Overload relay, ZB32, Ir= 32 - 38 A, 1 N/O, 1 N/C, Direct mounting, IP20



Part no. ZB32-38 112474

Reset pushbutton manual/auto Trip-free release Phase-failure sensitivity (according to IEC/EN 80947, VDE 0660 Part 102) Trip-free release Phase-failure sensitivity (according to IEC/EN 80947, VDE 0660 Part 102) Trip-free release Phase-failure sensitivity (according to IEC/EN 80947, VDE 0660 Part 102) Trip-free release Phase-failure sensitivity (according to IEC/EN 80947, VDE 0660 Part 102) Trip-free release Phase-failure sensitivity (according to IEC/EN 80947, VDE 0660 Part 102) Trip-free release Phase-failure sensitivity (according to IEC/EN 80947, VDE 0660 Part 102) Trip-free Phase-failure sensitivity (according to IEC/EN 80947, VDE 0660 Part 102) Trip-free Phase-failure sensitivity (according to IEC/EN 80947, VDE 0660 Part 102) Trip-free Phase-failure sensitivity (according to IEC/EN 80947, VDE 0660 Part 102) Trip-free release Phase-failure sensitivity (according to IEC/EN 80947, VDE 0660 Part 102) Trip-free Phase-failure sensitivity (according to IEC/EN 80947, VDE 0660 Part 102) Trip-free Phase-failure sensitivity (according to IEC/EN 80947, VDE 0660 Part 102) Trip-free Phase-failure sensitivity (according to IEC/EN 80947, VDE 0660 Part 102) Trip-free Phase-failure sensitivity (according to IEC/EN 80947, VDE 0660 Part 102) Trip-free Phase-failure sensitivity (according to IEC/EN 80947, VDE 0660 Part 102) Trip-free Phase-failure sensitivity (according to IEC/EN 80947, VDE 0660 Part 102) Trip-free Phase-failure sensitivity (according to IEC/EN 80947, VDE 0660 Part 102) Trip-free Phase-failure sensitivity (according to IEC/EN 80947, VDE 0660 Part 102) Trip-free Phase-failure sensitivity (according to IEC/EN 80947, VDE 0660 Part 102) Trip-free Phase-failure sensitivity (according to IEC/EN 80947, VDE 0660 Part 102) Trip-free Phase-failure sensitivity (according to IEC/EN 80947, VDE 0660 Part 102) Trip-free Phase-failure sensitivity (according to IEC/EN 80947, VDE 0660 Part 102) Trip-free Phase-failure sensitivity (according to IEC/EN 80947, VDE 0660 Part 102) Trip-free Phase-failure sensitivity (according to I	General specifications	
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Product width 45 millimetre Product weight 0.12 blagram Certifications UL UL 0.50047-41 UL 0.50047-41 U. File No. E2984 ECCA 60047-41-14 U. Case of Product Type Thermal overload relay Product Tradername 28 Product Type Thermal overload relay Product Type Thermal overload relay Product Sub Type None Catalog Notes Anniheat mit remperature: Operating range to HECFN 60047/ PTE 9-7U to 155°C Anniheat operating temperature is correcting to 1ECFN 60047/ PTE 9-7U to 155°C Anniheat operating temperature is correcting to 1ECFN 60047/ PTE 9-7U to 155°C Anniheat operating temperature is correcting to 1ECFN 80047, VIE 6000 PTE 1007 PTE 9-60-4000 PTE 1007 PTE 9-60-40000 PTE 1007 PTE 9-60-4000 PTE 1007 PTE 9-60-4000 PTE 1007 PTE 9-60-4000 PTE 1007 PTE 9-60-	Product Length/Depth	96 millimetre
Product weight Certifications UI. UI. 05697-4-1 VID 1898	Product height	98 millimetre
Lentications Light 14 (1984) 4-1 VIC 6000 SCA RIBS No. 2211-43 CSA, File No. 10 (2028) EICHT Mod 12-14 SCA CSA, File No. 10 (2028) EICHT Mod 12-14 EICHT Mod 12-14 SCA CSA, File No. 10 (2028) EICHT Mod 12-14 EICHT Mod 12-1	Product width	45 millimetre
LL B691 - 1 Voc 698 CSA Class No. 22108 CSA CSA CSA Class No. 22108 CSA	Product weight	0.192 kilogram
Product Type Product Sub Type Catalog Notes		UL 60947-4-1 VDE 0660 CSA Class No.: 3211-03 CSA File No.: 012528 IEC/EN 60947 UL File No.: E29184 IEC/EN 60947-4-1 CSA CE CSA-C22.2 No. 60947-4-1-14 UL Category Control No.: NKCR
Product Sub Type Catalog Notes Ambient air remperature: Operating range to IECEN 80947, PTB: -5°C to +55°C Ambient coparating temperature (according to IECEN 80947) PTB: -5°C to +55°C Red department Switch-on and switch-off conditions based on DC-13, time constant as specified. Features Features Features Features Features Features Features Ambient operating temperature Switch-on and switch-off conditions based on DC-13, time constant as specified. Features Features Features Features Features Ambient operating temperature - min Class Class Class 10 A Climatic proofing Damp heat, constant, to IEC 60089-2-78 Damp heat, cycle, to IEC 60089-2-78 Damp heat operating temperature - min Frame size Description Frame size Description Product creates current setting - min Overload release current setting - min Overload release current setting - max Overload release current setting - max Overload release current setting - max Product category Accessories Protection Finger and back of hand groot, Protection against direct contact when actuated from from front [EN 50274] Rated impulse withstand voltage (Uimp) Shock resistance Finger and back of hand groot, Protection against direct contact when actuated from from front [EN 50274] Rated impulse withstand voltage (Uimp) Shock resistance Finger and back of hand groot, Protection against direct contact when actuated from from front [EN 50274] Rated impulse withstand voltage (Uimp) Shock resistance Finger and back of hand groot, Protection against direct contact when actuated from from front [EN 50274] Rated impulse withstand voltage (Uimp) Shock resistance Finger and back of hand groot, Protection against direct contact when actuated from front [EN 50274] Finger and back of hand groot, Protection against direct contact when actuated from front [EN 50274] Finger and back of hand groot, Protection against direct contact whe	Product Tradename	ZB
