DATASHEET - T0-5-15250/EZ



Step switches, T0, 20 A, centre mounting, 5 contact unit(s), Contacts: 9, 30 °, maintained, Without 0 (Off) position, 1-9, design no. 15250



Part no. Catalog No. T0-5-15250/EZ 014216

Similar to illustration

Product range Image: Product range Control switches Part goog reference Image: Product range Image: Product range Basic function Image: Product range Image: Product range Contacts Image: Product range Image: Product range Image: Product range Degree of Protection Image: Product range Image: Product range Image: Product range Degree of Protection Image: Product range Image: Product range Image: Product range Degree of Protection Image: Product range Image: Product range Image: Product range Degree of Protection Image: Product range Image: Product range Image: Product range Degree of Protection Image: Product range Image: Product range Image: Product range Degree of Protection Image: Product range Image: Product range Image: Product range Degree of Protection Image: Product range Image: Product range Image: Product range Degree of Protection Image: Product range Image: Product range Image: Product range Degree of Protection Image: Product range Image: Product range Image: Product range Switching angle Ima	Delivery program			
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Font plateFont Plate<	Design number			15250
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400 VPkW5.5Rated uninterrupted currentIuA20	front plate			1-9
Rated uninterrupted current Iu A 20	Motor rating AC-23A, 50 - 60 Hz			
	400 V	Р	kW	5.5
Note on rated uninterrupted current l _u is specified for max. cross-section.	Rated uninterrupted current	l _u	А	20
	Note on rated uninterrupted current $!_{\boldsymbol{u}}$			Rated uninterrupted current ${\rm I}_{\rm u}$ is specified for max. cross-section.
Number of contact units contact units contact unit(s) 5	Number of contact units			5

