## Specifications

## Eaton 255887

Eaton Moeller® series P1 On-Off switch, P1, 25 A, surface mounting, 3 pole, Emergency switching off function, with red thumb grip and yellow front plate, UL/CSA

General Specification	ns
PRODUCT NAME	Eaton Moeller® series P1 On-off switch
CATALOG NUMBER	255887
EAN	4015082558871
PRODUCT LENGTH/DEPTH	107 mm
PRODUCT HEIGHT	180 mm
PRODUCT WIDTH	100 mm
PRODUCT WEIGHT	0.43 kg
CERTIFICATIONS	UL 60947-4-1 UL Category Control No.: NLRV CE IEC/EN 60947-3 UL File No.: E36332 VDE 0660 CSA Class No.: 3211-05 CSA File No.: 012528 CSA-C22.2 No. 60947-4-1- 14 IEC/EN 60947 UL CSA-C22.2 No. 94 IEC/EN 60204 CSA
MODEL CODE	P1-25/I2-RT-NA



Product specification	S
PRODUCT CATEGORY	On-Off switch
FEATURES	Version as emergency stop installation
ACTUATOR COLOR	Red
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	Meets the product
ABNORMAL HEAT/FIRE BY INTERNAL ELECT. EFFECTS	standard's requirements.
BY INTERNAL ELECT.	
BY INTERNAL ELECT. EFFECTS  10.2.4 RESISTANCE TO ULTRA-VIOLET (UV)	standard's requirements.  UV resistance only in connection with protective
BY INTERNAL ELECT. EFFECTS  10.2.4 RESISTANCE TO ULTRA-VIOLET (UV) RADIATION	UV resistance only in connection with protective shield.  Does not apply, since the entire switchgear needs to
BY INTERNAL ELECT. EFFECTS  10.2.4 RESISTANCE TO ULTRA-VIOLET (UV) RADIATION  10.2.5 LIFTING	UV resistance only in connection with protective shield.  Does not apply, since the entire switchgear needs to be evaluated.  Does not apply, since the entire switchgear needs to

