## **DATASHEET - DILER-31-G(12VDC)**



Contactor relay, 12 V DC, N/O = Normally open: 3 N/O, N/C = Normally closed: 1 NC, Screw terminals, DC operation



Part no.

DILER-31-G(12VDC) 079761

Product num         Factor Mathematical States DUER Control ruly           Farm         GENERS 10,12000           FAV         40,00000           Product Langh/Usylh         Minimate           Product Langh/Usylh         6000000000000000000000000000000000000	General specifications	
Patter 10     PARLES 1-612/POCI       PARLES 1-612/POCI     GISSER/PICIO       Parles height     GISSER/PICIO       Product height     GISSER/PICIO       Product with     GISSER/PICIO       Product Parles     GISSER/PIC		Eaton Moeller® series DILER Control relay
Fals       alission Signal         Preduct height Deph       alission Signal         Preduct height A       Billinerse         Preduct Techneame       Billinerse         Preduct Stat Fase       Billinerse         Preduct Stat Fase       Billinerse         Preduct Stat Fase       Billinerse         Preduct Stat Fase       Billinerse         Features & Functions       Billinerse         Features M       Billinerse         Preduct Stat Fase       Billinerse         Billinerse       Billinerse         Preduct Stat Fase       Billinerse         Billinerse       Billinerse         Preduct Stat Fase       Billinerse         Billinerse <td>Part no.</td> <td></td>	Part no.	
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Poduct height       General influences         Poduct windh       General influences         Poduct fielder       Star Star Star Star Star Star Star Star		
Preduct weight       6 millimete         Preduct weight       020 kingsm         Certifications       5 millimete         Certifications       5 millimete         Confications       5 millimete         Confications       5 millimete         Confications       5 millimete         Confications       5 millimete         Preduct Fradmanne       5 millimete         Fradmanne       5 millimete         Preduct Fradmanne       5 millimete         Fradmanne       5 millime		
Preduct weight       B256 klogram         Certifications       EN 8939 5.1         Confications       EN 8939 5.1         Confications       EN 8939 5.1         Confications       EN 8939 5.1         Solar Control Configurations       EN 8939 5.1         Solar Control Configurations       EN 8939 5.1         Preduct Trademann       EN 8000         Preduct Tayler       Enter 8000         Preduct Tayler       Control Configurations         Fistares       Fistares       Control Configurations         Fistares       Fistares       Control Configurations         Preduct Tayler       Enter 8000000       Control Configurations         Control Configurations       Control Configurations       Control Configurations         Preduct Tayler       Control Configurations       Control Configurations         Preduct Tayler	-	
Product Tudename       Product Tudename       Product Tudename       Product Tudename         Fautures & Functions       Product Tudename       Product Tudename       Product Tudename         Fundures C       Fundures C       Product Tudename       Product Tudename       Product Tudename         Product Tudename       Product Tudename       Product Tudename       Product Tudename       Product Tudename       Product Tudename       Product Tudename       Product Tudename       Product Tudename       Product Tudename       Product Tudename       Product Tudename       Product Tudename       Product Tudename       Product Tudename       Product Tudename       Product T		
Image: Solution of the second seco	•	
Product Type       Control relay         Product Sub Type       None         Catalog Nates       Coll terminal markings according to EM 50005         Features & Functions       Control relay         Features & Functions       Coll terminal markings according to EM 50005         Features & Functions       Control relay         Features & Functions       Control relay         Fated viable:       Instrlacked opposing contacts to EM 60947-5-1 appendix L, including auxiliary contain module         Fated with:       Instrlacked opposing contacts to EM 60947-5-1 appendix L, including auxiliary contain module         Application       Contextor relays         Degree of protection       Instrlacked opposing contacts         Lifespan, mechanical       Contextor relays         Mounting method       Contextor relays         Mounting position       Sou0000 Operations (DC operated)         Overvoltage category       Instrlacked opposing contacts         Pollution degree       Sou00000 Operations/h         Outrool of gere       Sou00000 Operations/h         Overvoltage category       Instrlacked opposing contacts to Instrlacked opposing contacts         Pollution degree       Sou00000 Operations/h         Polution degree       Sou000000000000000000000000000000000000		UL CSA Class No.: 3211-03 CSA File No.: 012528 CE UL 508 CSA-C22.2 No. 14-05 IEC/EN 60947-4-1 IEC/EN 60947 VDE 0660 UL Category Control No.: NKCR CSA
