

# FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 1250A, AC COIL, 220...240VAC



Product designation Product type designation			Power contactor B1250
Contact characteristics			D1230
Number of poles		Nr.	4
Rated insulation voltage Ui IEC/EN		V	690
Rated impulse withstand voltage Uimp		kV	8
Operational frequency			
-1	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith		Α	1250
Operational current le			
•	AC-1 (≤40°C)	Α	1250
	AC-1 (≤55°C)	Α	1050
	AC-1 (≤70°C)	Α	880
Rated operational power AC-1 (T≤40°C)	,		
, ,	230V	kW	480
	400V	kW	830
	500V	kW	1100
	690V	kW	1450
Short-time allowable current for 10s (IEC/EN60947-1)		Α	6500
Protection fuse			
	gG (IEC)	Α	1250
Making capacity (RMS value)		Α	6300
Breaking capacity at voltage			
	440V	Α	6300
	500V	Α	5600
	690V	Α	5000
Resistance per pole (average value)		mΩ	7
Power dissipation per pole (average value)			
	Ith	W	110
Tightening torque for terminals			
	min	Nm	35
	max	Nm	35
	min	Ibin	25.8
	max	Ibin	25.8
Max number of wires simultaneously connectable		Nr.	2
Conductor section			
AWG/Kcmil			
	max		2x 1500kcmil
Power terminal protection according to IEC/EN 60529			IP00
Mechanical features			
Operating position			
	normal		Vertical plan
	allowable		±30°
Fixing			Screw



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Weight			g	5750
Conductor section				
	AWG/kcmil conductor section			
A. william and a to be	ot o viotico	max		2x 1500kcmil
Auxiliary contact chara Thermal current Ith	cteristics		۸	16
IEC/EN 60947-5-1 des	signation		Α	16 A600 - P600
Operating current AC1				A000 - F000
Operating current AO	3	230V	Α	3
		400V	A	1.9
		500V	A	1.4
Operating current DC1		0001	,,	
oporating current 201	_	110V	Α	5.7
Operating current DC1	  3	1101		
operaning carrein 20.		24V	Α	5.7
		48V	Α	2.9
		60V	Α	2.3
		125V	A	0.6
		220V	Α	0.2
		600V	Α	1.2
Operations				
Mechanical life			cycles	5000000
Electrical life			cycles	700000
Safety related data				
Performance level B10	0d according to EN/ISO 13489-1			
		rated load	cycles	700000
		mechanical load	cycles	5000000
Mirror contats according			yes	
EMC compatibility				yes
AC coil operating	2/22/1			
Rated AC voltage at 50	0/60Hz, 60Hz			
				000
		min	V	220
AC an austin a salta sa		min max	V V	220 240
AC operating voltage	of 50/001 le poil pour set et 501 le			
AC operating voltage	of 50/60Hz coil powered at 50Hz			
AC operating voltage	of 50/60Hz coil powered at 50Hz pick-up	max	V	240
AC operating voltage	· · · · · · · · · · · · · · · · · · ·	max min	V %Us	240 80
AC operating voltage	pick-up	max	V	240
AC operating voltage	· · · · · · · · · · · · · · · · · · ·	max min max	V %Us %Us	80 110
AC operating voltage	pick-up	max min max min	V %Us %Us %Us	80 110 20
AC operating voltage	pick-up drop-out	max min max	V %Us %Us	80 110
AC operating voltage	pick-up drop-out of 50/60Hz coil powered at 60Hz	max min max min	V %Us %Us %Us	80 110 20
AC operating voltage	pick-up drop-out	min max min max	V %Us %Us %Us %Us	80 110 20 60
AC operating voltage	pick-up drop-out of 50/60Hz coil powered at 60Hz	max min max min	V  %Us %Us %Us %Us %Us	80 110 20 60
AC operating voltage	of 50/60Hz coil powered at 60Hz pick-up	min max min max	V %Us %Us %Us %Us	80 110 20 60
AC operating voltage	pick-up drop-out of 50/60Hz coil powered at 60Hz	min max min max	V  %Us %Us %Us %Us %Us	80 110 20 60
AC operating voltage	of 50/60Hz coil powered at 60Hz pick-up	min max min max min max	%Us %Us %Us %Us %Us	80 110 20 60 80 110
AC operating voltage	of 50/60Hz coil powered at 60Hz pick-up	min max min max min max min max min	%Us %Us %Us %Us %Us	80 110 20 60 80 110 20
AC operating voltage	of 50/60Hz coil powered at 60Hz pick-up  drop-out	min max min max min max min max min	%Us %Us %Us %Us %Us	80 110 20 60 80 110 20
AC operating voltage	of 50/60Hz coil powered at 60Hz pick-up  drop-out  drop-out	min max min max min max min max min	%Us %Us %Us %Us %Us	80 110 20 60 80 110 20
AC operating voltage	of 50/60Hz coil powered at 60Hz pick-up  drop-out  drop-out	min max min max min max min max min max	%Us %Us %Us %Us %Us %Us %Us	80 110 20 60 80 110 20 60

