

3RV Motor Starter Protectors up to 100 A

Accessories

Mountable accessories

Technical specifications

Front transverse auxiliary switches			
		Switching capacity for different voltages	
Rated operational current I_e		1 CO contact	1 NO + 1 NC, 2 NO
• At AC-15, alternating voltage <ul style="list-style-type: none">- 24 V- 230 V- 400 V- 690 V	A	4	2
	A	3	0.5
	A	1.5	--
	A	0.5	--
• At AC-12 = I_{th} , alternating voltage <ul style="list-style-type: none">- 24 V- 230 V- 400 V- 690 V	A	10	2.5
	A	10	2.5
	A	10	--
	A	10	--
• At DC-13, direct voltage L/R 200 ms <ul style="list-style-type: none">- 24 V- 48 V- 60 V- 110 V- 220 V	A	1	1
	A	--	0.3
	A	--	0.15
	A	0.22	--
	A	0.1	--
Minimum load capacity	V	17	
	mA	1	

Front transverse solid-state compatible auxiliary switches			
		1 CO contact	
• Rated operational voltage U_e Alternating voltage		V	250
• Rated operational current I_e /AC-14 at $U_e = 250$ V		A	0.5
• Rated operational current I_e /AC-14 at $U_e = 125$ V		A	1
• Rated operational voltage U_e Direct voltage L/R 200 ms		V	250
• Rated operational current I_e /DC-13 at $U_e = 250$ V		A	0.27
• Rated operational current I_e /DC-13 at $U_e = 125$ V		A	0.44
Minimum load capacity	V	5	
	mA	1	

Lateral auxiliary switches			
		Switching capacity for different voltages	
Rated operational current I_e		1 NO + 1 NC, 2 NO, 2 NC, 2 NO + 2 NC and alarm switch	
• At AC-15, alternating voltage <ul style="list-style-type: none">- 24 V- 230 V- 400 V- 690 V	A	6	
	A	4	
	A	3	
	A	1	
• At AC-12 = I_{th} , alternating voltage <ul style="list-style-type: none">- 24 V- 230 V- 400 V- 690 V	A	10	
	A	10	
	A	10	
	A	10	
• At DC, direct voltage L/R 200 ms <ul style="list-style-type: none">- 24 V- 110 V- 220 V- 440 V	A	2	
	A	0.5	
	A	0.25	
	A	0.1	
Minimum load capacity	V	17	
	mA	1	

Auxiliary trip units			
		Undervoltage trip units	Shunt trip units
Power consumption			
• During pick-up <ul style="list-style-type: none">- AC voltages- DC voltages	VA / W	20.2 / 13	20.2 / 13
	W	20	13 ... 80
• During continuous duty <ul style="list-style-type: none">- AC voltages- DC voltages	VA / W	7.2 / 2.4	--
	W	2.1	--
Response voltage			
• Tripping	V	0.35 ... 0.7 x U_s	0.7 ... 1.1 x U_s
• Pickup	V	0.85 ... 1.1 x U_s	--
Maximum opening time	ms	20	20

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Short-circuit protection for auxiliary and control circuits

- Melting fuses gL/gG
- Miniature circuit breaker, C characteristic

A 10
A 6¹⁾

¹⁾ Prospective short-circuit current < 0.4 kA.

Conductor cross-sections for auxiliary and control circuits

Connection type

Terminal screw

Prescribed tightening torque

Conductor cross-sections (1 or 2 conductors)

- Solid
- Finely stranded with end sleeve
- Stranded
- AWG cables

Nm

mm²

mm²

mm²

AWG

Screw terminals

Pozidriv size 2

0.8 ... 1.2

2 x (0.5 ... 1.5)¹⁾/2 x (0.75 ... 2.5)¹⁾

2 x (0.5 ... 1.5)¹⁾/2 x (0.75 ... 2.5)¹⁾

2 x (0.5 ... 1.5)¹⁾/2 x (0.75 ... 2.5)¹⁾

2 x (18 ... 14)

Connection type

Conductor cross-sections (1 or 2 conductors connectable)

- Solid
- Finely stranded with end sleeve
- Finely stranded without end sleeve
- AWG conductors, solid or stranded

mm²

mm²

mm²

AWG

Cage Clamp terminals²⁾³⁾

2 x (0.25 ... 2.5)

2 x (0.25 ... 1.5)

2 x (0.25 ... 2.5)

2 x (24 ... 14)

Max. external diameter of the cable insulation: 3.6 mm.

¹⁾ If two different conductor cross-sections are connected to one clamping point, both cross-sections must lie in the range specified. If identical cross-sections are used, this restriction does not apply.

²⁾ With conductor cross-sections of $\leq 1 \text{ mm}^2$ an "insulation stop" must be used (see accessories "Contactors and Contactor Assemblies").

³⁾ For corresponding 8WA2 803 or 8WA2 880 opening tools, see "Accessories".