10.4 CLEARANCES AND CREEPAGE DISTANCES 10.5 PROTECTION AGAINST ELECTRIC SHOCK 10.6 INCORPORATION OF SWITCHING DEVICES AND COMPONENTS 10.7 INTERNAL ELECTRICAL CIRCUITS AND CONNECTIONS 10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS 10.9.2 POWER- FREQUENCY ELECTRIC STRENGTH 10.9.3 IMPULSE WITHSTAND VOLTAGE INSULATING MATERIAL  CLIMATIC PROOFING CLIMATIC PROOFING RATED IMPULSE WITHSTAND VOLTAGE (UIMP)  RATED PERMANENT CURRENT AT AC-21, 400 V RATED PERMANENT CURRENT (IU)  SWITCHING POWER AT DISSIPATION, NON- CURRENT (IU)  SWITCHING POWER AT A00 V  ACCESSORIES  RATED OPERATIONAL  RATED OPERATIONAL  AUXIliary contact or neutral conductor fitted by user.  RATED OPERATIONAL  AUXIliary contact or neutral conductor fitted by user.  RATED OPERATIONAL  AUXIliary contact or neutral conductor fitted by user.  RATED OPERATIONAL  AUXIliary contact or neutral conductor fitted by user.	ACCEMBLIEC	ha avaluatad
CREEPAGE DISTANCESstandard's requirements.10.5 PROTECTION AGAINST ELECTRIC SHOCKDoes not apply, since the entire switchgear needs to be evaluated.10.6 INCORPORATION OF SWITCHING DEVICES AND COMPONENTSDoes not apply, since the entire switchgear needs to be evaluated.10.7 INTERNAL ELECTRICAL CIRCUITS AND CONNECTIONSIs the panel builder's responsibility.10.8 CONNECTIONS FOR EXTERNAL CONDUCTORSIs the panel builder's responsibility.10.9.2 POWER- FREQUENCY ELECTRIC STRENGTHIs the panel builder's responsibility.10.9.3 IMPULSE WITHSTAND VOLTAGEIs the panel builder's responsibility.10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIALIs the panel builder's responsibility.FITTED WITH:Red thumb grip and yellow front plateOPERATING FREQUENCY1200 Operations/hPOLLUTION DEGREE3CLIMATIC PROOFINGDamp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30RATED IMPULSE WITHSTAND VOLTAGE (UIMP)25 ARATED PERMANENT CURRENT AT AC-21, 400 V25 ARATED PERMANENT CURRENT AT AC-23, 400 V25 ARATED UNINTERRUPTED CURRENT (IU)25 ASTATIC HEAT DISSIPATION, NON- CURRENT-DEPENDENT PVS3 kWSWITCHING POWER AT 400 V13 kWACCESSORIESAuxiliary contact or neutral conductor fitted by user.	ASSEMBLIES	be evaluated.
AGAINST ELECTRIC SHOCK  10.6 INCORPORATION OF SWITCHING DEVICES AND COMPONENTS  10.7 INTERNAL ELECTRICAL CIRCUITS AND CONNECTIONS  10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS  10.9.2 POWER-FREQUENCY ELECTRIC STRENGTH  10.9.3 IMPULSE WITHSTAND VOLTAGE  10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL  FITTED WITH:  CLIMATIC PROOFING  RATED IMPULSE WITHSTAND VOLTAGE  CLIMATIC PROOFING  RATED PERMANENT CURRENT A C-21, 400 V  RATED PERMANENT CURRENT A C-23, 400 V  RATED UNINTERRUPTED CURRENT (IU)  STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS  SWITCHING POWER AT 400 V  ACCESSORIES  CASSORIES  POSS NOT APPly, Since the entire switchgear needs to be evaluated.  Does not apply, Since the entire switchgear needs to be evaluated.  Does not apply, Since the entire switchgear needs to be evaluated.  Does not apply, Since the entire switchgear needs to be evaluated.  Is the panel builder's responsibility.  Papel builder's responsibility.  Papel builder's responsibility.  Is the panel builder's responsibility.  Is the panel builder's responsibility.  Papel builder's responsibility.  Pape		•
SWITCHING DEVICES AND COMPONENTS  10.7 INTERNAL ELECTRICAL CIRCUITS AND CONNECTIONS  10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS  10.9.2 POWER-FREQUENCY ELECTRIC STRENGTH  10.9.3 IMPULSE WITHSTAND VOLTAGE INSULATING MATERIAL  FITTED WITH: Red thumb grip and yellow front plate  OPERATING FREQUENCY  POLLUTION DEGREE  CLIMATIC PROOFING  RATED IMPULSE WITHSTAND VOLTAGE (UIMP)  RATED PERMANENT CURRENT AT AC-21, 400 V  RATED PERMANENT CURRENT AT AC-23, 400 V  RATED UNINTERRUPTED CURRENT (IU)  STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS  SWITCHING POWER AT 400 V  ACCESSORIES  AUXILIARY CONTACT PAIR IN SERIES  AUXILIARY CONTACT on neutral conductor fitted by user.	AGAINST ELECTRIC	entire switchgear needs to
ELECTRICAL CIRCUITS AND CONNECTIONS  10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS  10.9.2 POWER-FREQUENCY ELECTRIC STRENGTH  10.9.3 IMPULSE Is the panel builder's responsibility.  10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL  FITTED WITH: Red thumb grip and yellow front plate  OPERATING FREQUENCY  POLLUTION DEGREE  CLIMATIC PROOFING  RATED IMPULSE WITHSTAND VOLTAGE  WITHSTAND VOLTAGE  CLIMATIC PROOFING  RATED IMPULSE WITHSTAND VOLTAGE  WITHSTAND VOLTAGE  (UIMP)  RATED PERMANENT CURRENT AT AC-21, 400 V  RATED PERMANENT CURRENT AT AC-23, 400 V  STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS  SWITCHING POWER AT 400 V  ACCESSORIES  LIS the panel builder's responsibility.  Is the panel builder's responsibility	SWITCHING DEVICES AND	entire switchgear needs to
EXTERNAL CONDUCTORSresponsibility.10.9.2 POWER-FREQUENCY ELECTRIC STRENGTHIs the panel builder's responsibility.10.9.3 IMPULSE WITHSTAND VOLTAGEIs the panel builder's responsibility.10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIALIs the panel builder's responsibility.FITTED WITH:Red thumb grip and yellow front plateOPERATING FREQUENCY1200 Operations/hPOLLUTION DEGREE3CLIMATIC PROOFINGDamp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30RATED IMPULSE WITHSTAND VOLTAGE (UIMP)6000 V ACRATED PERMANENT CURRENT AT AC-21, 400 V25 ARATED PERMANENT CURRENT AT AC-23, 400 V25 ASTATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS0 WSWITCHING POWER AT 400 V13 kWVOLTAGE PER CONTACT PAIR IN SERIES60 VACCESSORIESAuxiliary contact or neutral conductor fitted by user.	ELECTRICAL CIRCUITS	
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WITHSTAND VOLTAGEresponsibility.10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIALIs the panel builder's responsibility.FITTED WITH:Red thumb grip and yellow front plateOPERATING FREQUENCY1200 Operations/hPOLLUTION DEGREE3CLIMATIC PROOFINGDamp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30RATED IMPULSE WITHSTAND VOLTAGE (UIMP)6000 V ACRATED PERMANENT CURRENT AT AC-21, 400 V25 ARATED UNINTERRUPTED CURRENT (IU)25 ASTATIC HEAT DISSIPATION, NON- CURRENT-DEPENDENT PVS0 WSWITCHING POWER AT 400 V13 kWVOLTAGE PER CONTACT PAIR IN SERIES60 VACCESSORIESAuxiliary contact or neutral conductor fitted by user.	FREQUENCY ELECTRIC	·
ENCLOSURES MADE OF INSULATING MATERIAL  FITTED WITH:  OPERATING FREQUENCY POLLUTION DEGREE  CLIMATIC PROOFING  CLIMATIC PROOFING  RATED IMPULSE WITHSTAND VOLTAGE (UIMP)  RATED PERMANENT CURRENT AT AC-21, 400 V  RATED UNINTERRUPTED CURRENT (IU)  STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS  SWITCHING POWER AT 400 V  VOLTAGE PER CONTACT PAIR IN SERIES  Is the panel builder's responsibility.  Red thumb grip and yellow front paid and yellow front plate  Red thumb grip and yellow front plate  Red thumb grip and yellow front plate  OPERATOR POWER AT 400 V  STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS  ACCESSORIES  RATED UNINTER OWER AT 400 V  AUXILIARY CONTACT on neutral conductor fitted by user.		•
POLLUTION DEGREE  CLIMATIC PROOFING  CLIMATIC PROOFING  CLIMATIC PROOFING  CLIMATIC PROOFING  CLIMATIC PROOFING  CLIMATIC PROOFING  Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30  RATED IMPULSE WITHSTAND VOLTAGE (UIMP)  RATED PERMANENT CURRENT AT AC-21, 400 V  RATED PERMANENT CURRENT AT AC-23, 400 V  RATED UNINTERRUPTED CURRENT (IU)  STATIC HEAT DISSIPATION, NON- CURRENT-DEPENDENT PVS  SWITCHING POWER AT 400 V  VOLTAGE PER CONTACT PAIR IN SERIES  ACCESSORIES  Front plate  1200 Operations/h  18C 60068-2-78  Damp heat, constant, to IEC 60068-2-78  Damp heat, constant, to I	<b>ENCLOSURES MADE OF</b>	·
POLLUTION DEGREE3CLIMATIC PROOFINGDamp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30RATED IMPULSE WITHSTAND VOLTAGE (UIMP)6000 V ACRATED PERMANENT CURRENT AT AC-21, 400 V25 ARATED PERMANENT CURRENT AT AC-23, 400 V25 ARATED UNINTERRUPTED CURRENT (IU)25 ASTATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS0 WSWITCHING POWER AT 400 V13 kWVOLTAGE PER CONTACT PAIR IN SERIES60 VACCESSORIESAuxiliary contact or neutral conductor fitted by user.	FITTED WITH:	<u> </u>
CLIMATIC PROOFING  Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30  RATED IMPULSE WITHSTAND VOLTAGE (UIMP)  RATED PERMANENT CURRENT AT AC-21, 400 V  RATED PERMANENT CURRENT AT AC-23, 400 V  RATED UNINTERRUPTED CURRENT (IU)  STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS  SWITCHING POWER AT 400 V  VOLTAGE PER CONTACT PAIR IN SERIES  ACCESSORIES  Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30  25 A  0 W  ACCESSORIES	OPERATING FREQUENCY	1200 Operations/h
CLIMATIC PROOFINGIEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30RATED IMPULSE WITHSTAND VOLTAGE (UIMP)6000 V ACRATED PERMANENT CURRENT AT AC-21, 400 V25 ARATED PERMANENT CURRENT AT AC-23, 400 V25 ARATED UNINTERRUPTED CURRENT (IU)25 ASTATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS0 WSWITCHING POWER AT 400 V13 kWVOLTAGE PER CONTACT PAIR IN SERIES60 VACCESSORIESAuxiliary contact or neutral conductor fitted by user.	POLLUTION DEGREE	3
WITHSTAND VOLTAGE (UIMP)  RATED PERMANENT CURRENT AT AC-21, 400 V  RATED PERMANENT CURRENT AT AC-23, 400 V  RATED UNINTERRUPTED CURRENT (IU)  STATIC HEAT DISSIPATION, NON- CURRENT-DEPENDENT PVS  SWITCHING POWER AT 400 V  VOLTAGE PER CONTACT PAIR IN SERIES  ACCESSORIES  6000 V AC  25 A  25 A  25 A  25 A  25 A  60 V  Auxiliary contact or neutral conductor fitted by user.		
CURRENT AT AC-21, 400 V  RATED PERMANENT CURRENT AT AC-23, 400 V  RATED UNINTERRUPTED CURRENT (IU)  STATIC HEAT DISSIPATION, NON- CURRENT-DEPENDENT PVS  SWITCHING POWER AT 400 V  VOLTAGE PER CONTACT PAIR IN SERIES  ACCESSORIES  25 A  0 W  60 V  Auxiliary contact or neutral conductor fitted by user.	CLIMATIC PROOFING	IEC 60068-2-78 Damp heat, cyclic, to IEC
CURRENT AT AC-23, 400 V  RATED UNINTERRUPTED CURRENT (IU)  STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS  SWITCHING POWER AT 400 V  VOLTAGE PER CONTACT PAIR IN SERIES  ACCESSORIES  25 A  0 W  60 V  Auxiliary contact or neutral conductor fitted by user.	RATED IMPULSE WITHSTAND VOLTAGE	IEC 60068-2-78  Damp heat, cyclic, to IEC 60068-2-30
CURRENT (IU)  STATIC HEAT DISSIPATION, NON- CURRENT-DEPENDENT PVS  SWITCHING POWER AT 400 V  VOLTAGE PER CONTACT PAIR IN SERIES  ACCESSORIES  Auxiliary contact or neutral conductor fitted by user.	RATED IMPULSE WITHSTAND VOLTAGE (UIMP) RATED PERMANENT	IEC 60068-2-78  Damp heat, cyclic, to IEC 60068-2-30  6000 V AC
DISSIPATION, NON- CURRENT-DEPENDENT PVS  SWITCHING POWER AT 400 V  VOLTAGE PER CONTACT PAIR IN SERIES  ACCESSORIES  Auxiliary contact or neutral conductor fitted by user.	RATED IMPULSE WITHSTAND VOLTAGE (UIMP) RATED PERMANENT CURRENT AT AC-21, 400 V RATED PERMANENT	IEC 60068-2-78  Damp heat, cyclic, to IEC 60068-2-30  6000 V AC
VOLTAGE PER CONTACT PAIR IN SERIES  ACCESSORIES  ACCESSORIES  13 kW  60 V  Auxiliary contact or neutral conductor fitted by user.	RATED IMPULSE WITHSTAND VOLTAGE (UIMP)  RATED PERMANENT CURRENT AT AC-21, 400 V  RATED PERMANENT CURRENT AT AC-23, 400 V  RATED UNINTERRUPTED	IEC 60068-2-78  Damp heat, cyclic, to IEC 60068-2-30  6000 V AC  25 A
ACCESSORIES  Auxiliary contact or neutral conductor fitted by user.	RATED IMPULSE WITHSTAND VOLTAGE (UIMP)  RATED PERMANENT CURRENT AT AC-21, 400 V  RATED PERMANENT CURRENT AT AC-23, 400 V  RATED UNINTERRUPTED CURRENT (IU)  STATIC HEAT DISSIPATION, NON- CURRENT-DEPENDENT	IEC 60068-2-78  Damp heat, cyclic, to IEC 60068-2-30  6000 V AC  25 A  25 A
ACCESSORIES neutral conductor fitted by user.	RATED IMPULSE WITHSTAND VOLTAGE (UIMP)  RATED PERMANENT CURRENT AT AC-21, 400 V  RATED PERMANENT CURRENT AT AC-23, 400 V  RATED UNINTERRUPTED CURRENT (IU)  STATIC HEAT DISSIPATION, NON- CURRENT-DEPENDENT PVS  SWITCHING POWER AT	IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30  6000 V AC  25 A  25 A  0 W
<b>RATED OPERATIONAL</b> 7.5 kW	RATED IMPULSE WITHSTAND VOLTAGE (UIMP)  RATED PERMANENT CURRENT AT AC-21, 400 V  RATED PERMANENT CURRENT AT AC-23, 400 V  RATED UNINTERRUPTED CURRENT (IU)  STATIC HEAT DISSIPATION, NON- CURRENT-DEPENDENT PVS  SWITCHING POWER AT 400 V  VOLTAGE PER CONTACT	IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30  6000 V AC  25 A  25 A  0 W  13 kW
	RATED IMPULSE WITHSTAND VOLTAGE (UIMP)  RATED PERMANENT CURRENT AT AC-21, 400 V  RATED PERMANENT CURRENT AT AC-23, 400 V  RATED UNINTERRUPTED CURRENT (IU)  STATIC HEAT DISSIPATION, NON- CURRENT-DEPENDENT PVS  SWITCHING POWER AT 400 V  VOLTAGE PER CONTACT PAIR IN SERIES	IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30  6000 V AC  25 A  25 A  0 W  13 kW  60 V  Auxiliary contact or neutral conductor fitted by

