### **DATASHEET - T0-2-15404/E**



ON-OFF switches, Contacts: 4, 20 A, front plate: 0-1, 45  $^{\circ}$  , maintained, flush mounting



Powering Business Worldwide



Part no. Catalog No. T0-2-15404/E 081568

EL-Nummer (Norway) 0001456256

Similar to illustration

Delivery program			
Product range			Control switches
Part group reference			то
Basic function			ON-OFF switches
			with black thumb grip and front plate
Contacts			4
Degree of Protection			Front IP65
Design			flush mounting
Contact sequence			0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Switching angle		0	45
Switching performance			maintained With 0 (Off) position
Design number			15404
Front plate no.			FS 415
front plate			0-1
Motor rating AC-23A, 50 - 60 Hz			
400 V	Р	kW	5.5
Rated uninterrupted current	I <sub>u</sub>	A	20
Note on rated uninterrupted current !u			Rated uninterrupted current $I_u$ is specified for max. cross-section.
Number of contact units		contact unit(s)	

## **Technical data**

General

delleral		
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		111/3

Meaning position         No. 100 month position position (pass of the position position) (pass of the posit	ulse withstand voltage	U <sub>imp</sub>	V AC	6000
Non-mitting position         Formation of contracted preferred in the contraction of contraction and voltage         Use         V AC         Position of contraction and voltage         Use         V AC         Position of contraction and voltage         Use         V AC         Position contraction of contracting contract		·	g	15
Detection of the restriction に	position			As required
Rated operational voltage         U <sub>e</sub> V AC         680           Rated numberinghed current l <sub>w</sub> l <sub>w</sub> A         20           Note on rated uninterringhed current l <sub>w</sub> AB 25 % 0F         x l <sub>w</sub> 2           AB 25 % 0F         x l <sub>w</sub> 1         3.2           AB 69 % 0F         x l <sub>w</sub> 1         3.2           Sheet-circuit rating         x l <sub>w</sub> 3         220           Sheet-disposed district current         l <sub>w</sub> A <sub>si</sub> 220           Note on rated short-time withstand current thew         l <sub>w</sub> A <sub>si</sub> 220           Note on rated short-time withstand current thew         l <sub>w</sub> A <sub>si</sub> 220           Note on rated short-time withstand current thew         l <sub>w</sub> A <sub>si</sub> 220           Note on rated short-time withstand current thew         l <sub>w</sub> A <sub>si</sub> 220           Note on rated short-time withstand current thew         l <sub>w</sub> A <sub>si</sub> 12           Rated to rate a since of time with time current thew         l <sub>w</sub> A <sub>si</sub> 12           Step time contact time contact time current time current time time current time current time				
Note on rated uninterrupted current	haracteristics			
Note on rated uninterrupted current In	perational voltage	U <sub>e</sub>	V AC	690
Lead rating with intermittent operation, class 12         x k c         2           AB 80 % DF         x k c         1.6           AB 80 % DF         x k c         1.2           Floor         x k c         1.2           Nate of a body of the withstand current (1 s current)         x k c         20           Nate de abort-time withstand current (1 s current)         k c         x may be compared abort-circuit current         y c         x may be compared abort-circuit current         x k c         20           Note or arted abort-circuit current         k c         x k         3 <td>ninterrupted current</td> <td>I<sub>u</sub></td> <td>Α</td> <td>20</td>	ninterrupted current	I <sub>u</sub>	Α	20
Load rating with intermittent operation, class 12         x k b         2           AB 80 % DF         x k b         1.8           AB 80 % DF         x k b         1.8           AB 80 % DF         x k b         1.8           Short-circuit rating         x k b         1.8           Flase         A 90 %         20           Note on retailed short-time withstand current (1 s current)         k m         20           Note on retailed short-circuit current         k k c         3           Note or retailed short-circuit current         k k c         3           Note or retailed short-circuit current         k k c         3           Note or retailed short-circuit current         k k c         3           Note or retailed short-circuit current         k k c         3           Note or stated short-circuit current         k k c         3           Note or stated short-circuit current         k k c         3           Note or stated short-circuit current         k k c         4           220 V         k k c         4         10           250 V         k k c         4         10           260 V         k k c         4         4           20 V current heat current set in k k c- 15/228 V)	n rated uninterrupted current !u			Rated uninterrupted current I <sub>u</sub> is specified for max. cross-section.
AB 25 % DF	with intermittent operation, class 12			
AB 80 % DF			x l <sub>e</sub>	2
Note   Part	6 DF			1.6
Note or rated short-time withstand current (1 s current)				
Rated short-time withstand current   s current   low   Rated short-time withstand current   low   Rated short-time withstand current   low   Rated conditional short-circuit current   low   Rated making capacity as per IEC 60947-3   Rated breaking capacity as per IEC 60947-3   A   130   Rated breaking capacity as per IEC 60947-3   A   100   Rated breaking capacity as per IEC 60947-3   A   100   Rated breaking capacity as per IEC 60947-3   A   100   Rated breaking capacity as per IEC 60947-3   A   100   Rated breaking capacity as per IEC 60947-3   A   100   Rated breaking capacity as per IEC 60947-3   A   100   Rated breaking capacity as per IEC 60947-3   A   100   Rated breaking capacity as per IEC 60947-3   A   80   Rated breaking capacity as per IEC 60947-3   A   80   Rated breaking capacity as per IEC 60947-3   A   80   Rated breaking capacity as per IEC 60947-3   A   80   Rated breaking capacity as per IEC 60947-3   A   80   Rated breaking capacity as per IEC 60947-3   A   80   Rated breaking capacity as per IEC 60947-3   A   80   Rated breaking capacity as per IEC 60947-3   A   80   Rated breaking capacity as per IEC 60947-3   A   80   Rated breaking capacity as per IEC 60947-3   A   80   Rated breaking capacity as per IEC 60947-3   A   80   Rated breaking capacity as per IEC 60947-3   A   80   Rated breaking capacity as per IEC 60947-3   A   80   Rated breaking capacity as per IEC 60947-3   A   80   Rated breaking capacity as per IEC 60947-3   A   80   Rated breaking capacity as per IEC 60947-3   A   80   Rated breaking capacity as per IEC 60947-3   A   80   Rated breaking capacity as per IEC 60947-3   A   80   Rated breaking capacity as per IEC 60947-3   A   80   Rated brea			e	
Rated short-time withstand current (1 s current)         Icw         Amas         200           Note on rated short-time withstand current (1 w)         Iq         KA         6           Rated conditional short-circuit current         Iq         KA         6           Switching capacity         8         130           cos g rated making capacity as per IEC 60947-3         A         100           400415 V         A         100           400415 V         A         80           500 V         A         80           500 V         A         80           501 V         A         80           Current heat Inseper contact at Iq         V         Q           Current heat loss per audilisyr circuit at Iq (AC-15/230 V)         V         Q           Current heat loss per audilisyr circuit at Iq (AC-15/230 V)         V         Q           Lifespan, mechanical         Operations/b         200           AC-3         Rating, methanical subset         P         kW           AC-3         Rating, methanical subset         P         kW         5           220 V 230 V         P         kW         5           230 V Star-delta         P         kW         5 <t< td=""><td>it roung</td><td></td><td>Λ αG/αI</td><td>20</td></t<>	it roung		Λ αG/αI	20
Note on rated short-time withstand current (cw         Image: Note on rated short-time withstand current (cw)         Current for a time of 1 second           Savitating capacity         Savitating capacity as per IEC 80947-3         A         130           220 V         A         100           400/415 V         A         110           500 V         A         80           680 V         A         80           Safe isolation to EN 61140         VAC         440           between the contacts         VAC         440           Current heat loss per curricat at I <sub>q</sub> W         0.5           Current heat loss per auxiliary circuit at I <sub>q</sub> (AC-15/230 V)         C0         0.6           Lifespan, mechanical         Operations/         × 10 <sup>6</sup> > 0.4           Maximum operating frequency         Operations/         × 10 <sup>6</sup> > 0.4           AC-3         Rating, motor load switch         P         kW         3           220 V 220 V         P         kW         5           400 V 15 V         P         kW         5           400 V 15 V         P         kW         5           500 V Star-delta         P         kW         5           669 V         P	t-time withstand current (1 s current)	ı		
Name		'CW	rms	
Switching capacity			1. 4	
ccs g rated making capacity as per IEC 60947-3         A         100           230 V         A         100           400/415 V         A         100           500 V         A         80           690 V         A         60           Safe isolation to EN 61140         V         440           between the contacts         V         440           Current heat loss per auxiliary circuit at I <sub>0</sub> (AC-15/230 V)         C         0           Lifespan, mechanical         Operations Name Change of Properties of Properti		Iq	KA	ь
Rated breaking capacity cos © to IEC 60947-3         A         Image: Composition of the Control of South			Δ	130
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   VAC   440     Current heat loss per contact at l <sub>0</sub>   V   Current heat loss per contact at l <sub>0</sub>   V   Current heat loss per contact at l <sub>0</sub>   V   Current heat loss per auxiliary circuit at l <sub>0</sub> (AC-15/230 V)   V   Current heat loss per auxiliary circuit at l <sub>0</sub> (AC-15/230 V)   V   Current heat loss per auxiliary circuit at l <sub>0</sub> (AC-15/230 V)   V   Current heat loss per auxiliary circuit at l <sub>0</sub> (AC-15/230 V)   V   Current heat loss per auxiliary circuit at l <sub>0</sub> (AC-15/230 V)   V   Current heat loss per auxiliary circuit at l <sub>0</sub> (AC-15/230 V)   V   Current heat loss per auxiliary circuit at l <sub>0</sub> (AC-15/230 V)   V   Current heat loss per auxiliary circuit at l <sub>0</sub> (AC-15/230 V)   V   Current heat loss per auxiliary circuit at l <sub>0</sub> (AC-15/230 V)   V   Current heat loss per auxiliary circuit at l <sub>0</sub> (AC-15/230 V)   V   Current heat loss per auxiliary circuit at l <sub>0</sub> (AC-15/230 V)   V   Current heat loss per auxiliary circuit at l <sub>0</sub> (AC-15/230 V)   V   Current heat loss per auxiliary circuit at l <sub>0</sub> (AC-15/230 V)   V   Current heat loss per auxiliary circuit at l <sub>0</sub> (AC-15/230 V)   V   Current heat loss per auxiliary circuit at l <sub>0</sub> (AC-15/230 V)   V   Current heat loss per auxiliary circuit at l <sub>0</sub> (AC-15/230 V)   V   Current heat loss per auxiliary circuit at l <sub>0</sub> (AC-15/230 V)   V   Current heat loss per auxiliary circuit at l <sub>0</sub> (AC-15/230 V)   V   Current heat loss per auxiliary circuit at l <sub>0</sub> (AC-15/230 V)   V   Current heat loss per auxiliary circuit at l <sub>0</sub> (AC-15/230 V)   V   Current heat loss per auxiliary circuit at l <sub>0</sub> (AC-15/230 V)   V   Current heat loss per auxiliary circuit at l <sub>0</sub> (AC-15/230 V)   V   Current heat loss per auxiliary circuit at l <sub>0</sub> (AC-15/230 V)   V   Current heat loss per auxiliary circuit at l <sub>0</sub> (AC-15/230 V)   V   Current heat loss per auxiliary circuit at l <sub>0</sub> (AC-15/230 V)   V   Current heat loss per auxiliary circuit at l <sub>0</sub> (AC-15/230 V)				1
A00/415 V	king dapadity dod it to 120 ddd i'r d			100
Solid   Soli	V			
Bego V   Safe isolation to EN 61140   Safe	•			
Safe isolation to EN 61140       VAC       440         between the contacts       VAC       440         Current heat loss per contact at I <sub>0</sub> W       0.6         Current heat loss per auxiliary circuit at I <sub>0</sub> (AC-15/230 V)       CO       0.6         Lifespan, mechanical       Operations/h       x 10 <sup>6</sup> > 0.4         Maximum operating frequency       Operations/h       1200         AC-3       1200       1200         Rating, motor load switch       P       kW       3         220 V 230 V       P       kW       5.5         400 V 415 V       P       kW       5.5         400 V 5tar-delta       P       kW       7.5         500 V       P       kW       7.5         690 V       P       kW       4         690 V Star-delta       P       kW       4         690 V Star-delta       P       kW       5.5         Rated operational current motor load switch       I <sub>0</sub> A       11.5         230 V star-delta       I <sub>0</sub> A       11.5         400 V 415 V       I <sub>0</sub> A       11.5				
between the contacts         V AC         440           Current heat loss per contact at I <sub>e</sub> W         0.6           Current heat loss per auxiliary circuit at I <sub>e</sub> (AC-15/230 V)         CO         0.6           Lifespan, mechanical         Operations / x 10 <sup>6</sup> > 0.4           Maximum operating frequency         Operations/h         1200           AC-3         1200           Rating, motor load switch         P         kW           220 V 230 V         P         kW         3           400 V 415 V         P         kW         5.5           400 V 5tar-delta         P         kW         7.5           500 V         P         kW         7.5           500 V Star-delta         P         kW         7.5           690 V Star-delta         P         kW         4           690 V Star-delta         P         kW         5.5           Rated operational current motor load switch         P         kW         5.5           Rated operational current motor load switch         I <sub>0</sub> A         11.5           230 V star-delta         I <sub>0</sub> A         11.5           400 V 415 V         I <sub>0</sub> A         11.5	ion to FN 61140		^	
Current heat loss per contact at I <sub>e</sub> W         0.6           Current heat loss per auxiliary circuit at I <sub>e</sub> (AC-15/230 V)         CO         0.6           Lifespan, mechanical         Operations/h         x 10 <sup>8</sup> > 0.4           Maximum operating frequency         Operations/h         1200           AC-3         P         kW           AC-3         P         kW           220 V 230 V         P         kW         3           220 V 230 V         P         kW         5.5           400 V 5tar-delta         P         kW         5.5           400 V 415 V         P         kW         5.5           500 V Star-delta         P         kW         5.5           500 V Star-delta         P         kW         5.5           690 V Star-delta         P         kW         4           690 V Star-delta         P         kW         5.5           Rated operational current motor load switch         I <sub>e</sub> A         11.5           230 V star-delta         I <sub>e</sub> A         11.5           400 V 415 V         I <sub>e</sub> A         11.5			VΔC	440
Current heat loss per auxiliary circuit at I <sub>B</sub> (AC-15/230 V)         CO         0.6           Lifespan, mechanical         Operations x 10 <sup>6</sup> > 0.4           Maximum operating frequency         Operations/h         1200           AC-3         Fating, motor load switch         P         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 Star-delta         P         kW         7.5           690 V Star-delta         P         kW         4           690 V Star-delta         P         kW         5.5           Rated operational current motor load switch         P         kW         5.5           Rated operational current motor load switch         P         kW         5.5           Rated operational current motor load switch         P         kW         2.0           230 V star-delta         I <sub>e</sub> A         2.0           400 V 415 V         I <sub>e</sub> A         2.0				
