



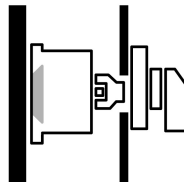
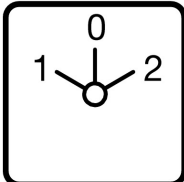
Changeoverswitches, T5, 100 A, rear mounting, 5 contact unit(s),  
 Contacts: 10, 60 °, maintained, With 0 (Off) position, 1-0-2, design no. 8361



Part no. **T5-5-8361/Z**  
 Catalog No. **095278**

Similar to illustration

**Delivery program**

Product range			Control switches																																																																																				
Part group reference			T5																																																																																				
Basic function			Changeoverswitches with black thumb grip and front plate																																																																																				
Contacts			10																																																																																				
Degree of Protection			Front IP65																																																																																				
Design			rear mounting																																																																																				
																																																																																							
Contact sequence			<table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td></td> <td style="text-align: center;">1</td> <td style="text-align: center;">0</td> <td style="text-align: center;">2</td> </tr> <tr> <td>1 o</td> <td style="text-align: center;">X</td> <td></td> <td></td> </tr> <tr> <td>2 o</td> <td></td> <td></td> <td style="text-align: center;">X</td> </tr> <tr> <td>3 o</td> <td></td> <td></td> <td></td> </tr> <tr> <td>4 o</td> <td></td> <td></td> <td style="text-align: center;">X</td> </tr> <tr> <td>5 o</td> <td style="text-align: center;">X</td> <td></td> <td></td> </tr> <tr> <td>6 o</td> <td></td> <td></td> <td></td> </tr> <tr> <td>7 o</td> <td></td> <td></td> <td style="text-align: center;">X</td> </tr> <tr> <td>8 o</td> <td></td> <td></td> <td></td> </tr> <tr> <td>9 o</td> <td style="text-align: center;">X</td> <td></td> <td></td> </tr> <tr> <td>10 o</td> <td></td> <td></td> <td style="text-align: center;">X</td> </tr> <tr> <td>11 o</td> <td></td> <td></td> <td></td> </tr> <tr> <td>12 o</td> <td></td> <td></td> <td style="text-align: center;">X</td> </tr> <tr> <td>13 o</td> <td style="text-align: center;">X</td> <td></td> <td></td> </tr> <tr> <td>14 o</td> <td></td> <td></td> <td></td> </tr> <tr> <td>15 o</td> <td></td> <td></td> <td style="text-align: center;">X</td> </tr> <tr> <td>16 o</td> <td></td> <td></td> <td></td> </tr> <tr> <td>17 o</td> <td style="text-align: center;">X</td> <td></td> <td></td> </tr> <tr> <td>18 o</td> <td></td> <td></td> <td style="text-align: center;">X</td> </tr> <tr> <td>19 o</td> <td></td> <td></td> <td></td> </tr> <tr> <td>20 o</td> <td></td> <td></td> <td style="text-align: center;">X</td> </tr> </table>		1	0	2	1 o	X			2 o			X	3 o				4 o			X	5 o	X			6 o				7 o			X	8 o				9 o	X			10 o			X	11 o				12 o			X	13 o	X			14 o				15 o			X	16 o				17 o	X			18 o			X	19 o				20 o			X
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Design number			8361																																																																																				
Front plate no.			 <b>FS 684</b>																																																																																				
front plate			1-0-2																																																																																				
<b>Motor rating AC-23A, 50 - 60 Hz</b>																																																																																							
400 V	P	kW	55																																																																																				
Rated uninterrupted current	I <sub>u</sub>	A	100																																																																																				
Note on rated uninterrupted current I <sub>u</sub>			Rated uninterrupted current I <sub>u</sub> is specified for max. cross-section.																																																																																				
Number of contact units		contact unit(s)	5																																																																																				

## Technical data

### General

Standards			IEC/EN 60947, VDE 0660, IEC/EN 60204 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