POWER AT AC-3, 500 V, 50 HZ	
DEVICE CONSTRUCTION	Complete device in housing
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
ASSIGNED MOTOR POWER AT 115/120 V, 60 HZ, 1-PHASE	1 HP
ASSIGNED MOTOR POWER AT 200/208 V, 60 HZ, 1-PHASE	2 HP
ASSIGNED MOTOR POWER AT 200/208 V, 60 HZ, 3-PHASE	3 HP
ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 1-PHASE	3 HP
ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 3-PHASE	5 HP
ASSIGNED MOTOR POWER AT 460/480 V, 60 HZ, 3-PHASE	10 HP
ASSIGNED MOTOR POWER AT 575/600 V, 60 HZ, 3-PHASE	15 HP
EQUIPMENT HEAT DISSIPATION, CURRENT- DEPENDENT PVID	1.1 W
HEAT DISSIPATION CAPACITY PDISS	0 W
HEAT DISSIPATION PER POLE, CURRENT- DEPENDENT PVID	1.1 W

NUMBER OF AUXILIARY CONTACTS (CHANGE- OVER CONTACTS)	0
NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS)	0
RATED CONDITIONAL SHORT-CIRCUIT CURRENT (IQ)	50 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	Three-pole
MOUNTING METHOD	Surface mounting
DEGREE OF PROTECTION	NEMA 12
SUITABLE FOR	Branch circuits, suitable as motor disconnect, (UL/CSA) Ground mounting
FUNCTIONS	Emergency switching off function
NUMBER OF SWITCHES	1
	440 V AC. Between the
SAFE ISOLATION	contacts, According to EN 61140
SAFE ISOLATION SCREW SIZE	contacts, According to EN
	contacts, According to EN 61140
SCREW SIZE	contacts, According to EN 61140  M4, Terminal screw  15 g, Mechanical, According to IEC/EN 60068-2-27, Half-
SCREW SIZE  SHOCK RESISTANCE	contacts, According to EN 61140  M4, Terminal screw  15 g, Mechanical, According to IEC/EN 60068-2-27, Half-sinusoidal shock 20 ms
SCREW SIZE  SHOCK RESISTANCE  LIFESPAN, MECHANICAL	contacts, According to EN 61140  M4, Terminal screw  15 g, Mechanical, According to IEC/EN 60068-2-27, Half-sinusoidal shock 20 ms  300,000 Operations  2 x l <sub>e</sub> (with intermittent operation class 12, 25 % duty factor)  1.3 x l <sub>e</sub> (with intermittent operation class 12, 60 % duty factor)  1.6 x l <sub>e</sub> (with intermittent operation class 12, 40 %
SCREW SIZE  SHOCK RESISTANCE  LIFESPAN, MECHANICAL  LOAD RATING  SWITCHING CAPACITY (AUXILIARY CONTACTS,	contacts, According to EN 61140  M4, Terminal screw  15 g, Mechanical, According to IEC/EN 60068-2-27, Half-sinusoidal shock 20 ms  300,000 Operations  2 x l <sub>e</sub> (with intermittent operation class 12, 25 % duty factor)  1.3 x l <sub>e</sub> (with intermittent operation class 12, 60 % duty factor)  1.6 x l <sub>e</sub> (with intermittent operation class 12, 40 % duty factor)

