DATASHEET - T0-2-1/IVS-RT

On-Off switch, T0, 20 A, service distribution board mounting, 2 contact unit(s), 3 pole, Emergency switching off function, with red thumb grip and yellow front plate



Part no.

T0-2-1/IVS-RT 084329

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Product bagish product winds Product winds Bindimetre Product findename Bindimetre Product Indename Bindimetre Foldured Stripe Bindimetre Foldured Stripe Bindimetre Foldured Stripe Bin	Part no.	T0-2-1/IVS-RT
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Podect Tradename To Podect Tradename To Podect Tradename To Podect Sub Tradename To Podect Sub Tradename To Podect Tradename To Podect Sub Tradename To Podect Tradename To Po	Product weight	0.12 kilogram
Product Type 0-0ff switch Product Sub Type None Catalog Notes Rated Short-time Withstand Current I(cw) for a time of 1 second Features Rated Short-time Withstand Current I(cw) for a time of 1 second Features Rated Short-time Withstand Current I(cw) for a time of 1 second Features Rated Short-time Withstand Current I(cw) for a time of 1 second Features Rated Numb grip and yellow from plate Features Rated humb grip and yellow from plate Inscription Degree of protection Number of polos 3 General information PB30 Utfespan, mechanical PB30 Utfespan, mechanical PB30 Number of contact units Service distribution board mounting Number of contact units PE 2 Operating frequency I 200 Operations Outrolog greef 1200 Operations Rated impulse withstand voltage (Uimp) Service distribution board mounting Safe stolation I 200 Operations	Certifications	VDE 0660 CSA IEC/EN 60947 UL File No.: E36332 IEC/EN 60204 UL CSA File No.: 012528 CSA-C22.2 No. 60947-4-1-14 IEC/EN 60947-3 CSA-C22.2 No. 94 UL Category Control No.: NLRV UL 60947-4-1 CE CSA
Product Sub Type None Product Sub Type Rated Short-time Withstand Current ((tex)) for a time of 1 second Features Features Features Rod thumb grip and yellow front plate Field with: Rod thumb grip and yellow front plate Field with: Rod thumb grip and yellow front plate Field with: Rod thumb grip and yellow front plate Field with: Rod thumb grip and yellow front plate Field with: Rod thumb grip and yellow front plate Inscription Rod Type Number of poles Rod Number of context (Rod Number of context, According to ECEN NOOBE-27, Half-sinusoidal shock 20 ms Safety parameter (EN ISO 13849-1) Safety parameter (Rod Number of context, According to ECEN NOOBE-27, Half-sinusoidal shock 20 ms Safety parameter (EN ISO 13849-1) Safety parameter (Rod Number of context, According to ECEN NOOBE-27, Half-sinusoidal shock 20 ms Safety parameter (Rod Number of context) Safety parameter (Product Tradename	ТО
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Fitted with: Red thumb grip and yellow front plate Functions Emergency switching of function Inscription 0-1 Number of poles 3 General information FP30 Degree of protection (front side) FP30 Lifespan, mechanical FP30 Mounting method Service distribution board mounting Mounting method Service distribution board mounting Operating frequency I Operating frequency III Pollution degree Source distribution board mounting Rated impulse withstand voltage (Uimp) 6000 V AC Safe isolation 6000 V AC Safe isolation 510 dowleas as per EN ISO 13849-1; table C.1 Shock resistance Situbiable as motor disconnect, (UL/CSA) Ground mounting Suitable for Situbiable as motor disconnect, (UL/CSA) Ground mounting Switching angle 0° Switching angle 0°	Features & Functions	
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Mounting position As required Number of contact units 2 Operating frequency 200 Operations/h Overvoltage category III Pollution degree 3 Rated impulse withstand voltage (Uimp) 6000 V AC Safe isolation 6000 V AC, Between the contacts, According to EN 61140 Shock resistance 10 dvalues as per EN ISO 13849-1, table C.1 Shock resistance 5 g, Mechanical, According to IEC/EN 60068-2-27, Half-sinusoidal shock 20 ms Suitable for Distribution board installation Branch circuits, suitable as motor disconnect, (UL/CSA) Ground mounting Switching angle 90 ° Climatic environmental conditions 6000 V	Lifespan, mechanical	400,000 Operations
Number of contact units Image: Contact units	Mounting method	Service distribution board mounting
Operating frequencyImage: Constraint of the second sec	Mounting position	As required
Overvoltage category III Overvoltage category III Pollution degree 3 Rated impulse withstand voltage (Uimp) 6000 V AC Safe isolation 440 V AC, Between the contacts, According to EN 61140 Safety parameter (EN ISD 13849-1) B10d values as per EN ISD 13849-1, table C.1 Shock resistance 15 g, Mechanical, According to IEC/EN 60068-2-27, Half-sinusoidal shock 20 ms Suitable for Distribution board installation Branch circuits, suitable as motor disconnect, (UL/CSA) Ground mounting Switching angle 90 °	Number of contact units	2
Pollution degree 3 Rated impulse withstand voltage (Uimp) 6000 V AC Safe isolation 440 V AC, Between the contacts, According to EN 61140 Safety parameter (EN ISO 13849-1) 1000 V AC Shock resistance 5100 V AC Suitable for 15 g, Mechanical, According to IEC/EN 60068-2-27, Half-sinusoidal shock 20 ms Switching angle Distribution board installation Branch circuits, suitable as motor disconnect, (UL/CSA) Cound mounting Climatic environmental conditions 6000 V AC	Operating frequency	1200 Operations/h
Rated impulse withstand voltage (Uimp)6000 V ACSafe isolation440 V AC, Between the contacts, According to EN 61140Safety parameter (EN ISO 13849-1)B10d values as per EN ISO 13849-1, table C.1Shock resistance5 g, Mechanical, According to IEC/EN 60068-2-27, Half-sinusoidal shock 20 msSuitable forDistribution board installation Branch circuits, suitable as motor disconnect, (UL/CSA) Ground mountingSwitching angle90 °Climatic environmental conditions6000 V AC	Overvoltage category	
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Safety parameter (EN ISO 13849-1) B10d values as per EN ISO 13849-1, table C.1 Shock resistance 15 g, Mechanical, According to IEC/EN 60068-2-27, Half-sinusoidal shock 20 ms Suitable for Distribution board installation Branch circuits, suitable as motor disconnect, (UL/CSA) Ground mounting Switching angle 90 ° Climatic environmental conditions 64000	Rated impulse withstand voltage (Uimp)	6000 V AC
Shock resistance If g, Mechanical, According to IEC/EN 60068-2-27, Half-sinusoidal shock 20 ms Suitable for Distribution board installation Branch circuits, suitable as motor disconnect, (UL/CSA) Ground mounting Switching angle Image: Climatic environmental conditions	Safe isolation	440 V AC, Between the contacts, According to EN 61140
Suitable for Distribution board installation Branch circuits, suitable as motor disconnect, (UL/CSA) Ground mounting Switching angle 90 ° Climatic environmental conditions IMA	Safety parameter (EN ISO 13849-1)	B10d values as per EN ISO 13849-1, table C.1
Switching angle 90 ° Climatic environmental conditions 6444	Shock resistance	15 g, Mechanical, According to IEC/EN 60068-2-27, Half-sinusoidal shock 20 ms
Climatic environmental conditions	Suitable for	Branch circuits, suitable as motor disconnect, (UL/CSA)
	Switching angle	90 °
Ambient operating temperature - min -25 °C	Climatic environmental conditions	
	Ambient operating temperature - min	-25 °C

