

3RA71 Load Feeders with Safety Integrated

General data

Technical specifications

Technical specifications of the **safety electronics** of the 3RA7 load feeders.
The technical specifications of the power section (motor starter protectors, contactors) can be found in the table for "3RA1 Fuseless Load Feeders".

Type		AC basic unit Category 3	DC basic unit Category 3	DC basic unit Category 4	Expansion	Expansion unit, time-delayed
Standards		EN 60204-1, EN 292, EN 954-1, IEC 61508				
Test certificate		TÜV, UL, CSA				
Category according to EN 954-1		3	3	4	As basic unit	As basic unit
Safety Integrated Level (SIL) According to IEC 61508		2	2	3	As basic unit	As basic unit
Rated insulation voltage U_i	V	690				
Rated impulse withstand voltage U_{imp}	kV	6				
Rated power • AC/DC operation at 1.0 x U_s	W	2 ¹⁾				
Operating range • AC operation • DC operation		0.85 - 1.1 x U_s 0.9 - 1.1 x U_s				
Response time • Monitored start • Autostart	ms ms	125 typical ⁽²⁾ 250 typical ⁽²⁾		400 typical ⁽²⁾ 400 typical ⁽²⁾		
Release time • EMERGENCY-STOP	ms	20 typical ⁽³⁾		25 typical		After time has elapsed 100
• Mains failure	ms	100		100		
Recovery time • EMERGENCY-STOP • Mains failure	ms ms s	20 typical 20 typical		400 typical 4		
Mains buffering time	ms	5 (see technical specifications for contactors used)				
Minimum command duration • EMERGENCY-STOP • ON button	ms ms	> 20 typical > 20 typical		> 25 typical > 100 typical		
Conductor cross-section • Finely stranded with end sleeve • Solid	mm ² mm ²	1 x 0.25 ... 2.5 1 x 0.2 ... 2.5				
Tightening torque, M3 terminal screw	Nm	0.5 ... 0.6				
Ambient temperature • During operation • During storage	°C °C	-20 ... +60 -40 ... +80				
Degree of protection		IP20				
Touch protection		Finger-safe				

1) Note the power losses of the respective power section
(see Technical Specifications of the motor starter protectors/contactors).

2) Note the pick-up time for the respective contactor
(see Technical Specifications of the contactors).

3) Note the drop-out time for the respective contactor
(see Technical Specifications of the contactors).