

IDEM SEU31 Series

Viper Safety Relay Expansion Modules

**SEU31-280007**

The SEU31 series Viper safety relay expansion modules can be directly wired to the SCR21, SCR31, SCR73, and SCR3142TD series safety relays to increase the number of safety output contacts and expand functionality of the base unit safety relays.

Note: Not for use with safety light curtains



Features

- Stop category 0
- Fault monitored via feedback contacts
- Multiple expansion modules can be connected to a single base unit
- Easy diagnostics of status via 3 LEDs
- Compact 22.5 mm housing suitable for DIN rail

SEU31 Series Safety Relay Expansion Modules

Part Number	Price	Type	Voltage	Outputs	Connection
SEU31-280007	\$166.00	Expansion module	24V AC/DC	3 NO positively driven and 1 NC auxiliary	Fixed screw terminals
SEU31-280007-P	\$213.00				Pluggable terminals

Safety Data per EN 13849-1

Category	4
Performance level	Ple
MTTF_d	71a (High)
DC_{avg}	99% (High)

Safety Data per IEC/EN 62061, IEC/EN 61508

Sil CL	SIL CL 3
Sil	SIL3
HFT	1 (Dual channel)
DC_{avg}	99% (High)
SFF	90-99%
PFH_d (t-20a)	7.20E ⁻⁰⁵

SEU31 Series Specifications

	General Specifications
Temperature	-20° to +55°C [-4° to +131°F]
Altitude	< 2,000 meters
Vibration Resistance	Tested to IEC 60068-2-6
Degree Of Protection	IP20
Housing	UL 94V-0 Thermoplastic
Weight	150g (5.3 oz)
Agency Approvals and Standard	cULus file E258676, CE, TUV
Terminal Designation per EN 50 005	1 x 4 mm ² stranded ferruled (isolated) or 2 x 1.5 mm ² stranded ferruled (isolated) or 2 x 2.5 mm ² solid
Wire Fixing	M3.5 terminals with self-lifting wire protection or cage clamp terminals
	Input Specifications
Nominal Voltage	24V AC/DC
Voltage Range	85-110%
Maximum Consumption	2.5 W (24VDC)
Nominal Frequency	50Hz-60Hz
Control Voltage	N/A
Control Current	N/A
Short Circuit Protection	Internal PTC (Positive Temperature Coefficient resistor)
Over Voltage Protection	Internal VDR (Voltage Dependent resistor)
	Output Specifications
Electrical Contact Life	6A / 250VAC 100,000 cycles, 1A / 250VAC 1,000,000 cycles
Mechanical Life	10 x 10 ⁶
Contact Type	3 NC positively driven and 1 NO auxiliary contacts
Operate Delay	100ms
Release Delay	25ms
Nominal Output Voltage	250VAC
Thermal Current (I_{th})	Max. 6A
Short Circuit Strength	Minimum Contact Fuses - 4A slow blow, 6A fast blow
Switching Capacity	AC - 250V, 1500V, 6A, Ohmic 230V, 4A for AC-15; DC - 24V, 30W, 1.25 A, Ohmic
Switching Frequency	Max. 360 switching cycles/hr

Safety Products



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