Ambient operating temperature - max	50 °C
Ambient operating temperature (enclosed) - min	-25 °C
Ambient operating temperature (enclosed) - max	40 °C
Climatic proofing	Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78
Ferminal capacities	
Terminal capacity	1 x (1 - 2.5) mm ² , solid or stranded
	2 x (1 - 2.5) mm ² , solid or stranded 1 x (0.75 - 2.5) mm ² , flexible with ferrules to DIN 46228 2 x (0.75 - 2.5) mm ² , flexible with ferrules to DIN 46228 18 - 14 AWG, solid or flexible with ferrule
Screw size	M3.5, Terminal screw
Tightening torque	8.8 lb-in, Screw terminals
Instring ratio	1 Nm, Screw terminals
Peter developments at 220/220 V (and philate UFC 52047-2)	100 Å
Rated breaking capacity at 220/230 V (cos phi to IEC 60947-3)	100 A
Rated breaking capacity at 400/415 V (cos phi to IEC 60947-3)	110 A
Rated breaking capacity at 500 V (cos phi to IEC 60947-3)	80 A
Rated breaking capacity at 660/690 V (cos phi to IEC 60947-3)	60 A
Rated operational current (Ie) at AC-3, 220 V, 230 V, 240 V	11.5 A
Rated operational current (Ie) at AC-3, 380 V, 400 V, 415 V	11.5 A
Rated operational current (Ie) at AC-3, 500 V	9 A 4.9 A
Rated operational current (Ie) at AC-3, 660 V, 690 V	
Rated operational current (le) at AC-21, 440 V	20 A 13.3 A
Rated operational current (Ie) at AC-23A, 230 V	
Rated operational current (le) at AC-23A, 400 V, 415 V Rated operational current (le) at AC-23A, 500 V	13.3 A 13.3 A
Rated operational current (le) at AC-23A, 500 V	7.6 A
Rated operational current (le) at DC-1, load-break switches l/r = 1 ms	10 A
Rated operational current (le) at DC-13, control switches L/R = 50 ms	10 A
Rated operational current (le) at DC-13, contor switches (JH = 30 his	1A
Rated operational current (Ie) at DC-23A, 24 V	10 A
Rated operational current (Ie) at DC-23A, 48 V	10 A
Rated operational current (Ie) at DC-23A, 60 V	10 A
Rated operational current (le) at DC-23A, 120 V	5 A
Rated operational current (le) at DC-23A, 240 V	5 A
Rated operational current (le) star-delta at AC-3, 220/230 V	20 A
Rated operational current (le) star-delta at AC-3, 380/400 V	20 A
Rated operational current (le) star-delta at AC-3, 500 V	15.6 A
Rated operational current (le) star-delta at AC-3, 690 V	8.5 A
Rated operational power at AC-3, 380/400 V, 50 Hz	5.5 kW
Rated operational power at AC-3, 415 V, 50 Hz	5.5 kW
Rated operational power at AC-3, 500 V, 50 Hz	5.5 kW
Rated operational power at AC-3, 690 V, 50 Hz	4 kW
Rated operational power at AC-23A, 220/230 V, 50 Hz	3 kW
Rated operational power at AC-23A, 400 V, 50 Hz	5.5 kW
Rated operational power at AC-23A, 500 V, 50 Hz	7.5 kW
Rated operational power at AC-23A, 690 V, 50 Hz	5.5 kW
Rated operational power star-delta at 220/230 V, 50 Hz	5.5 kW
Rated operational power star-delta at 380/400 V, 50 Hz	7.5 kW
Rated operational power star-delta at 500 V, 50 Hz	7.5 kW
Rated operational power star-delta at 690 V, 50 Hz	5.5 kW
Rated operational voltage (Ue) at AC - max	690 V
Rated uninterrupted current (lu)	20 A
Uninterrupted current	Rated uninterrupted current lu is specified for max. cross-section.
Short-circuit rating	

