

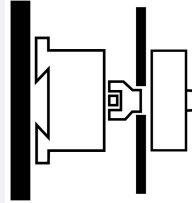
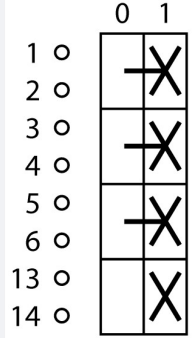
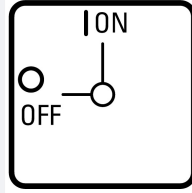




**Main switch, 3 pole + 1 N/O, 32 A, Emergency-Stop function, 90 °, rear mounting**

**Part no. T3-2-15169/V/SVB**  
**Article no. 008653**

## Delivery program

Product range			Main switch maintenance switch Repair switch
Part group reference			T3
Stop Function			Emergency switching off function With red rotary handle and yellow locking ring
Number of poles			3 pole
<b>Auxiliary contacts</b>			
		N/O	1
		N/C	0
Degree of Protection			Front IP65
Design			rear mounting 
Contact sequence			
Switching angle		°	90
Function			
<b>Motor rating AC-23A, 50 - 60 Hz</b>			
400 V	P	kW	15
Rated uninterrupted current	$I_u$	A	32
Number of contact units		contact unit(s)	2

## Technical data

<b>General</b>			
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			
Open		°C	-25 - +50
Enclosed		°C	-25 - +40
Overvoltage category/pollution degree			
			III/3
Rated impulse withstand voltage	$U_{imp}$	V AC	6000
Mechanical shock resistance		g	15
Mounting position			
			As required
Protection against direct contact when actuated from front (EN 50274)			
			Finger and back-of-hand proof

## Contacts

Mechanical variables			
Number of poles			3 pole
Auxiliary contacts			
		N/O	1
		N/C	0
Electrical characteristics			
Rated operational voltage	$U_e$	V AC	690
Rated uninterrupted current	$I_u$	A	32
Note on rated uninterrupted current $I_u$			Rated uninterrupted current $I_u$ is specified for max. cross-section.
Load rating with intermittent operation, class 12			
AB 25 % DF		$\times I_e$	2
AB 40 % DF		$\times I_e$	1.6
AB 60 % DF		$\times I_e$	1.3
Short-circuit rating			
Fuse		A gG/gL	35
Rated short-time withstand current (1 s current)	$I_{cw}$	$A_{rms}$	650
Note on rated short-time withstand current $I_{cw}$			Current for a time of 1 second
Rated conditional short-circuit current	$I_q$	kA	1

## Switching capacity

cos $\varphi$ rated making capacity as per IEC 60947-3		A	320
Rated breaking capacity cos $\varphi$ to IEC 60947-3		A	
230 V		A	260
400/415 V		A	260
500 V		A	240
690 V		A	170
Safe isolation to EN 61140			
between the contacts		V AC	440
Current heat loss per contact at $I_e$		W	1.1
Current heat loss per auxiliary circuit at $I_e$ (AC-15/230 V)		CO	1.1
Lifespan, mechanical	Operations	$\times 10^6$	> 0.5
Maximum operating frequency	Operations/h		1200
AC			
AC-3			
Rating, motor load switch	P	kW	
220 V 230 V	P	kW	5.5
230 V Star-delta	P	kW	7.5
400 V 415 V	P	kW	11
400 V Star-delta	P	kW	15
500 V	P	kW	15
500 V Star-delta	P	kW	18.5
690 V	P	kW	11
690 V Star-delta	P	kW	22
Rated operational current motor load switch			
230 V	$I_e$	A	23.7
230 V star-delta	$I_e$	A	32

400V 415 V	I <sub>e</sub>	A	23.7
400 V star-delta	I <sub>e</sub>	A	32
500 V	I <sub>e</sub>	A	23.7
500 V star-delta	I <sub>e</sub>	A	32
690 V	I <sub>e</sub>	A	14.7
690 V star-delta	I <sub>e</sub>	A	25.5
AC-21A			
Rated operational current switch			
440 V	I <sub>e</sub>	A	32
AC-23A			
Motor rating AC-23A, 50 - 60 Hz			
230 V	P	kW	7.5
400 V 415 V	P	kW	15
500 V	P	kW	15
690 V	P	kW	15
Rated operational current motor load switch			
230 V	I <sub>e</sub>	A	32
400 V 415 V	I <sub>e</sub>	A	32
500 V	I <sub>e</sub>	A	26.4
690 V	I <sub>e</sub>	A	17
DC			
DC-1, Load-break switches L/R = 1 ms			
Rated operational current			
	I <sub>e</sub>	A	25
Voltage per contact pair in series			
		V	60
DC-21A			
Rated operational current			
	I <sub>e</sub>	A	1
Contacts			
		Quantity	1
DC-23A, motor load switch L/R = 15 ms			
24 V			
Rated operational current			
	I <sub>e</sub>	A	25
Contacts			
		Quantity	1
48 V			
Rated operational current			
	I <sub>e</sub>	A	25
Contacts			
		Quantity	2
60 V			
Rated operational current			
	I <sub>e</sub>	A	25
Contacts			
		Quantity	3
120 V			
Rated operational current			
	I <sub>e</sub>	A	12
Contacts			
		Quantity	3
240 V			
Rated operational current			
	I <sub>e</sub>	A	5
Contacts			
		Quantity	5
DC-13, Control switches L/R = 50 ms			
Rated operational current			
	I <sub>e</sub>	A	20
Voltage per contact pair in series			
		V	24
Control circuit reliability at 24 V DC, 10 mA			
	Fault probability	H <sub>F</sub>	< 10 <sup>-5</sup> , < 1 fault in 100000 operations

