AUXILIARY CONTACTORS series HX

USE

For circuits in which a large number of NO or NC contacts are re-quired to satisfy the requirements of complex wiring diagrams.

OPERATION AND INSTALLATION Screw mounting to EN 50003 or on 35 mm metal rail EN50022-3 DIN 46277-3 Mounting tilt not exceeding \pm 30° in relation to the vertical Ambient temperature from -5°C to 40°C Altitude up to 2,000 metres Relative humidity not exceeding 50% at 40°C

STANDARDS AND APPROVALS

Compliance with recommendations and standards: IEC 947-1, CEI EN 60947-1, CEI EN 60947-5-1, VDE 0660, BS 60947-5-1, UTE - NCF 63-110, NEMA NBN C63158, AS1029





Control coil codes

➡ Code	F	G	D	U	X	С	W	В	Ζ
50 Hz -V	24	48	110	220	220 240	366	380	440	480 10 500
60 Hz -V	24	58	115	230		440	400	528	

¥ TYPE □	Contac diagram	No.of contacts NO NC	Rated thermal current Ith	alterna 220V 240V	Control in ating curr AC-15 380V 415V	n rent 500V	dir 220V 240V	Control in ect currer DC-13 380V 415V	nt 500∨	Unit weight Kg.	Packs of No
HX1040E 🗆	A1 13 23 33 43 A1 1 1 1 1 A2 14 24 34 44	4 0									
HX1031E 🗆	A1 13 21 33 43 H 1 1 1 1 A2 14 22 34 44	3 1	10 A	0A 3A	3 A 1.5 A	1.5 A 1 A	0.5 A 0.3	0.35 A	A 0.25 A		
HX1022E 🗆	A1 1 21 31 43 A1 1 L L 1 A2 14 22 32 44	2 2	-								

TECHNICAL SPECIFICATIONS AUXILIARY CONTACTS series Hx10

Make time	ms.	10 to 20	
Break time	ms.	10 to 20	
Coil absorption	inrush VA	70	
in alternating current	sealed VA	8	
Coil absorption	inrush W	80	
in alternating current	sealed W	6	
Electric life	1200 man/h Millions of switching cycle	5 s	
Mechanical life	1200 man/h Millions of switching cycle	20 s	
Rated thermal current	Ith A	10	

Current type		maximum operation intensity					
			6to48V	110to127V	220to240V	380to450V	440to500V
	Parallel connection	А	8	8	5	2.5	1.5
		A	6	5	3	1.5	1
	Parallel connection	А	4	1.5	0.7	0.5	0.35
		А	3	1	0.5	0.35	0.25
Make power		А			130		
Break power			6to48V	110to127V	220to240V	380to450V	440to500V
	Parallel connection	А	200	200	155	130	100
		А	60	60	50	36	25
	Parallel connection	А	15	15	0.6	0.4	0.3
		A	0.8	0.8	0.3	0.1	0.08

ACCESSORIES FOR AUXILIARY CONTACTORS series HX

Instantaneous auxiliary contact blocks

	TYPE	Contact diagram	No. Of contacts NA NC		Rated thermal current Ith	Ra 220V 240V	ted curre AC-15 380V 415V	ent le 500V
	IX02	51 61 L. L. 52 62	0 2					
	IX11	53 61 1 L 54 62	1 1					
-	IX20	53 63 54 64	2 0					
	IX04	51 61 71 81	0 4		10 A	3 A	1.5 A	1 A
Side .	IX13	53 61 71 81	1 3					
Contraction of the second	IX22	53 61 71 83 L L 54 62 72 84	2 2					
	IX31	53 6173 83 L + 54 62 74 84	3 1					
	IX40	53 63 73 83 54 64 74 84	4 0					

USER CATEGORIES

Nature of the current	User categories	Typical applications
Alternating current AC-1 I		Non-inductive or low inductive loads, heating element ovens
	AC-2	Slip-ring motors: start up, stop
	AC-3	Cage motors: start up, stop of the motor during running (1)
	AC-4	Cage motors: start-up, reverse-current braking, pulsed switching
	AC-5a	Control of discharge lamps
	AC-5b	Control of incandescent lamps
	AC-6a	Control of transformers
	AC-6b	Control of capacitor batteries
	AC-7a	Light inductive loads in domestic and similar applications
	AC- 7b	Motor loads in domestic applications
	AC-8a	Control of motors for refrigerator hermetic compressors
		with manual reset of the overload release (2)
	AC-8b	Control of motors for refrigerator hermetic compressors with
		automatic rest of the overload release (2)
Direct current	DC-1	Non-inductive or low inductive loads, heating element ovens
	DC-3	Shunt motors: start-up, reverse current braking, pulsed
		switching. Dynamic braking of direct current motors
	DC-5	Motors in series: start-up, reverse current braking, pulsed
		switching. Dynamic braking of direct current motors
	DC-6	Control of incandescent lamps

1)Equipment classified in category AC-3 may be used for occasional pulsed switching or reverse current braking, for limited periods such as those relative to positioning the machine. During these limited periods, the number of these operations must not exceed 5 per minute and exceed 10 in a period of 10 minutes.

2)Motors for refrigerator hermetic compressors are a combination composed of motor and compressor enclosed in the same casing without external shaft, as the motor operates immersed in the coolant.

USER CATEGORIES FOR SWITCHING ELEMENTS

Current type	Category	Typical applications
Alternating current	AC-12	Control of resistive loads and solid state loads with isolation obtained with opto-isolators
	AC-13	Control of solid state loads with isolating transformer
	AC-14 AC-15	Control of small electromagnetic loads (= 72 VA) Control of electromagnetic loads (> 72 VA)
Direct current	DC-12	Control of resistive loads and solid state loads with isolation obtained with opto-isolators
	DC-13 DC-14	Control of electromagnets Control of electromagnetic loads with economizing resistors in the circuit