Rated short-time withstand current (Icw)	0.32 kA 320 A, Contacts, 1 second
Short-circuit current rating (basic rating)	5 kA, SCCR (UL/CSA) 50A, max. Fuse, SCCR (UL/CSA)
Short-circuit current rating (high fault)	10 kA, SCCR (UL/CSA) 20 A, Class J, max. Fuse, SCCR (UL/CSA)
Short-circuit protection rating	20 A gG/gL, Fuse, Contacts
Switching capacity	
Load rating	1.3 x I# (with intermittent operation class 12, 60 % duty factor) 2 x I# (with intermittent operation class 12, 25 % duty factor) 1.6 x I# (with intermittent operation class 12, 40 % duty factor)
Number of contacts in series at DC-21A, 240 V	1
Number of contacts in series at DC-23A, 24 V	1
Number of contacts in series at DC-23A, 48 V	2
Number of contacts in series at DC-23A, 60 V	3
Number of contacts in series at DC-23A, 120 V	3
Number of contacts in series at DC-23A, 240 V	5
Switching capacity (main contacts, general use)	16 A, Rated uninterrupted current max. (UL/CSA)
Switching capacity (auxiliary contacts, general use)	10A, IU, (UL/CSA)
Switching capacity (auxiliary contacts, pilot duty)	P300 (UL/CSA) A600 (UL/CSA)
Rated making capacity up to 690 V (cos phi to IEC/EN 60947-3)	130 A
Voltage per contact pair in series	60 V
Motor rating	
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Assigned motor power at 115/120 V, 60 Hz, 1-phase	0.5 HP
Assigned motor power at 200/208 V, 60 Hz, 1-phase	1 HP
Assigned motor power at 200/208 V, 60 Hz, 3-phase	3 HP
Assigned motor power at 230/240 V, 60 Hz, 1-phase	1.5 HP
Assigned motor power at 230/240 V, 60 Hz, 3-phase	3 HP
Assigned motor power at 460/480 V, 60 Hz, 3-phase	7.5 HP
Assigned motor power at 575/600 V, 60 Hz, 3-phase	7.5 HP
Contacts	
Control circuit reliability	1 failure per 100,000 switching operations statistically determined, at 24 V DC, 10 mA)
Number of auxiliary contacts (change-over contacts)	0
Number of auxiliary contacts (normally closed contacts)	0
Number of auxiliary contacts (normally open contacts)	0
Actuator	
Actuator color	Red
Actuator function	Maintained
Actuator type	Short thumb-grip
Design verification	
Equipment heat dissipation, current-dependent Pvid	0 W
Heat dissipation capacity Pdiss	0 W
Heat dissipation per pole, current-dependent Pvid	0.6 W
Rated operational current for specified heat dissipation (In)	20 A
Static heat dissipation, non-current-dependent Pvs	0 W
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 Resist. of insul. mat. to abnormal heat/fire by internal elect. effects	Meets the product standard's requirements.
10.2.4 Resistance to ultra-violet (UV) radiation	Meets the product standard's requirements.
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.
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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.
10.9.2 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 9.0

