DATASHEET - T0-3-8048/E



Ammeter selector switches, Contacts: 6, 20 A, 3 converters, front plate: L3-0-L1-L2, 90 $^\circ$, maintained, flush mounting



EL-Nummer (Norway)

Part no. Catalog No.

0001456306

034116

T0-3-8048/E

Similar to illustration

Delivery program

Delivery program			
Product range			Control switches
Part group reference			ТО
Basic function			Ammeter selector switches
			with black thumb grip and front plate
Contacts			6
Degree of Protection			Front IP65
Design			flush mounting
Contact sequence			
witching function			3 converters
Switching angle		0	90
Switching performance			maintained With 0 (Off) position
Design number			8048
Front plate no.			$ \begin{array}{c} 0 \\ $
front plate			L3-0-L1-L2
Motor rating AC-23A, 50 - 60 Hz			
400 V	Р	kW	5.5
Rated uninterrupted current	l _u	A	20
Note on rated uninterrupted current !u			Rated uninterrupted current ${\rm I}_{\rm u}$ is specified for max. cross-section.

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		U	III/3
Rated impulse withstand voltage	U _{imp}	V AC	6000
Mechanical shock resistance	Cimp		
		g	15 As required
Mounting position Contacts			Astequireu
Electrical characteristics			
Rated operational voltage	Ue	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	1.0
Short-circuit rating		A aC/al	20
Fuse		A gG/gL	
Rated short-time withstand current (1 s current)	l _{cw}	A _{rms}	320 Current for a time of 1 accord
Note on rated short-time withstand current lcw			Current for a time of 1 second
Rated conditional short-circuit current	Iq	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	
230 V		A	100
400/415 V		A	110
500 V		A	80
690 V		A	60
Safe isolation to EN 61140			
between the contacts		V AC	440
Current heat loss per contact at I _e		W	0.6
Current heat loss per auxiliary circuit at Ie (AC-15/230 V)		CO	0.6
Lifespan, mechanical	Operations	x 10 ⁶	> 0.4
Maximum operating frequency	Operations/h	X IU	1200
AC	operations,		
AC-3			
Rating, motor load switch	Р	kW	
220 V 230 V	P	kW	3
230 V Star-delta	P	kW	5.5
400 V 415 V	P	kW	5.5
400 V Star-delta	P	kW	7.5
500 V	Р	kW	5.5
500 V Star-delta	Р	kW	7.5
690 V	Р	kW	4
690 V Star-delta	Р	kW	5.5
Rated operational current motor load switch			
230 V	le	A	11.5
230 V star-delta	l _e	A	20
400V 415 V	l _e	A	11.5
400 V star-delta	l _e	A	20
500 V	le	A	9
500 V star-delta	l _e	A	15.6
690 V	l _e	A	4.9
690 V star-delta	l _e	A	8.5

AC 214			
AC-21A			
Rated operational current switch			
440 V	l _e	A	20
AC-23A			
Motor rating AC-23A, 50 - 60 Hz	Р	kW	
230 V	Р	kW	3
400 V 415 V	Р	kW	5.5
500 V	Р	kW	7.5
690 V	Р	kW	5.5
Rated operational current motor load switch			
230 V	l _e	A	13.3
400 V 415 V	l _e	A	13.3
500 V	l _e	А	13.3
690 V	۱ _e	А	7.6
DC			
DC-1, Load-break switches L/R = 1 ms			
Rated operational current	۱ _e	А	10
Voltage per contact pair in series		V	60
DC-21A	۱ _e	A	
Rated operational current	l _e	A	1
Contacts		Quantity	1
DC-23A, motor load switch L/R = 15 ms		,	
24 V			
Rated operational current	I _e	A	10
Contacts	6	Quantity	
48 V		additity	
Rated operational current	le	A	10
Contacts	.6	Quantity	
60 V		Quantity	2
Rated operational current	l _e	A	10
Contacts	'e	Quantity	
120 V		Quantity	
Rated operational current		A	5
	l _e		
Contacts		Quantity	3
240 V			
Rated operational current	l _e	A	5
Contacts		Quantity	5
DC-13, Control switches L/R = 50 ms			
Rated operational current	l _e	A	10
Voltage per contact pair in series		V	32
Control circuit reliability at 24 V DC, 10 mA	Fault probability	HF	< 10 ⁻⁵ , $<$ 1 fault in 100000 operations
Terminal capacities	,		
Solid or stranded		mm ²	1 x (1 - 2,5)
			2 x (1 - 2,5)
Flexible with ferrules to DIN 46228		mm ²	1 x (0.75 - 2.5) 2 x (0.75 - 2.5)
Terminal screw			M3.5
Tightening torque for terminal screw		Nm	1
Technical safety parameters:			
Notes			$B10_d$ values as per EN ISO 13849-1, table C1
Rating data for approved types			
Contacts			
Rated operational voltage	U _e	V AC	600
Rated uninterrupted current max.			
Main conducting paths			