with ferrules to DIN 46228 1 x (1.5 - 6) mm², solid or stranded 2 x (1 - 4) mm², flexible with ferrules to DIN 46228 14 - 8 AWG, solid or flexible with ferrules to DIN 46228 14 - 8 AWG, solid or flexible with ferrule zx (1.5 - 6) mm², solid or stranded  SWITCHING CAPACITY (MAIN CONTACTS, GENERAL USE)  SAFETY PARAMETER (EN ISO 13849-1)  NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS IN SERIES AT DC-23A, 120 V  NUMBER OF CONTACTS IN SERIES AT DC-23A, 24 V  NUMBER OF CONTACTS IN SERIES AT DC-23A, 24 V  NUMBER OF CONTACTS IN SERIES AT DC-23A, 80 V  RATED BREAKING CAPACITY AT 220/230 V (COS PHI TO IEC 60947-3)  RATED BREAKING CAPACITY AT 400/415 V (COS PHI TO IEC 60947-3)  RATED BREAKING CAPACITY AT 500 V (COS PHI TO IEC 60947-3)  RATED BREAKING CAPACITY AT 660/690 V (COS PHI TO IEC 60947-3)  RATED MAKING CAPACITY UP TO 690 V (COS PHI TO IEC 60947-3)  RATED OPERATING VOLTAGE (UE) - MMX  SHORT-CIRCUIT CURRENT RATING (BASIC RATING)	1 x (1.5 - 6) mm², solid or stranded 2 x (1 - 4) mm², flexible with ferrules to DIN 46228 14 - 8 AWG, solid or flexible with ferrule 2 x (1.5 - 6) mm², solid or stranded 2 x (1.5 - 6) mm², solid or flexible with ferrule 2 x (1.5 - 6) mm², solid or stranded 2 x (1.5 - 6) mm², solid or stranded 3 x (10.5 - 6) mm², solid or stranded 3	1 x (1.5 - 6) mm², solid or stranded 2 x (1 - 4) mm², flexible with ferrules to DIN 46228 14 - 8 AWG, solid or flexible with ferrule 2 x (1.5 - 6) mm², solid or stranded  SWITCHING CAPACITY (MAIN CONTACTS, GENERAL USE)  SAFETY PARAMETER (EN ISO 13849-1)  NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS (NORMALLY OPEN CONTACTS IN SERIES AT DC-23A, 120 V  NUMBER OF CONTACTS IN SERIES AT DC-23A, 24 V  NUMBER OF CONTACTS IN SERIES AT DC-23A, 48 V  NUMBER OF CONTACTS IN SERIES AT DC-23A, 48 V  NUMBER OF CONTACTS IN SERIES AT DC-23A, 48 V  NUMBER OF CONTACTS IN SERIES AT DC-23A, 60 V  RATED BREAKING CAPACITY AT 200/2415 V (COS PHI TO IEC 60947-3)  RATED BREAKING CAPACITY AT 400/415 V (COS PHI TO IEC 60947-3)  RATED BREAKING CAPACITY AT 500 V (COS PHI TO IEC 60947-3)  RATED BREAKING CAPACITY AT 660/690 V (COS PHI TO IEC 60947-3)  RATED BREAKING CAPACITY OF 690 V (COS PHI TO IEC 60947-3)  RATED MAKING CAPACITY UP TO 690 V (COS PHI TO IEC 60947-3)  RATED OPERATING VOLTAGE (UE) - MAX  RATED OPERATING VOLTAGE (UE) - MIN  RATED OPERATING VOLTAGE (UE) AT AC - 690 V		
(MAIN CONTACTS, GENERAL USE)20 A, Rated uninterrupted current max. (UL/CSA)SAFETY PARAMETER (EN ISO 13849-1)B10d values as per EN ISO 13849-1, table C.1NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS)0NUMBER OF CONTACTS IN SERIES AT DC-23A, 120 V1NUMBER OF CONTACTS IN SERIES AT DC-23A, 24 V1NUMBER OF CONTACTS IN SERIES AT DC-23A, 48 V2NUMBER OF CONTACTS IN SERIES AT DC-23A, 60 V2RATED BREAKING CAPACITY AT 220/230 V (COS PHI TO IEC 60947-3)150 ARATED BREAKING CAPACITY AT 400/415 V (COS PHI TO IEC 60947-3)150 ARATED BREAKING CAPACITY AT 660/690 V (COS PHI TO IEC 60947-3)150 ARATED BREAKING CAPACITY UP TO 690 V (COS PHI TO IEC 60947-3)240 ARATED MAKING CAPACITY UP TO 690 V (COS PHI TO IEC/EN 60947-3)240 ARATED OPERATING VOLTAGE (UE) - MAX690 VRATED OPERATING VOLTAGE (UE) - MIN690 VRATED OPERATIONAL VOLTAGE (UE) AT AC - MAX5 kA, SCCR (UL/CSA) 110A, max. Fuse, SCCR (UL/CSA)SHORT-CIRCUIT CURRENT RATING (BASIC RATING)5 kA, SCCR (UL/CSA) 110A, max. Fuse, SCCR (UL/CSA)	(MAIN CONTACTS, GENERAL USE)20 A, Rated uninterrupted current max. (UL/CSA)SAFETY PARAMETER (EN ISO 13849-1)B10d values as per EN ISO 13849-1, table C.1NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS)0NUMBER OF CONTACTS IN SERIES AT DC-23A, 120 V1NUMBER OF CONTACTS IN SERIES AT DC-23A, 24 V1NUMBER OF CONTACTS IN SERIES AT DC-23A, 48 V2NUMBER OF CONTACTS IN SERIES AT DC-23A, 60 V2RATED BREAKING CAPACITY AT 220/230 V (COS PHI TO IEC 60947-3)150 ARATED BREAKING CAPACITY AT 400/415 V (COS PHI TO IEC 60947-3)150 ARATED BREAKING CAPACITY AT 500 V (COS PHI TO IEC 60947-3)170 ARATED BREAKING CAPACITY UP TO 690 V (COS PHI TO IEC/EN 60947-3)150 ARATED MAKING CAPACITY UP TO 690 V (COS PHI TO IEC/EN 60947-3)240 ARATED OPERATING VOLTAGE (UE) - MAX690 VRATED OPERATING VOLTAGE (UE) - MIN690 VRATED OPERATIONAL VOLTAGE (UE) AT AC - MAX5 KA, SCCCR (UL/CSA) 110A, max. Fuse, SCCR	MAIN CONTACTS, GENERAL USE)  SAFETY PARAMETER (EN ISO 13849-1)  NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS)  NUMBER OF CONTACTS IN SERIES AT DC-23A, 120 V  NUMBER OF CONTACTS IN SERIES AT DC-23A, 24 V  NUMBER OF CONTACTS IN SERIES AT DC-23A, 24 V  NUMBER OF CONTACTS IN SERIES AT DC-23A, 48 V  NUMBER OF CONTACTS IN SERIES AT DC-23A, 60 V  RATED BREAKING CAPACITY AT 220/230 V (COS PHI TO IEC 60947-3)  RATED BREAKING CAPACITY AT 500 V (COS PHI TO IEC 60947-3)  RATED BREAKING CAPACITY AT 500 V (COS PHI TO IEC 60947-3)  RATED BREAKING CAPACITY AT 660/690 V (COS PHI TO IEC 60947-3)  RATED BREAKING CAPACITY AT 660/690 V (COS PHI TO IEC 60947-3)  RATED MAKING CAPACITY AT 660/690 V (COS PHI TO IEC 60947-3)  RATED MAKING CAPACITY UP TO 690 V (COS PHI TO IEC/EN 60947-3)  RATED OPERATING VOLTAGE (UE) - MAX  RATED OPERATING VOLTAGE (UE) - MIN  RATED OPERATIONAL VOLTAGE (UE) AT AC - 690 V		1 x (1.5 - 6) mm², solid or stranded 2 x (1 - 4) mm², flexible with ferrules to DIN 46228 14 - 8 AWG, solid or flexible with ferrule 2 x (1.5 - 6) mm², solid or
ISO 13849-1)  NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS)  NUMBER OF CONTACTS IN SERIES AT DC-23A, 120 V  NUMBER OF CONTACTS IN SERIES AT DC-23A, 24 V  NUMBER OF CONTACTS IN SERIES AT DC-23A, 48 V  NUMBER OF CONTACTS IN SERIES AT DC-23A, 48 V  NUMBER OF CONTACTS IN SERIES AT DC-23A, 60 V  RATED BREAKING CAPACITY AT 220/230 V (COS PHI TO IEC 60947-3)  RATED BREAKING CAPACITY AT 400/415 V (COS PHI TO IEC 60947-3)  RATED BREAKING CAPACITY AT 500 V (COS PHI TO IEC 60947-3)  RATED BREAKING CAPACITY AT 660/690 V (COS PHI TO IEC 60947-3)  RATED MAKING CAPACITY UP TO 690 V (COS PHI TO IEC 60947-3)  RATED MAKING CAPACITY UP TO 690 V (COS PHI TO IEC/EN 60947-3)  RATED OPERATING VOLTAGE (UE) - MAX  RATED OPERATING FOR VOLTAGE (UE) - MIN  RATED OPERATIONAL VOLTAGE (UE) AT AC - MAX  SHORT-CIRCUIT CURRENT RATING (BASIC RATING)  SHORT-CIRCUIT CURRENT RATING (BASIC RATING)  SHORT-CIRCUIT CURRENT RATING (BASIC RATING)	ISO 13849-1) 13849-1, table C.1  NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS)  NUMBER OF CONTACTS IN SERIES AT DC-23A, 120 V  NUMBER OF CONTACTS IN SERIES AT DC-23A, 24 V  NUMBER OF CONTACTS IN SERIES AT DC-23A, 48 V  NUMBER OF CONTACTS IN SERIES AT DC-23A, 48 V  NUMBER OF CONTACTS IN SERIES AT DC-23A, 60 V  RATED BREAKING CAPACITY AT 220/230 V (COS PHI TO IEC 60947-3)  RATED BREAKING CAPACITY AT 400/415 V (COS PHI TO IEC 60947-3)  RATED BREAKING CAPACITY AT 500 V (COS PHI TO IEC 60947-3)  RATED BREAKING CAPACITY AT 660/690 V (COS PHI TO IEC 60947-3)  RATED MAKING CAPACITY UP TO 690 V (COS PHI TO IEC 60947-3)  RATED MAKING CAPACITY UP TO 690 V (COS PHI TO IEC/EN 60947-3)  RATED OPERATING VOLTAGE (UE) - MMX  RATED OPERATING VOLTAGE (UE) - MIN  RATED OPERATIONAL VOLTAGE (UE) AT AC - MAX  SHORT-CIRCUIT CURRENT TRATING (RASIC PATING)  SHORT-CIRCUIT CURRENT TRATING (RASIC PATING)  TO A  5 kA, SCCR (UL/CSA) 110A, max. Fuse, SCCR	ISO 13849-1)  NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS)  NUMBER OF CONTACTS IN SERIES AT DC-23A, 120 V  NUMBER OF CONTACTS IN SERIES AT DC-23A, 24 V  NUMBER OF CONTACTS IN SERIES AT DC-23A, 48 V  NUMBER OF CONTACTS IN SERIES AT DC-23A, 60 V  RATED BREAKING CAPACITY AT 220/230 V (COS PHI TO IEC 60947-3)  RATED BREAKING CAPACITY AT 400/415 V (COS PHI TO IEC 60947-3)  RATED BREAKING CAPACITY AT 500 V (COS PHI TO IEC 60947-3)  RATED BREAKING CAPACITY AT 660/690 V (COS PHI TO IEC 60947-3)  RATED BREAKING CAPACITY AT 660/690 V (COS PHI TO IEC 60947-3)  RATED BREAKING CAPACITY UP TO 690 V (COS PHI TO IEC/EN 60947-3)  RATED MAKING CAPACITY UP TO 690 V (COS PHI TO IEC/EN 60947-3)  RATED OPERATING VOLTAGE (UE) - MAX  RATED OPERATIONAL VOLTAGE (UE) AT AC - 690 V	(MAIN CONTACTS,	