Low-voltage industrial components (EG000017) / Switch disconnector (low voltage) (EC000216)					
Electric engineering, automation, process control engineering / Low-voltage switch technology / Off-load switch, circuit breaker, control switch / Switch disconnector (ecl@ss13-27-37-14-03 [AKF060018])					
Version as main switch		No			
Version as maintenance-/service switch		No			
Version as safety switch		No			
Version as emergency stop installation		Yes			
Version as reversing switch		No			
Number of switches		1			
Max. rated operation voltage Ue AC	V	690			
Rated operating voltage	V	690 - 690			
Rated permanent current lu	А	20			
Rated permanent current at AC-23, 400 V	А				
Rated permanent current at AC-21, 400 V	А	20			
Rated operation power at AC-3, 400 V	kW	5.5			
Rated short-time withstand current Icw	kA	0.32			
Rated operation power at AC-23, 400 V	kW	5.5			
Switching power at 400 V	kW	5.5			
Conditioned rated short-circuit current Iq	kA	6			
Number of poles		3			
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			
Motor drive optional		No			
Motor drive integrated		No			
Voltage release optional		No			
Device construction		Built-in device fixed built-in technique			
Suitable for floor mounting		Yes			
Suitable for front mounting 4-hole		No			
Suitable for front mounting centre		No			
Suitable for distribution board installation		Yes			
Suitable for intermediate mounting		No			
Colour control element		Red			
Type of control element		Short thumb-grip			
Interlockable		No			
Type of electrical connection of main circuit		Screw connection			
With pre-assembled cabling		No			
Degree of protection (IP), front side		IP30			
Degree of protection (NEMA)		Other			
Width	mm	54			

Height	mm	55
Depth	mm	92
Width in number of modular spacings		