



Product designation			Power contactor B250
Product type designation Contact characteristics			B230
Number of poles		Nr.	4
Rated insulation voltage Ui IEC/EN		V	1000
Rated impulse withstand voltage Uimp		kV	8
Operational frequency			
operanonal moquency	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith		Α	350
Operational current le			_
•	AC-1 (≤40°C)	Α	350
	AC-1 (≤55°C)	Α	300
	AC-1 (≤70°C)	Α	250
	AC-3 (≤440V ≤55°C)	Α	265
	AC-4 (400V)	Α	115
Rated operational power AC-1 (T≤40°C)	, ,		
· · · · · · · · · · · · · · · · · · ·	230V	kW	124
	400V	kW	214
	500V	kW	282
	690V	kW	380
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series			
	75V	Α	350
	110V	Α	160
	220V	Α	
	330V	Α	
	460V	Α	
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series			
	75V	Α	350
	110V	Α	300
	220V	Α	250
	330V	Α	
	460V	Α	
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series			_
	75V	Α	350
	110V	Α	300
	220V	Α	300
	330V	Α	250
	460V	Α	
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series		_	
	75V	Α	350
	110V	Α	300
	220V	Α	300
	330V	Α	300
	460V	Α	250



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IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series		_	
	75V	Α	280
	110V	Α	150
	220V	Α	
	330V	Α	
	460V	Α	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
	75V	Α	280
	110V	Α	250
	220V	Α	200
	330V	Α	
	460V	Α	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series		- / \	
ILO max current le in DO3-DO3 with L/TC3 Toms with 3 poles in series	75\/	۸	200
	75V	A	280
	110V	A	280
	220V	Α	250
	330V	Α	200
	460V	Α	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series			
	75V	Α	280
	110V	Α	280
	220V	Α	280
	330V	Α	200
	460V	Α	200
Short-time allowable current for 10s (IEC/EN60947-1)		A	2200
Protection fuse		- / \	2200
Tiotection ruse	gG (IEC)	۸	400
	• , ,	A	
Malin a and ait (DMO value)	aM (IEC)	A	250
Making capacity (RMS value)		Α	2750
Breaking capacity at voltage		_	
	440V	Α	2500
	500V	Α	2250
	690V	Α	2200
Resistance per pole (average value)		$m\Omega$	0.2
Power dissipation per pole (average value)			
	Ith	W	24.5
	AC3	W	12.5
Tightening torque for terminals			
	min	Nm	35
	max	Nm	35
	min	lbin	25.8
	max	Ibin	25.8
Tightoning targue for coil terminal	Παχ	וווטו	۷۵.0
Tightening torque for coil terminal		N 1 .	4
	min	Nm	1
	max	Nm	1
	min	Ibin	0.74
	max	Ibin	0.74
Max number of wires simultaneously connectable		Nr.	2
Conductor section			
AWG/Kcmil			
	max		500 kcmil
	1110/1		
Power terminal protection according to IEC/EN 60529			IP00



Operating position

Operating position	normal		Vertical plan
	allowable		±30°
Fixing			Screw
Weight		g	11120
Conductor section			
AWG/kcmil conductor section			
	max		500 kcmil
Operations			
Mechanical life		cycles	10000000
Electrical life		cycles	1000000
Safety related data			
Performance level B10d according to EN/ISO 13489-1			
	rated load	cycles	1000000
	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	220
	max	V	240
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			
	min	%Us	80
	max	%Us	110
drop-out			
	min	%Us	20
10011	max	%Us	60
of 60Hz coil powered at 60Hz			
pick-up		0/11	00
	min	%Us	80
dk	max	%Us	110
drop-out	منا مس	0/11-	20
	min	%Us %Us	20 60
AC average coil consumption at 20°C	max	70US	υU
·			
of 50/60Hz coil powered at 50Hz	in-rush	VA	300
		VA VA	10
	holding	VA	10
of FO/FOLIT poil powered at COLIT	<u> </u>		
of 50/60Hz coil powered at 60Hz		١/٨	200
of 50/60Hz coil powered at 60Hz	in-rush	VA	300
of 50/60Hz coil powered at 60Hz Dissipation at holding ≤20°C 50Hz		VA VA W	300 10 10