Lifespan, mechanical       Operations / A 106       > 0.4         Maximum operating frequency       Operations/h       1200         AC       Table 1       1200         AC-3       Table 2       1200         Rating, motor load switch       P       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       P       kW       7.5         690 V       P       kW       7.5         690 V Star-delta       P       kW       4         690 V Star-delta       P       kW       5.5         Rated operational current motor load switch       F       kW       5.5         Rated operational current motor load switch       F       kW       4         230 V       I       A       11.5         400 V 415 V       I       A       20         400 V 415 V       I       A       11.5				
Naximum operating frequency         AC-3         Rating, motor load switch       P       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       P       kW       5.5         690 V Star-delta       P       kW       7.5         690 V Star-delta       P       kW       5.5         Rated operational current motor load switch       P       kW       5.5         230 V       Ie       A       11.5         230 V star-delta       Ie       A       20         400V 415 V       Ie       A       11.5		0		
AC-3  Rating, motor load switch  220 V 230 V  P kW  230 V Star-delta  P kW  5.5  400 V 415 V  P kW  7.5  500 V  P kW  5.5  500 V Star-delta  P kW  7.5  690 V  P kW  690 V Star-delta			x 10°	
AC-3       Rating, motor load switch       P       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       P       kW       5.5         500 V Star-delta       P       kW       7.5         690 V       P       kW       4         690 V Star-delta       P       kW       5.5         Rated operational current motor load switch       Ie       A       11.5         230 V star-delta       Ie       A       20         400V 415 V       Ie       A       11.5	operating frequency	Operations/h		1200
Rating, motor load switch       P       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       P       kW       7.5         690 V       Star-delta       P       kW       4         690 V Star-delta       P       kW       5.5         Rated operational current motor load switch       P       kW       5.5         Rated operational current motor load switch       Ie       A       11.5         230 V       Ie       A       20         400V 415 V       Ie       A       11.5				
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 P kW 5.5 500 V Star-delta P kW 7.5 690 V P kW 4 690 V Star-delta P kW 5.5 Rated operational current motor load switch 230 V le A 20 400 V 415 V le A 11.5		_		
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 P kW 7.5  690 V P kW 4  690 V Star-delta P kW 4  690 V Star-delta P kW 5.5  Rated operational current motor load switch  230 V le A 11.5  400 V 415 V le A 11.5				
400 V 415 V       P       kW       5.5         400 V Star-delta       P       kW       7.5         500 V Star-delta       P       kW       7.5         690 V       P       kW       4         690 V Star-delta       P       kW       5.5         Rated operational current motor load switch       Ie       A       11.5         230 V       A       11.5       20         400V 415 V       Ie       A       11.5				
400 V Star-delta P kW 7.5  500 V P kW 5.5  500 V Star-delta P kW 7.5  690 V P kW 4  690 V Star-delta P kW 5.5  Rated operational current motor load switch  230 V le A 11.5  230 V star-delta le A 20  400V 415 V le A 11.5				
500 V       P       kW       5.5         500 V Star-delta       P       kW       7.5         690 V       P       kW       4         690 V Star-delta       P       kW       5.5         Rated operational current motor load switch       Ie       A       11.5         230 V       Ie       A       20         400V 415 V       Ie       A       11.5				
500 V Star-delta       P       kW       7.5         690 V       P       kW       4         690 V Star-delta       P       kW       5.5         Rated operational current motor load switch       Ie       A       11.5         230 V star-delta       Ie       A       20         400V 415 V       Ie       A       11.5				
690 V 690 V Star-delta P kW 5.5  Rated operational current motor load switch  230 V le A 11.5  230 V star-delta le A 20  400V 415 V le A 11.5				
690 V Star-delta       P       kW       5.5         Rated operational current motor load switch       I <sub>e</sub> A       11.5         230 V star-delta       I <sub>e</sub> A       20         400V 415 V       I <sub>e</sub> A       11.5				
Rated operational current motor load switch         230 V       I <sub>e</sub> A       11.5         230 V star-delta       I <sub>e</sub> A       20         400V 415 V       I <sub>e</sub> A       11.5				
230 V		۲	kW	5.5
230 V star-delta				
400V 415 V				
	230 V star-delta	le	Α	20
	400V 415 V	le	Α	11.5
400 V star-delta I <sub>e</sub> A 20	400 V star-delta	l <sub>e</sub>	Α	20
500 V I <sub>e</sub> A 9	500 V	l <sub>e</sub>	Α	9
500 V star-delta I <sub>e</sub> A 15.6	500 V star-delta	le	Α	15.6
690 V I <sub>e</sub> A 4.9	690 V	I <sub>e</sub>	Α	4.9
690 V star-delta I <sub>e</sub> A 8.5	690 V star-delta	l <sub>e</sub>	Α	8.5
AC-21A				
Rated operational current switch				
440 V I <sub>e</sub> A 20		l <sub>e</sub>	Α	20
AC-23A		-		