CONTACTS (NORMALLY OPEN CONTACTS)  NUMBER OF CONTACTS IN SERIES AT DC-23A, 120 V  NUMBER OF CONTACTS IN SERIES AT DC-23A, 24 V  NUMBER OF CONTACTS IN SERIES AT DC-23A, 48 V  NUMBER OF CONTACTS IN SERIES AT DC-23A, 48 V  RATED BREAKING CAPACITY AT 220/230 V (COS PHI TO IEC 60947-3)  RATED BREAKING CAPACITY AT 400/415 V (COS PHI TO IEC 60947-3)  RATED BREAKING CAPACITY AT 500 V (COS PHI TO IEC 60947-3)  RATED BREAKING CAPACITY AT 660/690 V (COS PHI TO IEC 60947-3)  RATED BREAKING CAPACITY AT 660/690 V (COS PHI TO IEC 60947-3)  RATED MAKING CAPACITY UP TO 690 V (COS PHI TO IEC 60947-3)  RATED OPERATING CAPACITY UP TO 690 V (COS PHI TO IEC/EN 60947-3)  RATED OPERATING 690 V  VOLTAGE (UE) - MAX  RATED OPERATIONAL VOLTAGE (UE) AT AC - MAX  SHORT-CIRCUIT CURRENT RATING (BASIC RATING)  5 kA, SCCR (UL/CSA) 110A, max. Fuse, SCCR (UL/CSA) 110A, max. Fuse, SCCR (UL/CSA)	CONTACTS (NORMALLY OPEN CONTACTS)  NUMBER OF CONTACTS IN SERIES AT DC-23A, 120 V  NUMBER OF CONTACTS IN SERIES AT DC-23A, 24 V  NUMBER OF CONTACTS IN SERIES AT DC-23A, 48 V  NUMBER OF CONTACTS IN SERIES AT DC-23A, 48 V  NUMBER OF CONTACTS IN SERIES AT DC-23A, 60 V  RATED BREAKING CAPACITY AT 220/230 V (COS PHI TO IEC 60947-3)  RATED BREAKING CAPACITY AT 400/415 V (COS PHI TO IEC 60947-3)  RATED BREAKING CAPACITY AT 500 V (COS PHI TO IEC 60947-3)  RATED BREAKING CAPACITY AT 660/690 V (COS PHI TO IEC 60947-3)  RATED MAKING CAPACITY UP TO 690 V (COS PHI TO IEC/EN 60947-3)  RATED OPERATING VOLTAGE (UE) - MAX  SHORT-CIRCUIT CURRENT RATING (BASIC RATING) 100  100  110  110  120  120  130  140  150  150  1690  170  150  1690  170  150  1690  170  150  150  150  150  150  150  15	CONTACTS (NORMALLY OPEN CONTACTS)  NUMBER OF CONTACTS IN SERIES AT DC-23A, 120 V  NUMBER OF CONTACTS IN SERIES AT DC-23A, 24 V  NUMBER OF CONTACTS IN SERIES AT DC-23A, 48 V  NUMBER OF CONTACTS IN SERIES AT DC-23A, 60 V  RATED BREAKING CAPACITY AT 220/230 V (COS PHI TO IEC 60947-3)  RATED BREAKING CAPACITY AT 400/415 V (COS PHI TO IEC 60947-3)  RATED BREAKING CAPACITY AT 500 V (COS PHI TO IEC 60947-3)  RATED BREAKING CAPACITY AT 660/690 V (COS PHI TO IEC 60947-3)  RATED BREAKING CAPACITY AT 660/690 V (COS PHI TO IEC 60947-3)  RATED MAKING CAPACITY UP TO 690 V (COS PHI TO IEC/EN 60947-3)  RATED OPERATING VOLTAGE (UE) - MAX  RATED OPERATIONAL VOLTAGE (UE) AT AC - 690 V	-	·
NUMBER OF CONTACTS IN SERIES AT DC-23A, 24 V  NUMBER OF CONTACTS IN SERIES AT DC-23A, 24 V  NUMBER OF CONTACTS IN SERIES AT DC-23A, 48 V  NUMBER OF CONTACTS IN SERIES AT DC-23A, 48 V  RATED BREAKING CAPACITY AT 220/230 V (COS PHI TO IEC 60947-3)  RATED BREAKING CAPACITY AT 400/415 V (COS PHI TO IEC 60947-3)  RATED BREAKING CAPACITY AT 500 V (COS PHI TO IEC 60947-3)  RATED BREAKING CAPACITY AT 660/690 V (COS PHI TO IEC 60947-3)  RATED MAKING CAPACITY UP TO 690 V (COS PHI TO IEC/EN 60947-3)  RATED OPERATING VOLTAGE (UE) - MAX  RATED OPERATIONAL VOLTAGE (UE) AT AC - MAX  SHORT-CIRCUIT CURRENT RATING (BASIC RATING)  1  1  1  1  1  1  1  1  1  1  1  1  1	NUMBER OF CONTACTS IN SERIES AT DC-23A, 24 V  NUMBER OF CONTACTS IN SERIES AT DC-23A, 24 V  NUMBER OF CONTACTS IN SERIES AT DC-23A, 48 V  NUMBER OF CONTACTS IN SERIES AT DC-23A, 48 V  RATED BREAKING CAPACITY AT 220/230 V (COS PHI TO IEC 60947-3)  RATED BREAKING CAPACITY AT 400/415 V (COS PHI TO IEC 60947-3)  RATED BREAKING CAPACITY AT 500 V (COS PHI TO IEC 60947-3)  RATED BREAKING CAPACITY AT 660/690 V (COS PHI TO IEC 60947-3)  RATED MAKING CAPACITY UP TO 690 V (COS PHI TO IEC/EN 60947-3)  RATED OPERATING VOLTAGE (UE) - MAX  RATED OPERATIONAL VOLTAGE (UE) AT AC - MAX  SHORT-CIRCUIT CURRENT RATING (BASIC RATING) 10  10  11  12  13  14  15  15  16  17  15  16  17  16  17  17  18  18  18  18  18  18  18  18	IN SERIES AT DC-23A, 120 V  NUMBER OF CONTACTS IN SERIES AT DC-23A, 24 V  NUMBER OF CONTACTS IN SERIES AT DC-23A, 48 V  NUMBER OF CONTACTS IN SERIES AT DC-23A, 60 V  RATED BREAKING CAPACITY AT 220/230 V (COS PHI TO IEC 60947-3)  RATED BREAKING CAPACITY AT 400/415 V (COS PHI TO IEC 60947-3)  RATED BREAKING CAPACITY AT 500 V (COS PHI TO IEC 60947-3)  RATED BREAKING CAPACITY AT 660/690 V (COS PHI TO IEC 60947-3)  RATED BREAKING CAPACITY UP TO 690 V (COS PHI TO IEC/EN 60947-3)  RATED MAKING CAPACITY UP TO 690 V (COS PHI TO IEC/EN 60947-3)  RATED OPERATING VOLTAGE (UE) - MAX  RATED OPERATING VOLTAGE (UE) - MIN 690 V  RATED OPERATIONAL VOLTAGE (UE) AT AC - 690 V	CONTACTS (NORMALLY	0
NUMBER OF CONTACTS IN SERIES AT DC-23A, 48 V  NUMBER OF CONTACTS IN SERIES AT DC-23A, 60 V  RATED BREAKING CAPACITY AT 220/230 V (COS PHI TO IEC 60947-3)  RATED BREAKING CAPACITY AT 400/415 V (COS PHI TO IEC 60947-3)  RATED BREAKING CAPACITY AT 500 V (COS PHI TO IEC 60947-3)  RATED BREAKING CAPACITY AT 660/690 V (COS PHI TO IEC 60947-3)  RATED BREAKING CAPACITY AT 660/690 V (COS PHI TO IEC 60947-3)  RATED MAKING CAPACITY UP TO 690 V (COS PHI TO IEC/EN 60947-3)  RATED OPERATING VOLTAGE (UE) - MAX  RATED OPERATIONAL VOLTAGE (UE) AT AC - MAX  SHORT-CIRCUIT CURRENT RATING (BASIC RATING)  10  2  190 A  150 A  150 A  690 V  690 V  690 V	NUMBER OF CONTACTS IN SERIES AT DC-23A, 48 V  NUMBER OF CONTACTS IN SERIES AT DC-23A, 60 V  RATED BREAKING CAPACITY AT 220/230 V (COS PHI TO IEC 60947-3)  RATED BREAKING CAPACITY AT 400/415 V (COS PHI TO IEC 60947-3)  RATED BREAKING CAPACITY AT 500 V (COS PHI TO IEC 60947-3)  RATED BREAKING CAPACITY AT 660/690 V (COS PHI TO IEC 60947-3)  RATED BREAKING CAPACITY AT 660/690 V (COS PHI TO IEC 60947-3)  RATED MAKING CAPACITY UP TO 690 V (COS PHI TO IEC/EN 60947-3)  RATED OPERATING VOLTAGE (UE) - MAX  RATED OPERATIONAL VOLTAGE (UE) - MIN  RATED OPERATIONAL VOLTAGE (UE) AT AC - MAX  SHORT-CIRCUIT CURRENT RATING (RASIC RATING)  5 kA, SCCR (UL/CSA) 110A, max. Fuse, SCCR	IN SERIES AT DC-23A, 24 V  NUMBER OF CONTACTS IN SERIES AT DC-23A, 48 V  NUMBER OF CONTACTS IN SERIES AT DC-23A, 60 V  RATED BREAKING CAPACITY AT 220/230 V (COS PHI TO IEC 60947-3)  RATED BREAKING CAPACITY AT 400/415 V (COS PHI TO IEC 60947-3)  RATED BREAKING CAPACITY AT 500 V (COS PHI TO IEC 60947-3)  RATED BREAKING CAPACITY AT 660/690 V (COS PHI TO IEC 60947-3)  RATED BREAKING CAPACITY AT 660/690 V (COS PHI TO IEC 60947-3)  RATED MAKING CAPACITY UP TO 690 V (COS PHI TO IEC/EN 60947-3)  RATED OPERATING VOLTAGE (UE) - MAX  RATED OPERATIONG VOLTAGE (UE) - MIN  RATED OPERATIONAL VOLTAGE (UE) AT AC - 690 V	IN SERIES AT DC-23A, 120	3
NUMBER OF CONTACTS IN SERIES AT DC-23A, 48 V  RATED BREAKING CAPACITY AT 220/230 V (COS PHI TO IEC 60947-3)  RATED BREAKING CAPACITY AT 400/415 V (COS PHI TO IEC 60947-3)  RATED BREAKING CAPACITY AT 500 V (COS PHI TO IEC 60947-3)  RATED BREAKING CAPACITY AT 660/690 V (COS PHI TO IEC 60947-3)  RATED BREAKING CAPACITY AT 660/690 V (COS PHI TO IEC 60947-3)  RATED MAKING CAPACITY UP TO 690 V (COS PHI TO IEC/EN 60947-3)  RATED OPERATING VOLTAGE (UE) - MAX  RATED OPERATIONAL VOLTAGE (UE) AT AC - MAX  SHORT-CIRCUIT CURRENT RATING (BASIC RATING)  ULI/CSA)	IN SERIES AT DC-23A, 48 V  NUMBER OF CONTACTS IN SERIES AT DC-23A, 60 V  RATED BREAKING CAPACITY AT 220/230 V (COS PHI TO IEC 60947-3)  RATED BREAKING CAPACITY AT 400/415 V (COS PHI TO IEC 60947-3)  RATED BREAKING CAPACITY AT 500 V (COS PHI TO IEC 60947-3)  RATED BREAKING CAPACITY AT 660/690 V (COS PHI TO IEC 60947-3)  RATED MAKING CAPACITY UP TO 690 V (COS PHI TO IEC/EN 60947-3)  RATED OPERATING VOLTAGE (UE) - MAX  RATED OPERATIONAL VOLTAGE (UE) - MIN  RATED OPERATIONAL VOLTAGE (UE) AT AC - MAX  SHORT-CIRCUIT CURRENT RATING (RASIC RATING)  190 A  20  150 A  150 A  690 V  690 V  690 V	IN SERIES AT DC-23A, 48 V  NUMBER OF CONTACTS IN SERIES AT DC-23A, 60 V  RATED BREAKING CAPACITY AT 220/230 V (COS PHI TO IEC 60947-3)  RATED BREAKING CAPACITY AT 400/415 V (COS PHI TO IEC 60947-3)  RATED BREAKING CAPACITY AT 500 V (COS PHI TO IEC 60947-3)  RATED BREAKING CAPACITY AT 660/690 V (COS PHI TO IEC 60947-3)  RATED BREAKING CAPACITY UP TO 690 V (COS PHI TO IEC/EN 60947-3)  RATED OPERATING VOLTAGE (UE) - MAX  RATED OPERATIONAL VOLTAGE (UE) AT AC - 690 V		1