### Contacts

Electrical characteristics			
Rated operational voltage	$U_e$	V AC	690
Rated uninterrupted current	$I_u$	A	100
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		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	100
Rated short-time withstand current (1 s current)	$I_{cw}$	$A_{rms}$	1700
Note on rated short-time withstand current $I_{cw}$			Current for a time of 1 second
Rated conditional short-circuit current	$I_q$	kA	2

### Switching capacity

cos $\varphi$ rated making capacity as per IEC 60947-3		A	950
Rated breaking capacity cos $\varphi$ to IEC 60947-3		A	
230 V		A	760
400/415 V		A	740
500 V		A	590
690 V		A	420
Safe isolation to EN 61140			
between the contacts		V AC	440
Current heat loss per contact at $I_e$		W	7.5
Current heat loss per auxiliary circuit at $I_e$ (AC-15/230 V)		CO	7.5
Lifespan, mechanical	Operations	x $10^6$	> 0.5
Maximum operating frequency	Operations/h		1200
AC			
AC-3			
Rating, motor load switch	P	kW	
220 V 230 V	P	kW	22
230 V Star-delta	P	kW	30
400 V 415 V	P	kW	30
400 V Star-delta	P	kW	45
500 V	P	kW	30
500 V Star-delta	P	kW	45
690 V	P	kW	15
690 V Star-delta	P	kW	22
Rated operational current motor load switch			
230 V	$I_e$	A	71
230 V star-delta	$I_e$	A	100
400V 415 V	$I_e$	A	55

400 V star-delta	I <sub>e</sub>	A	95.3
500 V	I <sub>e</sub>	A	44
500 V star-delta	I <sub>e</sub>	A	76.2
690 V	I <sub>e</sub>	A	17
690 V star-delta	I <sub>e</sub>	A	29.4
<b>AC-23A</b>			
Motor rating AC-23A, 50 - 60 Hz	P	kW	
230 V	P	kW	30
400 V 415 V	P	kW	55
500 V	P	kW	37
690 V	P	kW	30
<b>Rated operational current motor load switch</b>			
230 V	I <sub>e</sub>	A	100
400 V 415 V	I <sub>e</sub>	A	100
500 V	I <sub>e</sub>	A	55
690 V	I <sub>e</sub>	A	32
<b>DC</b>			
DC-1, Load-break switches L/R = 1 ms			
Rated operational current	I <sub>e</sub>	A	80
Voltage per contact pair in series		V	60
Control circuit reliability at 24 V DC, 10 mA	Fault probability	H <sub>F</sub>	< 10 <sup>-5</sup> , < 1 failure in 100,000 switching operations

### Terminal capacities

Solid or stranded		mm <sup>2</sup>	1 x (2,5 - 35) 2 x (2,5 - 16)
Flexible with ferrules to DIN 46228		mm <sup>2</sup>	1 x (1 - 25) 2 x (1.5 - 10)
Terminal screw			M6
Tightening torque for terminal screw		Nm	4

### Technical safety parameters:

<b>Notes</b>			B10 <sub>d</sub> values as per EN ISO 13849-1, table C1
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### Rating data for approved types

<b>Contacts</b>			
Rated operational voltage	U <sub>e</sub>	V AC	600
Rated uninterrupted current max.			
<b>Main conducting paths</b>			
General use		A	65
<b>Terminal capacity</b>			
Terminal screw			M6