Motor rating AC-23A, 50 - 60 Hz	Р	kW	
230 V	P	kW	3
400 V 415 V	P	kW	5.5
500 V	P	kW	7.5
690 V	Р	kW	5.5
Rated operational current motor load switch			
230 V	I <sub>e</sub>	Α	13.3
400 V 415 V			13.3
	l <sub>e</sub>	Α	
500 V	l <sub>e</sub>	Α	13.3
690 V	l <sub>e</sub>	Α	7.6
DC			
DC-1, Load-break switches L/R = 1 ms			
Rated operational current	le	Α	10
Voltage per contact pair in series		V	60
DC-21A	I <sub>e</sub>	Α	
			1
Rated operational current	l <sub>e</sub>	A	1
Contacts		Quantity	1
DC-23A, motor load switch L/R = 15 ms			
24 V			
Rated operational current	le	Α	10
Contacts		Quantity	1
48 V			
Rated operational current	I <sub>e</sub>	Α	10
Contacts	·e	Quantity	
		Qualitity	2
60 V			
Rated operational current	l <sub>e</sub>	Α	10
Contacts		Quantity	3
120 V			
Rated operational current	l <sub>e</sub>	Α	5
Contacts		Quantity	3
240 V			
Rated operational current	l <sub>e</sub>	Α	5
Contacts	· ·	Quantity	5.
DC-13, Control switches L/R = 50 ms		Quantity	
		^	10
Rated operational current	l <sub>e</sub>	Α	10
Voltage per contact pair in series		V	32
Control circuit reliability at 24 V DC, 10 mA	Fault probability	H <sub>F</sub>	$< 10^{-5}$ , $< 1$ fault in 100000 operations
Terminal capacities	pronaniiry		
Solid or stranded		mm <sup>2</sup>	1 x (1 - 2,5)
		mill	2 x (1 - 2,5)
Flexible with ferrules to DIN 46228		mm <sup>2</sup>	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 <sub>d</sub> values as per EN ISO 13849-1, table C1
Rating data for approved types			
Contacts			
Rated operational voltage	U <sub>e</sub>	V AC	600
Rated uninterrupted current max.			
Main conducting paths			
General use		Α	16
Auxiliary contacts			
General Use	lu	A	10
Pilot Duty	·		A 600
i not buty			Δ 000

