

FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 450A, AC/DC COIL, 24VAC/DC



Product designation			Power contactor
Product type designation Contact characteristics			B310
Number of poles		pr	4
Rated insulation voltage Ui		nr. V	1000
Rated impulse withstand voltage Uimp		kV	8
		KV	0
Operating frequency	Operational frequency min	Ы⊸	0.E
	Operational frequency min Operational frequency max	Hz Hz	25 400
Conventional free air thermal current Ith	Operational frequency max	<u>П</u> 2	450
		A	430
Operating current	Operational current AC1 (<40°C)	۸	450
	Operational current AC1 (≤40°C) Operational current AC3 (≤440V ≤55°C)	A A	450 320
	Operational current AC3 (\$440V \$55 C)		110
Poted operational power AC1 (T<10°C)	Operational current AC4 (400V)	A	110
Rated operational power AC1 (T≤40°C)	2201/	L\\/	150
	230V 400V	kW kW	158 270
	500V	kW	350
	690V	kW	488
Rated operational power AC3 (T≤55°C)	8907	KVV	400
Rated operational power AC3 (1555 C)	230V	kW	100
	400V	kW	170
	415V	kW	188
	440V	kW	200
	500V	kW	213
	690V	kW	256
	1000V	kW	180
Short-time allowable current for 10s (IEC/EN6		A	2900
Protection fuse	0347-1)		2900
Flotection lase	gG (IEC)	Α	500
	aM (IEC)	A	400
Making capacity (RMS value)	aivi (ILO)	A	3150
Breaking capacity at voltage			3100
Disaming supusity at voltage	Breaking capacity 440V	Α	3000
	Breaking capacity 440 V Breaking capacity 500V	A	2700
	Breaking capacity 500 V	A	2520
Resistance per pole (average value)	Distaining supusity 000 v	mΩ	0.2
Power dissipation per pole (average value)		11122	0.2
. one dissipation per pole (average value)	Power dissipation pole (average value) Ith	W	40.5
	AC3	W	20
Tightening torque for terminals	ACS	v v	20
rightening torque for terrilliais	min	Nm	35
	max	Nm	35 35
	min	lbft	25.8
	max	Ibit	25.8 25.8
	Illax	וטונ	23.0