RATED BREAKING CAPACITY AT 220/230 V (COS PHI TO IEC 60947-3)  RATED BREAKING CAPACITY AT 400/415 V (COS PHI TO IEC 60947-3)  RATED BREAKING CAPACITY AT 500 V (COS PHI TO IEC 60947-3)  RATED BREAKING CAPACITY AT 660/690 V (COS PHI TO IEC 60947-3)  RATED BREAKING CAPACITY AT 660/690 V (COS PHI TO IEC 60947-3)  RATED MAKING CAPACITY UP TO 690 V (COS PHI TO IEC/EN 60947-3)  RATED OPERATING VOLTAGE (UE) - MAX  RATED OPERATIONAL VOLTAGE (UE) - MIN  RATED OPERATIONAL VOLTAGE (UE) AT AC - MAX  SHORT-CIRCUIT CURRENT RATING (BASIC RATING)  190 A  150 A  150 A  240 A  690 V  690 V	RATED BREAKING CAPACITY AT 220/230 V (COS PHI TO IEC 60947-3)  RATED BREAKING CAPACITY AT 400/415 V (COS PHI TO IEC 60947-3)  RATED BREAKING CAPACITY AT 500 V (COS PHI TO IEC 60947-3)  RATED BREAKING CAPACITY AT 660/690 V (COS PHI TO IEC 60947-3)  RATED BREAKING CAPACITY AT 660/690 V (COS PHI TO IEC 60947-3)  RATED MAKING CAPACITY UP TO 690 V (COS PHI TO IEC/EN 60947-3)  RATED OPERATING VOLTAGE (UE) - MAX  RATED OPERATIONAL VOLTAGE (UE) - MIN  RATED OPERATIONAL VOLTAGE (UE) AT AC - MAX  SHORT-CIRCUIT CURRENT RATING (RASIC RATING)  5 kA, SCCR (UL/CSA) 110A, max. Fuse, SCCR	IN SERIES AT DC-23A, 60 V  RATED BREAKING CAPACITY AT 220/230 V (COS PHI TO IEC 60947-3)  RATED BREAKING CAPACITY AT 400/415 V (COS PHI TO IEC 60947-3)  RATED BREAKING CAPACITY AT 500 V (COS PHI TO IEC 60947-3)  RATED BREAKING CAPACITY AT 660/690 V (COS PHI TO IEC 60947-3)  RATED MAKING CAPACITY UP TO 690 V (COS PHI TO IEC/EN 60947-3)  RATED OPERATING VOLTAGE (UE) - MAX  RATED OPERATIONAL VOLTAGE (UE) AT AC - 690 V		2
CAPACITY AT 220/230 V (COS PHI TO IEC 60947-3)  RATED BREAKING CAPACITY AT 400/415 V (COS PHI TO IEC 60947-3)  RATED BREAKING CAPACITY AT 500 V (COS PHI TO IEC 60947-3)  RATED BREAKING CAPACITY AT 660/690 V (COS PHI TO IEC 60947-3)  RATED MAKING CAPACITY UP TO 690 V (COS PHI TO IEC/EN 60947-3)  RATED OPERATING VOLTAGE (UE) - MAX  RATED OPERATIONAL VOLTAGE (UE) AT AC - MAX  SHORT-CIRCUIT CURRENT RATING (BASIC RATING)  150 A  170 A  170 A  170 A  170 A  170 A  690 A  170 A  1	CAPACITY AT 220/230 V (COS PHI TO IEC 60947-3)  RATED BREAKING CAPACITY AT 400/415 V (COS PHI TO IEC 60947-3)  RATED BREAKING CAPACITY AT 500 V (COS PHI TO IEC 60947-3)  RATED BREAKING CAPACITY AT 660/690 V (COS PHI TO IEC 60947-3)  RATED MAKING CAPACITY UP TO 690 V (COS PHI TO IEC/EN 60947-3)  RATED OPERATING VOLTAGE (UE) - MAX  RATED OPERATIONAL VOLTAGE (UE) AT AC - MAX  SHORT-CIRCUIT CURRENT RATING (RASIC RATING)  150 A  150 A  240 A  690 V  690 V  690 V	CAPACITY AT 220/230 V (COS PHI TO IEC 60947-3)  RATED BREAKING CAPACITY AT 400/415 V (COS PHI TO IEC 60947-3)  RATED BREAKING CAPACITY AT 500 V (COS PHI TO IEC 60947-3)  RATED BREAKING CAPACITY AT 660/690 V (COS PHI TO IEC 60947-3)  RATED MAKING CAPACITY UP TO 690 V (COS PHI TO IEC/EN 60947-3)  RATED OPERATING VOLTAGE (UE) - MAX  RATED OPERATIONAL VOLTAGE (UE) AT AC - 690 V		2
CAPACITY AT 400/415 V (COS PHI TO IEC 60947-3)  RATED BREAKING CAPACITY AT 500 V (COS PHI TO IEC 60947-3)  RATED BREAKING CAPACITY AT 660/690 V (COS PHI TO IEC 60947-3)  RATED MAKING CAPACITY UP TO 690 V (COS PHI TO IEC/EN 60947-3)  RATED OPERATING VOLTAGE (UE) - MAX  RATED OPERATIONAL VOLTAGE (UE) AT AC - MAX  SHORT-CIRCUIT CURRENT RATING (BASIC RATING)  150 A  170 A  150 A  240 A  690 V  690 V  690 V	CAPACITY AT 400/415 V (COS PHI TO IEC 60947-3)  RATED BREAKING CAPACITY AT 500 V (COS PHI TO IEC 60947-3)  RATED BREAKING CAPACITY AT 660/690 V (COS PHI TO IEC 60947-3)  RATED MAKING CAPACITY UP TO 690 V (COS PHI TO IEC/EN 60947-3)  RATED OPERATING VOLTAGE (UE) - MAX  RATED OPERATIONAL VOLTAGE (UE) AT AC - MAX  SHORT-CIRCUIT CURRENT RATING (RASIC RATING)  150 A  170 A  170 A  170 A  170 A  150 A  690 A  240 A  690 V  690 V  5 kA, SCCR (UL/CSA) 110A, max. Fuse, SCCR	CAPACITY AT 400/415 V (COS PHI TO IEC 60947-3)  RATED BREAKING CAPACITY AT 500 V (COS PHI TO IEC 60947-3)  RATED BREAKING CAPACITY AT 660/690 V (COS PHI TO IEC 60947-3)  RATED MAKING CAPACITY UP TO 690 V (COS PHI TO IEC/EN 60947-3)  RATED OPERATING VOLTAGE (UE) - MAX  RATED OPERATIONAL VOLTAGE (UE) AT AC - 690 V	CAPACITY AT 220/230 V	190 A
CAPACITY AT 500 V (COS PHI TO IEC 60947-3)  RATED BREAKING CAPACITY AT 660/690 V (COS PHI TO IEC 60947-3)  RATED MAKING CAPACITY UP TO 690 V (COS PHI TO IEC/EN 60947-3)  RATED OPERATING VOLTAGE (UE) - MAX  RATED OPERATIONAL VOLTAGE (UE) AT AC - MAX  SHORT-CIRCUIT CURRENT RATING (BASIC RATING)  170 A  170 A  170 A  150 A  240 A  690 V  690 V	CAPACITY AT 500 V (COS PHI TO IEC 60947-3)  RATED BREAKING CAPACITY AT 660/690 V (COS PHI TO IEC 60947-3)  RATED MAKING CAPACITY UP TO 690 V (COS PHI TO IEC/EN 60947-3)  RATED OPERATING VOLTAGE (UE) - MAX  RATED OPERATING VOLTAGE (UE) - MIN  RATED OPERATIONAL VOLTAGE (UE) AT AC - MAX  SHORT-CIRCUIT CURRENT RATING (RASIC RATING)  170 A  150 A  150 A  690 V  690 V  690 V	CAPACITY AT 500 V (COS PHI TO IEC 60947-3)  RATED BREAKING CAPACITY AT 660/690 V (COS PHI TO IEC 60947-3)  RATED MAKING CAPACITY UP TO 690 V (COS PHI TO IEC/EN 60947-3)  RATED OPERATING VOLTAGE (UE) - MAX  RATED OPERATIONAL VOLTAGE (UE) AT AC - 690 V	CAPACITY AT 400/415 V	150 A
CAPACITY AT 660/690 V (COS PHI TO IEC 60947-3)  RATED MAKING CAPACITY UP TO 690 V (COS PHI TO IEC/EN 60947-3)  RATED OPERATING VOLTAGE (UE) - MAX  RATED OPERATING VOLTAGE (UE) - MIN  RATED OPERATIONAL VOLTAGE (UE) AT AC - MAX  SHORT-CIRCUIT CURRENT RATING (BASIC RATING)  150 A  240 A  690 V  690 V  690 V	CAPACITY AT 660/690 V (COS PHI TO IEC 60947-3)  RATED MAKING CAPACITY UP TO 690 V (COS PHI TO IEC/EN 60947-3)  RATED OPERATING VOLTAGE (UE) - MAX  RATED OPERATING VOLTAGE (UE) - MIN  RATED OPERATIONAL VOLTAGE (UE) AT AC - MAX  SHORT-CIRCUIT CURRENT RATING (BASIC RATING)  150 A  240 A  690 V  690 V	CAPACITY AT 660/690 V (COS PHI TO IEC 60947-3)  RATED MAKING CAPACITY UP TO 690 V (COS PHI TO IEC/EN 60947-3)  RATED OPERATING VOLTAGE (UE) - MAX  RATED OPERATING VOLTAGE (UE) - MIN  RATED OPERATIONAL VOLTAGE (UE) AT AC - 690 V	CAPACITY AT 500 V (COS	170 A
CAPACITY UP TO 690 V (COS PHI TO IEC/EN 60947-3)  RATED OPERATING VOLTAGE (UE) - MAX  RATED OPERATING VOLTAGE (UE) - MIN  RATED OPERATIONAL VOLTAGE (UE) AT AC - MAX  SHORT-CIRCUIT CURRENT RATING (BASIC RATING)  240 A  690 V  690 V  5 kA, SCCR (UL/CSA) 110A, max. Fuse, SCCR (UL/CSA)	CAPACITY UP TO 690 V (COS PHI TO IEC/EN 60947-3)  RATED OPERATING VOLTAGE (UE) - MAX  RATED OPERATING VOLTAGE (UE) - MIN  RATED OPERATIONAL VOLTAGE (UE) AT AC - MAX  SHORT-CIRCUIT CURRENT RATING (BASIC RATING)  240 A  690 V  690 V  5 kA, SCCR (UL/CSA) 110A, max. Fuse, SCCR	CAPACITY UP TO 690 V (COS PHI TO IEC/EN 60947-3)  RATED OPERATING VOLTAGE (UE) - MAX  RATED OPERATING VOLTAGE (UE) - MIN  RATED OPERATIONAL VOLTAGE (UE) AT AC - 690 V	CAPACITY AT 660/690 V	150 A
VOLTAGE (UE) - MAX  RATED OPERATING VOLTAGE (UE) - MIN  RATED OPERATIONAL VOLTAGE (UE) AT AC - MAX  SHORT-CIRCUIT CURRENT RATING (BASIC RATING)  690 V  690 V  5 kA, SCCR (UL/CSA) 110A, max. Fuse, SCCR (UL/CSA)	VOLTAGE (UE) - MAX  RATED OPERATING VOLTAGE (UE) - MIN  RATED OPERATIONAL VOLTAGE (UE) AT AC - MAX  SHORT-CIRCUIT CURRENT RATING (BASIC RATING)  5 kA, SCCR (UL/CSA) 110A, max. Fuse, SCCR	VOLTAGE (UE) - MAX  RATED OPERATING VOLTAGE (UE) - MIN  RATED OPERATIONAL VOLTAGE (UE) AT AC - 690 V	CAPACITY UP TO 690 V (COS PHI TO IEC/EN	240 A
VOLTAGE (UE) - MIN  RATED OPERATIONAL VOLTAGE (UE) AT AC - MAX  SHORT-CIRCUIT CURRENT RATING (BASIC RATING)  690 V  690 V  5 kA, SCCR (UL/CSA) 110A, max. Fuse, SCCR (UL/CSA)	VOLTAGE (UE) - MIN  RATED OPERATIONAL VOLTAGE (UE) AT AC - MAX  SHORT-CIRCUIT CURRENT RATING (BASIC RATING)  5 kA, SCCR (UL/CSA) 110A, max. Fuse, SCCR	VOLTAGE (UE) - MIN  RATED OPERATIONAL VOLTAGE (UE) AT AC - 690 V		690 V
VOLTAGE (UE) AT AC - MAX  SHORT-CIRCUIT CURRENT RATING (BASIC RATING)  5 kA, SCCR (UL/CSA) 110A, max. Fuse, SCCR (UL/CSA)	VOLTAGE (UE) AT AC - MAX  SHORT-CIRCUIT CURRENT RATING (BASIC RATING)  5 kA, SCCR (UL/CSA) 110A, max. Fuse, SCCR	VOLTAGE (UE) AT AC - 690 V		690 V
RATING (BASIC RATING)  110A, max. Fuse, SCCR (UL/CSA)	RATING (RASIC RATING)  110A, max. Fuse, SCCR	IAILAV	VOLTAGE (UE) AT AC -	690 V
SHORT-CIRCUIT CURRENT 10 kA SCCR (UIL/CSA)		RATING (RASIC RATING)  110A, max. Fuse, SCCR		110A, max. Fuse, SCCR
10 10 13 50 61 (02) 637 (	SHORT-CIRCUIT CURRENT 10 kA, SCCR (UL/CSA)	SHORT-CIRCUIT CURRENT 10 kA, SCCR (UL/CSA)	SHORT-CIRCUIT CURRENT	10 kA, SCCR (UL/CSA)