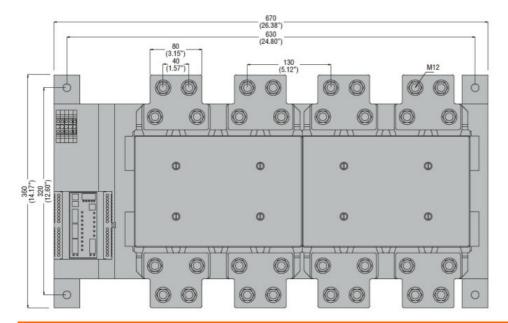


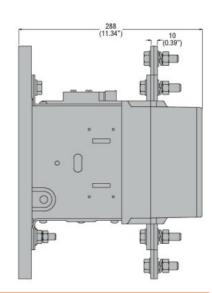
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Min						
AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz				min	%Us	20
1				max	%Us	60
In-rush   VA	AC average coil consu	•				
Moderation   Mo		of 50/60Hz coil powe	ered at 50Hz			
Of 50/60Hz coil powered at 60Hz						
In-rush   No.				holding	VA	45
Molding		of 50/60Hz coil powe	ered at 60Hz			
Dissipation at holding ≤20°C 50Hz				in-rush	VA	800
DC rated control voltage				holding		45
DC rated control voltage	Dissipation at holding	≤20°C 50Hz			W	40
DC operating voltage   pick-up   pick-up   min   vultage   vultage   pick-up   min   vultage   vultage	DC coil operating					
DC operating voltage   pick-up   pick-up	DC rated control voltage	je				
DC operating voltage   pick-up   min   %Us   80				min	V	220
Max cycles frequency				max	V	240
Max cycles frequency	DC operating voltage					
Max cycles frequency           Mechanical operation         cycles/h         1200           Operating times           Average time for Us control in AC           Min AC         min ms ms max ms		pick-up				
Mac cycles frequency           Mechanical operation         cycles/h         1200           Operating times           Average time for Us control in AC         min ms 300 max ms 450           Opening NO           Min ms 70 max ms 130           in DC           Closing NO           min ms 300 max ms 450           Opening NO           Min ms 70 max ms 450           Opening NO           UL technical data           Contact rating of auxiliary contacts according to UL         A600 - P600           Ambient conditions           Temperature           Min colspan="2">°C -50 max °C 60           Storage temperature           min colspan="2">°C -50 max °C 60           Storage temperature           min colspan="2">°C -60 max °C -60 max °C 80           Max altitude           Resistance & Protection           Pollution degree				min	%Us	80
Mechanical operation         cycles/h         1200           Operating times           Closing NO         min ms 300 max ms 450           Min max ms 130           Copening NO         min ms 300 max ms 450           Min min ms 300 max ms 450           Opening NO         min ms 300 max ms 130           UL technical data         Contact rating of auxiliary contacts according to UL         A600 - P600           Ambient conditions         Temperature           Operating temperature         min °C - 50 max °C - 60 max °	Max cycles frequency					
Operating times					cvcles/h	1200
Average time for Us control in AC    Closing NO	· · · · · · · · · · · · · · · · · · ·					
in AC  Closing NO  min ms 300 max ms 450  Opening NO  min ms 70 max ms 130  in DC  Closing NO  min ms 300 max ms 130  In DC  Closing NO  min ms 300 max ms 450  Opening NO  min ms 300 max ms 450  Opening NO  min ms 70 max ms 450  Opening NO  min ms 70 max ms 130  UL technical data  Contact rating of auxiliary contacts according to UL  About the conditions  Temperature  Operating temperature  Operating temperature  Storage temperature  min °C -50 max °C 60  Storage temperature  min °C -60 max °C 80  Max altitude  Resistance & Protection  Pollution degree  3		ontrol				
Closing NO						
Opening NO			Closing NO			
Opening NO			Gloomig 110	min	ms	300
Opening NO						
Min			Opening NO	Παλ	1113	400
Max			Opening NO	min	me	70
