

3RA6 Fuseless Compact Starters

Accessories

For 3RA6 direct-on-line and reversing starters

Technical specifications

Connection type		Screw connection		Spring-loaded connection	
Max. rated current $I_{\max}$		12 A	32 A	12 A	32 A
Conductor cross-sections of main circuit terminals					
Tools		Pozidriv size 2		(3.5 x 0.5) mm, 8WA2 803	
Prescribed tightening torque		Nm	2 ... 2.5	--	
Minimum/maximum conductor cross-sections					
• Solid	mm ²	2 x (1.5 ... 2.5)	2 x (2.5 ... 6)	2 x (1.5 ... 6)	2 x (2.5 ... 6)
	mm ²	2 x (2.5 ... 6)	Max. 1 x 10	Max. 1 x 10	Max. 1 x 10
	mm ²	Max. 1 x 10			
• Finely stranded without end sleeve	mm ²	--	--	2 x (1.5 ... 6)	2 x (2.5 ... 6)
• Finely stranded with end sleeve	mm ²	2 x (1.5 ... 2.5)	2 x (2.5 ... 6)	2 x (1.5 ... 6)	2 x (2.5 ... 6)
	mm ²	2 x (2.5 ... 6)			
• AWG cables	AWG	2 x (16 ...14)	2 x (14 ...10)	2 x (16 ...10)	2 x (14 ...10)
	AWG	2 x (14 ...10)	1 x 8	1 x 8	1 x 8
	AWG	1 x 8			

Connection type		Screw connection		Spring-loaded connection	
Conductor cross-sections of control circuit terminals					
Tools		Pozidriv size 2		(3.0 x 0.5) mm, DIN ISO 2380-1A	
Prescribed tightening torque		Nm	0.8 ... 1.2	--	
Minimum/maximum conductor cross-sections					
• Solid	mm²	1 x (0.5 ... 4)		2 x (0.25 ... 1.5)	
	mm²	2 x (0.5 ... 2.5)			
• Finely stranded without end sleeve	mm²	--		2 x (0.25 ... 1.5)	
• Finely stranded with end sleeve	mm²	1 x (0.5 ... 2.5)		2 x (0.25 ... 1.5)	
	mm²	2 x (0.5 ... 1.5)			
• AWG cables	AWG	2 x (20 ... 14)		2 x (24 ... 16)	

Conductor cross-sections of the auxiliary switch for compact starters			
Order No.		3RA69 1.-1A	3RA69 1.-2A
Tools		Pozidriv size 2	(2.5 x 0.4) mm, 8WA2 807
Prescribed tightening torque	Nm	0.8 ... 1.2	--
Conductor cross-sections			
• Solid	mm²	2 x (0.5 ... 1.5)	2 x (0.25 ... 2.5)
	mm²	2 x (0.75 ... 2.5)	
	mm²	2 x (1 ... 4)	
• Finely stranded without end sleeve	mm²	--	2 x (0.25 ... 2.5)
• Finely stranded with end sleeve	mm²	2 x (0.5 ... 1.5)	2 x (0.25 ... 1.5)
	mm²	2 x (0.75 ... 2.5)	
• AWG cables	AWG	2 x (20 ... 16)	2 x (24 ... 14)
	AWG	2 x (18 ... 14)	
	AWG	1 x 12	

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Order No.		3RA6970-3A, 3RA6970-3B,
General data of the AS-i add-on module		
Permissible ambient temperature		
• Storage	according to IEC/EN 60721-3-1 °C	-25 ... +70
• Transport	according to IEC/EN 60721-3-2 °C	-25 ... +70
Degree of protection	according to IEC/EN 60947-1	IP20
EMC interference immunity	according to EN 50295	
Conductor-related interference	BURST according to IEC/EN 61000-4-4 kV	1/2
Electrostatic discharge	according to IEC/EN 61000-4-2 kV	6/8
Field-related interference	according to IEC/EN 61000-4-3 V/m	10 (80 MHz ... 2.7 GHz)

Order No.		3RA6970-3B
Connection type		Screw connection
Conductor cross-sections of the AS-i add-on module		
Tools		Pozidriv size 1
Prescribed tightening torque	Nm	0.5 ... 0.6
Conductor cross-sections		
• Solid	mm ²	1 x (0.5 ... 2.5)
	mm ²	2 x (0.5 ... 1.0)
• Finely stranded with end sleeve	mm ²	1 x (0.5 ... 2.5)
	mm ²	2 x (0.5 ... 1.0)
• AWG cables	AWG	1 x (20 ... 12)