FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 32A, AC COIL 50/60HZ, 230VAC



Product designation		Power contactor
Product type designation		BF18
Contact characteristics		
Number of poles	nr.	3
Rated insulation voltage Ui	V	690
Rated impulse withstand voltage Uimp	kV	6
Operating frequency		
Operational frequency min	Hz	25
Operational frequency max	Hz	400
Conventional free air thermal current Ith	Α	32
Operating current		
Operational current AC3 (≤440V ≤55°C)	Α	18
Operational current AC4 (400V)	Α	8.5
Short-time allowable current for 10s (IEC/EN60947-1)	Α	200
Protection fuse		
gG (IEC)	Α	32
aM (IEC)	Α	20
Making capacity (RMS value)	Α	180
Breaking capacity at voltage		
Breaking capacity 440V	Α	144
Breaking capacity 500V	Α	120
Breaking capacity 690V	Α	94
Resistance per pole (average value)	mΩ	2.5
Power dissipation per pole (average value)		
Power dissipation pole (average value) Ith	W	2.6
AC3	W	0.8
Tightening torque for terminals		
min	Nm	1.5
max	Nm	1.8
min	lbft	1.1
max	lbft	1.5
Tightening torque for coil terminal		
min	Nm	0.8
max	Nm	1
min	lbft	0.59
max	lbft	0.74
max number of wires simultaneously connectable	nr.	2
Conductor section		
AWG		
min		16
max		10
Flexible w/o lug conductor section		
min	mm²	1
max	mm²	6
Flexible c/w lug conductor section		



	m		
	ma	ıx mm²	2 4
	Flexible with insulated spade lug conductor section		
	m	n mm²	2 1
	ma	ıx mm²	² 4
Power terminal protect	ion according to IEC/EN 60529		IP20
Auxiliary contact chara			
Type of contact			1 NA
Thermal current Ith		Α	32
	vignation		A600
IEC/EN 60947-5-1 des	ngnation		Abuu
Ambient conditions			
Temperature			
	Operating temperature		
	m	_	-50
	ma	x °C	70
	Storage temperature		
	m	n °C	-60
	ma	0.0	80
Max altitude	1110	m	3,000
Operating position		- 111	3,000
operating position		al	Vertical plan
	norm		Vertical plan
·	allowab	е	±30°
Mounting			Screw / DIN rail
			35mm
Weight		g	0.367
Operations			
Mechanical life		Cycle	es 20,000,000
Electrical life		Cycle	es 1600000
Safety related data			
	od according to EN/ISO 13489-1 -		
	Performance level B10d according to Ef	J/ISO(Ii&I	.89-11 0a10101 0ad
	Performance level B10d according to E1		
Mirror contate accordin	ng to IEC/EN 609474-4-1	N/ IOO CINDA	Yes
	ig to IEC/EN 609474-4-1		
EMC compatibility			Yes
AC coil operating			
Rated AC voltage at 50	0/60Hz, 60Hz		
	m	n V	12
	ma	x V	600
AC operating voltage			_
. 5 5	of 50/60Hz coil powered at 50Hz		
	pick-up		
	pick up	n %Us	s 80
	drop out	ıx %Us	5 110
	drop-out		00
	m		
	ma	ıx %Us	5 55
	of 50/60Hz coil powered at 60Hz		
	pick-up		
	m	n %Us	s 85
	ma		
	drop-out	,	-
	m	n %Us	s 20
	ma	ı∧ -⁄₀US	5 JJ

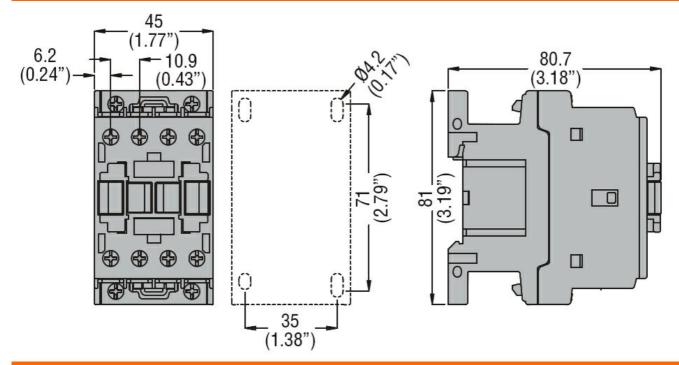


	of 60Hz coil powered at 60Hz			
	pick-up	i	0/11	0.0
		min	%Us	80
		max	%Us	110
	drop-out			
		min	%Us	20
		max	%Us	55
AC operating voltage				
	of 50/60Hz coil powered at 50Hz			
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	in-rush	VA	75
		holding	VA	9
	of 50/60Hz coil powered at 60Hz	Holding	VA	<u> </u>
	of 50/00Hz coil powered at 60Hz	مام س من	١/٨	70
		in-rush	VA	70
		holding	VA	6.5
	of 60Hz coil powered at 60Hz			
		in-rush	VA	75
		holding	VA	9
Dissipation at holding	≤20°C 50Hz		W	2.5
Max cycles frequency				
Mechanical operations	<u> </u>		Cycles/h	3,600
Operating times				·
Average time for Us co	ontrol			
, wordings and so so	in AC			
	Closing NO			
	Closling NO	min	mo	8
			ms	
	0	max	ms	24
	Opening NO			
		min	ms	10
		max	ms	20
	Closing NC			
		min	ms	14
		max	ms	28
	Opening NC			
	, -	min	ms	7
		max	ms	18
UL technical data				
) for three-phase AC motor			
oanon (i Li)	, p // // // // // // // // // // //	at 480V	Α	14
		at 600V	A	17
Violded mask-risel	orformana	ai 000 V	Α	1 /
Yielded mechanical pe				
	for single-phase AC motor			
		at 110/120V	hp	1
		at 230V	hp	3
	for three-phase AC motor			
		at 200/208V	hp	5
		at 220/230V	hp	5
		at 460/480V	hp	10
		at 575/600V	hp	15
Contact rating of auxili	ary contacts according to UL			SI - A600
General USE				3. 7.000
Contrat OOL	Contactor			
	Contactor	AC 01100001	٨	22
	Austrian contosts	AC current	A	32
	Auxiliary contacts	A O 11		222
		AC voltage	V	600

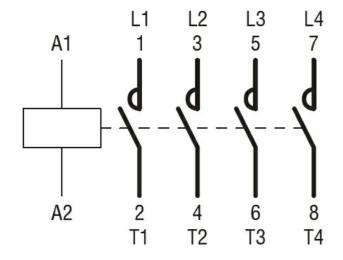


AC current A 10
DC voltage V 250
DC current A 1

Dimensions



Wiring diagrams



Certifications and 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

cULus

EAC

ETIM 6 classification





EC000066 - Power contactor, AC switching