## Design verification as per IEC/EN 61439

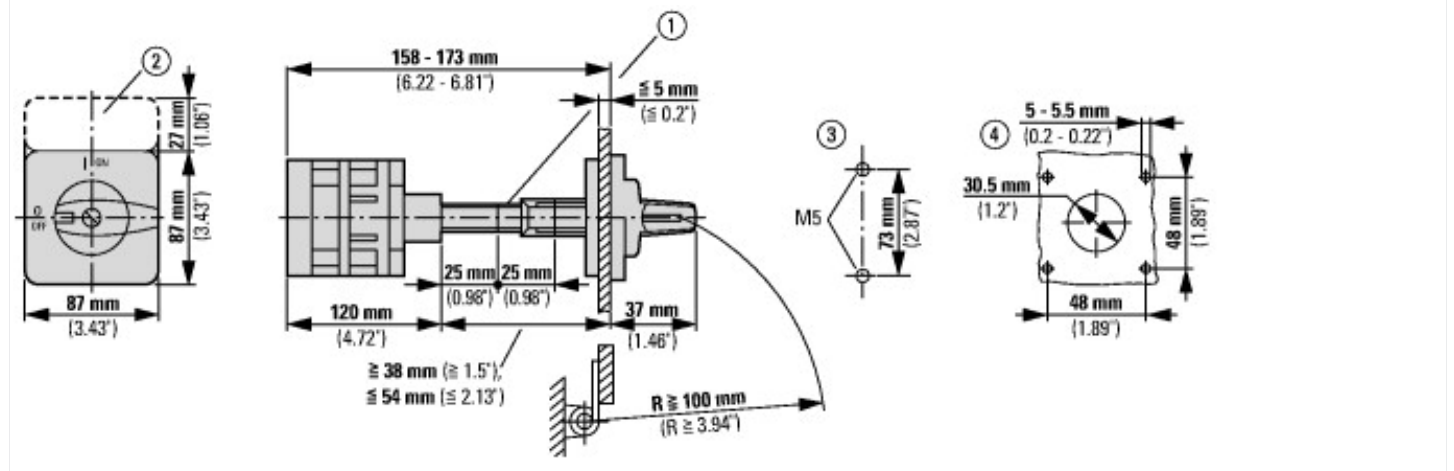
<b>Technical data for design verification</b>			
Rated operational current for specified heat dissipation	I <sub>n</sub>	A	100
Heat dissipation per pole, current-dependent	P <sub>vid</sub>	W	7.5
Equipment heat dissipation, current-dependent	P <sub>vid</sub>	W	0
Static heat dissipation, non-current-dependent	P <sub>vs</sub>	W	0
Heat dissipation capacity	P <sub>diss</sub>	W	0
Operating ambient temperature min.		°C	-25
Operating ambient temperature max.		°C	50
<b>IEC/EN 61439 design verification</b>			
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 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 7.0

Low-voltage industrial components (EG000017) / Off-load switch (EC001105)		
Electric engineering, automation, process control engineering / Low-voltage switch technology / Off-load switch, circuit breaker, control switch / Changeover switch (ecl@ss10.0.1-27-37-14-05 [AKF062013])		
Model		Reverser
Number of poles		5
With 0 (off) position		Yes
With retraction in 0-position		No
Rated permanent current I <sub>u</sub>	A	100
Rated operation current I <sub>e</sub> at AC-3, 400 V	A	55
Rated operation power at AC-3, 400 V	kW	30
Degree of protection (IP), front side		IP65
Degree of protection (NEMA), front side		Other
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
Suitable for ground mounting		Yes
Suitable for front mounting 4-hole		No
Suitable for distribution board installation		No
Suitable for intermediate mounting		Yes
Complete device in housing		No
Material housing		Plastic
Type of control element		Toggle
Type of electrical connection of main circuit		Screw connection

## Dimensions



- ① Shaft extension with ZAV-P3 possible, max.  $4 \times 25 = 100$  mm  
 ② ZFS-... Label mount not included as standard  
 ③ Drilling dimensions base  
 ④ Drilling dimensions door  
 Cam switches T5B and T5 are of identical design, only their contacts are different

## Additional product information (links)

Display flip catalog page.	<a href="http://ecat.moeller.net/flip-cat/?edition=K115A&amp;startpage=135">http://ecat.moeller.net/flip-cat/?edition=K115A&amp;startpage=135</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>