DC rated control voltage



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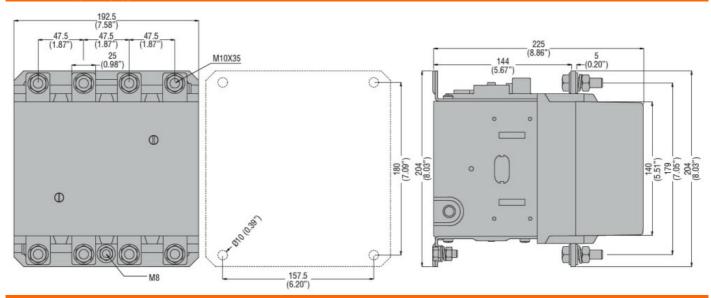
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Pick-up Pic				min	W	220
DC operating voltage Pick-up min %Us 80 max %Us 110 min max %Us 110 min max %Us 110 min max %Us 20 max %Us 60 max %Us 60 max ma						
Pick-up				max	V	240
min Max Mus Mus	DC operating voltage					
Max Mus Mus		pick-up				
Average coil consumption ≤20°C min				min		
Max overage coil consumption ≤20°C In-rush W 300 Max cycles frequency Wechanical operation Cycles Mechanical operation Mechanical operation				max	%Us	110
Max Wus Mus Mus		drop-out				
Average coil consumption ≤20°C in-rush W 300 holding W 10				min	%Us	20
Max cycles frequency				max	%Us	60
Max cycles frequency	Average coil consumpt	tion ≤20°C				
Max cycles frequency				in-rush	W	300
Max cycles frequency Mechanical operation cycles/h 2400 Operating imss Average time for Us control in AC min ms 80 Closing NO min ms 120 Opening NO min ms 30 in DC Closing NO min ms 80 Opening NO min ms 80 Opening NO min ms 80 Opening NO min ms 30 DUL technical data min ms 30 Full-load current (FLA) for three-phase AC motor at 480V A 240 Yielded mechanical performance for three-phase AC motor at 600V A 242 Yielded mechanical performance for three-phase AC motor 200/208V HP 75 220/230V HP 100 575/600V HP 250 General USE AC current A 350 Short-circuit protection fuse, 600V Standard fault Short circuit current Fuse class A 800 Fuse rating A 800 A 800 Fuse class L Ambient conditions Temperature Min max ms 7°C 70 Storage temperature						
Mechanical operating times cycles/h 2400 Average time for Us control In AC Imax Imax Max	Max cycles frequency			110.0.1.19	•••	
Closing NO					cyclos/b	2400
Average time for Us control 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 max ms 120 Opening NO min ms 30 max ms 75 UL technical data Full-load current (FLA) for three-phase AC motor Full-load current (FLA) for three-phase AC motor 4 480V A 240 at 600V A 242 Yielded mechanical performance for three-phase AC motor 200/208V HP 75 220/230V HP 100 575/600V HP 250 General USE Contactor AC current A 350 Short-circuit protection fuse, 600V Standard fault Short circuit current kA 18 Fuse rating A 800 Fuse class L Ambient conditions Temperature Operating temperature Operating temperature Storage temperature min °C -50 max or C 70 Storage temperature					Cycles/11	2400
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 max ms 75 in DC Closing NO min ms 80 max ms 120 Opening NO min ms 80 max ms 120 Opening NO min ms 30 max ms 120 Opening NO min ms 30 max ms 75 UL technical data Full-load current (FLA) for three-phase AC motor at 480V A 240 at 600V A 242 Yielded mechanical performance for three-phase AC motor Full-load current (FLA) for three-phase AC motor AC current A 350 Short-circuit protection fuse, 600V Standard fault Short circuit current Full-conditions Fuse rating A 800 Fuse class L Ambient conditions Temperature Operating temperature Storage temperature min °C -50 max rs 75 Storage temperature min °C -50 max rs 75 Storage temperature min °C -50 max rs 75 Storage temperature min °C -60		and wal				
Closing NO	Average time for US CC					
