



Product designation Product type designation			Power contactor B310
Contact characteristics			D010
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
	1000V	kW	180
Rated operational power AC-1 (T=40°C)			
	230V	kW	158
	400V	kW	270
	500V	kW	350
IFC many augment to in DC4 with 1/D. Amo with 4 males in paries	690V	kW	488
IEC max current le in DC1 with L/R = 1ms with 1 poles in series	75)/	^	075
	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		
	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	400 V	А	
120 max surront to in 201 with 2/1 - 1110 with 5 poles in selles	75V	Α	375
	110V	A	350
	220V	A	350
	220 V	, ,	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	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	Α	230
Short-time allowable current for 10s (IEC/EN60947-1)		A	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)		m?	0.2
Power dissipation per pole (average value)	••	,	
	Ith	W	40.5
This is a few to the second of	AC3	W	20
Tightening torque for terminals			0.5
	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

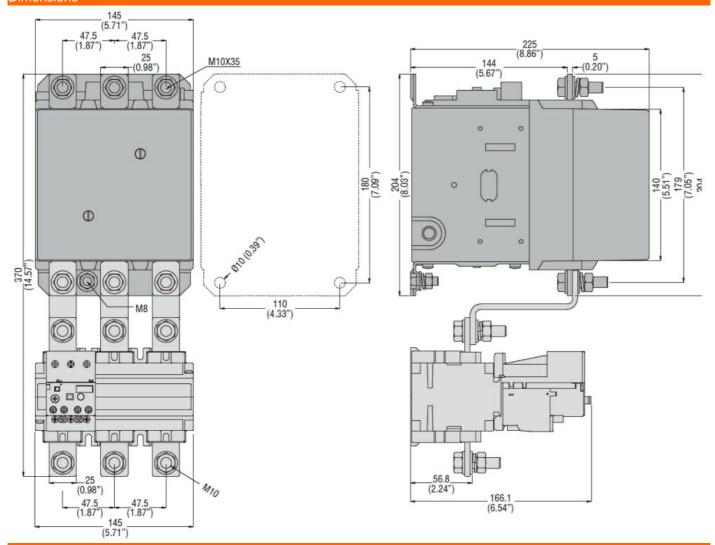
of 50/60Hz coil powered at 50Hz



			in-rush	VA	300
			holding	VA	10
	of 50/60Hz coil pov	vered 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				<u> </u>	
20 operating vertage	pick-up				
	pion up		min	%Us	80
			max	%Us	110
	drop-out		IIIdx	7003	110
	arop-out		min	%Us	20
				%Us %Us	60
Average coil consump	tion =20°C		max	/005	00
Average con consump	111011 -20 C		in-rush	W	300
May avalog frequency			holding	W	10
Max cycles frequency				0) (6) 6 - /-	2400
Mechanical operation				cycles/h	2400
Operating times					
Average time for Us co					
	in AC	01 1 110			
		Closing NO			22
			min	ms	80
		0 1 110	max	ms	120
		Opening NO			
			min	ms	30
	·		max	ms	75
	in DC	aa			
		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)	tor three-phase AC i	motor		_	
			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	n fuse, 600V				
	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

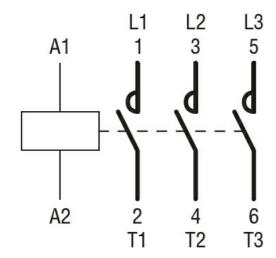
Dimensions



Wiring diagrams

ENERGY AND AUTOMATION

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



Certificat			
Cartificat	ione and	Lcomp	lianca
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