DATASHEET - P3-63/I4-RT-NA



On-Off switch, P3, 63 A, surface mounting, 3 pole, Emergency switching off function, with red thumb grip and yellow front plate, UL/CSA $\,$



Part no. P3-63/I4-RT-NA Catalog No. 255899

NEED- to the state of the state			
Delivery program			
Product range			On-Off switch
Part group reference			P3
Stop Function			Emergency switching off function
			with red thumb grip and yellow front plate
Information about equipment supplied			Auxiliary contact or neutral conductor fitted by user.
Notes			UL/CSA
Number of poles			3 pole
Auxiliary contacts			
		N/0	0
7		N/C	0
Degree of Protection			IP65
			totally insulated
Design			surface mounting
Contact sequence			0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Front plate no.			
Market and a A O COA FO COA!			FS 908 GE
Motor rating AC-23A, 50 - 60 Hz			
400 V	P .	kW	30
Rated uninterrupted current	I _u	Α	63
Note on rated uninterrupted current !u			Rated uninterrupted current $\mathbf{I}_{\mathbf{u}}$ is specified for max. cross-section.

Technical data General

delicial	
Standards	IEC/EN 60947, VDE 0660, IEC/EN 60204, CSA, UL Switch-disconnector according to IEC/EN 60947-3
Climatic proofing	Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
Ambient temperature	

Enclosed		°C	-25 - +40
Overvoltage category/pollution degree			111/3
Rated impulse withstand voltage	U _{imp}	V AC	6000
Mechanical shock resistance		g	15
Mounting position			As required
Contacts			
Mechanical variables			
Number of poles			3 pole
Auxiliary contacts			
		N/0	0
		N/C	0
Electrical characteristics		V 40	
Rated operational voltage	U _e	V AC	690
Rated uninterrupted current	Iu	Α	63
Note on rated uninterrupted current !u			Rated uninterrupted current $\mathbf{I}_{\mathbf{u}}$ is specified for max. cross-section.
Load rating with intermittent operation, class 12			
AB 25 % DF		x I _e	2
AB 40 % DF		x I _e	1.6
AB 60 % DF		x I _e	1.3
Short-circuit rating			
Fuse		A gG/gL	80
Rated short-time withstand current (1 s current)	I _{cw}	A _{rms}	1260
Note on rated short-time withstand current lcw			Current for a time of 1 second
Rated conditional short-circuit current	Iq	kA	4
Switching capacity			
$\cos\phi$ rated making capacity as per IEC 60947-3		Α	800
Rated breaking capacity cos φ to IEC 60947-3		Α	
230 V		Α	640
400/415 V		Α	600
500 V		Α	590
690 V		Α	340
Safe isolation to EN 61140			
between the contacts		V AC	440
Current heat loss per contact at I _e		W	4.5
Lifespan, mechanical	Operations	x 10 ⁶	> 0.1
Maximum operating frequency	Operations/h		1200
AC			
AC-3			
Rating, motor load switch	Р	kW	
220 V 230 V	Р	kW	15
400 V 415 V	Р	kW	30
500 V	Р	kW	30
690 V	Р	kW	30
Rated operational current motor load switch			
230 V	l _e	Α	51
400V 415 V	I _e	Α	55
500 V	I _e	A	44
690 V	I _e	A	22.1
AC-21A	·e	,,	
AU-ZIA Rated operational current switch			
Hated operational current switch 440 V		٨	63
	I _e	Α	υ υ
AC-23A	D	1.1.5.4	
Motor rating AC-23A, 50 - 60 Hz	P	kW	.05
230 V	Р	kW	18.5

