



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	A	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
		= =	



11B310400440

FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 450A, AC/DC COIL, 440...480VAC/DC

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			
	75V	Α	310
	110V	A	310
	220V	Α	290
	330V	A	230
	460V		
IEC may current to in DC2 DC5 with L/D < 45 with 4 notes in series	4607	A	
EC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series	75\/	Λ.	240
	75V	A	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)			
oner also pails in perio (and ago value)	lth	W	40.5
	AC-3	W	20
	7.6 6	•••	
Tightening torque for terminals			
Tightening torque for terminals	min	Nm	35
Tightening torque for terminals	min	Nm Nm	35 35
Tightening torque for terminals	max	Nm	35
Tightening torque for terminals	max min	Nm Ibin	35 25.8
	max	Nm	35
	max min max	Nm Ibin Ibin	35 25.8 25.8
	max min max min	Nm Ibin Ibin	35 25.8 25.8
	max min max min max	Nm Ibin Ibin Nm Nm	35 25.8 25.8 1 1
	max min max min	Nm Ibin Ibin Nm Nm Ibin	35 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	35 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	35 25.8 25.8 1 1 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	35 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	35 25.8 25.8 1 1 0.74 0.74
Tightening torque for terminals Tightening torque for coil terminal Max number of wires simultaneously connectable Conductor section AWG/Kcmil	max min max min max min	Nm Ibin Ibin Nm Nm Ibin Ibin	35 25.8 25.8 1 1 0.74 0.74



Operating position

Operating position	normal allowable		Vertical plan ±30°
Fixing	allowabic		Screw
Weight		g	1118
Conductor section		<u> </u>	
AWG/kcmil conductor section			
	max		2x 3/0
Operations			
Mechanical life		cycles	10000000
Electrical life		cycles	700000
Safety related data			
Performance level B10d according to EN/ISO 13489-1			
	rated load	cycles	700000
	mechanical load	cycles	10000000
Mirror contats according to IEC/EN 609474-4-1			yes
EMC compatibility			yes
AC coil operating			
Rated AC voltage at 50/60Hz, 60Hz			
	min	V	440
	max	V	415
AC operating voltage			
of 50/60Hz coil powered at 50Hz			
pick-up		0/11-	0.0
	min	%Us	80
drap out	max	%Us	110
drop-out	min	%Us	20
	max	%Us	60
of 50/60Hz coil powered at 60Hz	IIIdA	/003	00
pick-up			
p.o.c. up	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	110
drop-out			
	min	%Us	20
	max	%Us	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 powered at 60Hz			000
	in-rush	VA	300
D: : : : : : : : : : : : : : : : : : :	holding	VA	10
Dissipation at holding ≤20°C 50Hz		W	10



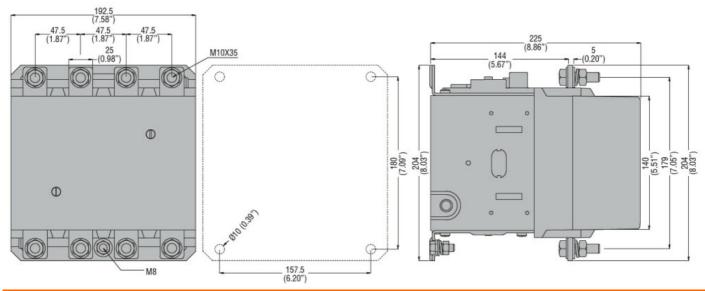


			min	V	440
DO an anatin a contrar			max	V	415
DC operating voltage	mials				
	pick-up			0/116	0.0
			min	%Us	80 110
	drop-out		max	%Us	110
	drop-out		min	%Us	20
			max	%Us	60
Average coil consump	ntion <20°C		max	7003	
, worago con concamp	MION =20 G		in-rush	W	300
			holding	W	10
Max cycles frequency			<u> </u>		
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			
			min	ms	30
			max	ms	75
	in DC				
		Closing NO			
			min	ms	80
		0 : 110	max	ms	120
		Opening NO			0.0
			min	ms	30
UL technical data			max	ms	75
Full-load current (FLA)) for three-phase AC	motor			
i dii-load current (i LA)) for timee-phase AC	motor	at 480V	Α	301
			at 400 V	A	289
Yielded mechanical pe	erformance		dt 000 v		200
Tiolada modilamdar pe	for three-phase AC	C motor			
	.5. 100 pila00 / 10		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					
	Operating tempera	ature			
			min	°C	-50
			111111		
	Storage temperatu		max	°C	70

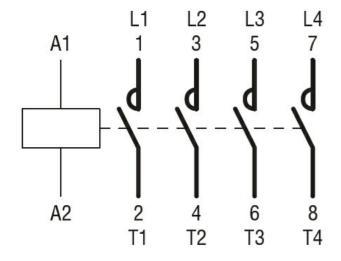


	min	°C	-60
	max	°C	80
Max altitude		m	3000
Resistance & Protection			
Pollution degree			3

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



11B310400440

FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 450A, AC/DC COIL, 440...480VAC/DC

ETIM 8.0

EC000066 -Power contactor, AC switching