



Product designation Product type designation			Power contactor B310
Contact characteristics			B310
Number of poles		Nr.	3
Rated insulation voltage Ui IEC/EN		V	1000
Rated impulse withstand voltage Uimp		kV	8
Operational frequency			
	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith		Α	450
Operational current le			
	AC-1 (≤40°C)	Α	450
	AC-1 (≤55°C)	Α	370
	AC-1 (≤70°C)	Α	300
	AC-3 (≤440V ≤55°C)	Α	320
	AC-4 (400V)	Α	150
Rated operational power AC-3 (T≤55°C)			
	230V	kW	100
	400V	kW	170
	415V	kW	188
	440V	kW	200
	500V	kW	213
	690V	kW	256
7	1000V	kW	180
Rated operational power AC-1 (T≤40°C)	2001/		
	230V	kW	158
	400V	kW	270
	500V	kW	350
IFC many commant to in DC4 with 1/D < 4 may with 4 males in series	690V	kW	488
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series	75\/	۸	275
	75V	A	375
	110V	A	195
	220V	A	
	330V 460V	A A	
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series	400 V		<b></b>
TEO MAX GUITERILIE III DOT WILL LITT 2 THIS WILL 2 POICS III SCHES	75V	Α	375
	110V	A	350
	220V	A	300
	330V	A	
	460V	A	<del></del>
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series	₹001	- ' '	
out of the police in solice	75V	Α	375
	110V	A	350
	220V	A	350
	2201		300



11B31000440

# THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 320A, AC/DC COIL, 440...480VAC/DC

	330V	Α	300
	460V	Α	
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
	75V	Α	375
	110V	Α	350
	220V	Α	350
	330V	Α	350
	460V	Α	300
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
	75V	Α	310
	110V	Α	170
	220V	Α	
	330V	Α	
	460V	Α	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
	75V	Α	310
	110V	Α	290
	220V	Α	230
	330V	Α	
	460V	Α	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series			
	75V	Α	310
	110V	Α	310
	220V	Α	290
	330V	Α	230
	460V	Α	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series			
	75V	Α	310
	110V	Α	310
	220V	Α	310
	330V	Α	230
	460V	A	230
Short-time allowable current for 10s (IEC/EN60947-1)		Α	2900
Protection fuse			
	gG (IEC)	Α	500
	aM (IEC)	Α	400
Making capacity (RMS value)		Α	3150
Breaking capacity at voltage			
	440V	Α	3000
	500V	Α	2700
	690V	Α	2520
Resistance per pole (average value)		mΩ	0.2
Power dissipation per pole (average value)			
	Ith	W	40.5
	AC-3	W	20
Tightening torque for terminals			
	min	Nm	35
	max	Nm	35
	min	lbin	25.8
	max	lbin	25.8
Tightening torque for coil terminal			
	min	Nm	1
	max	Nm	1



		min	lbin	0.74
		max	Ibin	0.74
	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			
		max		2x 3/0
	ction according to IEC/EN 60529			IP00
Mechanical features				
Operating position				
		normal		Vertical plan
<del></del>		allowable		±30°
Fixing				Screw
Weight			g	9400
Conductor section	AMO /Leasthean Leasthean			
	AWG/kcmil conductor section			0.00
Oneroliene		max		2x 3/0
Operations  Mechanical life			a	10000000
			cycles	10000000
Electrical life			cycles	700000
Safety related data	Od coording to FN/ICO 42400 4			
Performance level B1	0d according to EN/ISO 13489-1	ادعا ادعاء		700000
		rated load	cycles	700000
		mechanical load	cycles	10000000
Mirror contato cocardi	ina to IEC/EN 600.474.4.4			
Mirror contats accordi	ing to IEC/EN 609474-4-1			yes
EMC compatibility	ing to IEC/EN 609474-4-1			yes
EMC compatibility AC coil operating				
EMC compatibility		min	V	yes
EMC compatibility AC coil operating		min	V	yes 440
EMC compatibility AC coil operating Rated AC voltage at 5		min max	V V	yes
EMC compatibility AC coil operating Rated AC voltage at 5	50/60Hz, 60Hz			yes 440
EMC compatibility AC coil operating	of 50/60Hz coil powered at 50Hz			yes 440
EMC compatibility AC coil operating Rated AC voltage at 5	50/60Hz, 60Hz	max	V	yes 440 415
EMC compatibility AC coil operating Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz	max min	V %Us	yes 440 415
EMC compatibility AC coil operating Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz pick-up	max	V	yes 440 415
EMC compatibility AC coil operating Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz	max min max	V %Us %Us	yes 440 415 80 110
EMC compatibility AC coil operating Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz pick-up	max min max min	V %Us %Us %Us	yes  440 415  80 110 20
EMC compatibility AC coil operating Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz pick-up	max min max	V %Us %Us	yes 440 415 80 110
EMC compatibility AC coil operating Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz pick-up  drop-out  of 50/60Hz coil powered at 60Hz	max min max min	V %Us %Us %Us	yes  440 415  80 110 20
EMC compatibility AC coil operating Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz pick-up	min max min max	V %Us %Us %Us %Us	yes  440 415  80 110 20
EMC compatibility AC coil operating Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz pick-up  drop-out  of 50/60Hz coil powered at 60Hz	min max min max	V  %Us %Us %Us %Us %Us	yes  440 415  80 110  20 60
EMC compatibility AC coil operating Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz pick-up  drop-out  of 50/60Hz coil powered at 60Hz pick-up	min max min max	V %Us %Us %Us %Us	yes  440 415  80 110  20 60
EMC compatibility AC coil operating Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz pick-up  drop-out  of 50/60Hz coil powered at 60Hz	min max min max	%Us %Us %Us %Us %Us	yes  440 415  80 110  20 60  80 110
EMC compatibility AC coil operating Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz pick-up  drop-out  of 50/60Hz coil powered at 60Hz pick-up	min max min max min max	V  %Us %Us %Us %Us %Us	yes  440 415  80 110  20 60
EMC compatibility AC coil operating Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz pick-up  drop-out  of 50/60Hz coil powered at 60Hz pick-up  drop-out	min max min max min max min max min min max	%Us %Us %Us %Us %Us %Us	yes  440 415  80 110  20 60  80 110  20
EMC compatibility AC coil operating Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz pick-up  drop-out  of 50/60Hz coil powered at 60Hz pick-up  drop-out  drop-out	min max min max min max min max min min max	%Us %Us %Us %Us %Us %Us	yes  440 415  80 110  20 60  80 110  20
EMC compatibility AC coil operating Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz pick-up  drop-out  of 50/60Hz coil powered at 60Hz pick-up  drop-out	min max min max min max min max min min max	%Us %Us %Us %Us %Us %Us	yes  440 415  80 110  20 60  80 110  20
EMC compatibility AC coil operating Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz pick-up  drop-out  of 50/60Hz coil powered at 60Hz pick-up  drop-out  drop-out	min max min max min max min max min max	%Us %Us %Us %Us %Us %Us %Us	yes  440 415  80 110  20 60  80 110  20 60
EMC compatibility AC coil operating Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz pick-up  drop-out  of 50/60Hz coil powered at 60Hz pick-up  drop-out  of 60Hz coil powered at 60Hz pick-up	min max min max min max min max min max min max	%Us %Us %Us %Us %Us %Us %Us	yes  440 415  80 110  20 60  80 110  20 60  80
EMC compatibility AC coil operating Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz pick-up  drop-out  of 50/60Hz coil powered at 60Hz pick-up  drop-out  drop-out	min max min max min max min max min max min max	%Us %Us %Us %Us %Us %Us %Us	yes  440 415  80 110  20 60  80 110  20 60  80