SQU	400 V 415 V	Р	kW	30
Part		Р		
1987 1987 1988	690 V	Р	kW	55
4,00 \	Rated operational current motor load switch			
SOB V	230 V	I _e	Α	63
	400 V 415 V	le	Α	63
DCC-1, and invan's wombness in 1 max	500 V	I _e	Α	63
District District	690 V	l _e	Α	63
Rated operational current Iquit AD SI Votage per context pair in series V 9 2A V Rated aperational current Iquit N 9 AB V Based aperational current Iquit N 9 48 V Contacts Iquit N 9 66 V Contacts Iquit N 9 Based aperational current Iquit N 9 Contacts Iquit N 9 Contacts Iquit N 9 Based aperational current Iquit N 9 Contacts Iquit N 9 Contacts Iquit N 9 Contacts Iquit N 1 Televit Iquit	DC			
Notingap per centract pair in senties Verification Verificat	DC-1, Load-break switches L/R = 1 ms			
0.02-23A, motor load switch LR = 15 ms 4 5 1 1 2 1	Rated operational current	l _e	Α	63
Part	Voltage per contact pair in series		V	60
Rated operational current	DC-23A, motor load switch $L/R = 15 \text{ ms}$			
Contacts	24 V			
ABAV	Rated operational current	I _e	Α	50
Rated operational current Contracts	Contacts		Quantity	1
Contracts				
Rated operational current	Rated operational current	l _e	Α	50
Rated operational current Contracts			Quantity	2
Contacts				
120		I _e		
Rated operational current Contracts			Quantity	2
Contacts Quantot Fault 4 Fg 2 In 15 - 2 Infallure in 100,000 switching operations Control circuit reliability at 24 V DC, 10 mA Fault 4 Fg 10 5 - 2 Infallure in 100,000 switching operations Floward or stranded Face probability 4 Fg 2 V 2,5 - 35) Floward or stranded Face probability 2 V 2,5 - 35) 2 V 2,5 - 35) Floward or stranded Face probability 2 V 2,5 - 35) 3 V 2,5 - 35) Floward or stranded Face probability 3 V 2,5 - 35) 3 V 2,5 - 35) Floward or stranded Face probability 3 V 2,5 - 35) 3 V 2,5 - 35) Floward or stranded Face probability 3 V 2,5 - 35) 3 V 2,5 - 35) Floward or stranded Face probability 3 V 2,5 - 35) 3 V 2,5 - 35) Floward or stranded Face probability 3 V 3 V 3 V 3 V 3 V 3 V 3 V 3 V 3 V 3 V				
Fault		Ie		
Probability		F 1:		
Solid or stranded nm² ½ (2.5 35) 2 x (2.5 - 10) Flexible with ferrules to DIN 46228 m² ½ (1.5 - 5) 2 x (1.5 - 6) Terminal screw M8 3 3 Tightening torue for terminal screw M8 3 3 Tightening torue for terminal screw M8 3 3 Tightening torue for terminal screw W8 B10g values as per EN ISO 13849-1, table C1 4 1 4 1 4 1 4 4 1 4 4 1 4	Control circuit reliability at 24 V DC, 10 mA		HF	< 10 ⁻⁵ ,< 1 failure in 100,000 switching operations
Flexible with ferrules to DIN 46228	Terminal capacities			
	Solid or stranded		mm^2	1 x (2,5 - 35) 2 x (2.5 - 10)
Terminal screw	FIGURE 11 CONTRACTOR OF THE PROPERTY OF THE PR		2	
Tightening torque for terminal screw Name 3 Tocknical safety parameters: William of parameters and state of para	riexible with ferrules to DIN 46228		mm ²	1 x (1.5 - 25)
Notes B10 _d values as per EN ISO 13849-1, table C1 Racting data for approved types VAC 600 Contacts U _e VAC 600 Rated operational voltage U _e VAC 600 Rated uninterrupted current max. Auxiliany contacts Auxiliany contacts Auxiliany contacts General Use I _U A 60 Pilot Duty A 600 P600 Switching capacity A 600 P600 Maximum motor rating B 7 600 P600 Single-phase HP 3 120 V AC HP 7.5 200 V AC HP 7.5 240 V AC HP 15 240 V AC HP 15 480 V AC HP 15 480 V AC HP 15	Flexible with terrules to DIN 46228		mm²	
Notes \$10_0\$ values as per EN ISO 13849-1, table C1 Rating data for approved types VEX. VAC 600 Rated operational voltage Vex. VAC 600 Rated uninterrupted current max. Auxiliary conducting paths Auxiliary contacts 600 Auxiliary contacts Iu Applied Duty 6000 Pilot Duty Applied Duty 6000 Switching capacity Applied Duty 6000 Single-phase Ferror Hose Ferror Hose 120 V AC HP 3 200 V AC HP 5.5 240 V AC HP 1.5 250 V AC HP 1.5 200 V AC HP 1.5 200 V AC HP 1.5 200 V AC HP 1.5 480 V AC HP 1.5 480 V AC HP 1.5 480 V AC HP 1.5	Terminal screw			2 x (1.5 - 6) M5
Rated operational voltage	Terminal screw Tightening torque for terminal screw			2 x (1.5 - 6) M5