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max number of wires	simultaneously connectable		nr.	2
Conductor section				
	AWG			
		max		2x 3/0
	ction according to IEC/EN 60529			IP00
Auxiliary contact chara			•	450
Operational current A	,		Α	450
Operating current DC	13	440)/	Δ.	0
Ambient conditions		110V	Α	Screw
Temperature				
emperature	Operating temperature			
	Operating temperature	min	°C	-50
		max	°C	70
	Storage temperature	Пах		7.0
	Ctorage temperature	min	°C	-60
		max	°C	80
/lax altitude			m	3000
Operating position				
. 01		normal		Vertical plan
		allowable		±30°
Nounting				Screw
Veight			g	11.36
Operations				
poranomo				
			Cycles	10000000
Mechanical life Electrical life			Cycles Cycles	10000000 700000
Mechanical life Electrical life Safety related data				
Mechanical life Electrical life Safety related data	0d according to EN/ISO 13489-1		Cycles	700000
Mechanical life Electrical life Safety related data	0d according to EN/ISO 13489-1	rated load	Cycles	700000
Mechanical life Electrical life Safety related data Performance level B1		rated load mechanical load	Cycles	700000 700000 10000000
Mechanical life Electrical life Safety related data Performance level B1 Mirror contats accordi	0d according to EN/ISO 13489-1 ng to IEC/EN 609474-4-1		Cycles	700000 700000 10000000 yes
Mechanical life Electrical life Safety related data Performance level B1 Mirror contats accordi			Cycles	700000 700000 10000000
Mechanical life Electrical life Safety related data Performance level B1 Mirror contats according EMC compatibility C coil operating			Cycles	700000 700000 10000000 yes
Mechanical life Electrical life Bafety related data Performance level B1 Mirror contats accordi EMC compatibility C coil operating	ng to IEC/EN 609474-4-1		Cycles	700000 700000 10000000 yes
Mechanical life Electrical life Safety related data Performance level B1 Mirror contats according EMC compatibility C coil operating	ng to IEC/EN 609474-4-1 of 50/60Hz coil powered at 50Hz		Cycles	700000 700000 10000000 yes
Mechanical life Electrical life Safety related data Performance level B1 Mirror contats according EMC compatibility C coil operating	ng to IEC/EN 609474-4-1	mechanical load	Cycles Cicli Cicli	700000 700000 10000000 yes yes
Mechanical life Electrical life Safety related data Performance level B1 Mirror contats according EMC compatibility C coil operating	ng to IEC/EN 609474-4-1 of 50/60Hz coil powered at 50Hz	mechanical load	Cycles Cicli Cicli	700000 700000 10000000 yes yes
Mechanical life Electrical life Safety related data Performance level B1 Mirror contats according EMC compatibility C coil operating	ng to IEC/EN 609474-4-1 of 50/60Hz coil powered at 50Hz pick-up	mechanical load	Cycles Cicli Cicli	700000 700000 10000000 yes yes
Mechanical life Electrical life Safety related data Performance level B1 Mirror contats according EMC compatibility C coil operating	ng to IEC/EN 609474-4-1 of 50/60Hz coil powered at 50Hz	mechanical load min max	Cycles Cicli Cicli WUs WUs	700000 700000 10000000 yes yes 0.8 1.1
Mechanical life Electrical life Safety related data Performance level B1 Mirror contats according EMC compatibility C coil operating	ng to IEC/EN 609474-4-1 of 50/60Hz coil powered at 50Hz pick-up	mechanical load min max min	Cycles Cicli Cicli WUs WUs WUs	700000 700000 10000000 yes yes 0.8 1.1 0.2
Mechanical life Electrical life Safety related data Performance level B1 Mirror contats according EMC compatibility C coil operating	of 50/60Hz coil powered at 50Hz pick-up	mechanical load min max	Cycles Cicli Cicli WUs WUs	700000 700000 10000000 yes yes 0.8 1.1
Mechanical life Electrical life Safety related data Performance level B1 Mirror contats according EMC compatibility C coil operating	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz	mechanical load min max min	Cycles Cicli Cicli WUs WUs WUs	700000 700000 10000000 yes yes 0.8 1.1 0.2
Mechanical life Electrical life Safety related data Performance level B1 Mirror contats according EMC compatibility C coil operating	of 50/60Hz coil powered at 50Hz pick-up	mechanical load min max min	Cycles Cicli Cicli WUs WUs WUs	700000 700000 10000000 yes yes 0.8 1.1 0.2
Mechanical life Electrical life Safety related data Performance level B1 Mirror contats according EMC compatibility C coil operating	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz	mechanical load min max min max	Cycles Cicli Cicli WUs WUs WUs WUs	700000 700000 10000000 yes yes 0.8 1.1 0.2 0.6
Mechanical life Electrical life Safety related data Performance level B1	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz	mechanical load min max min max min max	Cycles Cicli Cicli WUs WUs WUs WUs	700000 700000 10000000 yes yes 0.8 1.1 0.2 0.6
Mechanical life Electrical life Safety related data Performance level B1 Mirror contats accordi EMC compatibility AC coil operating	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up	mechanical load min max min max min max	Cycles Cicli Cicli WUs WUs WUs WUs	700000 700000 10000000 yes yes 0.8 1.1 0.2 0.6
Mechanical life Electrical life Safety related data Performance level B1 Mirror contats accordi EMC compatibility AC coil operating	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up	mechanical load min max min max min max	Cycles Cicli Cicli **Us **Us **Us **Us **Us **Us	700000 700000 10000000 yes yes 0.8 1.1 0.2 0.6
Mechanical life Electrical life Safety related data Performance level B1 Mirror contats accordicate EMC compatibility AC coil operating AC operating voltage	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up	mechanical load min max min max min max min max	Cycles Cicli Cicli WUS WUS WUS WUS WUS WUS	700000 700000 100000000 yes yes 0.8 1.1 0.2 0.6
Mechanical life Electrical life Safety related data Performance level B1 Mirror contats accordi EMC compatibility AC coil operating AC operating voltage	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up	mechanical load min max min max min max min max	Cycles Cicli Cicli WUS WUS WUS WUS WUS WUS	700000 700000 100000000 yes yes 0.8 1.1 0.2 0.6
Mechanical life Electrical life Safety related data Performance level B1 Mirror contats accordi EMC compatibility AC coil operating	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out	mechanical load min max min max min max min max	Cycles Cicli Cicli WUS WUS WUS WUS WUS WUS	700000 700000 100000000 yes yes 0.8 1.1 0.2 0.6