		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	НР	3
240 V AC	НР	3
480 V AC	HP	7.5
600 V AC	НР	7.5
Short Circuit Current Rating	SCCR	
Basic Rating	kA	5
max. Fuse	Α	50
High fault rating	kA	10
max. Fuse	Α	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

2001gii 1011110441011 40 poi 120, 211 01 100			
Technical data for design verification			
Rated operational current for specified heat dissipation	In	Α	20
Heat dissipation per pole, current-dependent	P <sub>vid</sub>	W	0.6
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
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)

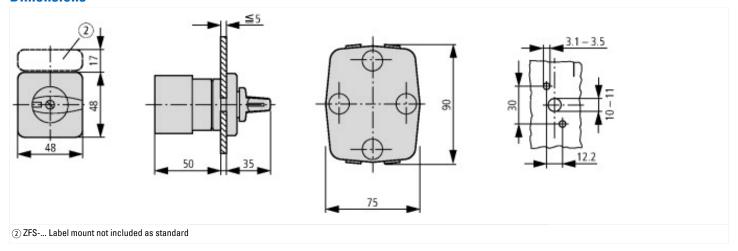
Electric engineering, automation, process control engineering / Low-voltage switch technology / Off-load switch, circuit breaker, control switch / Control switch (ecl@ss10.0.1-27-37-14-14 [ACN998011])

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Type of switch		On/Off switch
Number of poles		4
Max. rated operation voltage Ue AC	V	690
Rated permanent current lu	Α	20
Number of switch positions		2
With 0 (off) position		Yes
With retraction in 0-position		No
Device construction		Built-in device
Width in number of modular spacings		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
Specially designed for North America	Yes, with an alternative front plate and/or terminal markings to those of the IEC type in combination with "+NA" (105864)
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** 

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**Instruction Leaflets** 

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