General use		А	16
Auxiliary contacts			
General Use	lu	A	10
	U	~	
Pilot Duty			A 600 P 600
Switching capacity			
Maximum motor rating			
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

Rated operational current for specified heat dissipationInA20Heat dissipation per pole, current-dependentPvidWa0.6Equipment heat dissipation, current-dependentPvidWa0.6Static heat dissipation, non-current-dependentPvsWa0.6Heat dissipation capacityPdissWa0.6Operating ambient temperature min.PdissWa0.6Operating ambient temperature max.InInIn				
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Equipment heat dissipation, current-dependent Price Weat Price Weat Static heat dissipation, non-current-dependent Price Weat 0 0 Operating ambient temperature min. Price VC 25 0 Operating ambient temperature max. ************************************	Rated operational current for specified heat dissipation	I _n	А	20
Batic heat dissipation, non-current-dependent Pvs Weil Person <	Heat dissipation per pole, current-dependent	P _{vid}	W	0.6
Head dissipation capacity Properties Properis	Equipment heat dissipation, current-dependent	P _{vid}	W	0
Operating ambient temperature min. C 25 Operating ambient temperature max. °C 5 EUCKN 61439 design verification °C 5 102.2 Strength of materials and parts Mets the product standard's requirements. 6 102.2 Strength of materials and parts Mets the product standard's requirements. 6 102.2.3 Verification of thermal stability of enclosures Mets the product standard's requirements. 6 102.3.2 Verification of resistance of insulating materials to abnormal heat fire due to internal electric effects Mets the product standard's requirements. 6 10.2.3.1 Verification of resistance of insulating materials to abnormal heat fire due to internal electric effects Mets the product standard's requirements. 6 10.2.3.2 Verification of resistance of insulating materials to abnormal heat fire due to internal electric effects Does not apply, since the entire switchgear needs to be evaluated. 0.00 10.2.5 Lifting Does not apply, since the entire switchgear needs to be evaluated. 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	Static heat dissipation, non-current-dependent	P _{vs}	W	0
Operating ambient temperature max.C5ID2 Strength of materials and partsID2 Strength of materials and partsMeets the product standard's requirements.102.2 Corosion resistanceMeets the product standard's requirements.Meets the product standard's requirements.102.3.1 Verification of resistance of insulating materials to normal heatMeets the product standard's requirements.102.3.2 Verification of resistance of insulating materials to abnormal heatMeets the product standard's requirements.102.3.3 Verification of resistance of insulating materials to abnormal heatMeets the product standard's requirements.102.4 Resistance to ultra-violet (UV) radiationUV resistance only in connection with protective shield.102.5 LiftingDoes not apply, since the entire switchgear needs to be evaluated.10.3 Legne of protection of ASSEMBLIESDoes not apply, since the entire switchgear needs to be evaluated.10.4 Clearances and creepage distancesMeets the product standard's requirements.10.5 Protection against electric shockDoes not apply, since the entire switchgear needs to be evaluated.10.5 Intermal electrical circuits and componentsDoes not apply, since the entire switchgear needs to be evaluated.10.8 Connections for external conductorsDoes not apply, since the entire switchgear needs to be evaluated.10.9 Insulation propertiesIs the panel builder's responsibility.10.8 Connections for external conductorsIs the panel builder's responsibility.10.9 Insulation propertiesIs the panel builder's responsibility.10.9 Insulation propertiesIs the panel builder's responsibil	Heat dissipation capacity	P _{diss}	W	0
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10.9.3 Impulse withstand voltage	10.9 Insulation properties			
	10.9.2 Power-frequency electric strength			Is the panel builder's responsibility.
10.9.4 Testing of enclosures made of insulating material 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) / Amp meter switch (EC000912)

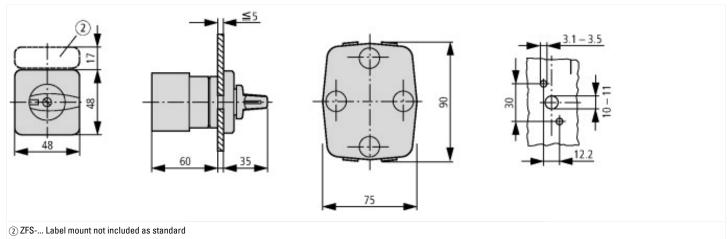
Electric engineering, automation, process control engineering / Low-voltage switch technology / Off-load switch, circuit breaker, control switch / Ammeter switch (ecl@ss10.0.1-27-37-14-12 [AKF069013])

With 0 (off) position	Yes
Device construction	Front installation
Modular version	No
With control unit	Yes
Degree of protection (IP)	IP65
Degree of protection (NEMA)	12

Approvals

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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



Assets (links)

Declaration of CE Conformity 00003075 Instruction Leaflets IL03801020Z2018_05