power at AC-23,400 V         K         22           Rated permanent current low         K         30           Rated short-time withstand current low         K         22           Switching power at AC-23,400 V         K         22           Switching power at AC-23,400 V         K         22           Number of auxiliary contacts as normally closed contact         K         30           Number of auxiliary contacts as normally closed contact         K         4           Number of auxiliary contacts as anormally closed contact         K         No           Wotto of rive	Version as main switch		Yes
Version as emergency stop installation         Yes           Version as reversing switch         Incompose of switches           Number of switches         V           Rate operation voltage Ue AC         V           Rate operation voltage         V           Rated permanent current lu         A           Rated permanent current at AC-23, 400 V         A           Rated operation power at AC-3, 400 V         A           Rated permanent current lew         A           Rated permanent current lew         A           Rated operation power at AC-3, 400 V         AW           Rated permanent current lew         A           Round operation power at AC-3, 400 V         AW           Rated permanent current lew         A           Number of polose         B           Number of auxiliary contacts as normally closed contact         B           Number of auxiliary contacts as change-over contact         B           Motor drive integrated         B           Voltage release optional         B <t< td=""><td>Version as maintenance-/service switch</td><td></td><td>Yes</td></t<>	Version as maintenance-/service switch		Yes
Version as reversing switch         No           Number of switches         1           Max. rated operation voltage Ue AC         V         890 - 890           Rated operation yoltage         V         890 - 890           Rated operation routrent to TAC-23, 400 V         A         40           Rated permanent current at AC-23, 400 V         A         40           Rated short-stime withstand current low         A         40           Rated operation power at AC-23, 400 V         AW         56           Rated short-stime withstand current low         A         40           Rated short-stime withstand current low         AW         22           Conditioned rated short-circuit current low         AW         22           Conditioned rated short-circuit current low         AW         80           Number of poles         A         80           Number of poles         A         80           Number of poles         A         80           Number of auxiliary contacts as normally closed contact         B         0           Number of auxiliary contacts as change-over contact         B         No           Motor drive optional         B         No           Motor drive optional         B         No	Version as safety switch		No
Number of switches                   1           Max. rated operation voltage Ue AC         V         690           Rated operation voltage Ue AC         V         690           Rated permanent current up AC-23,400 V         A         4           Rated permanent current at AC-21,400 V         A         4           Rated permanent current at AC-21,400 V         A         4           Rated short-time withstand current lew         KA         0.84           Number of poles         Lamber of suxiliary contacts as normally closed contact         KA         0.9           Number of auxiliary contacts as change-over contact         Lamber of auxiliary contacts as change-over	Version as emergency stop installation		Yes
Max. rated operation voltage Ue AC         V         690 - 690           Rated operating voltage         V         690 - 690           Rated permanent current tu         A         40           Rated permanent current at AC-21,400 V         A         40           Rated operation power at AC-3,400 V         BW         15           Rated permanent current tew         KM         0.64           Rated operation power at AC-23,400 V         KM         22           Rated operation power at AC-23,400 V         KW         22           Switching power at 400 V         KW         22           Conditioned rated short-circuit current 1q         KW         22           Number of poles         V         6         4           Number of auxiliary contacts as normally closed contact         V         0         6           Number of auxiliary contacts as change-over contact         V         No         No           Motor drive optional         V         No         No           Motor drive optional         V         No         No           Device construction         V         No         No           Suitable for front mounting         V         No         No           Suitable for front mounting 4-hole	Version as reversing switch		No
Rated operating voltage         V         690 - 690           Rated permanent current lu         A         40           Rated permanent current at AC-23, 400 V         A         40           Rated operation power at AC-3, 400 V         A         40           Rated operation power at AC-3, 400 V         kW         15           Rated operation power at AC-3, 400 V         kW         22           Switching power at 400 V         kW         22           Conditioned rated short-circuit current Iq         kA         80           Number of poles         kA         80           Number of auxiliary contacts as normally closed contact         kA         90           Number of auxiliary contacts as normally open contact         0         0           Number of auxiliary contacts as change-over contact         No         No           Motor drive integrated         No         No           Voltage release optional         No         Complete device in housing           Suitable for floor mounting         No         No           Suitable for front mounting 4-hole         No         No           Suitable for front mounting and installation         No         No           Suitable for intermediate mounting         No         No	Number of switches		1
Rated permanent current tu         A         40           Rated permanent current at AC-23, 400 V         A         40           Rated permanent current at AC-21, 400 V         A         40           Rated permanent current at AC-23, 400 V         kW         15           Rated short-time withstand current Icw         kA         0.64           Rated short-time withstand current Icw         kW         22           Switching 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         k         4           Number of auxiliary contacts as normally closed contact         k         0           Number of auxiliary contacts as change-over contact         p         0           Number of auxiliary contacts as change-over contact         p         No           Motor drive optional         p         No           Notor drive optional         p         No           Notation of foor mounting         p         No           Suitable for floor mounting         p         No           Suitable for front mounting entre         p         No           Suitable for front mounting entre <td>Max. rated operation voltage Ue AC</td> <td>V</td> <td>690</td>	Max. rated operation voltage Ue AC	V	690
Rated permanent current at AC-23, 400 V Rated permanent current at AC-21, 400 V Rated operation power at AC-3, 400 V Rated operation power at AC-3, 400 V Rated short-time withstand current lcw Rated operation power at AC-23, 400 V Rated short-time withstand current lcw Rated short-time with	Rated operating voltage	V	690 - 690
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 low         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 lq         kA         80           Number of poles         kA         80           Number of auxiliary contacts as normally closed contact         y         0           Number of auxiliary contacts as normally open contact         y         0           Number of auxiliary contacts as change-over contact         y         0           Motor drive optional         y         0           Motor drive optional         y         0           Device construction         y         0           Suitable for floor munting         y         0           Suitable for floor munting         y         0           Suitable for fint mounting entre         y         0           Suitable for intermediate mounting         y         0           Suitable for intermediate mounting         y         0           Colour control element         y <t< td=""><td>Rated permanent current lu</td><td>Α</td><td>40</td></t<>	Rated permanent current lu	Α	40
Rated operation power at AC-3, 400 V Rated short-time withstand current lcw Rated short-time withstand current lcw Rated operation power at AC-23, 400 V RW 22 Conditioned rated short-circuit current lq RW RW RUMBER of poles RUMBER of auxiliary contacts as normally closed contact RUMBER of auxiliary contacts as normally open contact RUMBER of auxiliary contacts as normally open contact RUMBER of auxiliary contacts as change-over contact RUMBER of auxiliary contacts as normally open contact RUMBER of auxiliary co	Rated permanent current at AC-23, 400 V	Α	40
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         LA         4           Number of auxiliary contacts as normally closed contact         C         0           Number of auxiliary contacts as change-over contact         No         No           Motor drive optional         No         No           Motor drive integrated         No         Complete device in housing           Voltage release optional         No         Complete device in housing           Suitable for floor mounting         No         No           Suitable for front mounting 4-hole         No         No           Suitable for front mounting centre         No         No           Suitable for intermediate mounting         No         No           Suitable for intermediate mounting         No         No           Colour control element         No         No           Type of control element         No         No           Type of control element         No         No           Type of control element	Rated permanent current at AC-21, 400 V	Α	40
Rated operation power at AC-23, 400 V         kW         22           Switching power at 400 V         kM         22           Conditioned rated short-circuit current Iq         kA         80           Number of poles         4         4           Number of auxiliary contacts as normally closed contact         0         0           Number of auxiliary contacts as normally open contact         0         0           Motor drive optional         No         No           Motor drive integrated         No         No           Voltage release optional         No         Complete device in housing           Suitable for floor mounting         No         No           Suitable for front mounting 4-hole         No         No           Suitable for front mounting centre         No         No           Suitable for distribution board installation         No         No           Suitable for intermediate mounting         No         No           Colour control element         No         No           Type of control element         No         No	Rated operation power at AC-3, 400 V	kW	15
Switching power at 400 V         kW         22           Conditioned rated short-circuit current Iq         kA         80           Number of poles         4         4           Number of auxiliary contacts as normally closed contact         0         0           Number of auxiliary contacts as normally open contact         0         0           Number of auxiliary contacts as change-over contact         No         No           Motor drive optional         No         No           Motor drive integrated         No         No           Voltage release optional         No         Complete device in housing           Suitable for floor mounting         No         No           Suitable for front mounting 4-hole         No         No           Suitable for front mounting centre         No         No           Suitable for distribution board installation         No         No           Suitable for intermediate mounting         No         No           Colour control element         No         No           Type of control element         No         No           Interiockable         No         No	Rated short-time withstand current lcw	kA	0.64