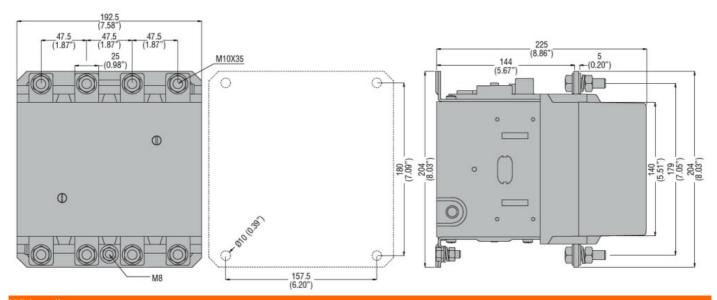


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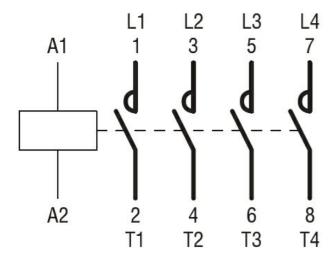
			in-rush	VA	300
			holding	VA	10
Dissipation at holding s	≤20°C 50Hz			W	10
DC coil operating					
DC rated control voltag	je				
			min	V	24
DC operating voltage					
	pick-up			0/11-	0.0
			min	%Us %Us	0.8 1.10
	drop-out		max	%US	1.10
	drop-out		min	%Us	0.2
			max	%Us	0.60
Average coil consuptio	n ≤20°C		Пах	7000	0.00
7 troi ago con concapac	=20 0		in-rush	W	300
			holding	W	10
Max cycles frequency					
Mechanical operations				Cycles/h	2400
Operating times					
Average time for Us co	ntrol				
	in AC				
		Closing NO			
			min	ms	80
			max	ms	120
		Opening NO			
			min	ms	30
			max	ms	75
	in DC	01 1 110			
		Closing NO			0.0
			min	ms	80
		Opening NO	max	ms	120
		Opening NO	min	ms	30
			max	ms	75
UL technical data			max	1113	7.5
Full-load current (FLA)	for three-phase A	C motor			
			at 480V	Α	301
			at 600V	Α	289
Yielded mechanical pe	rformance				
·	for three-phase A	AC motor			
			at 200/208V	hp	100
			at 220/230V	hp	125
			at 460/480V	hp	250
			at 575/600V	hp	300
General USE	_				
	Contactor				
			AC current	Α	450
Other features					
Pollution degree					3
Dimensions					

ENERGY AND AUTOMATION

FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 450A, AC/DC COIL,



Wiring diagrams



Certifications and compliance

Certifications

CSA C22.2 n° 60947-1

CSA C22.2 n° 60947-4-1

IEC/EN 60947-1

IEC/EN 60947-4-1

UL 60947-1

UL 60947-4-1

Compliance

CCC

cULus

EAC

ETIM 6 classification

EC000066 - Power contactor, AC switching