**ENERGY AND AUTOMATION** 

## FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 125A, AC COIL 50/60HZ,



Product designation Product type designation			Power contactor 11BF80
Contact characteristics			IIDFOU
Number of poles		Nr.	4
Rated insulation voltage Ui IEC/EN		V	1000
Rated impulse withstand voltage Uimp		kV	8
Operational frequency			
operational inequality	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith		Α	125
Operational current le			
•	AC-1 (≤40°C)	Α	125
	AC-3 (≤440V ≤55°C)	Α	80
	AC-4 (400V)	Α	38
Rated operational power AC-1 (T≤40°C)	· ,		
	230V	kW	47
	400V	kW	82
	500V	kW	108
	690V	kW	128
Short-time allowable current for 10s (IEC/EN60947-1)		Α	480
Protection fuse			
	gG (IEC)	Α	160
	aM (IEC)	Α	80
Making capacity (RMS value)		Α	1200
Breaking capacity at voltage			
	440V	Α	1200
	500V	Α	1050
	690V	Α	800
Resistance per pole (average value)		mΩ	0.6
Power dissipation per pole (average value)			
	lth -	W	9.4
	AC3	W	3.8
Tightening torque for terminals			
	min	Nm	4
	max	Nm	5
	min	lbin	2.95
Timber in a town of the call town in a	max	lbin	3.7
Tightening torque for coil terminal	. •	N.L.	0.0
	min	Nm	0.8
	max	Nm	1
	min	lbin Ibin	0.8
May number of wires simultaneously connectable	max	Ibin	0.74
Max number of wires simultaneously connectable		Nr.	1

Conductor section

AWG/Kcmil



## FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 125A, AC COIL 50/60HZ, 230VAC

				- /-
	<del></del>	max		2/0
	Flexible w/o lug conductor section		2	0
		min	mm²	6
	Florible a/w lug conductor costion	max	mm²	50
	Flexible c/w lug conductor section	i	· 2	0
		min	mm²	6
5	'	max	mm²	50
-	ion according to IEC/EN 60529			IP20 front
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw
Weight			g	1575
Conductor section				
	AWG/kcmil conductor section			
		max		2/0
Operations				
Mechanical life			cycles	15000000
Electrical life			cycles	1300000
Safety related data				
Performance level B10	d according to EN/ISO 13489-1			
		rated load	cycles	1300000
		mechanical load	cycles	15000000
Mirror contats accordir	ng to IEC/EN 609474-4-1			yes
EMC compatibility				yes
AC coil operating				
Rated AC voltage at 50	0/60Hz		V	230
AC operating voltage				
	of 50/60Hz coil powered at 50Hz			
	of 50/60Hz coil powered at 50Hz pick-up			
	-	min	%Us	80
	-	min max	%Us %Us	80 110
	-			
	pick-up			
	pick-up	max	%Us	110
	pick-up	max min	%Us %Us	110 20
	pick-up drop-out	max min	%Us %Us	110 20
	pick-up drop-out of 50/60Hz coil powered at 60Hz	max min	%Us %Us	110 20
	pick-up drop-out of 50/60Hz coil powered at 60Hz	max min max	%Us %Us %Us	110 20 55
	pick-up  drop-out  of 50/60Hz coil powered at 60Hz pick-up	max min max min	%Us %Us %Us	110 20 55 80
	pick-up drop-out of 50/60Hz coil powered at 60Hz	max min max min	%Us %Us %Us	110 20 55 80
	pick-up  drop-out  of 50/60Hz coil powered at 60Hz pick-up	max min max min max	%Us %Us %Us %Us %Us %Us %Us	110 20 55 80 110
AC average coil consu	pick-up  drop-out  of 50/60Hz coil powered at 60Hz pick-up  drop-out	max min max min max min max	%Us %Us %Us %Us %Us	110 20 55 80 110 40
AC average coil consu	pick-up  drop-out  of 50/60Hz coil powered at 60Hz pick-up  drop-out	max min max min max min max	%Us %Us %Us %Us %Us %Us %Us	110 20 55 80 110 40
AC average coil consu	pick-up  drop-out  of 50/60Hz coil powered at 60Hz pick-up  drop-out	max min max min max min max	%Us %Us %Us %Us %Us %Us %Us	110 20 55 80 110 40 55
AC average coil consu	pick-up  drop-out  of 50/60Hz coil powered at 60Hz pick-up  drop-out	max min max min max min max in-rush	%Us %Us %Us %Us %Us %Us %Us %Us	110 20 55 80 110 40 55
AC average coil consu	pick-up  drop-out  of 50/60Hz coil powered at 60Hz pick-up  drop-out  mption at 20°C of 50/60Hz coil powered at 50Hz	max min max min max min max	%Us %Us %Us %Us %Us %Us %Us %Us	110 20 55 80 110 40 55
AC average coil consu	pick-up  drop-out  of 50/60Hz coil powered at 60Hz pick-up  drop-out	max min max min max min max in-rush holding	%Us %Us %Us %Us %Us %Us %Us	110 20 55 80 110 40 55
AC average coil consu	pick-up  drop-out  of 50/60Hz coil powered at 60Hz pick-up  drop-out  mption at 20°C of 50/60Hz coil powered at 50Hz	max min max min max min max in-rush holding in-rush	%Us	110 20 55 80 110 40 55 200 18
AC average coil consu	pick-up  drop-out  of 50/60Hz coil powered at 60Hz pick-up  drop-out  mption at 20°C of 50/60Hz coil powered at 50Hz  of 50/60Hz coil powered at 60Hz	max min max min max min max in-rush holding	%Us %Us %Us %Us %Us %Us %Us	110 20 55 80 110 40 55
AC average coil consu	pick-up  drop-out  of 50/60Hz coil powered at 60Hz pick-up  drop-out  mption at 20°C of 50/60Hz coil powered at 50Hz	max min max min max min max in-rush holding in-rush holding	%Us %Us %Us %Us %Us %Us %Us VA VA VA	110 20 55 80 110 40 55 200 18 200 15
AC average coil consu	pick-up  drop-out  of 50/60Hz coil powered at 60Hz pick-up  drop-out  mption at 20°C of 50/60Hz coil powered at 50Hz  of 50/60Hz coil powered at 60Hz	max min max min max min max in-rush holding in-rush	%Us	110 20 55 80 110 40 55 200 18