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Trip-free release Phase-failures sensitivity (according to IEC/EN 60947, VDE 0660 Part 102) Test/off button Ambient operating temperature - min	Features & Functions	
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Class Climatic proofing Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30 Degree of protection IP20 Frame size ZB32 Mounting method Direct attachment Direct mounting Overload release current setting - min 32 A Overvoltage category III Pollution degree 3 Product category Accessories Overload relay ZB up to 150 A Protection Finger and back-of-hand proof, Protection against direct contact when actuated from front (EN 50274) Rated impulse withstand voltage (Uimp) 4000 V (acciliar) and control circuits) 6000 V AC Shock resistance 10.9, Mechanical, Sinusoidal, Shock duration 10 ms Branch circuits, (UL/CSA) Temperature compensation Carbon Sinusoidal and control of T > 40°	Ambient operating temperature - min	-25 °C
Climatic proofing Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30 Degree of protection IP20 Frame size ZB32 Mounting method Direct attachment Direct mounting Overload release current setting - min 32 A Overload release current setting - max 38 A Overvoltage category III Pollution degree 3 Product category Accessories Overload relay ZB up to 150 A Protection Finger and back-of-hand proof, Protection against direct contact when actuated from front (EN 50274) Rated impulse withstand voltage (Uimp) 4000 V (axiliary and control circuits) 6000 V AC Shock resistance 10 g, Mechanical, Sinusoidal, Shock duration 10 ms Suitable for Branch circuits, (UL/CSA) Temperature compensation Continuous Continuous Suitable for Temperature compensation Continuous Continuous	Ambient operating temperature - max	40 °C
Degree of protection Frame size Coverload release current setting - min Overload release current setting - max Overvoltage category Product category Protection Rated impulse withstand voltage (Uimp) Shock resistance Suitable for Temperature compensation Paga 2 Basa Paga 2 Basa Cabasa Direct attachment Direct mounting Basa Accessories Overload release current setting - min 32 A 38 A 38 A Ull Basa Basa Accessories Overload relay ZB up to 150 A Finger and back-of-hand proof, Protection against direct contact when actuated from from (EN 50274) Basa Basa Continuous Suitable for Branch circuits, (UL/CSA) Continuous Continuous Continuous Continuous Continuous Continuous Continuous Continuous	Class	CLASS 10 A
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Pollution degree 3 Product category Accessories Overload relay ZB up to 150 A Protection Finger and back-of-hand proof, Protection against direct contact when actuated from front (EN 50274) Rated impulse withstand voltage (Uimp) 4000 V (auxiliary and control circuits) 6000 V AC Shock resistance 10 g, Mechanical, Sinusoidal, Shock duration 10 ms Suitable for Branch circuits, (UL/CSA) Temperature compensation Continuous ≤ 0.25 %/K, residual error for T > 40°	Overload release current setting - max	38 A
Product category Accessories Overload relay ZB up to 150 A Protection Finger and back-of-hand proof, Protection against direct contact when actuated from from (EN 50274) Rated impulse withstand voltage (Uimp) 4000 V (auxiliary and control circuits) 6000 V AC Shock resistance 10 g, Mechanical, Sinusoidal, Shock duration 10 ms Suitable for Branch circuits, (UL/CSA) Temperature compensation Continuous ≤ 0.25 %/K, residual error for T > 40°	Overvoltage category	III
Overload relay ZB up to 150 A Protection Finger and back-of-hand proof, Protection against direct contact when actuated from front (EN 50274) Rated impulse withstand voltage (Uimp) 4000 V (auxiliary and control circuits) 6000 V AC Shock resistance 10 g, Mechanical, Sinusoidal, Shock duration 10 ms Suitable for Branch circuits, (UL/CSA) Continuous ≤ 0.25 %/K, residual error for T > 40°	Pollution degree	3
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6000 V AC Shock resistance 10 g, Mechanical, Sinusoidal, Shock duration 10 ms Suitable for Branch circuits, (UL/CSA) Temperature compensation Continuous ≤ 0.25 %/K, residual error for T > 40°	Protection	
Suitable for Branch circuits, (UL/CSA) Temperature compensation Continuous ≤ 0.25 %/K, residual error for T > 40°	Rated impulse withstand voltage (Uimp)	
Temperature compensation Continuous ≤ 0.25 %/K, residual error for T > 40°	Shock resistance	10 g, Mechanical, Sinusoidal, Shock duration 10 ms
≤ 0.25 %/K, residual error for T > 40°	Suitable for	Branch circuits, (UL/CSA)
Terminal capacities	Temperature compensation	
	Terminal capacities	