Product Sub Type         None           Catalog Notes         Coll terminal markings according to EM 50005 Contact runners according to EM 50015 Contact runners according to EM 50015 Contact runners according to EM 50015           Features         Functions           Features         Positive operating contacts to EM 60947-51 appendix L, including auxiliary contar module           Features         Positive operating contacts to EM 60947-51 appendix L, including auxiliary contar module           Application         Contact cortealsy           Objected of protaction         Positive operating contacts to EM 60947-51 appendix L, including auxiliary contar module           Opgress of protaction         Contact cortealsy           Degrees of protaction         Positive operating contacts to EM 60947-51 appendix L, including auxiliary contar module           Opgress of protaction         Protaction           Uses of protaction         Protaction           Operating frequency         Contact crelays           Operating frequency         South contactors           Operating frequency         Protaction           Protaction         South catagory           Protaction         Protaction degree           Protaction         South catagory           Protaction         South catagory           Protaction         South cat (SN 50274)           Rated i	Product Tradename	DILER
Catalog Notes       Coil terminal markings according to EN 50005 Contact numbers according to EN 50011 Rotate constant as specified.         Features & Functions       Positive operating contacts to EN 60947-5-1 appendix L, including auxiliary contact module         Features (Information       Positive operating contacts to EN 60947-5-1 appendix L, including auxiliary contact module         Application       Contactor ruleys         Degree of protection       Contactor ruleys         Degree of protection       Positive operations (DC operated)         Mounting method       Contactor ruleys         Operating frequency       Positive operations (DC operated)         Overvotage category       III         Pollution degree       Societion         Protection       III         Protection       IIII         Protection       IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Product Type	Control relay
Features & Functions         Related operational currents Work-own and witch-out of conditions based on DC-13, time constant as specified.           Features         Context numbers as specified.           Features         Interfocked operational currents Work-own and witch-out conditions based on DC-13, time constant as specified.           Features         Interfocked operational currents Work operation contacts to EN 60947-5-1 appendix L, including auxiliary contamodule           Filted with:         Interfocked opposing contacts         Interfocked opposing contacts           General information         Contactor relays         Interfocked opposing contacts           Application         Contactor relays         Interfocked opposing contacts           Degree of protection         Interfocked opposing contacts         Interfocked opposing contacts           Mounting position         Interfocked opposing contacts         Interfocked opposing contacts           Operating frequency         Interfocked opposing contacts         Interfocked opposing contacts           Operating frequency <thinterfocked contacts<="" opposing="" th="">         Inte</thinterfocked>	Product Sub Type	None
Features         Peatures         Peatures positive operating contacts to EN 60947-5-1 appendix L, including auxiliary contacts           Fitted with:         Interlocked opposing contacts         Interlocked opposing contacts           General information         Interlocked opposing contacts         Interlocked opposing contacts           Application         Contactor relays         Interlocked opposing contacts         Interlocked opposing contacts           Degree of protection         Interlocked opposing contacts (DC operated)         Interlocked opposing contacts         Interlocked opposing contacts           Mounting method         Interlocked opposing (DC operated)         Interlocked opposing (DC operated)         Interlocked opposing contacts           Operating frequency         Interlocked opposing contacts         Interlocked opposing contacts         Interlocked opposing contacts           Overvoltage category         Interlocked opposing contact so (DC operated)         Interlocked opposing contact so (DC operated)           Product category         Interlocked opposing contact so (DC operated)         Interlocked opposing contact so (DC operated)           Product category         Interlocked opposing contact so (DC operated)         Interlocked opposing contact so (DC operated)           Product category         Interlocked opposing contact so (DC operated)         Interlocked opposing contact so (DC operated)           Rated impulse withstand voltage (Uimp) </td <td>Catalog Notes</td> <td>Contact numbers according to EN 50011 Rated operational current: Switch-on and switch-off conditions based on DC-13,</td>	Catalog Notes	Contact numbers according to EN 50011 Rated operational current: Switch-on and switch-off conditions based on DC-13,
