11BF6500230

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 65A, AC COIL 50/60HZ, 230VAC

Product designation			Power contactor
Product type designation			11BF65
Contact characteristics			
Number of poles		Nr.	3
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		A	110
Operational current Ie			
	AC-1 (≤40°C)	A	110
	AC-3 (≤440V ≤55°C)	A	65
	AC-4 (400V)	A	31
Rated operational power AC-1 (T≤40°C)			
	230V	kW	41
	400V	kW	72
	500V	kW	95
	690V	kW	112
Short-time allowable current for 10s (IEC/EN60947-1)		A	390
Protection fuse			
	gG (IEC)	A	125
	aM (IEC)	A	80
Making capacity (RMS value)		A	1090
Breaking capacity at voltage			
	440V	A	1090
	500V	A	830
	690V	A	630
Resistance per pole (average value)		mΩ	0.8
Power dissipation per pole (average value)			
	Ith	W	9.7
	AC3	W	3.4
Tightening torque for terminals			
	min	Nm	4
	max	Nm	5
	min	lbin	2.95
	max	lbin	3.7
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	lbft	0.8
	max	lbft	0.74
Max number of wires simultaneously connectable		Nr.	1
Conductor section			
Flexible w/o lug conductor section			

		min	mm²	6
		max	mm²	50
	Flexible c/w lug conductor section			
		min	mm²	6
		max	mm²	50
Power terminal protection according to IEC/EN 60529				IP20 front
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail 35mm
Weight			g	1360
Operations				
Mechanical life			cycles	15000000
Electrical life			cycles	1400000
Safety related data				
Performance level B10d according to EN/ISO 13489-1				
		rated load	cycles	1400000
		mechanical load	cycles	15000000
Mirror contats according to IEC/EN 609474-4-1				Yes
EMC compatibility				Yes
AC coil operating				
Rated AC voltage at 50/60Hz			V	230
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 55
	of 50/60Hz coil powered at 60Hz			
		pick-up		
			min	%Us 80
			max	%Us 110
		drop-out		
			min	%Us 40
			max	%Us 55
AC average coil consumption at 20°C				
	of 50/60Hz coil powered at 50Hz			
			in-rush	VA 200
			holding	VA 18
	of 50/60Hz coil powered at 60Hz			
			in-rush	VA 200
			holding	VA 15
	of 60Hz coil powered at 60Hz			
			in-rush	VA 220
			holding	VA 18
Dissipation at holding ≤20°C 50Hz			W	6
DC coil operating				
Average coil consumption ≤20°C				
			in-rush	W 45
			holding	W 75

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Max cycles frequency					
Mechanical operation				cycles/h	3600
Operating times					
Average time for Us control					
	in AC				
		Closing NO			
			min	ms	13
			max	ms	28
		Opening NO			
			min	ms	6
			max	ms	19
	in DC				
		Closing NO			
			min	ms	40
			max	ms	85
		Opening NO			
			min	ms	20
			max	ms	55
UL technical data					
Full-load current (FLA) for three-phase AC motor					
			at 480V	A	65
			at 600V	A	62
Yielded mechanical performance					
	for three-phase AC motor				
			200/208V	HP	20
			220/230V	HP	25
			460/480V	HP	50
			575/600V	HP	60
General USE					
	Contactor				
			AC current	A	110
Ambient conditions					
Temperature					
	Operating temperature				
			min	°C	-50
			max	°C	70
	Storage temperature				
			min	°C	-60
			max	°C	80
Max altitude				m	3000
Resistance & Protection					
Pollution degree					3
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				
	CSA				

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