

Accessories

Interface relay technical data

General technical data

Standards		IEC 255-5
Rated insulation voltage U_i acc. to IEC 947-4-1 and VDE 0110	VAC	250
Permissible ambient temperature		
• For free air operation:		
– at $U_e = 24\text{VDC}$ (between E1 & E2)	°C	-25 to +70
– from 0.85 to 1.1 U_e	°C	-25 to +55
• For storage	°C	-40 to +70
Climatic withstand		Complies with that of associated contactors
Mounting position		No limitation
Operating height	meters	3000
Mounting		Using the contactor A1 and A2 terminal connecting points Cable clamps and M 3.5 (+, –) pozidriv screws (2)
Connecting terminals (open on delivery)		
Cable cross-sectional area:		
• Rigid solid	2 x mm ²	1 to 4
• Flexible	2 x mm ²	0.75 to 2.5
Degree of protection		Protection against direct contact acc. to VDE 0106, Part 100

Construction data

Surge suppression:		
• For contactor coil		Varistor
• For interface relay coil		Diode
Protection against polarity reversal between terminals E1 and E2		Diode
Use on contactors with coils:		
• 24 to 250V/50, 60 Hz	types	N, A9 – A110
• 12 to 250VDC	types	AL9 – AL40
Interface relay operating time	ms	
Total operating time, interface relay + contactor		
• Between energization and:		
– NO contact opening	ms	19 to 36
– NC contact opening	ms	16 to 32
• Between de-energization and:		
– NO contact opening	ms	15 to 25
– NC contact opening	ms	18 to 28

Electrical input data

Control voltage (E1 and E2 terminals) U_c :		
• Rated value	VDC	24
• Maximum range	VDC	17 to 30
Max. consumption for $U_c = 24\text{ VDC}$, $\varnothing=20^\circ\text{C}$	W	0.3
“0” status (relay open)		
• For U_c	VDC	≤ 2.4
• For I_c	mA	≤ 1
“1” status (relay closed) for U_c	VDC	≥ 17
Max. short supply interruption immunity time	ms	4
Electrical output data		
Switching voltage (A0 and A2 terminals)	VAC VDC	≤ 250 –
Electrical lifetime	millions of operations	4 (600 ops./h) on A9 – A40 2 (600 ops./h) on A45 – A110