Indula     modula       Fitted with:     Interfacked opposing contacts       General information     Contactor relays       Application     Contactor relays       Degree of protection     200000000 Operations (DC operated)       Mounting method     2000000000 Operations (DC operated)       Mounting position     DIN-rail/screw       Mounting position     Second Degree       Operating frequency     Bille Protection       Overvoltage category     III       Pollution degree     JILE Mini-contactors       Protection     Second Degree       Rated inpulse withstand voltage (Uimp)     Second Degree       Shock resistance     Second Degree       Voltage type     CC       Clinatic environmental conditions     Second Degree       Ambient operating temperature (enclosed) - mina     So C       Ambient operating temperature (enclosed) - mina     So C	Features & Functions	
General information       Interference of protection         Application       Contactor relays         Degree of protection       IP20         Lifespan, mechanical       20,000,000 Operations (DC operated)         Mounting method       DIN-rail/screw         Mounting opsition       0000 Operations (DC operated)         Operating frequency       0000 Operations/h         Overvoltage category       III         Pollution degree       3         Product category       DLER Mini-contactors         Protection       Firger and back-of-hand proof, Protection against direct contact when actuated from front (EN 50274)         Rated impulse withstand voltage (Uimp)       0000 VAC         Shock resistance       0000 VAC         Clinatic environmental conditions       Condecoder 2.27, Half-sinusoidal shock 10 ms         Ambient operating temperature - min       Condecoder 2.27, Half-sinusoidal shock 10 ms         Ambient operating temperature - min       Condecoder 2.25 °C         Ambient operating temperature (enclosed) - min       So °C         Ambient operating temperature (enclosed) - min       Go °C         Ambient operating temperature (enclosed) - min       Go °C	Features	Positive operating contacts to EN 60947-5-1 appendix L, including auxiliary contact module
Application         Contactor relays           Degree of protection         IP20           Lifespan, mechanical         20,000,000 Operations (DC operated)           Mounting method         DIN-rail/screw           Mounting position         Mounting position           Operating frequency         9000 Operations/h           Overvoltage category         III           Pollution degree         3           Protection         DILER Mini-contactors           Protection         DILER Mini-contactors           Inger and back-of-hand proof, Protection against direct contact when actuated from from from (EN 50274)           Rated impulse withstand voltage (Uimp)         6000 V AC           Shock resistance         10 g, NO auxiliary contact, Basic unit with auxiliary contact module, Mechanical, according to IEC/EN 60068-2-27, Helf-sinusoidal shock 10 ms           Ambient operating temperature - min         -25 °C           Ambient operating temperature - max         50 °C           Ambient operating temperature (enclosed) - min         50 °C	Fitted with:	Interlocked opposing contacts
Degree of protection       P20         Lifespan, mechanical       2,000,000 Operations (DC operated)         Mounting method       IN - rail/screw         Mounting position       6000 Operations (DC operated)         Operating frequency       9000 Operations/h         Overvoltage category       III         Pollution degree       3         Product category       DLER Mini- contactors         Protection       Finger and back-of-hand proof, Protection against direct contact when actuated from from (EN 50274)         Rated impulse withstand voltage (Uimp)       6000 V AC         Shock resistance       00 y.N0 auxiliary contact. Basic unit with auxiliary contact module, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms         Ambient operating temperature - min       C         Ambient operating temperature (enclosed) - mina       50 °C	General information	
Lifespan, mechanical       Color	Application	Contactor relays
Mounting method       DIN-rail/screw         Mounting position       Service (except vertical with terminals A1/A2 at the bottom)         Operating frequency       9000 Operations/h         Overvoltage category       III         Pollution degree       3         Product category       DILER Mini-contactors         Protection       Finger and back-of-hand proof, Protection against direct contact when actuated from from from from from from from for Diversity and proof. Protection against direct contact when actuated from from from from from from from from	Degree of protection	IP20
