11BF5000230



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



Product designation			Power contactor
Product type designation			11BF50
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		А	90
Operational current le			
	AC-1 (≤40°C)	А	90
	AC-3 (≤440V ≤55°C)	А	50
	AC-4 (400V)	А	28
Rated operational power AC-1 (T≤40°C)			
	230V	kW	34
	400V	kW	59
	500V	kW	74
	690V	kW	98
Short-time allowable current for 10s (IEC/EN60947-1)		А	390
Protection fuse			
	gG (IEC)	А	100
	aM (IEC)	А	50
Making capacity (RMS value)		А	800
Breaking capacity at voltage			
	440V	А	800
	500V	А	660
	690V	А	500
Resistance per pole (average value)		mΩ	0.8
Power dissipation per pole (average value)			
	Ith	W	6.5
	AC3	W	2
Tightening torque for terminals			
	min	Nm	4
	max	Nm	5
	min	lbin	2.95
	max	Ibin	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

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		2	0
	min	mm²	6
	max	mm²	50
Flexible c/w lug conductor section			0
	min	mm²	6 50
Dower terminal protection according to IEC/EN 60520	max	mm²	IP20 front
Power terminal protection according to IEC/EN 60529 Mechanical features			IP20 ITOIIL
Operating position			
Operating position	normal		Vortical plan
	allowable		Vertical plan ±30°
	allowable		Screw / DIN rail
Fixing			35mm
Weight		g	1360
Operations		9	1000
Mechanical life		cycles	15000000
Electrical life		cycles	1500000
Safety related data		0,000	
Performance level B10d according to EN/ISO 13489-1			
	rated load	cycles	1500000
	mechanical load	cycles	1500000
Mirror contats according to IEC/EN 609474-4-1	meenanicaricad	oyoloo	Yes
EMC compatibility			Yes
AC coil operating			100
Rated AC voltage at 50/60Hz		V	230
AC operating voltage		•	200
of 50/60Hz coil powered at 50Hz			
pick-up			
hier sh	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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The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding

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ENERGY AND AUTOMATION

Max cycles frequen	*			
Mechanical operatio	n		cycles/h	3600
Operating times				
Average time for Us				
	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				
	A) for three-phase AC motor			
Υ.		at 480V	А	40
		at 600V	А	41
Yielded mechanical	performance			
	for single-phase AC motor			
		110/120V	HP	5
		230V	HP	10
	for three-phase AC motor	2001		10
		200/208V	HP	10
		220/230V	HP	15
		460/480V	HP	30
		575/600V	HP	40
General USE		575/0000		40
General USE	Contenter			
	Contactor		•	00
A 1.1 . 11.1		AC current	A	90
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	70
	Storage temperature			
		min	°C	-60
		max	°C	80
Max altitude			m	3000
Resistance & Prote	ction			
Pollution degree				3
Certifications and co	ompliance			
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			
cULus			
EAC			