Min		in AC	01 1 116			
Max			Closing NO			
Opening NO				min	ms	
Min max Min min ms 30 max min ms 75 max min ms 75 max min ms 80 max min ms 120 max min ms 120 max min ms 30 max min ms 30 max min ms 75 max min				max	ms	120
Max			Opening NO			
In DC				min	ms	30
Closing NO				max	ms	75
Closing NO		in DC				
Min max ms 120			Closing NO			
Opening NO			0.00g 0	min	ms	80
Opening NO						
Min max ms 30 max ms 75			Opening NO	max	1113	120
Max			Opening NO	min	mo	20
Ul-load current (FLA) for three-phase AC motor						
Full-load current (FLA) for three-phase AC motor at 480V	III. to obside all data			max	ms	75
At 480V A 240 At 600V A 242						
At 600V A 242	Full-load current (FLA)	for three-phase AC moto	or		_	
Yielded mechanical performance for three-phase AC motor 200/208V HP 75 220/230V HP 100 575/600V HP 250 General USE AC current A 350 Short-circuit protection fuse, 600V Standard fault Short circuit current Fuse rating A 800 Fuse class L Ambient conditions Fuse rating A 800 Fuse class C 70 Temperature min °C -50 max °C 70 Storage temperature min °C -60						
For three-phase AC motor 200/208V HP 75 220/230V HP 100 575/600V HP 250				at 600V	Α	242
200/208V	Yielded mechanical pe	erformance				
220/230V HP 100 575/600V HP 250		for three-phase AC mot	or			
220/230V HP 100 575/600V HP 250				200/208V	HP	75
S75/600V					HP	
Contactor						
Contactor	General USE					
AC current		Contactor				
Short-circuit protection fuse, 600V Standard fault Short circuit current kA 18 Fuse rating A 800 Fuse class L Ambient conditions Temperature Operating temperature min °C -50 max °C 70 Storage temperature min °C -60		Contactor		AC ourrent	Δ	350
Standard fault Short circuit current kA 18 Fuse rating A 800 Fuse class L Ambient conditions Temperature Operating temperature min °C -50 max °C 70 Storage temperature min °C -60	Short-circuit protection	fueo 600\/		AC current		330
Short circuit current kA 18 Fuse rating A 800 Fuse class L Ambient conditions Temperature Operating temperature min °C -50 max °C 70 Storage temperature min °C -60	Short-circuit protection					
Fuse rating A 800 Fuse class L Ambient conditions Temperature Operating temperature min °C -50 max °C 70 Storage temperature min °C -60		Standard lault				4.0
Fuse class L Ambient conditions Temperature Operating temperature min °C -50 max °C 70 Storage temperature min °C -60						
Ambient conditions Temperature Operating temperature min °C -50 max °C 70 Storage temperature min °C -60					А	
Operating temperature				Fuse class		L
Operating temperature min °C -50 max °C 70 Storage temperature min °C -60						
min °C -50 max °C 70 Storage temperature min °C -60	Temperature					
Storage temperature max °C 70 min °C -60		Operating temperature				
Storage temperature min °C -60				min	°C	-50
Storage temperature min °C -60				max	°C	70
min °C -60		Storage temperature				
		0 1 1 21 21		min	°C	-60
The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and						

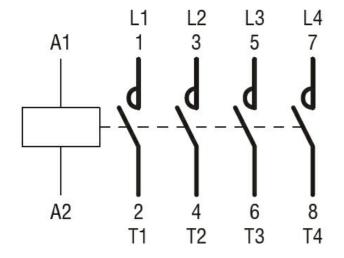


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	max	°C	80
Max altitude		m	3000
Resistance & Protection			
Pollution degree			3
Dimensions [mm (in)]			



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





