



Product designation Product type designation			Power contactor B310
Contact characteristics			
Number of poles		Nr.	4
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-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	Α	375
	110V	Α	195
	220V	Α	
	330V	Α	
	460V	Α	
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series			
	75V	Α	375
	110V	Α	350
	220V	Α	300
	330V	Α	
	460V	Α	
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series			
	75V	Α	375
	110V	Α	350
	220V	Α	350
	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

EC 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	
EC 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	
EC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series			
20 max danon lo in 200 200 mai 2/1 2 fomo mai o poloc in conce	75V	Α	310
	110V	A	310
	220V	A	290
	330V	A	230
	460V	A	
EC many assemble in DC2 DC5 with L/D < 45 may with 4 malas in acroise	460 V	A	
EC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series	751/		0.4.0
	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)		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)			
7 7 7 7	Ith	W	40.5
	AC-3	W	20
Fightening torque for terminals			<del>-</del>
		Nm	35
	min	1 31 ( )	35
	min max		
	max	Nm	
	max min	Nm Ibin	25.8
	max	Nm	
	max min max	Nm Ibin Ibin	25.8 25.8
	max min max min	Nm Ibin Ibin Nm	25.8 25.8
	max min max min max	Nm Ibin Ibin Nm Nm	25.8 25.8 1 1
	max min max min max min	Nm Ibin Ibin Nm Nm Ibin	25.8 25.8 1 1 0.74
Tightening torque for coil terminal	max min max min max	Nm Ibin Ibin Nm Nm Ibin Ibin	25.8 25.8 1 1 0.74 0.74
Fightening torque for coil terminal  Max number of wires simultaneously connectable	max min max min max min	Nm Ibin Ibin Nm Nm Ibin	25.8 25.8 1 1 0.74
Tightening torque for coil terminal  Max number of wires simultaneously connectable  Conductor section	max min max min max min	Nm Ibin Ibin Nm Nm Ibin Ibin	25.8 25.8 1 1 0.74 0.74
Tightening torque for coil terminal  Max number of wires simultaneously connectable	max min max min max min	Nm Ibin Ibin Nm Nm Ibin Ibin	25.8 25.8 1 1 0.74 0.74 2
Tightening torque for coil terminal  Max number of wires simultaneously connectable  Conductor section	max min max min max min	Nm Ibin Ibin Nm Nm Ibin Ibin	25.8 25.8 1 1 0.74 0.74



#### Operating position

Operating position				
		normal		Vertical plan
***		allowable		±30°
Fixing				Screw
Veight			g	1114
Conductor section	ANA/O/leage!			
	AWG/kcmil conductor section	<b>70.0</b> V		2x 3/0
Operations		max		2X 3/U
Mechanical life			cycles	10000000
Electrical life			cycles	7000000
Safety related data			Cycles	700000
	0d according to EN/ISO 13489-1			
enomiance level bit	od according to ETV/100 10409-1	rated load	cycles	700000
		mechanical load	cycles	1000000
Mirror contats accordi	ng to IEC/EN 609474-4-1	THEOHAINEAN IOAA	Oyolos	yes
EMC compatibility				yes
AC coil operating				,
Rated AC voltage at 5	0/60Hz. 60Hz			
2 1 2 1 2 1 2 1 2 1 2 2 2 2 2 2 2 2 2 2	,	min	V	220
		max	V	240
AC operating voltage				
	of 50/60Hz coil powered at 50Hz			
	pick-up			
		min	%Us	80
		max	%Us	110
	drop-out			
		min	%Us	20
		max	%Us	60
	of 50/60Hz coil powered at 60Hz			
	pick-up			
		min	%Us	80
		max	%Us	110
	drop-out	•	0/11-	00
		min	%Us	20
	of COLIT poil powered at COLIT	max	%Us	60
	of 60Hz coil powered at 60Hz pick-up			
	pick-up	min	%Us	80
		max	%Us	110
	drop-out	max	,003	
	arop out	min	%Us	20
		max	%Us	60
AC average coil consu	umption at 20°C			
<u> </u>	of 50/60Hz coil powered at 50Hz			
	·	in-rush	VA	300
		holding	VA	10
	of 50/60Hz coil powered at 60Hz	<u> </u>		
	·	in-rush	VA	300
		holding	VA	10
			W	10



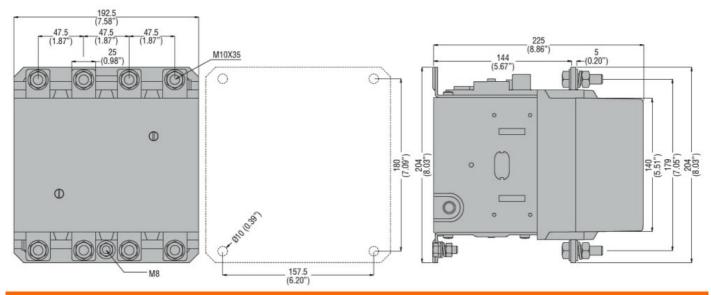


				W	220
			min max	V V	220 240
DC operating voltage			max	<u>*</u>	2.0
, ,	pick-up				
			min	%Us	80
			max	%Us	110
	drop-out				
			min	%Us	20
A	4: <00°C		max	%Us	60
Average coil consump	olion ≥20 C		in-rush	W	300
			holding	W	10
Max cycles frequency			Holding	,,,	10
Mechanical operation				cycles/h	2400
Operating times					
Average time for Us co	ontrol				
	in AC				
		Closing NO			
			min	ms	80
		On anima NO	max	ms	120
		Opening NO	min	ms	30
			max	ms	75
	in DC		max	1113	10
	20	Closing NO			
			min	ms	80
			max	ms	120
		Opening NO			
			min	ms	30
III. ta abuda al alata			max	ms	75
UL technical data Full-load current (FLA)	) for three phase A(	motor			
rull-load current (FLA)	) for three-phase At	J MOIOI	at 480V	А	301
			at 600V	A	289
Yielded mechanical pe	erformance		ut 000 v	7.	200
	for three-phase A	C motor			
	•		200/208V	HP	100
			220/230V	HP	125
			460/480V	HP	250
			575/600V	HP	300
General USE					
	Contactor		<b>A.O.</b>	۸	450
Short-circuit protection	2 fueo 600\/		AC current	Α	450
Short-circuit protection	Standard fault				
	Glandard fault		Short circuit current	kA	18
			Fuse rating	A	800
			Fuse class	- •	L
Ambient conditions					
Temperature					
	Operating temper	rature			
			min	°C	-50
			max	°C	70
	Storage tempera	ture			

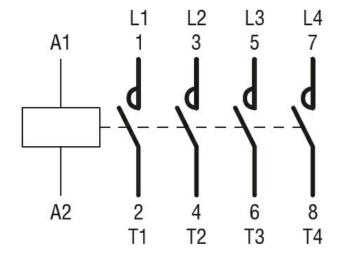


	min	°C	-60
	max	°C	80
Max altitude		m	3000
Resistance & Protection			
Pollution degree			3

### Dimensions



### Wiring diagrams



#### 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



### 11B310400220

FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 450A, AC/DC COIL, 220...240VAC/DC

ETIM 8.0

EC000066 -Power contactor, AC switching