RATING (HIGH FAULT)	50 A, Class J, max. Fuse, SCCR (UL/CSA)
SHORT-CIRCUIT PROTECTION RATING	25 A gG/gL, Fuse, Contacts
RATED OPERATIONAL CURRENT (IE) AT AC-21, 440 V	25 A
RATED OPERATIONAL CURRENT (IE) AT AC-23A, 230 V	25 A
RATED OPERATIONAL CURRENT (IE) AT AC-23A, 400 V, 415 V	25 A
RATED OPERATIONAL CURRENT (IE) AT AC-23A, 500 V	17.4 A
RATED OPERATIONAL CURRENT (IE) AT AC-23A, 690 V	12.6 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 220 V, 230 V, 240 V	19.6 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 380 V, 400 V, 415 V	15.2 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 500 V	12.1 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 660 V, 690 V	8.8 A
RATED OPERATIONAL CURRENT (IE) AT DC-1, LOAD-BREAK SWITCHES L/R = 1 MS	25 A
RATED OPERATIONAL CURRENT (IE) AT DC-23A, 120 V	12 A
RATED OPERATIONAL CURRENT (IE) AT DC-23A, 24 V	25 A
RATED OPERATIONAL CURRENT (IE) AT DC-23A, 48 V	25 A
RATED OPERATIONAL CURRENT (IE) AT DC-23A, 60 V	25 A
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	25 A
RATED OPERATIONAL POWER AT AC-23A, 220/230 V, 50 HZ	5.5 kW

RATED OPERATIONAL POWER AT AC-23A, 400 V, 50 HZ	13 kW
RATED OPERATIONAL POWER AT AC-23A, 500 V, 50 HZ	11 kW
RATED OPERATIONAL POWER AT AC-23A, 690 V, 50 HZ	11 kW
RATED OPERATIONAL POWER AT AC-3, 380/400 V, 50 HZ	7.5 kW
RATED OPERATIONAL POWER AT AC-3, 415 V, 50 HZ	7.5 kW
RATED OPERATIONAL POWER AT AC-3, 690 V, 50 HZ	7.5 kW
TIGHTENING TORQUE	14.1 lb-in, Screw terminals 1.6 Nm, Screw terminals
UNINTERRUPTED CURRENT	Rated uninterrupted current lu is specified for max. cross-section.
RATED SWITCHING CAPACITY	1 HP at 120 V AC, single-phase 10 HP at 480 V AC, three-phase 15 HP at 600 V AC, three-phase 2 HP at 200 V AC, single-phase 3 HP at 200 V AC, three-phase 3 HP at 240 V AC, single-phase 5 HP at 240 V AC, three-phase
HOUSING COLOR	Gray
HOUSING MATERIAL	Plastic

	Resources	
•	BROCHURES	Brochure - T Rotary Cam switch and P Switch- disconnector
	CATALOGUES	P Switch-disconnectors and T Rotary cam switches catalogue CA042001EN
	DECLARATIONS OF	eaton-main-switch-declaration-of-conformity- eu250807en.pdf
	CONFORMITY	eaton-main-switch-declaration-of-conformity- uk251290en.pdf
	DRAWINGS	eaton-rotary-switches-t0-on-off-switch- dimensions.eps

	eaton-general-totally-insulated-t0-main-switch- symbol.eps
	<u>eaton-rotary-switches-front-plate-t0-on-off-switch-symbol-003.eps</u>
	eaton-general-rotary-switch-t0-step-switch- symbol.eps
ECAD MODEL	ETN.255887.edz
INSTALLATION INSTRUCTIONS	eaton-switch-discon-p1-insulated-enclosure- il03802001z.pdf
INSTALLATION VIDEOS	Eaton's P Switch-disconnectors used in a factory
MCAD MODEL	DA-CS-bauform6 DA-CD-bauform6
PRODUCT	MZ008005ZU_Orderform_Customized_Switch.pdf
NOTIFICATIONS	MZ008006ZU Orderform Customized Switch.pdf
WIRING DIAGRAMS	eaton-rotary-switches-on-off-switch-p3-main- switch-wiring-diagram.eps

**PROJECT NAME:** 

**PROJECT NUMBER:** 

**PREPARED BY:** 

DATE:



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