

# FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 550A, AC/DC COIL,



Product designation Product type designation		Power contactor B400
Contact characteristics		
Number of poles	nr.	4
Rated insulation voltage Ui	V	1000
Rated impulse withstand voltage Uimp	kV	8
Operating frequency		
Operational frequency min	Hz	25
Operational frequency max	Hz	400
Conventional free air thermal current Ith	Α	550
Operating current		
Operational current AC1 (≤40°C)	Α	550
Operational current AC3 (≤440V ≤55°C)	Α	420
Operational current AC4 (400V)	Α	133
Rated operational power AC1 (T≤40°C)	_	
230V	kW	200
400V	kW	345
500V	kW	452
690V	kW	598
Rated operational power AC3 (T≤55°C)		
230V	kW	130
400V	kW	225
415V	kW	247
440V	kW	263
500V	kW	271
690V	kW	352
1000V	kW	208
Short-time allowable current for 10s (IEC/EN60947-1)	Α	3600
Protection fuse		
gG (IEC)	Α	630
aM (IEC)	Α	400
Making capacity (RMS value)	Α	4200
Breaking capacity at voltage		
Breaking capacity 440V	Α	4000
Breaking capacity 500V	Α	3400
Breaking capacity 690V	A	3360
Resistance per pole (average value)	mΩ	0.2
Power dissipation per pole (average value)		
Power dissipation pole (average value) Ith	W	52
AC3	W	32
Tightening torque for terminals		
min	Nm	35
max	Nm	35
min	lbft	25.8
max	lbft	25.8



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max number of wires	simultaneously connectable		nr.	2
onductor section				
	AWG			
		max		2x 300 kcmil
	ction according to IEC/EN 60529			IP00
uxiliary contact chara			•	550
Operational current A	,		Α	550
Operating current DC	13	110V	٨	Corour
Ambient conditions		1100	Α	Screw
Temperature				
emperature	Operating temperature			
	operating temperature	min	°C	-50
		max	°C	70
	Storage temperature			
		min	°C	-60
		max	°C	80
Max altitude			m	3000
Operating position				
		normal		Vertical plan
		allowable		±30°
Mounting				Screw
Weight			g	11.1
Operations				
•			Cycles	1000000
Mechanical life			Cycles	10000000
Mechanical life Electrical life			Cycles Cycles	10000000 700000
Mechanical life Electrical life Safety related data	0d according to FN/ISO 13489-1			
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	0d according to EN/ISO 13489-1	rated load mechanical 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 accordi EMC compatibility AC coil operating			Cycles	700000 700000 10000000 yes
Mechanical life Electrical life Safety related data Performance level B1 Mirror contats accordi EMC compatibility AC coil operating			Cycles	700000 700000 10000000 yes
Mechanical life Electrical life Safety related data Performance level B1 Mirror contats accordi EMC compatibility AC 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 AC 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 AC 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 accordi EMC compatibility AC 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 AC 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 accordi EMC compatibility AC 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 AC 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 AC coil operating	of 50/60Hz coil powered at 50Hz pick-up	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 Bafety related data Performance level B1 Mirror contats accordi 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  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 according 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	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	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 according 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 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 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	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

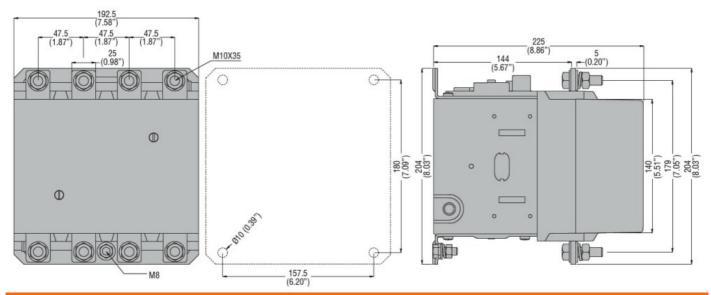


# FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 550A, AC/DC COIL, 24VAC/DC

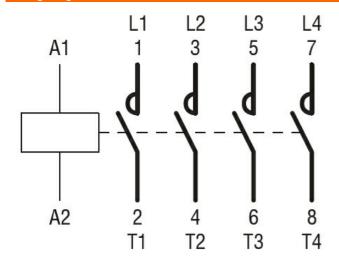
			in-rush	VA	300
			holding	VA	10
Dissipation at holding s	≦20°C 50Hz			W	10
DC coil operating					
DC rated control voltage	je				
DO			min	V	24
DC operating voltage	pick-up				
	pick-up		min	%Us	0.8
			max	%Us	1.10
	drop-out				
	·		min	%Us	0.2
			max	%Us	0.60
Average coil consuption	n ≤20°C				
			in-rush	W	300
			holding	W	10
Max cycles frequency				Cycles /b	2400
Mechanical operations Operating times				Cycles/h	1 2400
Average time for Us co	ontrol				
7.Wordgo timo for 60 00	in AC				
		Closing NO			
		Ü	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					. 0
Full-load current (FLA)	for three-phase A	C motor			
			at 480V	Α	414
			at 600V	Α	382
Yielded mechanical pe					
	for three-phase	AC motor			
			at 200/208V	hp	125
			at 220/230V	hp	150
			at 460/480V	hp	350
General USE			at 575/600V	hp	400
General USE	Contactor				
	COHIACIOI		AC current	Α	550
Other features			AC CUITEIIL		330
Pollution degree					3
Dimensions					

**ENERGY AND AUTOMATION** 

## FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 550A, AC/DC COIL, 24VAC/DC



#### 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