11BF650024



THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 65A, AC COIL 50/60HZ, 24VAC



Product designation			Power contactor
Product type designation			11BF65
Contact characteristics			
Number of poles		nr.	3
Rated insulation voltage Ui		V	1000
Rated impulse withstand voltage Uimp		kV	8
Operating frequency			0
oporating noquonoy	Operational frequency min	Hz	25
	Operational frequency max	Hz	400
Conventional free air thermal current Ith		A	110
Operating current		7.	110
operating ourient	Operational current AC1 (≤40°C)	А	110
	Operational current AC3 (≤440V ≤55°C)	A	65
	Operational current AC4 (400V)	A	31
Rated operational power AC1 (T≤40°C)			01
	230V	kW	41
	400V	kW	72
	500V	kW	95
	690V	kW	112
Rated operational power AC3A (T≤55°C)	0001		112
	Rated operational power AC3 (T≤55°C) 230)\/ k\//	18.5
	Rated operational power AC3 (T≤55°C) 400		33
	Rated operational power AC3 (T≤55°C) 415		36
	Rated operational power AC3 (T≤55°C) 440		36
	Rated operational power AC3 (T≤55°C) 500		45.3
	Rated operational power AC3 (T≤55°C) 690		59.7
	Rated operational power AC3 (T≤55°C) 100		30
Short-time allowable current for 10s (IEC/EN		A	390
Protection fuse		7.	
	gG (IEC)	А	125
	aM (IEC)	A	80
Making capacity (RMS value)		A	1090
Breaking capacity at voltage		7.	1000
Breaking capacity at voltage	Breaking capacity 440V	А	1090
	Breaking capacity 500V	A	830
	Breaking capacity 690V	A	630
Resistance per pole (average value)		mΩ	0.8
Power dissipation per pole (average value)		11132	0.0
Tower dissipation per pole (average value)	Power dissipation pole (average value) Ith	W	9.7
	AC3	W	3.4
Tightening torque for terminals	A03	~ ~	0.7
	min	Nm	4
	max	Nm	5
	min	lbft	2.95
	max	lbft	3.7
	IIIdX	ion	5.7



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Tightening torque for c	coil terminal			
		min	Nm	0.8
		max	Nm	1
		min	lbft	0.8
		max	lbft	0.74
max number of wires s	simultaneously connectable		nr.	1
Conductor section				
	AWG			
		min		14
		max		2/0
	Flexible w/o lug conductor section			
		min	mm²	6
		max	mm²	50
	Flexible c/w lug conductor section			00
		min	mm²	6
		max	mm²	50
Dower terminal protect	tion according to IEC/EN 60529	Παλ	111111	IP20 front
Auxiliary contact chara				
			A	110
Operational current AC			А	1 IU
Operating current DC1	13			Carau / DIN
		110V	А	Screw / DIN rail
				35mm
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	70
	Storage temperature			
		min	°C	-60
		max	°C	80
Vax altitude			m	3000
Operating position				
		normal		Vertical plan
		allowable		±30°
Mounting				Screw / DIN rail
viouriung				35mm
Weight			g	1.36
Operations				
Mechanical life			Cycles	15000000
Electrical life			Cycles	1400000
Safety related data			ý	
	0d according to EN/ISO 13489-1			
	J	rated load	Cicli	1400000
		mechanical load	Cicli	15000000
Mirror contats accordi	ng to IEC/EN 609474-4-1		0.00	yes
EMC compatibility	S C LOLIN COUTHER I			yes
AC coil operating				y 0.0
AC operating voltage				
	of 50/60Hz coil powered at 50Hz			
	pick-up		0/11	
		min	%Us	0.8
		max	%Us	1.1
	drop-out			