Contacts Ue V AC 600 Rated operational voltage V AC 600 Rated uninterrupted current max. V AC Image: Contacts of the contact of the	Terminal screw Tightening torque for terminal screw Technical safety parameters:			2 x (1.5 - 6) M5 3
Rated uninterrupted current max. Main conducting paths Page 10 cm Pa	Terminal screw Tightening torque for terminal screw Technical safety parameters: Notes			2 x (1.5 - 6) M5 3
Main conducting paths Main General use A	Terminal screw Tightening torque for terminal screw Technical safety parameters:			2 x (1.5 - 6) M5 3
General use A 60 Auxiliary contacts IU A 10 General Use IU A 6000 P 6000 Pilot Duty A 6000 P 6000 P6000 Switching capacity IV IV IV Maximum motor rating IV IV IV IV Single-phase IV IV 3 IV I	Terminal screw Tightening torque for terminal screw Technical safety parameters: Notes Rating data for approved types Contacts	U _e	Nm	2 x (1.5 - 6) M5 3 B10 _d values as per EN ISO 13849-1, table C1
Auxiliary contacts IU A 10 General Use IU A 600 P 600 Pilot Duty A 600 P 600 Switching capacity F 600 Maximum motor rating F 7 Single-phase F 120 V AC 120 V AC HP 3 200 V AC HP 7.5 240 V AC HP 10 Three-phase HP 15 240 V AC HP 15 480 V AC HP 40	Terminal screw Tightening torque for terminal screw Technical safety parameters: Notes Rating data for approved types Contacts Rated operational voltage	U _e	Nm	2 x (1.5 - 6) M5 3 B10 _d values as per EN ISO 13849-1, table C1
Pilot Duty	Terminal screw Tightening torque for terminal screw Technical safety parameters: Notes Rating data for approved types Contacts Rated operational voltage Rated uninterrupted current max.	Ue	Nm	2 x (1.5 - 6) M5 3 B10 _d values as per EN ISO 13849-1, table C1
Pilot Duty A 600 P 600 Switching capacity Control of P 600 Maximum motor rating Control of P 600 Single-phase P 600 120 V AC HP 3 200 V AC HP 7.5 240 V AC HP 10 Three-phase HP 15 200 V AC HP 15 480 V AC HP 40	Terminal screw Tightening torque for terminal screw Technical safety parameters: Notes Rating data for approved types Contacts Rated operational voltage Rated uninterrupted current max. Main conducting paths	U _e	Nm V AC	2 x (1.5 - 6) M5 3 B10 _d values as per EN ISO 13849-1, table C1 600
Switching capacity P 600 Maximum motor rating F 600 Single-phase F 7 120 V AC HP 3 200 V AC HP 7.5 240 V AC HP 10 Three-phase HP 15 200 V AC HP 15 480 V AC HP 40	Terminal screw Tightening torque for terminal screw Technical safety parameters: Notes Rating data for approved types Contacts Rated operational voltage Rated uninterrupted current max. Main conducting paths General use	U _e	Nm V AC	2 x (1.5 - 6) M5 3 B10 _d values as per EN ISO 13849-1, table C1 600
Switching capacity Maximum motor rating Image: Company of the policy of the polic	Terminal screw Tightening torque for terminal screw Technical safety parameters: Notes Rating data for approved types Contacts Rated operational voltage Rated uninterrupted current max. Main conducting paths General use Auxiliary contacts		Nm V AC	2 x (1.5 - 6) M5 3 B10 _d values as per EN ISO 13849-1, table C1 600
Maximum motor rating Image: Control of the control of th	Terminal screw Tightening torque for terminal screw Technical safety parameters: Notes Rating data for approved types Contacts Rated operational voltage Rated uninterrupted current max. Main conducting paths General use Auxiliary contacts General Use		Nm V AC	2 x (1.5 - 6) M5 3 B10 _d values as per EN ISO 13849-1, table C1 600 10 A 600
Single-phase Image: Control of the phase of the ph	Terminal screw Tightening torque for terminal screw Technical safety parameters: Notes Rating data for approved types Contacts Rated operational voltage Rated uninterrupted current max. Main conducting paths General use Auxiliary contacts General Use Pilot Duty		Nm V AC	2 x (1.5 - 6) M5 3 B10 _d values as per EN ISO 13849-1, table C1 600 10 A 600
120 V AC HP 3 200 V AC HP 7.5 240 V AC HP 10 Three-phase HP 15 240 V AC HP 15 480 V AC HP 40	Terminal screw Tightening torque for terminal screw Technical safety parameters: Notes Rating data for approved types Contacts Rated operational voltage Rated uninterrupted current max. Main conducting paths General use Auxiliary contacts General Use Pilot Duty Switching capacity		Nm V AC	2 x (1.5 - 6) M5 3 B10 _d values as per EN ISO 13849-1, table C1 600 10 A 600
240 V AC HP 10 Three-phase Three-phase 200 V AC HP 15 240 V AC HP 15 480 V AC HP 40	Terminal screw Tightening torque for terminal screw Technical safety parameters: Notes Rating data for approved types Contacts Rated operational voltage Rated uninterrupted current max. Main conducting paths General use Auxiliary contacts General Use Pilot Duty Switching capacity Maximum motor rating		Nm V AC	2 x (1.5 - 6) M5 3 B10 _d values as per EN ISO 13849-1, table C1 600 10 A 600
Three-phase HP 15 200 V AC HP 15 240 V AC HP 15 480 V AC HP 40	Terminal screw Tightening torque for terminal screw Technical safety parameters: Notes Rating data for approved types Contacts Rated operational voltage Rated uninterrupted current max. Main conducting paths General use Auxiliary contacts General Use Pilot Duty Switching capacity Maximum motor rating Single-phase		Nm V AC A	2 x (1.5 - 6) M5 3 B10 _d values as per EN ISO 13849-1, table C1 600 10 A 600 P 600
200 V AC HP 15 240 V AC HP 15 480 V AC HP 40	Terminal screw Tightening torque for terminal screw Technical safety parameters: Notes Rating data for approved types Contacts Rated operational voltage Rated uninterrupted current max. Main conducting paths General use Auxiliary contacts General Use Pilot Duty Switching capacity Maximum motor rating Single-phase 120 V AC		Nm VAC A HP	2 x (1.5 - 6) M5 3 B10 _d values as per EN ISO 13849-1, table C1 600 10 A 600 P 600
240 V AC	Terminal screw Tightening torque for terminal screw Technical safety parameters: Notes Rating data for approved types Contacts Rated operational voltage Rated uninterrupted current max. Main conducting paths General use Auxiliary contacts General Use Pilot Duty Switching capacity Maximum motor rating Single-phase 120 V AC 200 V AC		Nm VAC A HP	2 x (1.5 - 6) M5 3 B10 _d values as per EN ISO 13849-1, table C1 600 10 A 600 P 600
480 V AC HP 40	Terminal screw Tightening torque for terminal screw Technical safety parameters: Notes Rating data for approved types Contacts Rated operational voltage Rated uninterrupted current max. Main conducting paths General use Auxiliary contacts General Use Pilot Duty Switching capacity Maximum motor rating Single-phase 120 V AC 200 V AC 240 V AC		Nm VAC A HP	2 x (1.5 - 6) M5 3 B10 _d values as per EN ISO 13849-1, table C1 600 10 A 600 P 600
	Terminal screw Tightening torque for terminal screw Technical safety parameters: Notes Rating data for approved types Contacts Rated operational voltage Rated uninterrupted current max. Main conducting paths General use Auxiliary contacts General Use Pilot Duty Switching capacity Maximum motor rating Single-phase 120 V AC 200 V AC 240 V AC Three-phase		Nm VAC A HP HP	2 x (1.5 - 6) M5 3 B10 _d values as per EN ISO 13849-1, table C1 600 10 A 600 P 600 3 7.5
600 V AC HP 50	Terminal screw Tightening torque for terminal screw Technical safety parameters: Notes Rating data for approved types Contacts Rated operational voltage Rated uninterrupted current max. Main conducting paths General use Auxiliary contacts General Use Pilot Duty Switching capacity Maximum motor rating Single-phase 120 V AC 240 V AC Three-phase 200 V AC		Nm VAC A A HP HP HP	2 x (1.5 - 6) M5 3 B10 _d values as per EN ISO 13849-1, table C1 600 10 A 600 P 600 3 7.5 10
	Terminal screw Tightening torque for terminal screw Technical safety parameters: Notes Rating data for approved types Contacts Rated operational voltage Rated uninterrupted current max. Main conducting paths General use Auxiliary contacts General Use Pilot Duty Switching capacity Maximum motor rating Single-phase 120 V AC 240 V AC Three-phase 200 V AC 240 V AC 240 V AC		Nm V AC A A HP HP HP HP	2 x (1.5 - 6) M5 3 B10 _d values as per EN ISO 13849-1, table C1 600 10 A 600 P 600 3 7.5 10

Short Circuit Current Rating	SCCR	
Basic Rating	kA	10
max. Fuse	Α	150
Terminal capacity		
Solid or flexible conductor with ferrule	AWG	14 - 2
Terminal screw		M5
Tightening torque	lb-in	26.5

Design verification as per IEC/EN 61439

200:g.: 10::::0a:::0 po: :20,2:: 0: :00			
Technical data for design verification			
Rated operational current for specified heat dissipation	In	Α	63
Heat dissipation per pole, current-dependent	P _{vid}	W	4.5
Equipment heat dissipation, current-dependent	P _{vid}	W	0
Static heat dissipation, non-current-dependent	P _{vs}	W	0
Heat dissipation capacity	P _{diss}	W	0
Operating ambient temperature min.		°C	-25
Operating ambient temperature max.		°C	40
IEC/EN 61439 design verification			
10.2 Strength of materials and parts			
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 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric 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 Insulation properties			
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 switch gear must be observed. $\label{eq:constraint}$
10.12 Electromagnetic compatibility			Is the panel builder's responsibility. The specifications for the switch gear must be observed. $\label{eq:constraint}$
10.13 Mechanical function			The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

Technical data ETIM 7.0

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])

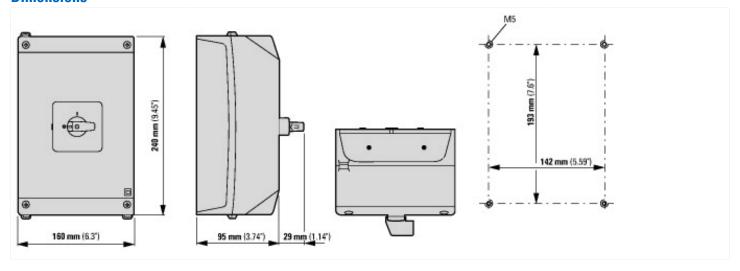
[AKF060013])	
Version as main switch	No
Version as maintenance-/service switch	No
Version as safety switch	No
Version as emergency stop installation	No
Version as reversing switch	No
Number of switches	1

Max. rated operation voltage Ue AC	V	690
Rated operating voltage	V	690 - 690
Rated permanent current lu	Α	63
Rated permanent current at AC-23, 400 V	Α	63
Rated permanent current at AC-21, 400 V	Α	63
Rated operation power at AC-3, 400 V	kW	30
Rated short-time withstand current lcw	kA	1.26
Rated operation power at AC-23, 400 V	kW	30
Switching power at 400 V	kW	30
Conditioned rated short-circuit current Iq	kA	4
Number of poles		3
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		Complete device in housing
Suitable for ground mounting		Yes
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		Toggle
Interlockable		No
Type of electrical connection of main circuit		Screw connection
Degree of protection (IP), front side		IP65
Degree of protection (NEMA)		12

Approvals

PP 5 5 5	
Product Standards	UL 60947-4-1;CSA - C22.2 No. 60947-4-1-14; CSA-C22.2 No. 94; IEC/EN 60947-3; CE marking
UL File No.	E36332
UL Category Control No.	NLRV
CSA File No.	12528
CSA Class No.	3211-05
North America Certification	UL listed, CSA certified
Specially designed for North America	Yes, with additional labeling according to UL on the enclosure
Suitable for	Branch circuits, suitable as motor disconnect
Degree of Protection	IEC: IP65; UL/CSA Type 1, 12

Dimensions



Assets (links)

Declaration of CE Conformity 00003104

Instruction Leaflets

IL03801010Z2018_05

Additional product information (links)

IL03801010Z (AWA1150-1982) Cam switches: switch-disconnectors		
IL03801010Z (AWA1150-1982) Cam switches: switch-disconnectors	ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL03801010Z2018_05.pdf	
Technical overview cam switch, switch-disconnector	http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&startpage=4.2	
System overview cam switch T	http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&startpage=4.4	
System overview switch-disconnector P	http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&startpage=4.6	
Key to part numbers Cam switch	http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&startpage=4.8	
Key to part numbers Switch-disconnector	http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&startpage=4.8	
Switches for ATEX	http://www.coopercrouse-hinds.eu/en/products/25-ex-safety-and-main-current-switches.html	
Ordering form for SOND switches and SOND front plates(DE_EN)	ftp://ftp.moeller.net/DOCUMENTATION/PDF/MZ008005ZU_Orderform_Customized_Switch.pdf	
Ordering form for SOND switches and SOND front plates(DE_EN)	ftp://ftp.moeller.net/DOCUMENTATION/PDF/MZ008006ZU_Orderform_Customized_Switch.pdf	