

Type: **ETS4-VS3**
 Article No.: **083094**
 Sales text **ACC.CONTACTOR VS1,VS2,VS3**

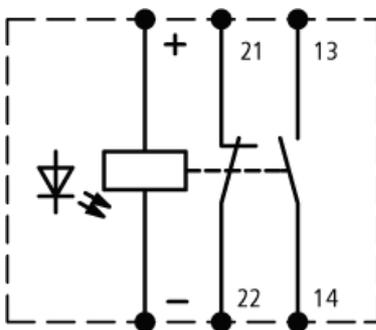


Input with integral suppressor circuit for overvoltage limitation

Ordering information

Rated operational current			
AC-15 240 V	I_e	A	2
AC-15 415 V	I_e	A	2
DC 220 V	I_e	A	0.03
Actuating voltage	U_s	V DC	24
Actuating current	I	mA	25
For use with contactor relays			As required

Contact sequence



Notes concerning the table header

Rated operational current DC:

Making and breaking conditions DC-13, time L/R 300ms

Notes concerning the product group

Contactors coils with rated operational current > 2 A must be actuated via the DILA mini contactor relay.

Rated operational current DC:

Making and breaking conditions DC–13, time L/R 300ms

General			
Standards			IEC/EN 60947, VDE 0660, UL, CSA
Lifespan, mechanical			
DC operated	Operations	$\times 10^6$	30
Maximum operating frequency			
DC operated	Operations	$\times 10^6$	72000
Climatic proofing			Damp heat, constant, to IEC 60068–2–78; Damp heat, cyclic, to IEC 60068–2–30
Ambient temperature			
Open		°C	–25...60
Enclosed		°C	–25...45
Mounting position			As required
Mechanical shock resistance (half–sinusoidal shock, 20 ms)			
N/O contact		g	10
Protection type			IP20
Protection against direct contact when actuated from front (IEC 536)			Finger– and back–of–hand proof
Weight		kg	0,09
Terminal capacities			
Solid		mm ²	1 × (0.75 – 2.5) 2 × (0.75 – 2.5)
Flexible with ferrule		mm ²	1 × (0.75 – 2.5) 2 × (0.75 – 1.5)
Solid or stranded		AWG	16 – 14
Terminal screw			M3.5
Pozidriv screwdriver		Size	2
Standard screwdriver		mm	0.8 × 5.5 1 × 6
Max. tightening torque		Nm	1,2
Contacts			

Rated impulse withstand voltage	U_{imp}	V AC	6000
Overtoltage category/pollution degree			III/2
Rated insulation voltage	U_i	V AC	440
Rated operational voltage	U_e	V AC	440
Rated operational current			
AC-15			
220/240 V	I_e	A	2
380/415 V	I_e	A	2
DC-13			
DC-13 L/R – 15 ms			
Contacts in series:			
1	24 V	A	2,6
1	60 V	A	1
1	110 V	A	0,6
1	220 V	A	0,2
DC-13 L/R – 50 ms			
Contacts in series:			
1	24 V	A	2
1	60 V	A	0,6
1	110 V	A	0,08
1	220 V	A	0,08
DC-13 L/R – 300 ms			
Contacts in series:			
1	24 V	A	0,6
1	60 V	A	0,2
1	110 V	A	0,08
1	220 V	A	0,03
Control circuit reliability (at $U_e = 24$ V DC, $U_{min} = 17$ V, $I_{min} = 5.4$ mA)	Failure rate		-8, < one failure at 100 million operations
Conventional thermal current	I_{th}	A	6
Component lifespan			
AC-15			
230 V, $I_e = 0.1$ A	Operations	$\times 10^6$	7
230 V, $I_e = 1.2$ A	Operations	$\times 10^6$	1
Short-circuit rating without welding			
Short-circuit protection maximum fuse			
500 V		A fast	4

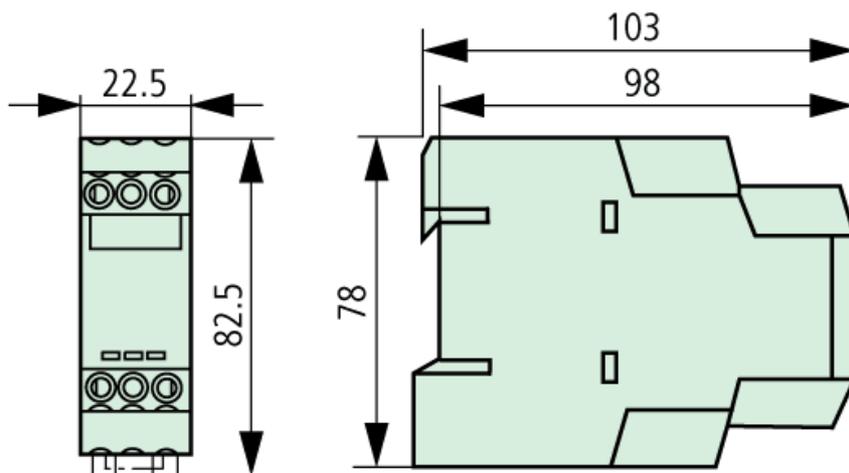
Magnet systems

Voltage tolerance			
DC operated			
	Pick-up	$\times U_c$	0,85 – 1,2
Power consumption			
DC operated	Pull-in = sealing	W	0,6
Duty factor		% DF	100
Switching times at 100 % U_c (approximate values)			
DC operated closing delay		ms	7
DC operated, opening delay		ms	3

Notes

Notes			<p>For rated operational current: Making and breaking conditions to DC-13, L/R constant as stated Max. fuses for short-circuit protection: Transparent overlay "Fuses" for time/current characteristics (please enquire) For pick-up voltage, DC operated: Pure DC, AC bridge rectifier or smoothed double-wave rectification. For connection cross section: only use equal cross-sections</p>
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Dimensions



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