Technical data

General			
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		9	As required
Contacts			
Electrical characteristics			
Rated operational voltage	U _e	V AC	690
Rated uninterrupted current	l _u	A	20
Note on rated uninterrupted current !u			Rated uninterrupted current I _u is specified for max. cross-section.
Load rating with intermittent operation, class 12			
AB 25 % DF		x l _e	2
AB 40 % DF		x l _e	1.6
AB 60 % DF			1.3
		x l _e	
Short-circuit rating Fuse		A aC/al	20
		A gG/gL	
Rated short-time withstand current (1 s current)	I _{cw}	A _{rms}	320
Note on rated short-time withstand current lcw			Current for a time of 1 second
Rated conditional short-circuit current	lq	kA	6
Switching capacity cos φ rated making capacity as per IEC 60947-3		A	130
Rated breaking capacity cos ϕ to IEC 60947-3		A	130
230 V		A	100
400/415 V		A	110
500 V 690 V		A A	80 60
Safe isolation to EN 61140		A	
between the contacts		V AC	440
Current heat loss per contact at l _e		W	0.6
Current heat loss per auxiliary circuit at I _e (AC-15/230 V)			
	0	CO	0.6
Lifespan, mechanical	Operations	x 10 ⁶	> 0.4
		X 10	
Maximum operating frequency	Operations/h	XIU	1200
Maximum operating frequency AC		X IU	1200
Maximum operating frequency AC AC-3	Operations/h		1200
Maximum operating frequency AC AC-3 Rating, motor load switch	Operations/h	kW	
Maximum operating frequency AC AC-3 Rating, motor load switch 220 V 230 V	Operations/h P P	kW kW	3
Maximum operating frequency AC AC-3 Rating, motor load switch 220 V 230 V 230 V Star-delta	Operations/h P P P P	kW kW kW	3 5.5
Maximum operating frequency AC AC-3 Rating, motor load switch 220 V 230 V 230 V Star-delta 400 V 415 V	Operations/h P P P P P	kW kW kW kW	3 5.5 5.5
Maximum operating frequency AC AC-3 Rating, motor load switch 220 V 230 V 230 V Star-delta 400 V 415 V 400 V Star-delta	Operations/h P P P P P P P P	kW kW kW kW	3 5.5 5.5 7.5
Maximum operating frequency AC AC-3 Rating, motor load switch 220 V 230 V 230 V Star-delta 400 V 415 V 400 V Star-delta 500 V	Operations/h P P P P P P P P P	kW kW kW kW kW	3 5.5 5.5 7.5 5.5
Maximum operating frequency AC AC-3 Rating, motor load switch 220 V 230 V 230 V Star-delta 400 V 415 V 400 V Star-delta 500 V 500 V Star-delta	Operations/h P P P P P P P P P P P	kW kW kW kW kW kW	3 5.5 5.5 7.5 5.5 7.5 7.5
Maximum operating frequency AC AC-3 Rating, motor load switch 220 V 230 V 230 V Star-delta 400 V 415 V 400 V Star-delta 500 V 500 V Star-delta 690 V	Operations/h Opera	kW kW kW kW kW kW kW	3 5.5 5.5 7.5 5.5 7.5 7.5
Maximum operating frequency AC AC-3 Rating, motor load switch 220 V 230 V 230 V Star-delta 400 V 415 V 400 V Star-delta 500 V 500 V Star-delta 690 V 690 V Star-delta	Operations/h P P P P P P P P P P P	kW kW kW kW kW kW	3 5.5 5.5 7.5 5.5 7.5 7.5
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Maximum operating frequency AC AC-3 Rating, motor load switch 220 V 230 V 230 V Star-delta 400 V 415 V 400 V Star-delta 500 V 500 V Star-delta 690 V 690 V Star-delta 230 V Star-delta 230 V Star-delta 690 V 690 V Star-delta 230 V Star-delta 700 V Star-delta	Operations/h Opera	kW kW kW kW kW kW kW	3 5.5 5.5 7.5 5.5 7.5 5.5 7.5 1.5 11.5
Maximum operating frequency AC AC-3 Rating, motor load switch 220 V 230 V 230 V Star-delta 400 V 415 V 400 V Star-delta 500 V 500 V 690 V 690 V Star-delta 230 V 230 V Star-delta	Operations/h Opera	kW kW kW kW kW kW kW	3 5.5 5.5 7.5 5.5 7.5 4 5.5
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Maximum operating frequency AC AC-3 Rating, motor load switch 220 V 230 V 230 V Star-delta 400 V 415 V 400 V Star-delta 500 V 500 V 690 V 690 V 690 V 230 V Star-delta 690 V 230 V Star-delta 690 V 230 V Star-delta 690 V Star-delta 690 V 230 V Star-delta 400 V Star-delta 690 V 690 V Star-delta 400 V Star-delta 690 V 690 V 690 V Star-delta 400 V Star-delta 230 V 230 V 230 V star-delta 400 V star-delta 400 V star-delta 400 V star-delta 500 V	Operations/h Operations/h P P P P P P P P P P I P I </td <td>kW kW kW kW kW kW kW kW kW kW A A A A</td> <td>3 5.5 5.5 7.5 5.5 7.5 5.5 7.5 1.5 1.5 1.5 20 11.5 20 9</td>	kW kW kW kW kW kW kW kW kW kW A A A A	3 5.5 5.5 7.5 5.5 7.5 5.5 7.5 1.5 1.5 1.5 20 11.5 20 9
Maximum operating frequency AC AC-3 Rating, motor load switch 220 V 230 V 230 V Star-delta 400 V 415 V 400 V Star-delta 500 V 500 V 690 V 690 V Star-delta 690 V 690 V Star-delta 230 V Star-delta 690 V 690 V Star-delta 500 V star-delta 600 V star-delta 600 V star-delta 500 V 500 V	Operations/h Operations/h P P P P P P P P P P P I P I </td <td>kW kW kW kW kW kW kW kW A A A A A A A</td> <td>3 5.5 5.5 7.5 7.5 7.5 4 5.5 1.5 1.5 20 1.5 20 9 1.5 20 1.5</td>	kW kW kW kW kW kW kW kW A A A A A A A	3 5.5 5.5 7.5 7.5 7.5 4 5.5 1.5 1.5 20 1.5 20 9 1.5 20 1.5
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Maximum operating frequency AC AC-3 Rating, motor load switch 220 V 230 V 230 V Star-delta 400 V 415 V 400 V Star-delta 500 V 500 V 500 V Star-delta 690 V 690 V 230 V Star-delta 690 V 200 V Star-delta 690 V 500 V Star-delta 690 V 690 V Star-delta 690 V 690 V Star-delta 690 V 690 V star-delta	Operations/h Operations/h P P P P P P P P P P P P Ie	kW kW kW kW kW kW kW kW A A A A A A A A	3 5.5 5.5 7.5 5.5 7.5