AC average coil consumption at 20°C

of 50/60Hz coil powered at 50Hz

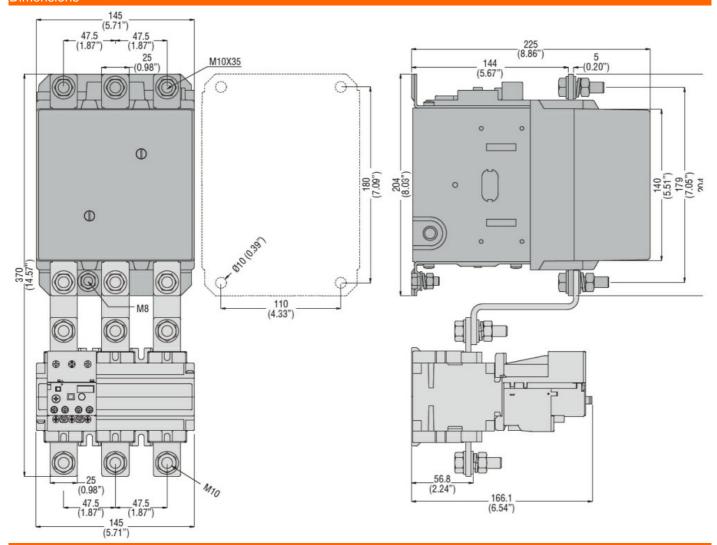


			in-rush	VA	300
			holding	VA	10
	of 50/60Hz coil power	ered at 60Hz	<u> </u>		
			in-rush	VA	300
			holding	VA	10
Dissipation at holding	<20°C 50Hz		Holding	W	10
DC coil operating	320 C 30112			VV	10
DC rated control voltage	ge				
			min	V	440
			max	V	415
DC operating voltage					
	pick-up				
			min	%Us	80
			max	%Us	110
	drop-out			,,,,,	
	arop out		min	%Us	20
A	11		max	%Us	60
Average coil consump	tion ≤20°C				
			in-rush	W	300
			holding	W	10
Max cycles frequency					
Mechanical operation				cycles/h	2400
Operating times					
Average time for Us co	ontrol				
Avorago umo for co oc	in AC				
	III AC	Clasina NO			
		Closing NO			0.0
			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			0
		Opening 110	min	ms	30
			max	ms	75
UL technical data			illax	1110	10
	for three where AC	otor			
Full-load current (FLA)	i ioi iniee-phase AC m	UUI			004
			at 480V	Α	301
			at 600V	Α	289
Yielded mechanical pe	erformance				
	for three-phase AC r	notor			
			200/208V	HP	100
			220/230V	HP	125
			460/480V	HP	250
			575/600V	HP	300
General USE			2. 3, 330 V		
Jeneral UJL	Contactor				
	Contactor		A .	Α	450
			AC current	A	450
Short-circuit protection					
	Standard fault				
			Short circuit current	kA	18



		Fuse rating	Α	800
		Fuse class		L
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	70
	Storage temperature			
		min	°C	-60
		max	°C	80
Max altitude			m	3000
Resistance & Protect	tion			
Pollution degree				3

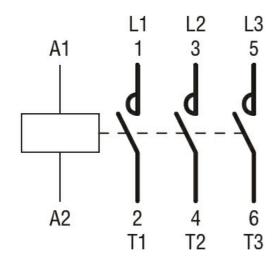
#### Dimensions



Wiring diagrams

**ENERGY AND AUTOMATION** 

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 320A, AC/DC COIL, 440...480VAC/DC



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Compliance

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

Certificates

CCC

cULus

EAC

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching