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THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 420A, AC/DC COIL, 380... 415VAC/DC



Product designation			Power contactor
Product type designation			B400
Contact characteristics			
Number of poles		nr.	3
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		А	550
Operating current			
	Operational current AC1 (≤40°C)	А	550
	Operational current AC3 (≤440V ≤55°C)	А	420
	Operational current AC4 (400V)	А	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)			3600
Protection fuse	· · · · · · · · · · · · · · · · · · ·		
	gG (IEC)	А	630
	aM (IEC)	А	400
Making capacity (RMS value)	· · · · · · · · · · · · · · · · · · ·	А	4200
Breaking capacity at voltage			
	Breaking capacity 440V	А	4000
	Breaking capacity 500V	А	3400
	Breaking capacity 690V	А	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
Fightening torque for terminals			
5 3 · · · · · · · · · · · · · · · · · ·	min	Nm	35
	max	Nm	35
	min	lbft	25.8
	max	lbft	25.8

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				2
max number of wires s	simultaneously connectable		nr.	—
Conductor section				
	AWG			
		max		2x 300 kcmil
	tion according to IEC/EN 60529			IP00
Auxiliary contact chara				
Operational current A			А	550
Operating current DC1	13			
		110V	А	Screw
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	70
	Storage temperature		• •	<u> </u>
		min	°C °C	-60
		max	°C	80
Max altitude			m	3000
Operating position				Vortical alar
		normal allowable		Vertical plan ±30°
Mounting		allowable		Screw
Weight			~	9.56
Operations			g	3.30
			Cycles	1000000
Mechanical life			Cycles	10000000
Mechanical life Electrical life			Cycles Cycles	10000000 700000
Mechanical life Electrical life Safety related data	0d according to EN/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 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 EMC compatibility			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	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 EMC compatibility AC 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 accordi EMC compatibility AC 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 accordi 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 accordi EMC compatibility AC coil operating	ng to IEC/EN 609474-4-1 of 50/60Hz coil powered at 50Hz	mechanical load	Cycles Cicli Cicli %Us	700000 700000 10000000 yes yes 0.8
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 pick-up	mechanical load	Cycles Cicli Cicli %Us	700000 700000 10000000 yes yes 0.8
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 pick-up	mechanical load	Cycles Cicli Cicli %Us %Us	700000 700000 10000000 yes yes 0.8 1.1
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 pick-up	mechanical load min max min	Cycles Cicli Cicli Sicli	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	ng to IEC/EN 609474-4-1 of 50/60Hz coil powered at 50Hz pick-up drop-out	mechanical load min max min	Cycles Cicli Cicli Sicli	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	ng to IEC/EN 609474-4-1 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 Sicli	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	ng to IEC/EN 609474-4-1 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 %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 accordi EMC compatibility AC coil operating	ng to IEC/EN 609474-4-1 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 %Us %Us %Us %Us %Us %Us	700000 700000 10000000 yes yes 0.8 1.1 0.2 0.6 0.8 1.1
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 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 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	ng to IEC/EN 609474-4-1 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 0.8 1.1
Mechanical life Electrical life Safety related data Performance level B1 Mirror contats accordi EMC compatibility AC coil operating AC operating voltage	ng to IEC/EN 609474-4-1 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 %Us %Us %Us %Us %Us %Us	700000 700000 10000000 yes yes 0.8 1.1 0.2 0.6 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	ng to IEC/EN 609474-4-1 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 %Us %Us %Us %Us %Us %Us %Us %Us %Us	700000 700000 10000000 yes yes 0.8 1.1 0.2 0.6 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	ng to IEC/EN 609474-4-1 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 min max	Cycles Cicli Cicli Sicli Sicli Sicli Sicli Sicli Sicli Cicli Cicli Cicli Cicli Sicli	700000 700000 10000000 yes yes 0.8 1.1 0.2 0.6 0.8 1.1 0.2 0.6 300
Mechanical life Electrical life Safety related data Performance level B1	ng to IEC/EN 609474-4-1 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 %Us %Us %Us %Us %Us %Us %Us %Us %Us	700000 700000 10000000 yes yes 0.8 1.1 0.2 0.6 0.8 1.1 0.2 0.6

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THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 420A, AC/DC COIL, 380...

TION

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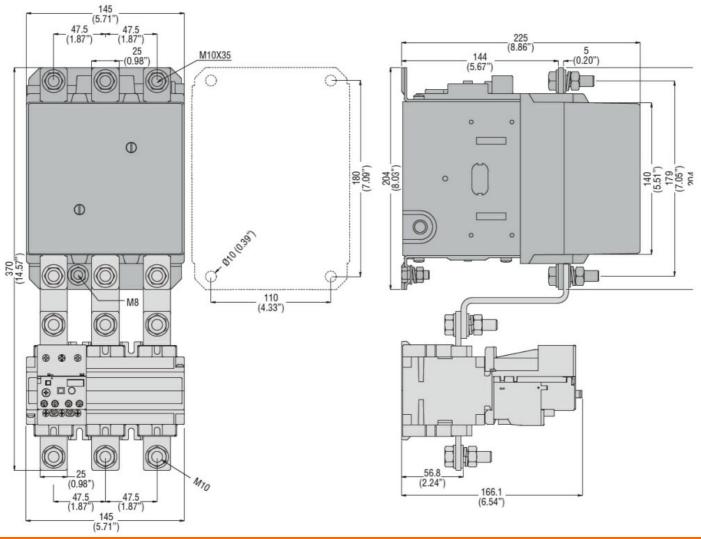
			in-rush	VA	300
			holding	VA	10
Dissipation at holding :	≤20°C 50Hz			W	10
DC coil operating					
DC rated control voltage	ge				
			min	V	24
DC operating voltage					
	pick-up				
			min	%Us	0.8
			max	%Us	1.10
	drop-out				
			min	%Us	0.2
			max	%Us	0.60
Average coil consuption	on ≤20°C				
			in-rush	W	300
			holding	W	10
Max cycles frequency					
Mechanical operations				Cycles/h	1 2400
Operating times					
Average time for Us co					
	in AC				
		Closing NO			
			min	ms	80
			max	ms	120
		Opening NO			
			min	ms	30
			max	ms	75
	in DC				
		Closing NO			
			min	ms	80
			max	ms	120
		Opening NO			
			min	ms	30
Literature to the last			max	ms	75
UL technical data	fouthing where A	C mater			
Full-load current (FLA)	ior three-phase A			Δ.	44.4
			at 480V	A	414
Violded mechanical	rformonco		at 600V	A	382
Yielded mechanical pe		AC motor			
	for three-phase			<b>b</b> <i>w</i>	105
			at 200/208V	hp	125
			at 220/230V	hp	150
			at 460/480V	hp	350
			at 575/600V	hp	400
General USE	Contector				
	Contactor			۸	550
Other feetures			AC current	A	550
Other features					2
Pollution degree					3
Dimensions					

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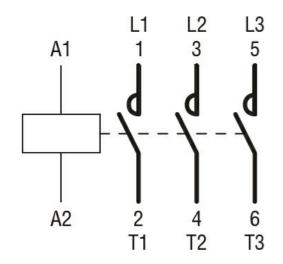


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Wiring diagrams



## 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	

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The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding



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	UL 60947-4-1	
Compliance		
	CCC	
	cULus	
	EAC	
ETIM 6 classifica	on	

EC000066 - Power contactor, AC switching