Closing NO						
Closing NO		in DC		IIIax	1113	130
Min		III DO	Closing NO			
Max ms 450           Opening NO           Image: Max ms 70 max ms 130           UL technical data           Contact rating of auxiliary contacts according to UL         A600 - P600           Ambient conditions           Temperature           Min °C -50 max °C 60           Storage temperature           min °C -60 max °C 80           Max altitude           Max altitude         m 3000           Resistance & Protection           Pollution degree         3			Closing NO	min	me	300
Opening NO           min ms 70 max ms 130           UL technical data           Contact rating of auxiliary contacts according to UL         A600 - P600           Ambient conditions           Temperature           min °C -50 max °C 60           Storage temperature           Max altitude         min °C -60 max °C 80           Max altitude         m 3000           Resistance & Protection           Pollution degree         3						
Max altitude			Oponing NO	Παλ	1113	430
Max ms   130			Opening NO	min	ma	70
Contact rating of auxiliary contacts according to UL						
Contact rating of auxiliary contacts according to UL         A600 - P600           Ambient conditions           Temperature           min         °C         -50           max         °C         60           Storage temperature         min         °C         -60           max         °C         80           Max altitude         m         3000           Resistance & Protection         Pollution degree         3	III. toobnical data			IIIdX	1115	130
Ambient conditions		an contacta according	to I II			A600 D600
Operating temperature		ary contacts according	IU UL			A000 - P000
Operating temperature           min         °C         -50           max         °C         60           Storage temperature         min         °C         -60           max         °C         80           Max altitude         m         3000           Resistance & Protection         3           Pollution degree         3						
min mm mm mmx         °C max         -50 max           Storage temperature         min °C -60 max         °C 80           Max altitude         m 3000           Resistance & Protection         3	remperature	On another a trace of				
Max         °C         60           Storage temperature         min °C -60 max °C 80           Max altitude         m 3000           Resistance & Protection         3		Operating temperatu	re		۰.	50
Storage temperature           min max         °C -60 -60 max           Max altitude         m 3000           Resistance & Protection           Pollution degree         3						
min max         °C -60 max         -60 80           Max altitude         m 3000           Resistance & Protection         3           Pollution degree         3		<del></del>		max	J.C	60
Max altitudemax°C80Resistance & Protectionm3000Pollution degree3		Storage temperature			2.5	
Max altitude m 3000  Resistance & Protection  Pollution degree 3						
Resistance & Protection  Pollution degree 3				max		
Pollution degree 3					m	3000
		on				
Dimensions						3
	Dimensions					

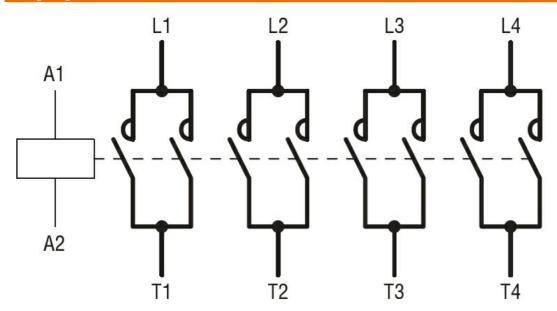
**ENERGY AND AUTOMATION** 

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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

ETIM classification

**ETIM 8.0** 

EC000066 -Power contactor, AC switching