



Product designation Product type designation			Power contactor B310
Contact characteristics			D310
Number of poles		Nr.	3
Rated insulation voltage Ui IEC/EN		V	1000
Rated impulse withstand voltage Uimp		kV	8
Operational frequency			
or orange and queens,	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
, and the second se	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 may current to in DC1 with L/D < 1mg with 2 pales in paries	460V	A	
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series	75V	۸	375
	75V 110V	A 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	700 V		
TEO MAX SAITOR TO IT DO I WILL E/IX = THIS WILL O POICS III SCHOS	75V	Α	375
	110V	A	350
	220V	A	350
	220 V	, ,	



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THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 320A, AC/DC COIL, 220...240VAC/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	Ibin	0.74
		max	lbin	0.74
Max number of wires s	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			
		max		2x 3/0
Power terminal protec	tion according to IEC/EN 60529			IP00
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw
Weight			g	9520
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			
	ou according to 2.4.000 to 100 t	rated load	cycles	700000
		mechanical load	cycles	10000000
Mirror contats accordi	ng to IEC/EN 609474-4-1		0,0.00	yes
EMC compatibility	19 10 12 0/211 000 17 1 1 1			yes
AC coil operating				yes
Rated AC voltage at 5	0/60Hz 60Hz			
rated AO voltage at 5	0/00112, 00112			
		min	\/	220
		min	V	220
AC operating voltage		min max	V V	220 240
AC operating voltage	of 50/60Hz coil powered at 50Hz			
AC operating voltage	of 50/60Hz coil powered at 50Hz			
AC operating voltage	of 50/60Hz coil powered at 50Hz pick-up	max	V	240
AC operating voltage		max	V %Us	80
AC operating voltage	pick-up	max	V	240
AC operating voltage		max min max	V %Us %Us	80 110
AC operating voltage	pick-up	max min max min	V %Us %Us %Us	80 110 20
AC operating voltage	pick-up drop-out	max min max	V %Us %Us	80 110
AC operating voltage	pick-up drop-out of 50/60Hz coil powered at 60Hz	max min max min	V %Us %Us %Us	80 110 20
AC operating voltage	pick-up drop-out	max min max min max	V %Us %Us %Us %Us	80 110 20 60
AC operating voltage	pick-up drop-out of 50/60Hz coil powered at 60Hz	max min max min max	%Us %Us %Us %Us %Us	80 110 20 60
AC operating voltage	pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up	max min max min max	V %Us %Us %Us %Us	80 110 20 60
AC operating voltage	pick-up drop-out of 50/60Hz coil powered at 60Hz	min max min max min max	%Us %Us %Us %Us %Us	80 110 20 60 80 110
AC operating voltage	pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up	min max min max min max min max min min max	%Us %Us %Us %Us %Us	80 110 20 60 80 110 20
AC operating voltage	pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out	min max min max min max	%Us %Us %Us %Us %Us	80 110 20 60 80 110
AC operating voltage	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	80 110 20 60 80 110 20
AC operating voltage	pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out	min max min max min max min max min max	%Us %Us %Us %Us %Us %Us %Us	80 110 20 60 80 110 20 60
AC operating voltage	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 %Us	80 110 20 60 80 110 20 60
AC operating voltage	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	80 110 20 60 80 110 20 60
AC operating voltage	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	80 110 20 60 80 110 20 60
AC operating voltage	of 50/60Hz coil powered at 60Hz pick-up drop-out 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	80 110 20 60 80 110 20 60

AC average coil consumption at 20°C

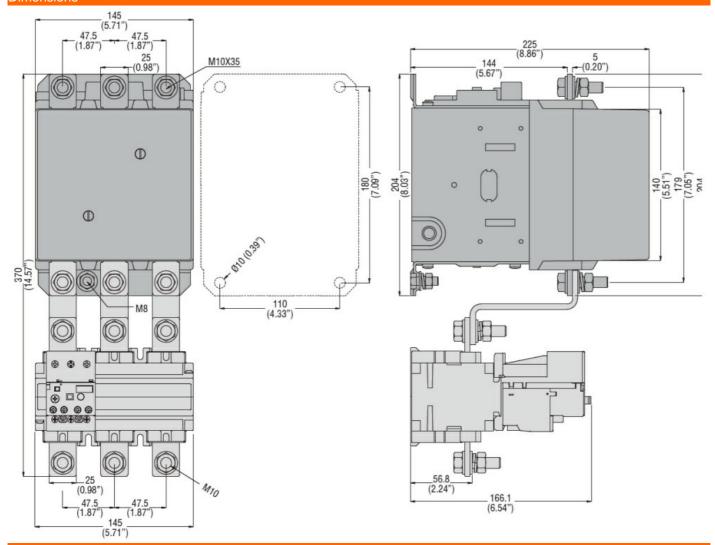
of 50/60Hz coil powered at 50Hz



			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	220
			max	V	240
DC operating voltage			max	•	
20 operating vertage	pick-up				
	pion up		min	%Us	80
			max	%Us	110
	drop-out		IIIdA	7003	110
	drop-out		min	%Us	20
				%Us	60
Average coil consump	tion <20°C		max	/005	
Average con consump	u011 ≥20 U		عامريس منا	14/	200
			in-rush	W	300
Max avalos frequency			holding	W	10
Max cycles frequency				l/l-	0.400
Mechanical operation				cycles/h	2400
Operating times					
Average time for Us co					
	in AC	01 1 110			
		Closing NO			22
			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			0.0
			min	ms	30
			max	ms	75
UL technical data					
Full-load current (FLA)	for three-phase AC m	notor			004
			at 480V	A	301
			at 600V	Α	289
Yielded mechanical pe					
	for three-phase AC	motor		–	
			200/208V	HP	100
			220/230V	HP	125
			460/480V	HP	250
			575/600V	HP	300
General USE					
	Contactor				
			AC current	Α	450
Short-circuit protection					
	Standard fault				
			Short circuit current	kA	18

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

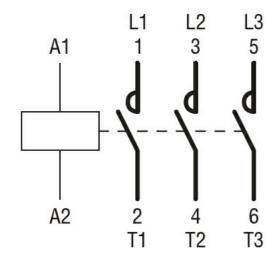
Dimensions



Wiring diagrams

ENERGY AND AUTOMATION

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 320A, AC/DC COIL, 220...240VAC/DC



Certificat			
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Ceruncai	ions and		пансе

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