Mounting position       As required (except vertical with terminals A1/A2 at the bottom)         Operating frequency       9000 Operations/h         Overvoltage category       III         Pollution degree       3         Product category       DILER Mini-contactors         Protection       Finger and back-of-hand proof, Protection against direct contact when actuated from from (ENS 0274)         Rated impulse withstand voltage (Uimp)       6000 V AC         Shock resistance       6000 V AC         Voltage type       Contact category against direct contact module, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms as g., N/C auxiliary contact, Basic unit with auxiliary contact module, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms as g., N/C auxiliary contact, Basic unit with auxiliary contact module, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms as g., N/C auxiliary contact, Basic unit with auxiliary contact module, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms as g., N/C auxiliary contact, Basic unit with auxiliary contact module, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms as g., N/C auxiliary contact, Basic unit with auxiliary contact module, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms as g., N/C auxiliary contact, Basic unit with auxiliary contact module, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms as g., N/C auxiliary contact, Basic unit with auxiliary contact module, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms as g., N/C auxiliary contact, Basic unit with auxiliary contact module, Mech	Lifespan, mechanical	20,000,000 Operations (DC operated)
Operating frequency       9000 Operations/h         Overvoltage category       III         Pollution degree       3         Product category       DILER Mini-contactors         Protection       Finger and back-of-hand proof, Protection against direct contact when actuated from from (FN 50274)         Rated impulse withstand voltage (Uimp)       6000 V AC         Shock resistance       6000 V AC         Voltage type       10 g, N/O auxiliary contact, Basic unit with auxiliary contact module, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms         Voltage type       DC         Climatic environmental conditions       CC         Ambient operating temperature - min       50 °C         Ambient operating temperature (enclosed) - min       50 °C         Ambient operating temperature (enclosed) - min       50 °C         Ambient operating temperature (enclosed) - min       600 °C	Mounting method	DIN-rail/screw
Overvoltage category       III         Pollution degree       3         Product category       JEER Mini-contactors         Protection       Image: Second Sec	Mounting position	As required (except vertical with terminals A1/A2 at the bottom)
Pollution degree       3         Product category       DLER Mini-contactors         Protection       Finger and back-of-hand proof, Protection against direct contact when actuated from front (EN 50274)         Rated impulse withstand voltage (Uimp)       6000 V AC         Shock resistance       10 g, N/O auxiliary contact, Basic unit with auxiliary contact module, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms as g, N/C auxiliary contact, Basic unit with auxiliary contact module, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms as g, N/C auxiliary contact, Basic unit with auxiliary contact module, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms as g, N/C auxiliary contact, Basic unit with auxiliary contact module, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms as g, N/C auxiliary contact, Basic unit with auxiliary contact module, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms as g, N/C auxiliary contact, Basic unit with auxiliary contact module, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms as g, N/C auxiliary contact, Basic unit with auxiliary contact module, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms as g, N/C auxiliary contact, Basic unit with auxiliary contact module, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms as g, N/C auxiliary contact, Basic unit with auxiliary contact module, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms as g, N/C auxiliary contact, Basic unit with auxiliary contact module, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms as g, N/C auxiliary contact module, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms as g, N/C auxiliary contact, Ba	Operating frequency	9000 Operations/h
Product category       DILER Mini-contactors         Protection       Finger and back-of-hand proof, Protection against direct contact when actuated from from (EN 50274)         Rated impulse withstand voltage (Uimp)       6000 V AC         Shock resistance       8000 V AC         Voltage type       00, N/O auxiliary contact, Basic unit with auxiliary contact module, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms         Climatic environmental conditions       Post         Ambient operating temperature - min       Post         Ambient operating temperature (enclosed) - min       So C         Ambient operating temperature (enclosed) - max       So C         So C	Overvoltage category	III.