Terminal capacity (flexible with ferrule)	1 x (0.75 - 2.5) mm², Control circuit cables
	2 x (0.75 - 2.5) mm², Control circuit cables 1 x (6 - 16) mm², Main cables
Terminal capacity (solid)	1 x (0.75 - 4) mm², Control circuit cables 1 x (6 - 16) mm², Main cables 2 x (0.75 - 4) mm², Control circuit cables
Terminal capacity (solid/stranded AWG)	10 - 6, Main cables 2 x (18 - 14), Control circuit cables
Terminal capacity (stranded)	1 x 16 mm², Main cables
Stripping length (main cable)	10 mm
Stripping length (control circuit cable)	8 mm
Screw size	M3.5, Terminal screw, Control circuit cables M4, Terminal screw
Screwdriver size	1 x 6 mm, Terminal screw, Standard screwdriver 2, Terminal screw, Pozidriv screwdriver
Tightening torque	1.2 Nm, Screw terminals, Control circuit cables 3 Nm, Screw terminals, Main cables
Electrical rating	
Conventional thermal current ith of auxiliary contacts (1-pole, open)	6 A
Rated operational current (le) at AC-15, 120 V	1.5 A
Rated operational current (le) at AC-15, 220 V, 230 V, 240 V	1.5 A
Rated operational current (le) at AC-15, 380 V, 400 V, 415 V	0.9 A
Rated operational current (Ie) at DC-13, 110 V	0.4 A
Rated operational current (Ie) at DC-13, 220 V, 230 V	0.2 A
Rated operational current (Ie) at DC-13, 24 V	0.9 A
Rated operational current (le) at DC-13, 60 V	0.75 A
Rated operational voltage (Ue) - max	690 V
Safe isolation	240 V AC, Between auxiliary contacts, According to EN 61140 440 V AC, Between auxiliary contacts and main contacts, According to EN 61140 440 V AC, Between main circuits, According to EN 61140
Switching capacity (auxiliary contacts, pilot duty)	B300 at opposite polarity, AC operated (UL/CSA) R300, DC operated (UL/CSA) B600 at opposite polarity, AC operated (UL/CSA)
Voltage rating - max	600 V AC
Short-circuit rating	
Short-circuit current rating (basic rating)	150 A, max. Fuse, SCCR (UL/CSA) 5 kA, SCCR (UL/CSA)
Short-circuit protection rating	Max. 6 A gG/gL, fuse, Without welding, Auxiliary and control circuits 63 A gG/gL, Fuse, Type "2" coordination 125 A gG/gL, Fuse, Type "1" coordination
Contacts	
Number of auxiliary contacts (change-over contacts)	0
Number of auxiliary contacts (normally closed contacts)	1
Number of auxiliary contacts (normally open contacts)	1
Number of contacts (normally closed contacts)	1
Number of contacts (normally open contacts)	1
Design verification	
Equipment heat dissipation, current-dependent Pvid	8.4 W
Heat dissipation capacity Pdiss	0.4 VV
Heat dissipation per pole, current-dependent Pvid	2.8 W
Rated operational current for specified heat dissipation (In)	38 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.
10.2.7 Histriptions	ivieets the product standard s requirements.

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.
10.9.2 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 8.0

Low-voltage industrial components (EG000017) / Thermal overload relay (EC000106)

Tecnología electrónica, de automatización y de mando de procesos / Tecnología de conmutación de baja tensión / Unidad de protección contra sobrecargas / Relé de sobrecarga térmico (ecl@ss10.0.1-27-37-15-01 [AKF075014])

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Adjustable current range	А	32 - 38
Max. rated operation voltage Ue	V	690
Mounting method		Direct attachment
Type of electrical connection of main circuit		Screw connection
Number of auxiliary contacts as normally closed contact		1
Number of auxiliary contacts as normally open contact		1
Number of auxiliary contacts as change-over contact		0
Release class		CLASS 10 A
Reset function input		No
Reset function automatic		Yes
Reset function push-button		Yes