

Connection ESM-BA2..				
Parameter		Value	Unit	
Operating voltage	ESM-BA201	24 ± 10% ¹⁾	V AC/DC	
	ESM-BA202	115 ± 10%	V AC	
	ESM-BA203	230 ± 10%	V AC	
Reverse polarity protection		On ESM-BA201		
Rated supply frequency		50 ... 60	Hz	
Power consumption		Approx. 3 VA / 1.8 W		
Control voltage for start button		18.6 ... 26	V DC	
Control cable length (cross-section 0.75 mm ²)		Max. 1000	m	
Control current for start button		Approx. 40	mA	
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		
Safety contacts		2 NO contacts (redundant)		
Min. switching current at 24 V DC		20	mA	
Switching voltage max.		24	V DC	
		250	V AC	
Breaking capacity acc. to \mathcal{U}		6 A 250 V AC 2 A 24 V DC		
Utilization category ²⁾		U_e	I_e	
According to EN 60947-5-1	AC-12	250 V	6 A	12 A
	AC-15	230 V	4 A	
	DC-12	24 V	1.25 A	
	DC-13	24 V	2 A	
LED indicators		2, status display for relays K1 and K2		
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.

U_e = switching voltage

I_e = max. switching current per contact

∑ I_e = max. switching current on all safety contacts (cumulative current)