

Relay

Series 8510



www.stahl.de



- > Screw fastening version
 - robust
 - vibration resistant
 - reliable
- > Corrosion resistant enclosure material
- > Easily accessible connection terminals enable
 - safe connection
 - einfaceasy installation
- > Modular technology
 - clear arrangement in the Ex e enclosure
 - flexibly expandable for system modifications



08375E00

	ATEX / IECEx					
Zone	0	1	2	20	21	22
For use in		x	x			

Explosion Protection

Global (IECEx)	
Gas	IECEx BVS 07.0029U Ex d e IIC, Ex d e I
Europe (ATEX)	
Gas	DMT 00 ATEX E 073 U II 2G Ex d e IIC I M2 Ex d e I
Certifications and certificates	
Certificates	ATEX, IECEx, Belarus (operating authorisation)

E9

WebCode 8510A

Relay

Series 8510

Selection Table

Version	Schematic	Rated operating voltage	Order number	Weight kg
Relay with 2 change-over contacts		AC: 220 / 230 V, 50 / 60 Hz	8510/111-02-209-...0	1.200

Order Number Supplement

Rated operating voltage	AC: 24 V, 50 / 60 Hz	8510 / ...-02-...-01.
	AC: 24 V, 50 / 60 Hz	8510 / ...-02-...-02.
	AC: 48 V, 50 / 60 Hz	8510 / ...-02-...-03.
	AC: 110 V, 50 / 60 Hz	8510 / ...-02-...-04.
	AC: 230 V, 50 / 60 Hz	8510 / ...-02-...-05.
	DC: 12 V	8510 / ...-02-...-21.
	DC: 24 V	8510 / ...-02-...-22.
	DC: 48 V	8510 / ...-02-...-23.
DC: 110 V	8510 / ...-02-...-24.	

Technical Data

Electrical data	
Main circuit	
Rated operational voltage	max. 250 V
Rated operational frequency	50 / 60 Hz
Short-circuit protection	Connect appropriate fuse in series
Switching capacity	0.3 kW for AC-3 operation (AC 230 V single-phase motor) at AC-1: max. 2000 VA at AC-15 (AC 230 V): max. 400 VA
Maximum switching current	at DC-1 30 V: 5 A at DC-1 110 V: 0.3 A at DC-1 220 V: 0.12 A
Minimal switching capacity	300 mW at 5 V / 5 mA
Contact material	AgNi
Control circuit	
Response time	7 ms
Drop-out time	3 ms
AC	
Rated operating voltage	U_c 50 / 60 Hz: 12 ... 230 V
Operation range	0.8 ... 1.1 U_c at 50 Hz / 60 Hz
Drop out value	$\geq 0.2 U_c$
Hold voltage	$\geq 0.8 U_c$
Electrical service life	100 thousand switching cycles
Mechanical service life	10 million switching cycles
DC	
Rated operating voltage	U_c : 24 ... 110 V
Operation range	0.73 ... 1.5 U_c
Drop out value	$\geq 0.1 U_c$
Hold voltage	$\geq 0.4 U_c$
Mechanical service life	20 million switching cycles

Relay

Series 8510



Technical Data

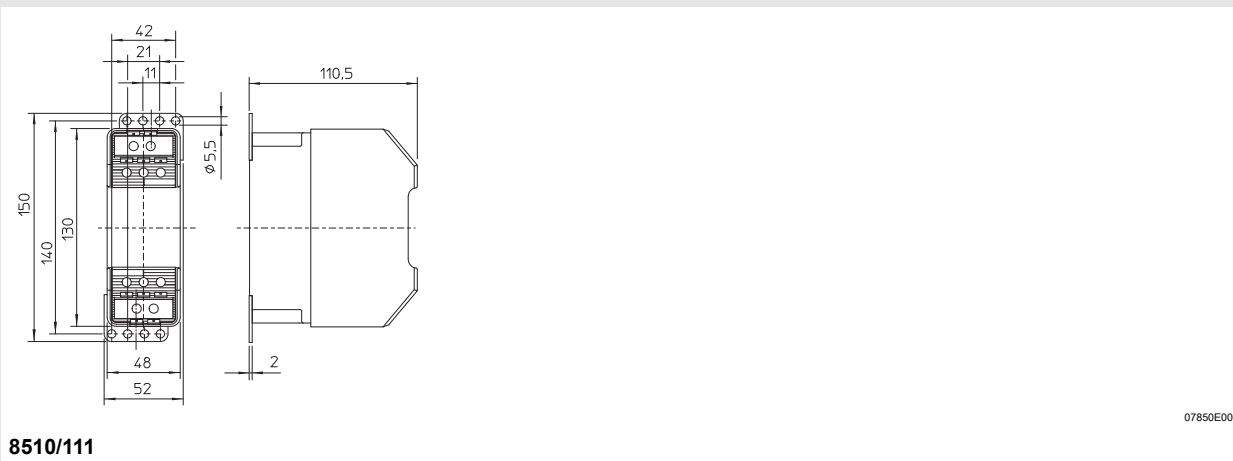
Ambient conditions

Ambient temperature	
Storage	-40 ... +85 °C
Operation at Uc	-20 ... +40 °C

Mechanical data

Material	
Enclosure material	Epoxy resin
Terminal cover	Polyamide; IP20, finger-contact safety according to IEC/EN 60529
Conductor cross-section	
Auxiliary contacts	0.75 ... 1.5 mm ² flexible 0.75 ... 2.5 mm ² solid

Dimensional Drawings (All Dimensions in mm) - Subject to Alterations



8510/111

We reserve the right to make alterations to the technical data, dimensions, weights, designs and products available without notice. The illustrations cannot be considered binding.