



Product designation			Power contactor
Product type designation			BF18
Contact characteristics		Nle	4
Number of poles Rated insulation voltage Ui IEC/EN		Nr. V	4 690
Rated impulse withstand voltage Uimp		kV	6
Operational frequency		κv	0
Operational frequency	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith	IIIdA	A	32
Operational current le		~	52
	AC-1 (≤40°C)	А	32
	AC-1 (≤55°C)	A	26
	AC-1 (≤70°C)	A	23
	AC-3 (≤440V ≤55°C)	A	18
	AC-4 (400V)	A	8.5
Rated operational power AC-1 (T≤40°C)			
	230V	kW	12
	400V	kW	21
	500V	kW	26
	690V	kW	36
Short-time allowable current for 10s (IEC/EN60947-1)		А	200
Protection fuse			
	gG (IEC)	А	32
	aM (IEC)	А	20
Making capacity (RMS value)		А	180
Breaking capacity at voltage			
	440V	А	144
	500V	А	120
	690V	А	94
Resistance per pole (average value)		mΩ	2.5
Power dissipation per pole (average value)			
	Ith	W	2.6
	AC-3	W	0.8
Tightening torque for terminals			
	min	Nm	1.5
	max	Nm	1.8
	min	Ibin	1.1
	max	lbin	1.5
Tightening torque for coil terminal		N I	0.0
	min	Nm	0.8
	max	Nm	1
	min	lbin Ibin	0.8
May number of uitage simultaneously compared	max	Ibin	0.74
Max number of wires simultaneously connectable		Nr.	2



Conductor section

Conductor section				
	AWG/Kcmil			
		max		10
	Flexible w/o lug conductor section		2	
		min	mm²	1
		max	mm²	6
	Flexible c/w lug conductor section	min	mm2	4
		min	mm² mm²	1 4
	Flexible with insulated spade lug conductor s	max	111111	4
	Thexible with insulated space by conductor s	min	mm²	1
		max	mm²	4
				IP20 when
Power terminal protect	ction according to IEC/EN 60529			properly wired
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail
				35mm
Weight			g	352
Conductor section				
	AWG/kcmil conductor section			
		max		10
Operations				
Mechanical life			cycles	2000000
Electrical life			cycles	1600000
Safety related data				
Performance level B1	0d according to EN/ISO 13489-1	امما اممنور	ovele e	100000
		rated load mechanical load	cycles	1600000 20000000
Mirror contate accordi	ing to IEC/EN 609474-4-1		cycles	YES
EMC compatibility				
AC coil operating				yes
Rated AC voltage at 6	ΩHz		V	230
AC operating voltage			v	200
/ Coporating voltage	of 60Hz coil powered at 60Hz			
	pick-up			
	plot dp	min	%Us	80
		max	%Us	110
	drop-out			
		min	%Us	20
		max	%Us	55
AC average coil cons	umption at 20°C			
	of 60Hz coil powered at 60Hz			
		in-rush	VA	75
		holding	VA	9
Dissipation at holding			W	2.5
Max cycles frequency				
Mechanical operation			cycles/h	3600
Operating times				
Average time for Us c				
	in AC			

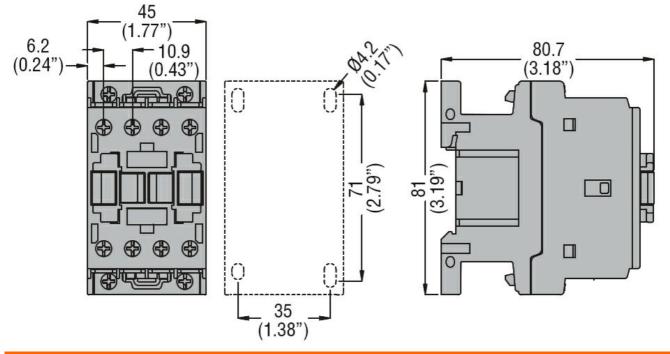
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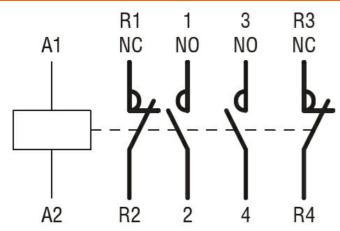
FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 32A, AC COIL 60HZ, 230VAC, 2NO AND 2NC

	Closing NO			
		min	ms	8
	• • • • •	max	ms	24
	Opening NO			
		min	ms	10
		max	ms	20
	Closing NC			
		min	ms	14
		max	ms	28
	Opening NC			7
		min	ms	7
		max	ms	18
UL technical data	for three phase AC meter			
Full-load current (FLA)) for three-phase AC motor	-1 40014	٨	4.4
		at 480V	A	14
		at 600V	A	17
Yielded mechanical pe				
	for single-phase AC motor	440/4001/		4
		110/120V	HP	1
		230V	HP	3
	for three-phase AC motor	000/0001/		-
		200/208V	HP	5
		220/230V	HP	5
		460/480V	HP	10
		575/600V	HP	15
General USE				
	Contactor	10		
A LES A LESS		AC current	A	32
Ambient conditions				
Temperature				
	Operating temperature		• •	50
		min	°C	-50
	<u></u>	max	°C	70
	Storage temperature			00
		min	°C	-60
		max	°C	80
Max altitude			m	3000
Resistance & Protection	on			
Pollution degree				3
Dimensions				





Wiring diagrams



Certifications and compliance

Compliance		
	CSA C22.2 n° 60947-1	
	CSA C22.2 n° 60947-4-1	
	IEC/EN/BS 60947-1	
	IEC/EN/BS 60947-4-1	
	UL 60947-1	
	UL 60947-4-1	
Certificates		
	CCC	
	cULus	
	EAC	
ETIM classification		
ETIM 8.0		EC000066 - Power contactor, AC switching