

A3 Technical Data

UMC100

Main Power Lines				
Voltage (three-phase systems)	Max. 1000 V AC Attention: For an U_{imp} of 8 kV and a voltage of 1000 V the device must be used according to Annex H EN60947-1 in the range $600\text{ V} < U_e \leq 1000\text{ V}$. (IT Network) only for overvoltage category II. Otherwise overvoltage category III applies. For voltages > 690V isolated wires have to be used.			
Conductor holes in the current transformers	Max. diameter 11 mm incl. cable isolation			
Set current range for overload protection	UMC alone: 0.24 - 63 A UMC with provided current transformer: 60 - 850 A (see chapter 'Connecting External Current Transformers') Wire size has to be fixed acc. to IEC/EN 60204			
Overload protection for three-phase motors	Acc. to EN/IEC 60947-4-1			
Trip classes, selectable by parameter For trip class 40E selecting the contactor and the protective elements with special care!	5E, 10E, 20E, 30E, 40E (acc. to EN/IEC 60947-4-1)			
Tolerance of tripping time (incl. total ranges of current, operational temperature range, rated frequency)	UMC alone: +/- 10 % UMC with provided current transformer: +/- 14 %			
Tolerance of phase imbalance	+/- 10 %			
Tripping time for phase loss	Trip class: 5 approx. 1.5 s 10 approx. 3 s 20 approx. 6 s 30 approx. 9 s 40 approx. 12 s			
Accuracy of current measurement (range 50 to 200 % of I_e with $I_e > 0.5A$)	UMC alone 3% UMC with provided external current transformer: 4%			
Load per phase:	Approx. 30 mΩ			
Frequency range	50 / 60 Hz Protection of frequency converters is not allowed.			
Short-circuit protection	Provided by external short-circuit protection device), e. g. MO, MCB, MCCB or fuse. Refer also to ABB coordination tables available here: http://www.abbcontrol.fr/coordination_tables/TABLES5.asp			
Cross-section of lines	Acc. to the rated motor current referring EN/IEC 60947-1 and the specific installation condition in EN/IEC 60204 or VDE 298-4 resp.			
Vibration according IEC 60068-2-6 Shock according IEC 60068-2-27	4 g (without LCD Panel) 15 g / 11 ms			
Performance under short circuit conditions. Coordination type 2 Iq: Rated conditional short circuit current.	Iq	100 kA	50 kA	100 kA
	Up	690 V AC	1000 V AC	600 V AC
	Fuse	200 A gG	200 A gG	300A RK5