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		min	%Us	0.2
		max	%Us	0.55
	of 50/60Hz coil powered at 60Hz			
	pick-up		0/11-	0.05
		min	%Us	0.85
	drop out	max	%Us	1.1
	drop-out	min	%Us	0.4
		max	%Us	0.55
	of 60Hz coil powered at 60Hz	Пах	/000	0.00
	pick-up			
	hier eh	min	%Us	0.8
		max	%Us	1.1
	drop-out			
		min	%Us	0.2
		max	%Us	0.55
AC operating voltage				
	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
<u></u>		holding	VA	18
Dissipation at holding	<20°C 50Hz		10/	6
			W	0
DC coil operating			VV	0
DC coil operating DC operating voltage			VV	0
DC coil operating		in ruch		
DC coil operating DC operating voltage		in-rush	W	45
DC coil operating DC operating voltage Average coil consuption		in-rush holding		
DC coil operating DC operating voltage Average coil consuption Max cycles frequency	on ≤20°C	holding	W W	45 75
DC coil operating DC operating voltage Average coil consuption Max cycles frequency Mechanical operations	on ≤20°C	holding	W	45 75
DC coil operating DC operating voltage Average coil consuption Max cycles frequency Mechanical operations Operating times	on ≤20°C	holding	W W	45 75
DC coil operating DC operating voltage Average coil consuption Max cycles frequency Mechanical operations	on ≤20°C s ontrol	holding	W W	45 75
DC coil operating DC operating voltage Average coil consuption Max cycles frequency Mechanical operations Operating times	on ≤20°C s ontrol in AC	holding	W W	45 75
DC coil operating DC operating voltage Average coil consuption Max cycles frequency Mechanical operations Operating times	on ≤20°C s ontrol	holding	W W	45 75
DC coil operating DC operating voltage Average coil consuption Max cycles frequency Mechanical operations Operating times	on ≤20°C s ontrol in AC	holding	W W Cycles/h	45 75 3600
DC coil operating DC operating voltage Average coil consuption Max cycles frequency Mechanical operations Operating times	on ≤20°C s ontrol in AC	holding	W W Cycles/h	45 75 3600 13
DC coil operating DC operating voltage Average coil consuption Max cycles frequency Mechanical operations Operating times	on ≤20°C s ontrol in AC Closing NO	holding	W W Cycles/h	45 75 3600 13
DC coil operating DC operating voltage Average coil consuption Max cycles frequency Mechanical operations Operating times	on ≤20°C ontrol in AC Closing NO	holding min max	W W Cycles/h ms ms	45 75 3600 13 28
DC coil operating DC operating voltage Average coil consuption Max cycles frequency Mechanical operations Operating times	on ≤20°C s ontrol in AC Closing NO Opening NO	holding min max min	W W Cycles/h ms ms ms	45 75 3600 13 28 6
DC coil operating DC operating voltage Average coil consuption Max cycles frequency Mechanical operations Operating times	on ≤20°C ontrol in AC Closing NO	holding min max min max	W W Cycles/h ms ms ms	45 75 3600 13 28 6 19
DC coil operating DC operating voltage Average coil consuption Max cycles frequency Mechanical operations Operating times	on ≤20°C s ontrol in AC Closing NO Opening NO	holding min max min max	W W Cycles/h ms ms ms ms	45 75 3600 13 28 6 19 40
DC coil operating DC operating voltage Average coil consuption Max cycles frequency Mechanical operations Operating times	on ≤20°C ontrol in AC Closing NO Opening NO in DC Closing NO	holding min max min max	W W Cycles/h ms ms ms ms	45 75 3600 13 28 6 19
DC coil operating DC operating voltage Average coil consuption Max cycles frequency Mechanical operations Operating times	on ≤20°C s ontrol in AC Closing NO Opening NO	holding min max min max	W W Cycles/h ms ms ms ms ms ms	45 75 3600 13 28 6 19 40 85
DC coil operating DC operating voltage Average coil consuption Max cycles frequency Mechanical operations Operating times	on ≤20°C ontrol in AC Closing NO Opening NO in DC Closing NO	holding min max min max min max min	W W Cycles/h ms ms ms ms ms ms ms	45 75 3600 13 28 6 19 40 85 20
DC coil operating DC operating voltage Average coil consuption Max cycles frequency Mechanical operations Operating times Average time for Us co	on ≤20°C ontrol in AC Closing NO Opening NO in DC Closing NO	holding min max min max	W W Cycles/h ms ms ms ms ms ms	45 75 3600 13 28 6 19 40 85
DC coil operating DC operating voltage Average coil consuption Max cycles frequency Mechanical operations Operating times Average time for Us co	on ≤20°C ontrol in AC Closing NO Opening NO in DC Closing NO Opening NO	holding min max min max min max min	W W Cycles/h ms ms ms ms ms ms ms	45 75 3600 13 28 6 19 40 85 20
DC coil operating DC operating voltage Average coil consuption Max cycles frequency Mechanical operations Operating times Average time for Us co	on ≤20°C ontrol in AC Closing NO Opening NO in DC Closing NO	holding min max min max min max	W W Cycles/h ms ms ms ms ms ms ms ms ms	45 75 3600 13 28 6 19 40 85 20 55
DC coil operating DC operating voltage Average coil consuption Max cycles frequency Mechanical operations Operating times Average time for Us co	on ≤20°C ontrol in AC Closing NO Opening NO in DC Closing NO Opening NO	holding min max min max min max min	W W Cycles/h ms ms ms ms ms ms ms	45 75 3600 13 28 6 19 40 85 20

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Yielded mechanica	al performance			
	for three-phase AC motor			
		at 200/208V	hp	20
		at 220/230V	hp	25
		at 460/480V	hp	50
		at 575/600V	hp	60
General USE				
	Contactor			
		AC current	А	110
Other features				
Pollution degree				3
Certifications and o	compliance			
Certifications				
	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			
Compliance				
	CCC			
	CSA			
	cULus			
	EAC			
ETIM 6 classification				

EC000066 - Power contactor, AC switching