

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



Rated Thermal Current $I_U/I_{th}/I_{the}$				A	20
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	20
AC-22A	Switching of combined resistive or low inductive loads including moderate overloads		220 V–440 V	A	20
			500 V	A	20
			660 V–690 V		16
AC-15	Switching of control devices, contactors, valves etc.		110 V	A	5
			220 V–240 V	A	5
			380 V–440 V		4
Rated Utilization Category					
AC-2	Slip ring motor starting, reversing and plugging, star-delta starting	3 phase, 3 pole	220 V–240 V	kW	4
			380 V–440 V		7,5
			500 V		10
AC-3	Direct-on-line starting, star-delta starting	3 phase, 3 pole	220 V–240 V	kW	3
			380 V–440 V		5,5
			500 V		5,5
		1 phase, 2 pole	110 V–120 V	kW	0,6
			220 V–240 V		2,2
			380 V–440 V		3
AC-4	Direct-on-line starting, reversing, plugging and inching	3 phase, 3 pole	220 V–240 V	kW	0,55
			380 V–440 V		1,55
			500 V		1,55
		1 phase, 2 pole	110 V–120 V	kW	0,3
			220 V–240 V		0,75
			380 V–440 V		1,5
AC-23A	Frequent switching of motors or other high inductive loads	3 phase, 3 pole	220 V–240 V	kW	3,7
			380 V–440 V		7,5
			500 V		7,5
		1 phase, 2 pole	110 V–120 V	kW	0,75
			220 V–240 V		2,5
			380 V–440 V		3,7
			500 V		4
			660 V–690 V		4
Short Circuit Protection					
Max. fuse size		gG-characteristic		A	25
Rated short-time withstand current		(1 s-current)		A	200
Max. Permissible Wire Gage - copper wires only					
Single-core or stranded wire				mm ²	4
Flexible wire				mm ²	2,5
Flexible wire with sleeving in accordance with DIN 46228				mm ²	2,5

Miscellaneous

Tightening torque of terminal screw:	1,2 Nm (10 lb-in)
Minimum Voltage:	on request
Power loss per contact at I_U :	1,4 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} : 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



USA / Canada



Rated Thermal Current $I_U/I_{th}/I_{the}$		A	20
Rated Insulation Voltage U_i		V	600
Rated Operational Current I_e			
Pilot Duty:		Heavy	VAC A600
Ampere Rating	Resistive or low inductive loads	A	20
Max. Permissible Wire Gage - copper wires only			2 x
Single-core or stranded wire		AWG	10
Flexible wire: AWG wire (without sleeving)		AWG	12
Ratings			
Standard motor load, DOL-Rating (similar AC-3)	3 phase 3 pole	110 V – 120 V 220 V – 240 V 440 V – 480 V 550 V – 600 V	HP 1,5 3 5 5
	1 phase 2 pole	110 V – 120 V 220 V – 240 V 277 V 440 V – 480 V 550 V – 600 V	HP 0,5 1 2 2 2
	3 phase 3 pole	110 V – 120 V 220 V – 240 V 440 V – 600 V	HP 0,5 1 3
Heavy motor Load-reversing (similar AC-4)	1 phase 2 pole	110 V – 120 V 220 V – 240 V 277 V 440 V – 600 V	HP 0,17 0,5 0,6 1,5

Miscellaneous

Tightening torque of terminal screw:	1,2 Nm (10 lb-in)
Minimum Voltage:	on request
Power loss per contact at I_U :	1,4 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} : 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)

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