



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			
	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

		normal		Vertical plan
Eiving		allowable		±30° Screw
Fixing				
Weight			g	1112
Operations				40000000
Mechanical life			cycles	10000000
Electrical life			cycles	700000
Safety related data				
Performance level B10	0d according to EN/ISO 13489-1		_	
		rated load	cycles	700000
		mechanical load	cycles	10000000
	ng to IEC/EN 609474-4-1			Yes
MC compatibility				yes
AC coil operating				
Rated AC voltage at 50	0/60Hz, 60Hz			
		min	V	380
		max	V	415
C 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			
	·	min	%Us	20
		max	%Us	60
	of 60Hz coil powered at 60Hz			
	pick-up			
	F	min	%Us	80
		max	%Us	110
	drop-out			
	3.50 54.	min	%Us	20
		max	%Us	60
C average coil consu	umption at 20°C			
2 2.1 2.2 3.3 2 23.1 23.100	of 50/60Hz coil powered at 50Hz			
	5. 55,661 12 6611 postfored at 661 12	in-rush	VA	300
		holding	VA	10
	of 50/60Hz coil powered at 60Hz	Holding	٧,١	
	or 50/00112 con powered at our iz	in-rush	VA	300
		holding	VA VA	10
Dissipation at holding :	<20°C 50H7	Holding	W	10
Dissipation at holding : DC coil operating	<u></u> ∠∪ ∪ ∪∪ I∠		VV	10
	30			
DC rated control voltage	y e	*.	17	200
		min	V	380
		max	V	415





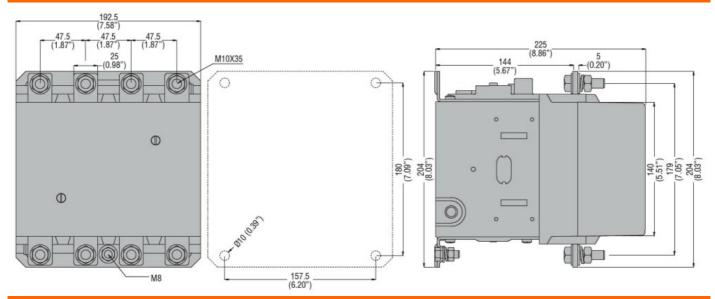
	pick-up				
			min	%Us	80
			max	%Us	110
	drop-out				
	·		min	%Us	20
			max	%Us	60
Average coil consump	tion ≤20°C				
			in-rush	W	300
			holding	W	10
Max cycles frequency			<u> </u>		
Mechanical operation				cycles/h	2400
Operating times				.,	
Average time for Us co	ontrol				
	in AC				
		Closing NO			
			min	ms	80
			max	ms	120
		Opening NO	max	1115	
		Sporming 140	min	ms	30
			max	ms	75
	in DC		IIIdX	1113	7.0
	III DC	Closing NO			
		Closing NO	min	mc	80
				ms ms	120
		Opening NO	max	ms	120
		Opening NO	min	ms	30
					75
UL technical data			max	ms	73
Rated operational volta	age AC (III.)			V	600
	for three-phase AC moto	\r		V	000
ruii-ioau curient (FLA)	noi iniee-phase AC moio	Л	at 480V	۸	301
				A	
Vialdad maabaaisal aa			at 600V	A	289
Yielded mechanical pe					
	for three-phase AC mot	or	000/000/		400
			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 temperature				
			min	°C	-50
			max	°C	70
	Storage temperature				
			min	°C	-60
			max	°C	80

ENERGY AND AUTOMATION

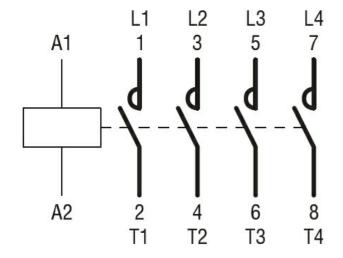
FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 450A, AC/DC COIL, 380...415VAC/DC

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

ETIM 8.0

EC000066 -Power contactor, AC switching