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Vottage per contact pair in series V 32 Control circuit reliability at 24 V DC, 10 mA Fault probability HF 40 ⁵ <<1 failure in 100,000 switching operations	DC-13, Control switches L/R = 50 ms			
Control circuit reliability at 24 V DC, 10 mA Fault probability MP c10 ⁵ < 1 failure in 100,000 switching operations	Rated operational current	l _e	А	10
Terminal capacities I x (1 - 2.5) x (1 - 2.5) Flexible with ferrules to DIN 46228 m ⁿ² 1 x (1 - 2.5) x (1 - 2.5) Flexible with ferrules to DIN 46228 m ⁿ² 1 x (0.75 - 2.5) x (0.75 - 2.5) Terminal screw Mais Mais Tightening torque for terminal screw Mais Mais Technical safety parameters: Main graph of the screw Main graph of the screw Notes Main graph of the screw Main graph of the screw Contacts Vac Main conducting path Rated operational voltage Vac A Main conducting path A 16 Auxiliary contacts Main conducting path Main Gale General Use Main Conducting path Main Gale Pliet Duty Main conducting path Main Gale Switching capacity Main Gale Main Gale	Voltage per contact pair in series		V	32
Solid or stranded Imm2 1x (1 - 2,5) 2x (1 - 2,5) Fielsble with ferrules to DIN 46228 Imm2 1x (0.75 - 2.5) 2x (0.75 - 2.5) Terninal screw Mm2 M3.5 Tightening torque for terminal screw Mm 1 Tightening torque for terminal screw Mm 1 Technical safety parameters: Mm 1 Rating data for approved types Blod, values as per EN ISD 13849-1, table C1 Contacts Main conducting paths Blod Rated operational voltage Ue Main conducting paths General use VAC 600 Auxiliary contacts A 16 General Use Iu A 600 Pilot Duty Iu A 600 Switching capacity Iu A 600			H _F	< 10 ⁻⁵ ,< 1 failure in 100,000 switching operations
Flexible with ferrules to DIN 46228 mm ² x (0.75 - 2.5) Terminal screw Mm ² x (0.75 - 2.5) Tightening torque for terminal screw Mm M3.5 Tightening torque for terminal screw Mm 1 Bole values as per EN ISO 13849-1, table C1 Rated operational voltage Main conducting paths General use Main conducting paths Main conducting paths General use Main conducting paths Main conducting paths General Use Main conducting paths Main conducting paths Filot Duty Main Conducting paths Main Conducting paths General Use Main Conducting paths Main Conducting paths Filot Duty Main Conducting paths Main Conducting paths General Use Main Conducting paths Main Conducting paths General Use Main Conducting paths Main Conducting paths Main conducting paths Main Conducting paths Main Conducting paths General Use Main Conducting paths Main Conducting paths General Use Main Conducting paths Main Conducting paths General Use Main Conducting paths Main Conducting paths Main Conducting paths Main Conducting paths Main Conducting paths				
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Tightening torque for terminal screw Nm I Technical safety parameters: Blod values as per EN ISO 13849-1, table C1 Notes Blod values as per EN ISO 13849-1, table C1 Rated operational voltage Ue VAC Rated operational voltage Ue VAC Rated uninterrupted current max. O O Main conducting paths A I General use A I Auxiliary contacts I O Pilot Duty Iu A Io Switching capacity Iu A A	Flexible with ferrules to DIN 46228		mm ²	1 × (0.75 - 2.5)
Technical safety parameters: Biola values as per EN ISO 13849-1, table C1 Rating data for approved types Biola values as per EN ISO 13849-1, table C1 Contacts Image: Contact Sector	Terminal screw			M3.5
Technical safety parameters: Biola values as per EN ISO 13849-1, table C1 Rating data for approved types Biola values as per EN ISO 13849-1, table C1 Contacts Image: Contact Sector	Tightening torque for terminal screw		Nm	1
Notes Bl0_d values as per EN ISD 13849-1, table C1 Rating data for approved types Bl0_d values as per EN ISD 13849-1, table C1 Contacts Image: Contact S and				
Contacts Image: Contacts Rated operational voltage Ue VAC Rated uninterrupted current max. Image: Contacts Main conducting paths Image: Contacts General use Image: Contacts General Use Image: Contacts Pilot Duty Image: Contacts Switching capacity Image: Contacts	Notes			B10 _d values as per EN ISO 13849-1, table C1
Rated uninterrupted current max. A Main conducting paths A General use A Auxiliary contacts A General Use I Pilot Duty A Switching capacity I				
Rated uninterrupted current max. Main conducting paths Main conducting paths Main conducting paths General use Main conducting paths Auxiliary contacts Main conducting paths General Use Main conducting paths Pilot Duty Main conducting paths Switching capacity Main conducting paths	Rated operational voltage	U _e	V AC	600
Main conducting paths Image: Constraint of the sector of				
General use A 16 Auxiliary contacts Image: Contact Sector				
Auxiliary contacts Image: Contact set of the se			А	16
General Use IU A 10 Pilot Duty A A A Switching capacity I I I				
Pilot Duty A 600 Switching capacity A 600		h	А	10
Switching capacity P 300		.0		
Maximum motor rating				
Single-phase Singl	Single-phase			

120 V AC	HP	0.5
200 V AC	HP	1
240 V AC	HP	1.5
Three-phase		
200 V AC	HP	3
240 V AC	HP	3
480 V AC	HP	7.5
600 V AC	HP	7.5
Short Circuit Current Rating	SCCR	
Basic Rating	kA	5
max. Fuse	А	50
High fault rating	kA	10
max. Fuse	А	20, Class J
Terminal capacity		
Solid or flexible conductor with ferrule	AWG	18 - 14
Terminal screw		M3.5
Tightening torque	lb-in	8.8

Design verification as per IEC/EN 61439

Technical data for design verification			
Rated operational current for specified heat dissipation	I _n	А	20
Heat dissipation per pole, current-dependent	P _{vid}	W	0.6
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	50
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 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) / Control switch (EC002611)

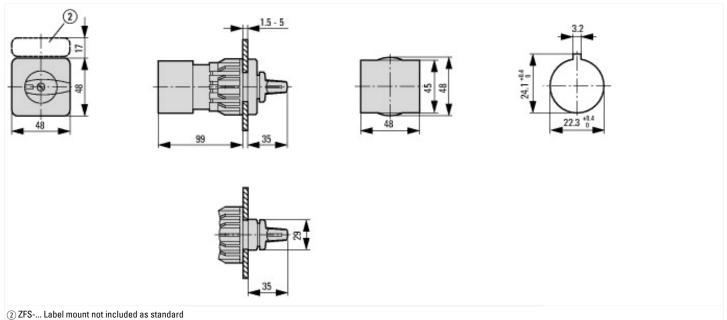
Electric engineering, automation, process control engineering / Low-voltage switch technology / Off-load switch, circuit breaker, control switch / Control switch (ecl@ss10.0.1-27-37-14-14 [ACN998011])

Type of switch			Level switch
Number of poles			1
Max. rated operation voltage Ue AC	V	/	690
Rated permanent current lu	Д	4	20
Number of switch positions		1	9
With 0 (off) position			No
With retraction in 0-position			No
Device construction			Built-in device
Width in number of modular spacings		1	0
Suitable for ground mounting			No
Suitable for front mounting 4-hole			Yes
Suitable for distribution board installation			No
Suitable for intermediate mounting			No
Complete device in housing			No
Type of control element			Toggle
Front shield size			48x48 mm
Degree of protection (IP), front side			IP65
Degree of protection (NEMA), front side			12

Approvals

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
Suitable for	Branch circuits, suitable as motor disconnect
Degree of Protection	IEC: IP65; UL/CSA Type 1, 12

Dimensions



06/18/2021