



Product designation			Power contactor
Product type designation			B310
Contact characteristics			
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	130
	AC-3 (≤440V ≤55°C)	Α	320
	AC-4 (400V)	Α	110
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
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)		$m\Omega$	0.2
Power dissipation per pole (average value)			
	Ith	W	40.5
	AC3	W	20
Tightening torque for terminals			
	min	Nm	35
	max	Nm	35
	min	lbin	25.8



		max	lbin	25.8
Tightening torque for c	oil terminal			
		min	Nm	1
		max	Nm	1
		min	lbft	0.74
		max	lbft	0.74
Max number of wires s	imultaneously connectable		nr.	2
	ion according to IEC/EN 60529			IP00
Mechanical features				
Operating position				
		normal		vertical plan
<del></del>		allowable		±30°
Fixing				Screw
Weight			g	9520
Operations				4000000
Mechanical life			cycles	10000000
Electrical life Safety related data			cycles	700000
	Od according to EN/ISO 13489-1			
r chomiance level DTC	ou according to E14/130 13469-1	rated load	cycles	700000
		mechanical load	cycles	1000000
Mirror contats according	ng to IEC/EN 609474-4-1	Theorianical load	Cycles	yes
EMC compatibility	ig to 120/214 0004/4 4 1			yes
AC coil operating				yee
Rated AC voltage at 50	)/60Hz, 60Hz			
J	,	min	V	24
		max	V	480
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	* .	0/11-	90
		min	%Us %Us	80 110
	drop-out	max	%US	110
	diop out	min	%Us	20
		max	%Us	60
	of 60Hz coil powered at 60Hz		,,,,,	
	pick-up			
	1 1	min	%Us	80
		max	%Us	110
	drop-out			
		min	%Us	20
		max	%Us	60
AC operating voltage a	at 20°C			
	of 50/60Hz coil powered at 50Hz			
		in-rush	VA	300
		holding	VA	10



	of 50/60Hz coil pow	vered at 60Hz			
	01 00/001 12 0011 povi	0104 41 00112	in-rush	VA	300
			holding	VA	10
Dissipation at holding	≤20°C 50Hz		9	W	10
DC coil operating					
DC rated control voltage	ae				
•	,		min	V	24
DC operating voltage					
	pick-up				
			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					
Mechanical operations				cycles/h	2400
Operating times					
Average time for Us co					
	in AC	Olasia a NO			
		Closing NO			0.0
			min	ms	80
		Opening NO	max	ms	120
		Opening NO	min	ms	30
			max	ms	75
	in DC		max	1110	70
	20	Closing NO			
		5.55g	min	ms	80
			max	ms	120
		Opening NO			
			min	ms	30
			max	ms	75
UL technical data					
Full-load current (FLA)	for three-phase AC r	notor			
			at 480V	Α	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
General USE			575/600V	hp	300
General USE	Contactor				
	Contactor		AC current	Α	450
Ambient conditions			AC current	Α	7JU
Temperature					
romporature	Operating temperat	IIIA			
	Operating temperat	uiG	min	°C	-50
			max	°C	70
	Storage temperatur	e	max		_ · •
The characteri		nt are subject to updates or modificat	ions at any time. The description	ns technical a	nd

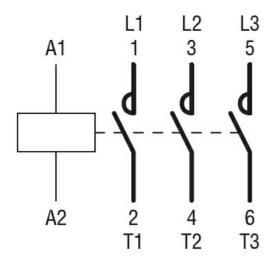


Dimensions

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

## 145 (5.71") 47.5 (1.87" 225 (8.86") 5 ⊷(0.20") 25 -(0.98") M10X35 144 (5.67" 0 0 180 (7.09") 204 (8.03") 140 (5.51") 179 (7.05") 0 110 (4.33") M8 (0.98") 110 166.1 \_\_47.5 (1.87") (6.54")145 (5.71")

## Wiring diagrams



## Certifications and compliance



( 'am	nlınr	$\sim$
Com	mai	11:12

Compilario	
	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 6 classification

EC000066 - Power contactor, AC switching