Conditioned rated short-circuit current Iq  Number of poles  Number of auxiliary contacts as normally closed contact  Number of auxiliary contacts as normally open contact  Number of auxiliary contacts as change-over contact  Number of auxiliary contacts as normally open contact  Number of auxiliary contacts as change-over contacts  Number of auxiliary contacts as change-over contac	Rated operation power at AC-23, 400 V	kW	22
Number of poles Number of auxiliary contacts as normally closed contact Number of auxiliary contacts as normally open contact Number of auxiliary contacts as normally open contact Number of auxiliary contacts as change-over contact Number of auxiliary contacts as change-over contact Number of auxiliary contacts as change-over contact Notor drive optional Notor drive integrated No Voltage release optional No Voltage release optional No Device construction Suitable for floor mounting Suitable for floor mounting Suitable for front mounting 4-hole No Suitable for front mounting entre Suitable for intermediate mounting Suitable for intermediat	Switching power at 400 V	kW	22
Number of auxiliary contacts as normally closed contact  Number of auxiliary contacts as normally open contact  Number of auxiliary contacts as change-over contact  Number of auxiliary contacts as change-over contact  No  Motor drive optional  No  No  Voltage release optional  No  Device construction  Suitable for floor mounting  Suitable for front mounting 4-hole  Suitable for front mounting centre  Suitable for distribution board installation  Suitable for intermediate mounting  Suitable for intermediate mounting  Colour control element  Type of control element  Interlockable  No  On coupling rotary drive  Nes  No  No  Red  No  Red  No  Red  No  No  Red  No  Red  No  No  Red  No  No  Red  No  Red  No  No  Red  No  No  Red  No  Red  No  No  No  Red  No  No  No  No  No  No  No  No  No  N	Conditioned rated short-circuit current Iq	kA	80
Number of auxiliary contacts as normally open contact  Number of auxiliary contacts as change-over contact  Motor drive optional  Motor drive integrated  No  Voltage release optional  No  Device construction  Suitable for floor mounting  Suitable for front mounting 4-hole  Suitable for front mounting centre  Suitable for distribution board installation  Suitable for distribution board installation  Suitable for intermediate mounting  Colour control element  Type of control element  Interlockable  O  O  O  O  O  O  O  O  O  O  O  O  O	Number of poles		4
Number of auxiliary contacts as change-over contact  Motor drive optional  Motor drive integrated  No  Voltage release optional  Device construction  Suitable for floor mounting  Suitable for front mounting 4-hole  Suitable for front mounting centre  Suitable for distribution board installation  Suitable for intermediate mounting  Suitable for intermediate mounting  Suitable for fontrol element  Type of control element  Interlockable  No  O  O  O  O  O  O  O  O  O  O  O  O  O	Number of auxiliary contacts as normally closed contact		0
Motor drive optional Motor drive integrated No Voltage release optional Device construction Suitable for floor mounting Suitable for front mounting 4-hole Suitable for front mounting centre No Suitable for distribution board installation Suitable for intermediate mounting Colour control element Type of control element Interlockable No	Number of auxiliary contacts as normally open contact		0
Motor drive integrated  No Voltage release optional  Device construction  Suitable for floor mounting Suitable for front mounting 4-hole Suitable for front mounting centre  No Suitable for distribution board installation  Suitable for intermediate mounting Colour control element Type of control element Interlockable  No  No  No  No  Red  Door coupling rotary drive Interlockable	Number of auxiliary contacts as change-over contact		0
Voltage release optionalNoDevice constructionComplete device in housingSuitable for floor mountingNoSuitable for front mounting 4-holeNoSuitable for front mounting centreNoSuitable for distribution board installationNoSuitable for intermediate mountingNoColour control elementRedType of control elementDoor coupling rotary driveInterlockableYes	Motor drive optional		No
Device construction  Suitable for floor mounting  Suitable for front mounting 4-hole Suitable for front mounting centre Suitable for distribution board installation Suitable for intermediate mounting  Colour control element Type of control element Interlockable  Complete device in housing Complete device in housing  No  Complete device in housing  No  No  Door coupling rotary drive  Yes	Motor drive integrated		No
Suitable for floor mounting Suitable for front mounting 4-hole Suitable for front mounting centre Suitable for distribution board installation Suitable for intermediate mounting Suitable for distribution board installation Suitable	Voltage release optional		No
Suitable for front mounting 4-hole Suitable for front mounting centre No Suitable for distribution board installation Suitable for intermediate mounting Colour control element Type of control element Interlockable  No  No  Red  Door coupling rotary drive Yes	Device construction		Complete device in housing
Suitable for front mounting centre  Suitable for distribution board installation  Suitable for intermediate mounting  Colour control element  Type of control element  Interlockable  No  No  Red  Door coupling rotary drive  Yes	Suitable for floor mounting		No
Suitable for distribution board installation  Suitable for intermediate mounting  Colour control element  Type of control element  Interlockable  No  Red  Door coupling rotary drive  Yes	Suitable for front mounting 4-hole		No
Suitable for intermediate mounting  Colour control element  Type of control element  Interlockable  No  Red  Door coupling rotary drive  Yes	Suitable for front mounting centre		No
Colour control element  Type of control element  Interlockable  Red  Door coupling rotary drive  Yes	Suitable for distribution board installation		No
Type of control element Door coupling rotary drive Interlockable Yes	Suitable for intermediate mounting		No
Interlockable Yes	Colour control element		Red
	Type of control element		Door coupling rotary drive
Type of electrical connection of main circuit Screw connection	Interlockable		Yes
	Type of electrical connection of main circuit		Screw connection

Degree of protection (IP), front side	IP65	
Degree of protection (NEMA)		