



Product designation			Power contactor
Product type designation			B310
Contact characteristics		Nr.	3
Number of poles Rated insulation voltage Ui IEC/EN		V	1000
Rated insulation voltage of IEC/EN Rated impulse withstand voltage Uimp		kV	8
Operational frequency		K V	0
Operational frequency	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith	IIIdX	A	450
Operational current le		- , ,	100
Operational cultoric to	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
	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 = 1ms with 1 poles in series	,	_	
	75V	A	375
	110V	A	195
	220V	A	
	330V	A	
IEC max current le in DC1 with L/R = 1ms with 2 poles in series	460V	Α	
The max current le in DOT with L/R = 11115 with 2 poles in series	75V	Α	375
	110V	A	375 350
	220V	A	300
	330V	A	
	460V	A	
IEC max current le in DC1 with L/R = 1ms with 3 poles in series	-TOO V	, ,	
canon to m bot man by man o poloo in conco	75V	Α	375
	110V	Α	350
	220V	Α	350
	220 1		300



	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	A	300	
IFC many asymmetric in DC2 DC5 with L/D. After with A nales in acries	400 V	Α	300	
IEC max current le in DC3-DC5 with L/R = 15ms with 1 poles in series	751/	^	040	
	75V	A	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				
120 max current to in 200 200 with 2/1 = 10m3 with 5 poics in 3cmc3	75V	Α	310	
	110V	A	310	
	220V	A	290	
	330V	A	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	Α	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)	am (120)	A	3150	
Breaking capacity (NNS value)			3130	
Distancy supports at voltage	440V	Α	3000	
	500V		2700	
		Α		
		Λ		
	690V	A	2520	
Resistance per pole (average value)		A m?	0.2	
Resistance per pole (average value) Power dissipation per pole (average value)	690V	m?	0.2	
	690V	m? W	0.2 40.5	
Power dissipation per pole (average value)	690V	m?	0.2	
	690V	m? W	0.2 40.5	
Power dissipation per pole (average value)	690V	m? W	0.2 40.5	
Power dissipation per pole (average value)	690V Ith AC3	m? W W	0.2 40.5 20	
Power dissipation per pole (average value)	690V Ith AC3	m? W W	0.2 40.5 20 35	
Power dissipation per pole (average value)	Ith AC3 min max min	m? W W Nm Nm Ibin	0.2 40.5 20 35 35 25.8	
Power dissipation per pole (average value) Tightening torque for terminals	Ith AC3 min max	m? W W	0.2 40.5 20 35 35	
Power dissipation per pole (average value)	Ith AC3 min max min max	m? W W Nm Nm Ibin Ibin	0.2 40.5 20 35 35 25.8 25.8	
Power dissipation per pole (average value) Tightening torque for terminals	Ith AC3 min max min	m? W W Nm Nm Ibin	0.2 40.5 20 35 35 25.8	



		min	lbin	0.74
		max	Ibin	0.74
Max number of wires s	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			
		max		2x 3/0
	tion according to IEC/EN 60529			IP00
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw
Weight			g	9650
Conductor section				
	AWG/kcmil conductor section			
		max		2x 3/0
Operations				
Mechanical life			cycles	10000000
Electrical life			cycles	700000
Safety related data				
	0d according to EN/ISO 13489-1			
	3	rated load	cycles	700000
		mechanical load	cycles	10000000
Mirror contats according	ng to IEC/EN 609474-4-1		0,0.00	yes
EMC compatibility	119 10 120/211 000 17 1 1			yes
AC coil operating				ycs
Rated AC voltage at 50	0/60Hz 60Hz			
rated no voltage at of	0/00112, 00112	min	V	110
		max	V	125
AC operating voltage		Παλ	v	120
Ac operating voltage	of 50/60Hz coil powered at 50Hz			
	pick-up			
	ρισκ-αρ			
		min	0/.l.lo	80
		min	%Us	80 110
	drap out	min max	%Us %Us	80 110
	drop-out	max	%Us	110
	drop-out	max min	%Us %Us	110 20
		max	%Us	110
	of 50/60Hz coil powered at 60Hz	max min	%Us %Us	110 20
		max min max	%Us %Us %Us	110 20 60
	of 50/60Hz coil powered at 60Hz	max min max min	%Us %Us %Us	110 20 60 80
	of 50/60Hz coil powered at 60Hz pick-up	max min max	%Us %Us %Us	110 20 60
	of 50/60Hz coil powered at 60Hz	max min max min max	%Us %Us %Us %Us %Us	110 20 60 80 110
	of 50/60Hz coil powered at 60Hz pick-up	max min max min max min max min	%Us %Us %Us %Us %Us %Us %Us	110 20 60 80 110 20
	of 50/60Hz coil powered at 60Hz pick-up drop-out	max min max min max	%Us %Us %Us %Us %Us	110 20 60 80 110
	of 50/60Hz coil powered at 60Hz pick-up drop-out of 60Hz coil powered at 60Hz	max min max min max min max min	%Us %Us %Us %Us %Us %Us %Us	110 20 60 80 110 20
	of 50/60Hz coil powered at 60Hz pick-up drop-out	max min max min max min max min max	%Us %Us %Us %Us %Us %Us %Us %Us	110 20 60 80 110 20 60
	of 50/60Hz coil powered at 60Hz pick-up drop-out of 60Hz coil powered at 60Hz	max min max min max min max min max min max	%Us %Us %Us %Us %Us %Us %Us %Us %Us	110 20 60 80 110 20 60
	of 50/60Hz coil powered at 60Hz pick-up drop-out of 60Hz coil powered at 60Hz pick-up	max min max min max min max min max	%Us %Us %Us %Us %Us %Us %Us %Us	110 20 60 80 110 20 60
	of 50/60Hz coil powered at 60Hz pick-up drop-out of 60Hz coil powered at 60Hz	min max min max min max min max min max	%Us %Us %Us %Us %Us %Us %Us %Us %Us	110 20 60 80 110 20 60 80 110
	of 50/60Hz coil powered at 60Hz pick-up drop-out of 60Hz coil powered at 60Hz pick-up	max min max min max min max min max min max	%Us %Us %Us %Us %Us %Us %Us %Us %Us	110 20 60 80 110 20 60

