



Product designation			Power contactor B310
Product type designation Contact characteristics			0010
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		А	450
Operational current le			
	AC-1 (≤40°C)	А	450
	AC-1 (≤55°C)	А	370
	AC-1 (≤70°C)	А	300
	AC-3 (≤440V ≤55°C)	А	320
	AC-4 (400V)	А	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 $L/R \le 1$ ms with 1 poles in series			
	75V	А	375
	110V	А	195
	220V	А	
	330V	A	
	460V	A	
IEC max current le in DC1 with $L/R \le 1$ ms with 2 poles in series			
	75V	A	375
	110V	A	350
	220V	A	300
	330V	A	
	460V	A	
IEC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series			
	75V	A	375
	110V	A	350
	220V	A	350
	330V	A	300
IEC may ourropt to in DC1 with L/D < 1 me with 4 notes in estimate	460V	A	
IEC max current le in DC1 with $L/R \le 1$ ms with 4 poles in series	751/	۸	275
	75V 110V	A	375
	220V	A	350 350
	330V	A A	350 350
	460V	A A	300
	40UV	A	300

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IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
TEC max current le in DC5-DC5 with L/K = 15ms with 1 poles in series	75V	А	310
	110V	A	170
	220V	A	
	330V	A	
	460V	A	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series	4007	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
	75V	А	310
	110V	A	290
	220V	A	230
	330V	A	
	460V	A	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series	1001	7.	
	75V	А	310
	110V	A	310
	220V	A	290
	330V	A	230
	460V	A	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series	1001		
	75V	А	310
	110V	A	310
	220V	A	310
	330V	A	230
	460V	A	230
Short-time allowable current for 10s (IEC/EN60947-1)		A	2900
Protection fuse			
	gG (IEC)	А	500
	aM (IEC)	А	400
Making capacity (RMS value)		А	3150
Breaking capacity at voltage			
	440V	А	3000
	500V	А	2700
	690V	А	2520
Resistance per pole (average value)		mΩ	0.2
Power dissipation per pole (average value)			
	lth	W	40.5
	AC-3	W	20
Tightening torque for terminals			
	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	lbin	0.74
	max	Ibin	0.74
Max number of wires simultaneously connectable		Nr.	2
Conductor section			
AWG/Kcmil			
	max		2x 3/0
Power terminal protection according to IEC/EN 60529			IP00
Mechanical features			

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Operating position

Operating position	normal		Vertical plan
Fiving	allowable		±30°
Fixing Wojebt		2	Screw 1136
Weight Conductor section		g	1130
AWG/kcmil conductor section	max		2x 3/0
Operations	IIIdX		2X 3/0
Mechanical life		cycles	10000000
Electrical life		cycles	700000
Safety related data		Cycles	700000
Performance level B10d according to EN/ISO 13489-1			
	rated load	cycles	700000
	mechanical load	cycles	1000000
Mirror contats according to IEC/EN 609474-4-1		Cycles	
EMC compatibility			yes
AC coil operating			yes
Rated AC voltage at 50/60Hz		V	24
AC operating voltage		v	_ :
of 50/60Hz coil powered at 50Hz			
pick-up			
plot up	min	%Us	80
	max	%Us	110
drop-out	Шах	/000	110
	min	%Us	20
	max	%Us	60
of 50/60Hz coil powered at 60Hz	тах	/000	
pick-up			
P.0.1 2P	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	0		
	in-rush	VA	300
	holding	VA	10
Dissipation at holding ≤20°C 50Hz	0	W	10
DC coil operating			
DC rated control voltage		V	24
DC operating voltage			

pick-up

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			min	%Us	80
			max	%Us	110
	drop-out				
			min	%Us	20
			max	%Us	60
Average coil consump	otion ≤20°C		· · · · ·	14/	000
			in-rush	W	300
			holding	W	10
Max cycles frequency				ev (el e e /b	2400
Mechanical operation Operating times				cycles/h	2400
Average time for Us c	ontrol				
Average time for 03 G	in AC				
		Closing NO			
			min	ms	80
			max	ms	120
		Opening NO	Παλ	1113	v
		oponing 10	min	ms	30
			max	ms	75
	in DC		Παλ		
		Closing NO			
			min	ms	80
			max	ms	120
		Opening NO		-	-
		-1- 5 -	min	ms	30
			max	ms	75
UL technical data					
Full-load current (FLA) for three-phase AC m	otor			
			at 480V	А	301
			at 600V	А	289
Yielded mechanical pe	erformance				
	for three-phase AC n	notor			
			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					
	Standard fault				
			Short circuit current	kA	18
			Fuse rating	Α	800
			Fuse class		L
Ambient conditions					
Temperature					
	Operating temperatu	re			
			min	°C	-50
			max	°C	70
	Storage temperature				
			min	°C	-60
				°C	80
			max	0	
Max altitude Resistance & Protecti			max	m	3000

11B31040024The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and
functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding

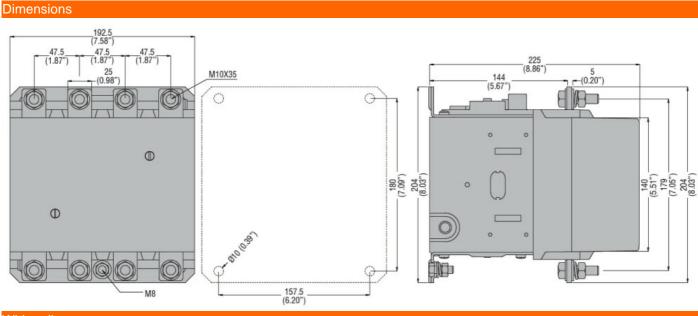


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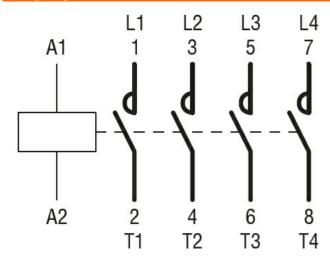
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Wiring diagrams



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		
ETIM 8.0		EC000066 - Power contactor, AC switching

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