

According to IEC 60947-3, EN 60947-3, VDE 0660 part 107



Rated Thermal Current $I_U/I_{th}/I_{the}$					A	115
Rated Insulation Voltage U_i ¹					V	690
Rated Impulse Withstand Voltage U_{imp}					kV	6
Rated Operational Current I_e						
AC-21A	Switching of resistive loads, including moderate overloads			A	100	
AC-22A	Switching of combined resistive or low inductive loads including moderate overloads		220 V–500 V 660 V–690 V	A	100 100	
Rated Utilization Category						
AC-2	Slip ring motor starting, reversing and plugging, star-delta starting	3 phase, 3 pole	220 V–240 V 380 V–440 V 500 V 660 V–690 V	kW	30 45 55 55	
AC-3	Direct-on-line starting, star-delta starting	3 phase, 3 pole	220 V–240 V 380 V–440 V 500 V 660 V–690 V	kW	15 30 30 30	
		1 phase, 2 pole	110 V–120 V 220 V–240 V 380 V–440 V	kW	3,7 7,5 13	
AC-4	Direct-on-line starting, reversing, plugging and inching	3 phase, 3 pole	220 V–240 V 380 V–440 V 500 V 660 V–690 V	kW	6 11 11 11	
		1 phase, 2 pole	110 V–120 V 220 V–240 V 380 V–440 V	kW	1,5 3 5,5	
AC-23A	Frequent switching of motors or other high inductive loads	3 phase, 3 pole	220 V–240 V 380 V–440 V 500 V 660 V–690 V	kW	30 45 55 45	
		1 phase, 2 pole	110 V–120 V 220 V–240 V 380 V–440 V	kW	5,5 15 22	
Short Circuit Protection						
Max. fuse size		gG-characteristic			A	125
Rated short-time withstand current		(1 s-current)			A	1300
Max. Permissible Wire Gage - copper wires only						
Single-core or stranded wire					mm ²	35
Flexible wire					mm ²	25
Flexible wire with sleeving in accordance with DIN 46228					mm ²	25

¹ Valid for lines with grounded common neutral termination, overvoltage category III, Other values on request.

Miscellaneous

Minimum Voltage:	on request		
Power loss per contact at I_U :	5,8 W		
Resistance to vibration:	on request		
Resistance to shock:	min. 5 g, 30 ms		
Ambient Temperature of Stages :	open at 100 % I_U/I_{th}		55 °C during 24 hours with peaks up to 60 °C
	enclosed at 100 % I_{the}	up to 4 pole	35 °C during 24 hours with peaks up to 40 °C
	enclosed at 87 % I_{the}	from 5 pole	35 °C during 24 hours with peaks up to 40 °C
Storage temperature:	-40 °C to 85 °C (in case of temperature below -5 °C no shock load permissible)		

Approvals and Standards

IEC 60947 EN 60947				
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USA / Canada



Rated Thermal Current $I_U/I_{th}/I_{the}$				
			A	100
Rated Insulation Voltage U_i				
			V	600
Rated Operational Current I_e				
Ampere Rating	Resistive or low inductive loads		A	100
Max. Permissible Wire Gage - copper wires only				
	Single-core or stranded wire		AWG	2
	Flexible wire: AWG wire (without sleeving)		AWG	3
Ratings				
	Standard motor load, DOL - Rating (similar AC-3)	3 phase 3 pole	110 V – 120 V	10
			220 V – 240 V	20
			440 V – 480 V	30
			550 V – 600 V	40
		1 phase 2 pole	110 V – 120 V	5
			220 V – 240 V	10
			277 V	10
			440 V – 480 V	20
	Heavy motor Load-reversing (similar AC-4)	3 phase 3 pole	110 V – 120 V	7,5
			220 V – 240 V	15
			440 V – 600 V	25
		1 phase 2 pole	110 V – 120 V	3
			220 V – 240 V	7,5
			277 V	7,5

Miscellaneous

Minimum Voltage:	on request		
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Resistance to vibration:	on request		
Resistance to shock:	min. 5 g, 30 ms		
Ambient Temperature of Stages :	open at 100 % I_U/I_{th}		55 °C during 24 hours with peaks up to 60 °C
	enclosed at 100 % I_{the}	up to 4 pole	35 °C during 24 hours with peaks up to 40 °C
	enclosed at 87 % I_{the}	from 5 pole	35 °C during 24 hours with peaks up to 40 °C
Storage temperature:	-40 °C to 85 °C (in case of temperature below -5 °C no shock load permissible)		

Approvals and Standards

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