



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		А	450
Operational current le			
	AC-1 (≤40°C)	А	450
	AC-1 (≤55°C)	А	370
	AC-1 (≤70°C)	А	300
	AC-3 (≤440V ≤55°C)	А	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
	1000V	kW	180
Rated operational power AC-1 (T≤40°C)			
	230V	kW	158
	400V	kW	270
	500V	kW	350
	690V	kW	488
IEC max current le in DC1 with $L/R \le 1$ ms with 1 poles in series			
	75V	A	375
	110V	A	195
	220V	A	
	330V	A	
	460V	A	
IEC max current le in DC1 with $L/R \le 1$ ms with 2 poles in series	751/	•	075
	75V	A	375
	110V	A	350
	220V	A	300
	330V	A	
IFC may current to in DC1 with L/D < 1mg with 2 palog in agrice	460V	A	
IEC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series	75V	۸	375
		A	375
	110V	A	350
	220V	A	350



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	330V	Α	300
	460V	А	
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
	75V	А	375
	110V	A	350
	220V	A	350
	330V		
		A	350
	460V	A	300
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 1 poles in series			
	75V	А	310
	110V	Α	170
	220V	Α	
	330V	А	
	460V	А	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series	1001		
	75V	۸	310
		A	
	110V	Α	290
	220V	А	230
	330V	Α	
	460V	Α	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series			
	75V	А	310
	110V	A	310
	220V	A	290
	330V	A	230
	460V	A	
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 4 poles in series			
	75V	Α	310
	110V	А	310
	220V	А	310
	330V	А	230
	460V	A	230
Short-time allowable current for 10s (IEC/EN60947-1)	1001	A	2900
		~	2900
Protection fuse	• (1 - •)	_	
	gG (IEC)	А	500
	aM (IEC)	Α	400
Making capacity (RMS value)		А	3150
Breaking capacity at voltage			
· · -	440V	А	3000
	500V	A	2700
	690V	A	2520
Resistance per pole (average value)	030 v	 mΩ	0.2
		11152	0.2
Power dissipation per pole (average value)			
	lth	W	40.5
	AC-3	W	20
Tightening torque for terminals			
	min	Nm	35
	max	Nm	35
	min	Ibin	25.8
	max	Ibin	25.8
Tightoning torque for coil terminal	Παλ		20.0
Tightening torque for coil terminal		N 1	4
	min	Nm	1
	max	Nm	1

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IE (AC3) = 320A, AC/DC COIL,
48VAC/DC

		min	lbin Ibin	0.74
Max number of wires (simultaneously connectable	max	Nr.	0.74
Conductor section			111.	۷
	AWG/Kcmil			
		max		2x 3/0
	tion according to IEC/EN 60529			IP00
Mechanical features				
Operating position				.,
		normal		Vertical plan
Fixing		allowable		±30° Screw
Weight	<u> </u>		g	9490
Conductor section			Э	0400
	AWG/kcmil conductor section			
		max		2x 3/0
Operations				
Mechanical life			cycles	1000000
Electrical life			cycles	700000
Safety related data				
Performance level B1	0d according to EN/ISO 13489-1			700000
		rated load mechanical load	cycles	700000 10000000
Mirror contats accordi	ng to IEC/EN 609474-4-1		cycles	yes
EMC compatibility				yes
AC coil operating				,
Rated AC voltage at 5	0/60Hz		V	48
AC operating voltage				
-	of 50/60Hz coil powered at 50Hz			
	pick-up			
		min	%Us	80
		max	%Us	110
	drop-out	min	%Us	20
		min max	%Us %Us	20 60
	of 50/60Hz coil powered at 60Hz	Παλ	/003	00
	pick-up			
	FF	min	%Us	80
		max	%Us	110
	drop-out			
		min	%Us	20
		max	%Us	60
	of 60Hz coil powered at 60Hz			
	pick-up	min	%Us	80
		max	%Us %Us	80 110
		Παλ	/003	
	dron-out			
	drop-out	min	%Us	20
	drop-out	min max	%Us %Us	20 60
AC average coil consu				
AC average coil consu				
AC average coil consu	umption at 20°C			



	(= 0 (0 0)))				
	of 50/60Hz coil pow	ered at 60Hz			
			in-rush	VA	300
			holding	VA	10
Dissipation at holding	≤20°C 50Hz			W	10
DC coil operating					10
					40
DC rated control voltage	ge			V	48
DC operating voltage					
	pick-up				
			min	%Us	80
			max	%Us	110
	dran out		Пих	/000	110
	drop-out			0/11	
			min	%Us	20
			max	%Us	60
Average coil consump	tion ≤20°C				
			in-rush	W	300
				Ŵ	10
Mose ou obra fuero			holding	VV	
Max cycles frequency					
Mechanical operation				cycles/h	2400
Operating times					
Average time for Us co	ontrol				
	in AC				
		Closing NO			
			min	ms	80
			max	ms	120
		Opening NO			
		1 0	min	ms	30
			max	ms	75
			IIIdA	1113	15
	in DC				
		Closing NO			
			min	ms	80
			max	ms	120
		Opening NO			
		oponing ito	min	ms	30
			max	ms	75
UL technical data					
Full-load current (FLA)	for three-phase AC n	notor			
			at 480V	А	301
			at 600V	A	289
Yielded mechanical pe	rformanco		a. 000 V		200
neideu mechanical pe					
	for three-phase AC	motor			
			200/208V	HP	100
			220/230V	HP	125
			460/480V	HP	250
			575/600V	HP	300
0			575/0000	1.11	500
General USE					
	Contactor				
			AC current	А	450
Short-circuit protection	n fuse, 600V				
	Standard fault				
	Stanuaru lault		Oh aut almassite server t	Ι. Λ	4.0
			Short circuit current	kA	18
			Fuse rating	А	800
			Fuse class		L
Ambient conditions					

Temperature

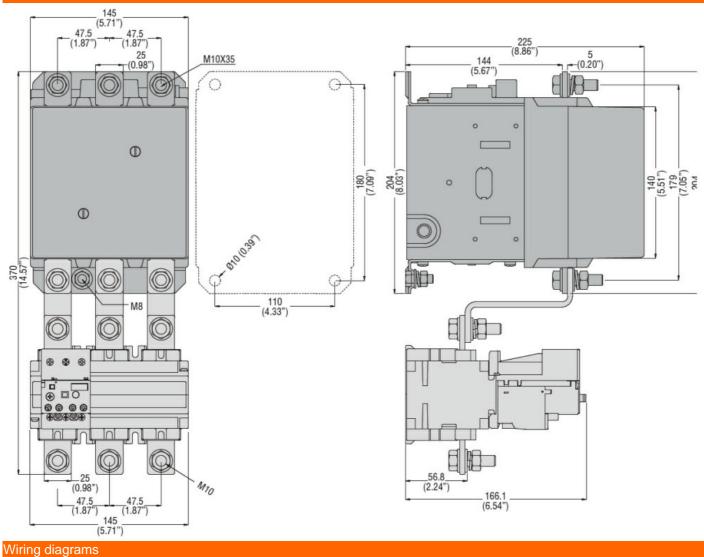
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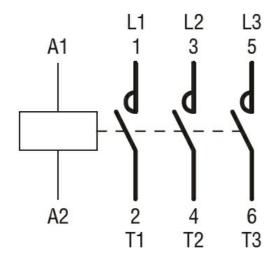
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Operating temperature			
	min	°C	-50
	max	°C	70
Storage temperature			
	min	°C	-60
	max	°C	80
Max altitude		m	3000
Resistance & Protection			
Pollution degree			3

Dimensions







Certifications and compliance

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