### Terminal capacities

Solid or stranded		mm <sup>2</sup>	1 x (1 - 6) 2 x (1 - 6)
Flexible with ferrules to DIN 46228		mm <sup>2</sup>	1 x (0.75 - 4) 2 x (0.75 - 4)
Terminal screw			M4
Max. tightening torque		Nm	1.6

## Technical safety parameters:

<b>Notes</b>			B10 <sub>d</sub> values as per EN ISO 13849-1, table C1
<b>Rating data for approved types</b>			
Contacts			
Rated operational voltage	U <sub>e</sub>	V AC	600
Rated uninterrupted current max.			
Main conducting paths			
General use	I <sub>u</sub>	A	25
Auxiliary contacts			
General Use	I <sub>u</sub>	A	10
Pilot Duty			A 600 P 600
Switching capacity			
Maximum motor rating			
Single-phase			
120 V AC		HP	1.5
200 V AC		HP	3
240 V AC		HP	3
Three-phase			
200 V AC		HP	3
240 V AC		HP	3
480 V AC		HP	7.5
600 V AC		HP	10
Short Circuit Current Rating			
		SCCR	
Basic Rating		kA	5
max. Fuse		A	40
High fault rating		kA	10
max. Fuse		A	40, Class J
Terminal capacity			
Solid or flexible conductor with ferrule		AWG	14 - 10
Terminal screw			M4
Tightening torque		lb-in	17.6

## Design verification as per IEC/EN 61439

Technical data for design verification			
Operating ambient temperature min.		°C	-25
Operating ambient temperature max.		°C	50

## Technical data ETIM 6.0

Low-voltage industrial components (EG000017) / Switch disconnecter (EC000216)			
Electric engineering, automation, process control engineering / Low-voltage switch technology / Off-load switch, circuit breaker, control switch / Switch disconnecter (ecl@ss8.1-27-37-14-03 [AKF060010])			
Version as main switch			Yes
Version as maintenance-/service switch			Yes
Version as safety switch			No
Version as emergency stop installation			Yes
Version as reversing switch			No
Max. rated operation voltage U <sub>e</sub> AC		V	690
Rated operating voltage		V	690 - 690
Rated permanent current I <sub>u</sub>		A	32
Rated permanent current at AC-21, 400 V		A	32
Rated operation power at AC-3, 400 V		kW	11
Rated short-time withstand current I <sub>cw</sub>		kA	0.65
Rated operation power at AC-23, 400 V		kW	15
Switching power at 400 V		kW	15
Conditioned rated short-circuit current I <sub>q</sub>		kA	1

Number of poles		3
Number of auxiliary contacts as normally closed contact		0
Number of auxiliary contacts as normally open contact		1
Number of auxiliary contacts as change-over contact		0
Motor drive optional		No
Motor drive integrated		No
Voltage release optional		No
Device construction		Built-in device fixed built-in technique
Suitable for ground mounting		Yes
Suitable for front mounting 4-hole		No
Suitable for front mounting center		No
Suitable for distribution board installation		No
Suitable for intermediate mounting		Yes
Colour control element		Red
Type of control element		Door coupling rotary drive
Interlockable		Yes
Type of electrical connection of main circuit		Screw connection
Degree of protection (IP), front side		IP65

## Approvals

Product Standards		UL 508; CSA-C22.2 No. 14-05; 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
Suitable for		Branch circuits, suitable as motor disconnect
Degree of Protection		IEC: IP65; UL/CSA Type 1, 12

## Dimensions

Technical drawings of a 3-pole circuit breaker showing front, side, and door views with dimensions and callouts 1-4.

- 1** Shaft and interlock extension with ZAV-P3 + ZVV-P3 possible; max.  $4 \times 25 = 100$  mm
- 2** ZFS... Label mount not included as standard
- 3** Drilling dimensions base
- 4** Drilling dimensions door




**$d = 4 - 8 \text{ mm}$**

**$b + d \leq 47 \text{ mm}$**

**$d = 0.16 - 0.31''$**

**$b + d \leq 1.85''$**

 3 padlocks

### Additional product information (links)

#### IL03801021Z (AWA1150-0587) Cam switches: rear mounting

IL03801021Z (AWA1150-0587) Cam switches: rear mounting	<a href="ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL03801021Z2016_07.pdf">ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL03801021Z2016_07.pdf</a>
Display flip catalog page.	<a href="http://ecat.moeller.net/flip-cat/?edition=K115A&amp;startpage=13">http://ecat.moeller.net/flip-cat/?edition=K115A&amp;startpage=13</a>
Technical overview cam switch, switch-disconnector	<a href="http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&amp;startpage=4.2">http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&amp;startpage=4.2</a>
System overview cam switch T	<a href="http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&amp;startpage=4.4">http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&amp;startpage=4.4</a>
System overview switch-disconnector P	<a href="http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&amp;startpage=4.6">http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&amp;startpage=4.6</a>
Key to part numbers Cam switch	<a href="http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&amp;startpage=4.8">http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&amp;startpage=4.8</a>
Key to part numbers Switch-disconnector	<a href="http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&amp;startpage=4.8">http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&amp;startpage=4.8</a>
Switches for ATEX	<a href="http://www.coopercrouse-hinds.eu/en/products/25-ex-safety-and-main-current-switches.html">http://www.coopercrouse-hinds.eu/en/products/25-ex-safety-and-main-current-switches.html</a>