Protection       Finger and back-of-hand proof, Protection against direct contact when actuated from from (EN 50274)         Rated impulse withstand voltage (Uimp)       6000 V AC         Shock resistance       10 g, N/O auxiliary contact, Basic unit with auxiliary contact module, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms         Voltage type       DC         Climatic environmental conditions       -25 °C         Ambient operating temperature (enclosed) - min       50 °C         Ambient operating temperature (enclosed) - max       50 °C         Ambient operating temperature (enclosed) - max       50 °C	Pollution degree	3
Rated impulse withstand voltage (Uimp)       Image: Constraint of the constraint	Product category	DILER Mini-contactors
Shock resistance       Io g, N/O auxiliary contact, Basic unit with auxiliary contact module, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms s g, N/C auxiliary contact, Basic unit with auxiliary contact module, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms s g, N/C auxiliary contact, Basic unit with auxiliary contact module, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms s g, N/C auxiliary contact, Basic unit with auxiliary contact module, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms s g, N/C auxiliary contact, Basic unit with auxiliary contact module, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms s g, N/C auxiliary contact, Basic unit with auxiliary contact module, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms         Voltage type       DC         Climatic environmental conditions       DC         Ambient operating temperature - min       C         Ambient operating temperature (enclosed) - min       C         Ambient operating temperature (enclosed) - min       C         Ambient operating temperature (enclosed) - max       C	Protection	
Voltage typeDCClimatic environmental conditionsModel of the condition of	Rated impulse withstand voltage (Uimp)	6000 V AC
Climatic environmental conditions     M       Ambient operating temperature - min     M       Ambient operating temperature - max     M       Ambient operating temperature (enclosed) - min     M       Ambient operating temperature (enclosed) - max     M       Ambient operating temperature (enclosed) - max     M       Ambient operating temperature (enclosed) - max     M	Shock resistance	8 g, N/C auxiliary contact, Basic unit with auxiliary contact module, Mechanical,
Ambient operating temperature - min-25 °CAmbient operating temperature - max-25 °CAmbient operating temperature (enclosed) - min-25 °CAmbient operating temperature (enclosed) - max-25 °C <t< td=""><td>Voltage type</td><td>DC</td></t<>	Voltage type	DC
Ambient operating temperature (enclosed) - minModel50 °CAmbient operating temperature (enclosed) - maxModel50 °CAmbient operating temperature (enclosed) - maxModel40 °C	Climatic environmental conditions	
Ambient operating temperature (enclosed) - min     25 °C       Ambient operating temperature (enclosed) - max     40 °C	Ambient operating temperature - min	-25 °C
Ambient operating temperature (enclosed) - min     25 °C       Ambient operating temperature (enclosed) - max     40 °C	Ambient operating temperature - max	50 °C
Ambient operating temperature (enclosed) - max 40 °C		
Climatic proving Damp heat. Constant. to IEU 6006-2-78	Climatic proofing	Damp heat, constant, to IEC 60068-2-78

	Damp heat, cyclic, to IEC 60068-2-30
Terminal capacities	
Terminal capacity (flexible with ferrule)	1 x (0.75 - 1.5) mm <sup>2</sup> 2 x (0.75 - 1.5) mm <sup>2</sup>
Terminal capacity (solid)	2 x (0.75 - 2.5) mm <sup>2</sup> 1 x (0.75 - 2.5) mm <sup>2</sup>
Terminal capacity (solid/stranded AWG)	1 x (18 - 14) 18 - 14 2 x (18 - 14)
Stripping length (main cable)	8 mm
Screw size	M3.5, Terminal screw
Screwdriver size	0.8 x 5.5/1 x 6 mm, Terminal screw, Standard screwdriver 2, Terminal screw, Pozidriv screwdriver
Tightening torque	1.2 Nm, Screw terminals
Electrical rating	
Rated operational voltage (Ue) at AC - max	600 V
Rated insulation voltage (Ui)	690 V
Rated operational current (le)	2.5 A at 24 V, DC L/R $\le$ 15 ms (with 1 contact in series) 1.5 A at 110 V, DC L/R $\le$ 15 ms (with 3 contacts in series) 2.5 A at 60 V, DC L/R $\le$ 15 ms (with 2 contacts in series) 0.5 A at 220 V, DC L/R $\le$ 15 ms (with 3 contacts in series) 10 A
Rated operational current (Ie) at AC-15, 220 V, 230 V, 240 V	6 A
Rated operational current (Ie) at AC-15, 380 V, 400 V, 415 V	3 A
Rated operational current (Ie) at AC-15, 500 V	1.5 A
Safe isolation	300 V AC, Between coil and auxiliary contacts, According to EN 61140 300 V AC, Between auxiliary contacts, According to EN 61140
Short-circuit rating	
Short-circuit protection rating	10 A fast, 500V, Maximum fuse, Short-circuit rating without welding, Contacts
Short-circuit protection rating without welding	6 A gG/gL, 500 V, Max. Fuse, Contacts
Switching capacity	
Switching capacity (auxiliary contacts, general use)	10 A, 600 V AC, (UL/CSA) 0.5 A, 250 V DC, (UL/CSA)
Switching capacity (auxiliary contacts, pilot duty)	A600, AC operated (UL/CSA) P300, DC operated (UL/CSA)
Magnet system	
Duty factor	100 %
Pick-up voltage	0.85 - 1.3 V DC x Uc 0.7 - 1.3 V DC x Uc (at 24 V: without auxiliary contact module and at ambient air temperature + 40 °C)
Power consumption (pick-up) at DC	2.3 W
Power consumption (sealing) at DC	2.3 W
Rated control supply voltage (Us) at AC, 50 Hz - min	0 V
Rated control supply voltage (Us) at AC, 50 Hz - max	0 V
Rated control supply voltage (Us) at AC, 60 Hz - min	0 V
Rated control supply voltage (Us) at AC, 60 Hz - max	0 V
Rated control supply voltage (Us) at DC - min	12 V
Voltage tolerance	Smoothed DC, three-phase bridge rectifiers or smoothed double-wave rectification
Rated control supply voltage (Us) at DC - max	12 V
Switching time (DC operated, make contacts, closing delay) - min	26 ms
Switching time (DC operated, make contacts, closing delay) - max	35 ms
Switching time (DC operated, make contacts, opening delay) - min	15 ms
Switching time (DC operated, make contacts, opening delay) - max	25 ms
Switching time (DC operated, N/O, with auxiliary contact module, closing delay)	70 ms
Contacts	
Code number	31E
Control circuit reliability	<ul> <li>&lt; 2 λ, &lt; 1 failure at 100,000,000 Operations (at U# = 24 V DC, Umin = 17 V, Imin = 5.4 mA)</li> </ul>
Number of auxiliary contacts (change-over contacts)	0
Number of auxiliary contacts (normally closed contacts)	1

Number of auxiliary contacts (normally open contacts)	3
Number of contacts (normally closed contacts)	1
Number of contacts (normally open contacts)	3
Design verification	
Equipment heat dissipation, current-dependent Pvid	0 W
Heat dissipation capacity Pdiss	0 W
Heat dissipation per pole, current-dependent Pvid	0.4 W
Rated operational current for specified heat dissipation (In)	6 A
Static heat dissipation, non-current-dependent Pvs	2.3 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.
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) / Contactor relay (EC000196)

Electric engineering, automation, process control engineering / Low-voltage switch technology / Contactor (LV) / Contactor relay (ecl@ss13-27-37-10-01 [AAB716019])					
Rated control supply voltage AC 50 Hz	V	0 - 0			
Rated control supply voltage AC 60 Hz	V	0 - 0			
Rated control supply voltage DC	V	12 - 12			
Voltage type for actuating		DC			
Rated operation current	А	10			
Rated operation current le, 400 V	А	3			
Mounting method		DIN-rail/screw			
With LED indication		No			
Suitable for manual operation		No			
Interface		No			
Number of auxiliary contacts as normally closed contact		1			
Number of auxiliary contacts as normally open contact		3			
Number of auxiliary contacts as normally closed contact, delayed switching		0			
Number of auxiliary contacts as normally open contact, leading		0			
Number of auxiliary contacts as change-over contact		0			
Operating voltage AC 50 Hz	V	17 - 500			
Operating voltage AC 60 Hz	V	17 - 500			
Operating voltage DC	V	24 - 220			
Voltage type (operating voltage)		AC/DC			

Rated switch current	А	10
Connection type auxiliary circuit		Screw connection
Width	mm	45
Height	mm	58
Depth	mm	54