AC average coil consumption at 20°C

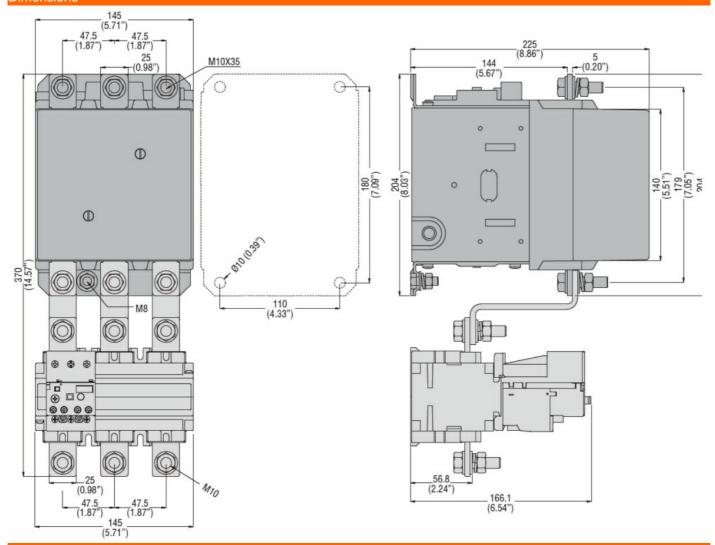
of 50/60Hz coil powered at 50Hz



			in-rush	VA	300
			holding	VA	10
	of 50/60Hz coil pow	ered at 60Hz			
			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	110
			max	V	125
DC operating voltage					
	pick-up				
	p.o up		min	%Us	80
			max	%Us	110
	drop-out			,,,,,	
	3.00 041		min	%Us	20
			max	%Us	60
Average coil consump	tion =20°C		max	,,,,,	_ - •
, worage our consump			in-rush	W	300
			holding	W	10
Max cycles frequency			riolaling	VV	10
Mechanical operation				cycles/h	2400
Operating times				Cycles/II	2400
-	antrol				
Average time for Us co	in AC				
	In AC	Clasina NO			
		Closing NO	min		0.0
			min	ms	80
		Opening NO	max	ms	120
		Opening NO	min		30
			min	ms	
	in DC		max	ms	75
	III DC	Clasina NO			
		Closing NO	min		0.0
			min	ms	80 120
		Opening NO	max	ms	120
		Opening NO	min	ma	30
			min	ms ms	75
UL technical data			max	ms	13
Full-load current (FLA)	for three-phase AC	motor			
i uli-loau cullelli (FLA)	rior unee-phase AC I	HOLOI	at 480V	Α	301
			at 600V	A	289
Yielded mechanical pe	orformanco		at 000V	^	203
neided mechanical pe		motor			
	for three-phase AC	HIUIUI	200/208V	HP	100
			200/208V 220/230V	HP HP	125
			460/480V	HP	250
			575/600V	HP HP	300
Conoral LISE			373/0000	ПР	300
General USE	Contactor				
	Contactor		A O	۸	450
Object also to the state	- f 000V		AC current	Α	450
Short-circuit protection					
	Standard fault		2 1		
			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 & Protection	on			
Pollution degree				3

Dimensions

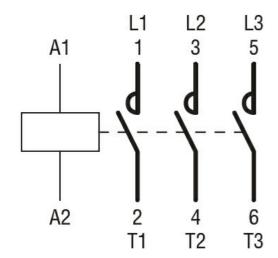


Wiring diagrams



ENERGY AND AUTOMATION

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 320A, AC/DC COIL, 110...125VAC/DC



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1 O F	TTIO	atione	าวทูก	-com	niianea.
OCI	шь	auon.	s anu	COILL	ullalice

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