Connection ESM-ES3..

Parameter		Value	Unit
Operating voltage	ESM-ES301	24 ± 10% [1]	V AC/DC
	ESM-ES302	115 ± 10%	V AC
	ESM-ES303	230 ± 10%	V AC
Reverse polarity protection		On ESM-ES301	
Rated supply frequency		50 ... 60	Hz
Power consumption		Approx. 4 VA / 2 W	
Control voltage at inputs		18.6 … 26	V DC
Control cable length (cross-section 0.75 mm²)		Max. 1000	m
External contact fuse (safety circuit) acc. to EN IEC 60269-1		10 A gG (T4A / F6A)	
Test voltage (control voltage/contacts)		2.5	kV
Rated impulse withstand voltage, Leakage path and air gaps acc. to DIN VDE 0110-1		4	kV
Rated insulation voltage		250	V
Over voltage category according to DIN VDE 0110-1		3	
Cumulative current on all contacts acc. to (UL)		Max. 10.5	A
Safety contacts		**3 NO contacts (redundant)**	
Min. switching current at 24 V DC		20	mA
Switching voltage max.		50	V DC
		250	V AC
Breaking capacity acc. to (UL) (per contact)		6 A 250 V AC 2 A 24 V DC	

Utilization category [2] According to EN 60947-5-1		U_e	I_e	$\Sigma\ I_e$	
	AC-12	250 V	6 A [3]		
	AC-15	230 V	4 A	10.5 A	
	DC-12	24 V	1.25 A [3]		
	DC-13	24 V	2 A		

LED indicators		2, status display for relays K1 and K2	
Auxiliary contact		**1 NC contact**	
Continuous current max.		500 [4]	mA
Switching voltage max.		24	V AC/DC
Reliability values acc. to EN ISO 13849-1			
Category		4	
Performance Level PL		e	

1) All the electrical connections must either be isolated from the mains supply by a safety transformer according to EN 61558-2-6 with limited output voltage in the event of a fault, or by other equivalent isolation measures.

2) See page 26 for information about the utilization category.

3) With Ohmic load.

4) As monitoring contact for safety relay.

U_e = switching voltage I_e = max. switching current per contact $\Sigma\ I_e$ = max. switching current on all safety contacts (cumulative current)