



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	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series	1001		
120 max outfork to in 200 200 with 2/10 = 10mb with 6 poles in series	75V	Α	310
	110V	A	310
	220V	A	290
	330V	A	230
	460V	A	
IFC many assument to im DC2 DC5 with 1/D < 15 may with 4 males in acrise	460 V	A	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series	75)/	^	040
	75V	A	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)		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	Ibin	25.8
Tightening torque for coil terminal			
2 · · · 2 · · · · · · · · · · · · · · ·	min	Nm	1
	max	Nm	1
	min	lbin	0.74
	max	Ibin	0.74
May number of wires simultaneously connectable	παλ	Nr.	2
		I VII.	
Conductor section			
•			Ov. 2/2
Max number of wires simultaneously connectable Conductor section AWG/Kcmil Power terminal protection according to IEC/EN 60529	max		2x 3/0 IP00



Operating position

Operating position		_		
		normal		Vertical plan
<u>.</u>		allowable		±30°
Fixing				Screw
Weight			g	1112
Conductor section				
	AWG/kcmil conductor section			0.00
On a madia ma		max		2x 3/0
Operations				4000000
Mechanical life			cycles	10000000
Electrical life			cycles	700000
Safety related data	L			
Performance level B100	according to EN/ISO 13489-1			700000
		rated load	cycles	700000
Minor contata accordina	- t- IFO/FN 000474 4 4	mechanical load	cycles	10000000
Mirror contats according	1 to IEC/EN 609474-4-1			yes
EMC compatibility				yes
AC coil operating	60Hz 60Hz			
Rated AC voltage at 50/	00HZ, 00HZ		\/	200
		min	V	380
AC operating valtage		max	V	415
AC operating voltage	of EO/COLLE goil noward at EOLLE			
	of 50/60Hz coil powered at 50Hz			
	pick-up	min	%Us	80
		min		
	drap out	max	%Us	110
	drop-out	min	%Us	20
		min	%Us	60
	of 50/60Hz coil powered at 60Hz	max	/005	00
	•			
	pick-up	min	%Us	80
		max	%Us	110
	drop-out	IIIax	/005	110
	diop-out	min	%Us	20
		max	%Us	60
	of 60Hz coil powered at 60Hz	IIIdX	/003	
	pick-up			
	ριοκ-αρ	min	%Us	80
		max	%Us	110
	drop-out	IIIAX	/0 0 3	. 10
	diop out	min	%Us	20
		max	%Us	60
AC average coil consum	notion at 20°C	max	,,,,,	
•	of 50/60Hz coil powered at 50Hz			
	3. 33/33/12 33/1 poworod at 30/12	in-rush	VA	300
		holding	VA	10
	of 50/60Hz coil powered at 60Hz	Holding	V / 1	10
	or coron iz con powered at coriz	in-rush	VA	300
		holding	VA	10
	20°C 50Hz	Holding	W	10
DC coil operating	LO O JULIZ		V V	10

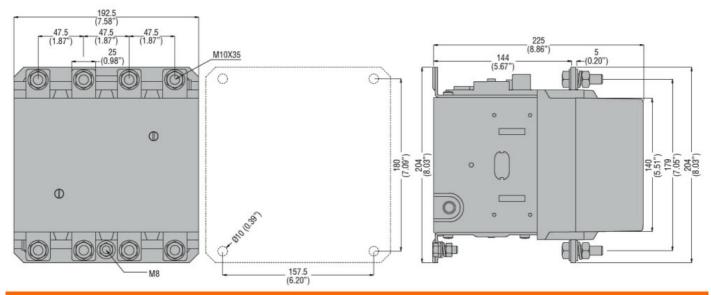




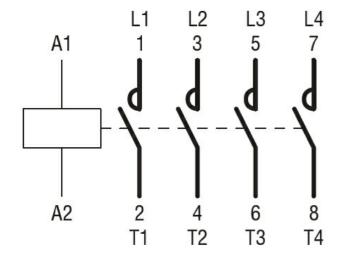
			min	V	380
DC operating voltage			max	V	415
DC operating voltage	pick-up				
	ріск-ар		min	%Us	80
			max	%Us	110
	drop-out				
	·		min	%Us	20
			max	%Us	60
Average coil consump	tion ≤20°C				
			in-rush	W	300
			holding	W	10
Max cycles frequency				//	0.400
Mechanical operation				cycles/h	2400
Operating times Average time for Us co	ontrol				
Average time for US Co	in AC				
	шдо	Closing NO			
		0.00mg 110	min	ms	80
			max	ms	120
		Opening NO		-	
			min	ms	30
			max	ms	75
	in DC				
		Closing NO			
			min	ms	80
		0 1 110	max	ms	120
		Opening NO			00
			min	ms	30 75
UL technical data			max	ms	75
Full-load current (FLA)) for three-phase AC	motor			
Tall load balletit (1 E/t)	, for timee phase he	motor	at 480V	Α	301
			at 600V	Α	289
Yielded mechanical pe	erformance				
·	for three-phase AC	C motor			
			200/208V	HP	100
			220/230V	HP	125
			460/480V	HP	250
			575/600V	HP	300
General USE					
	Contactor		A C	Δ	450
Chart aircuit protection	fuce 600V		AC current	Α	450
Short-circuit protection	Standard fault				
	Stanuaru iauli		Short circuit current	kA	18
			Fuse rating	A	800
			Fuse class	, ,	L
			1 400 01400		=
Ambient conditions					
Ambient conditions Temperature					
Ambient conditions Temperature	Operating tempera	ature			
	Operating tempera	ature	min	°C	-50
	Operating tempera	ature	min max	°C °C	-50 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



11B310400380

FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 450A, AC/DC COIL, 380...415VAC/DC

ETIM 8.0

EC000066 -Power contactor, AC switching