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## FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 125A, AC COIL 50/60HZ, 230VAC

Dissipation at holding	≤20°C 50Hz			W	6
DC coil operating  Average coil consump	stion <20°C				
Average con consump	00011 ≥20 °C		in-rush	W	45
			holding	W	75
Max cycles frequency			riolaling	• • • • • • • • • • • • • • • • • • • •	70
Mechanical operation				cycles/h	3600
Operating times					
Average time for Us co	ontrol				
	in AC				
		Closing NO			
			min	ms	13
			max	ms	28
		Opening NO			
			min	ms	6
			max	ms	19
	in DC	Obert NO			
		Closing NO			40
			min	ms	40
		Opening NO	max	ms	85
		Opening NO	min	me	20
			max	ms ms	55
UL technical data			IIIdx	1113	33
Full-load current (FLA)	) for three-phase AC m	otor			
r dir load odiront (i Ez t)	, for times phase 7.0 m	otor	at 480V	Α	77
			at 600V	Α	77
Yielded mechanical pe	erformance		4.0007		••
riolada moonamoan pe	for three-phase AC r	notor			
	, , , , , , , , , , , , , , , , , , ,		200/208V	HP	25
			220/230V	HP	30
			460/480V	HP	60
			575/600V	HP	75
General USE					
	Contactor				
			AC current	Α	125
Ambient conditions					
Temperature					
	Operating temperatu	re			
			min	°C	-50
			max	°C	70
	Storage temperature		_	2.2	00
			min	°C	-60
May altitude			max	°C	80
Max altitude Resistance & Protection	on			m	3000
	OIT				3
Pollution degree Certifications and com	nliance				ა 
	pliance				
Compliance	CSA C22.2 n° 60947	7 <sub>-</sub> 1			
	CSA C22.2 n° 60947				
	IEC/EN 60947-1	<del>, -4-</del> 1			
	IEC/EN 60947-1				
	120/211 00347-4-1				



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## 11BF8040230

FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 125A, AC COIL 50/60HZ,

	UL 60947-1	
	UL 60947-4-1	
Certificates		
	CCC	
	CSA	
	cULus	
	EAC	

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching