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Product designation			Power contactor
Product type designation			BF18
Contact characteristics			
Number of poles		Nr.	4
Rated insulation voltage Ui IEC/EN		V	690
Rated impulse withstand voltage Uimp		kV	6
Operational frequency			
	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith		Α	32
Operational current le			
	AC-1 (≤40°C)	Α	32
	AC-1 (≤55°C)	Α	26
	AC-1 (≤70°C)	Α	23
	AC-3 (≤440V ≤55°C)	Α	18
	AC-4 (400V)	Α	8.5
Rated operational power AC-1 (T≤40°C)			
	230V	kW	12
	400V	kW	21
	500V	kW	26
	690V	kW	36
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series			
	≤24V	Α	17
	48V	Α	15
	75V	Α	15
	110V	Α	6
	220V	Α	_
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series			
	≤24V	Α	20
	48V	Α	20
	75V	Α	20
	110V	Α	13
	220V	Α	1
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series			
	≤24V	Α	22
	48V	Α	22
	75V	Α	20
	110V	Α	16
	220V	Α	11
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
	≤24V	Α	22
	48V	A	22
	75V	Α	20
	110V	A	18
	220V	Α	13



IEC max current le in l	DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
		≤24V	Α	12
		48V	Α	11
		75V	Α	11
		110V	Α	2
		220V	Α	_
IFC max current le in l	DC3-DC5 with L/R ≤ 15ms with 2 poles in series	2201	- , ,	
120 max carrone to in t	Bed Bed With Effe = Tome With 2 poled in defice	≤24V	Α	15
		48V	A	13
		75V	A	13
		110V	A	
				8
<u></u>	D00 D05 11 1 /D 4 /5 11 0 1 1 1	220V	Α	2
IEC max current le in l	DC3-DC5 with L/R ≤ 15ms with 3 poles in series		_	
		≤24V	Α	18
		48V	Α	18
		75V	Α	16
		110V	Α	12
		220V	Α	6
IEC max current le in l	DC3-DC5 with L/R ≤ 15ms with 4 poles in series			
	·	≤24V	Α	18
		48V	Α	18
		75V	Α	16
		110V	Α	13
		220V	Α	8
Short-time allowable of	current for 10s (IEC/EN60947-1)	220 V	A	200
Protection fuse	MITCHETOT TOS (IEO/ENOCS+1-1)			200
r iolection iuse		aC (IEC)	۸	32
		gG (IEC)	A	
Malina anasiti (DMC		aM (IEC)	A	20
Making capacity (RMS	·		Α	180
Breaking capacity at vo	oitage	4.401.4		
		440V	Α	144
		500V	Α	120
-		690V	Α	94
Resistance per pole (a	average value)		mΩ	2.5
Power dissipation per	pole (average value)			
		Ith	W	2.6
		AC-3	W	0.8
Tightening torque for to	erminals			
		min	Nm	1.5
		max	Nm	1.8
		min	Ibin	1.1
		max	lbin	1.5
Tightening torque for c	roil terminal	Пах	10111	1.0
riginierinig torque for C	on terrina	:-	Nima	0.0
		min	Nm	0.8
		max	Nm	1
		min	Ibin	0.8
		max	Ibin	0.74
	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			
		max		10
	Flexible w/o lug conductor section			
		min	mm²	1





<u> </u>		max	mm²	6
F	Tlexible c/w lug conductor section			
		min	mm²	1
=		max 	mm²	4
F	Texible with insulated spade lug conduct			
		min	mm²	1
		max	mm²	4
Power terminal protection	according to IEC/EN 60529			IP20 when
Mechanical features				properly wired
Operating position				
Operating position		normal		Vertical plan
		allowable		Vertical plan ±30°
		allowable		Screw / DIN rail
Fixing				35mm
Weight			- 0	366
Conductor section			g	300
	AWG/kcmil conductor section			
P	AVVG/ROTHII CONQUCTOR SECTION	may		10
Operations		max		10
Mechanical life			ovelee	2000000
			cycles	20000000
Electrical life Safety related data			cycles	1600000
	22227ding to FN/ICO 12400 1			
Performance level B10d	according to EN/ISO 13489-1	ادعا ادعاء		4000000
		rated load	cycles	1600000
NA'	(mechanical load	cycles	20000000
Mirror contats according	10 IEC/EN 609474-4-1			yes
EMC compatibility				yes
AC coil operating	OL I—		\ /	2.4
Rated AC voltage at 50/6	UHZ		V	24
AC operating voltage	(50/0011 11 1 1 1 1 5011			
0				
	of 50/60Hz coil powered at 50Hz			
	pick-up		0/11-	00
	•	min	%Us	80
	pick-up	min max	%Us %Us	80 110
	•	max	%Us	110
	pick-up	max min	%Us %Us	110 20
_	pick-up drop-out	max	%Us	110
_	pick-up drop-out f 50/60Hz coil powered at 60Hz	max min	%Us %Us	110 20
_	pick-up drop-out	max min max	%Us %Us %Us	110 20 55
_	pick-up drop-out f 50/60Hz coil powered at 60Hz	max min max min	%Us %Us %Us	110 20 55 85
	pick-up drop-out f 50/60Hz coil powered at 60Hz pick-up	max min max	%Us %Us %Us	110 20 55
_	pick-up drop-out f 50/60Hz coil powered at 60Hz	max min max min max	%Us %Us %Us %Us %Us	110 20 55 85 110
_	pick-up drop-out f 50/60Hz coil powered at 60Hz pick-up	max min max min max min max	%Us %Us %Us %Us %Us %Us %Us	110 20 55 85 110 20
ō	drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out	max min max min max	%Us %Us %Us %Us %Us	110 20 55 85 110
o AC average coil consump	pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out	max min max min max min max	%Us %Us %Us %Us %Us %Us %Us	110 20 55 85 110 20
o AC average coil consump	drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out	max min max min max min max	%Us %Us %Us %Us %Us %Us %Us %Us	110 20 55 85 110 20 55
aC average coil consump	pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out	max min max min max min max in-rush	%Us %Us %Us %Us %Us %Us %Us %Us %Us	110 20 55 85 110 20 55
AC average coil consump	drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out otion at 20°C of 50/60Hz coil powered at 50Hz	max min max min max min max	%Us %Us %Us %Us %Us %Us %Us %Us	110 20 55 85 110 20 55
AC average coil consump	pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out	max min max min max min max in-rush holding	%Us	110 20 55 85 110 20 55 75
AC average coil consump	drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out otion at 20°C of 50/60Hz coil powered at 50Hz	max min max min max min max in-rush holding in-rush	%Us	110 20 55 85 110 20 55 75 9
AC average coil consump o	drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out otion at 20°C of 50/60Hz coil powered at 50Hz of 50/60Hz coil powered at 60Hz	max min max min max min max in-rush holding	%Us	110 20 55 85 110 20 55 75
AC average coil consump	drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out otion at 20°C of 50/60Hz coil powered at 50Hz	max min max min max min max in-rush holding in-rush	%Us	110 20 55 85 110 20 55 75 9

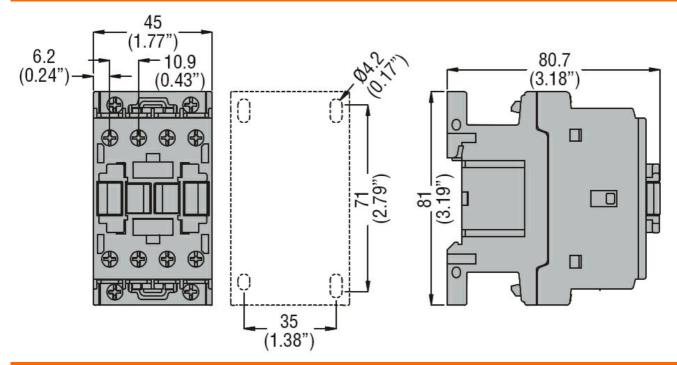


Dissipation at holding \$20°C 50Hz W 2.5 Wax cycles frequency Wax cycles frequency			holding	VA	9
Max cycles frequency	Dissipation at holding ≤20°C 50H	Z			
Operating times Average time for Us control in AC					
Average time for Us control in AC Closing NO				cycles/h	3600
in AC Closing NO min ms 8 max ms 24 Opening NO min ms 10 max ms 20 Closing NC min ms 10 max ms 20 Closing NC min ms 14 Max ms 28 Opening NC min ms 14 Opening NC min ms 14 Max ms 28 Opening NC min ms 77 max ms 18 UL technical data Full-load current (FLA) for three-phase AC motor for single-phase AC motor for single-phase AC motor for three-phase AC motor 110/120V HP 1 230V HP 3 for three-phase AC motor 200/208V HP 5 480/480V HP 10 575/600V HP 15 General USE Contactor Contactor Contactor AC current A 32 Short-circuit protection fuse, 600V High fault Short circuit current KA 100 Fuse claiss J Ambient conditions Fuse rating A 60 Fuse clais Short circuit current KA 5 Fuse rating A 60 Fuse clais Short circuit current KA 5 Fuse rating A 60 Fuse clais Fuse rating A 60 Fuse clais Temperature Operating temperature min °C -50 max °C 70 Storage temperature min °C -50 max °C 70 Storage temperature min °C -60 max °C 70 Resistance & Protection					
Closing NO	_				
Min	in AC	0			
Copening NO		Closing NO			0
Opening NO					
Max			IIIdx	1115	24
Closing NC		Opening NO	min	ms	10
Closing NC					
March Marc		Closina NC	THO A		
Max		5.55g 5	min	ms	14
Opening NC					
Minimax Mini		Opening NC			
Ul technical data Full-load current (FLA) for three-phase AC motor			min	ms	7
Full-load current (FLA) for three-phase AC motor at 480V			max	ms	18
A 1480V	UL technical data				
at 600V A 17 Yielded mechanical performance for single-phase AC motor 110/120V HP 1 230V HP 3 5 document A 200/208V HP 5 220/230V HP 5 220/230V HP 10 5 deneral USE Contactor AC current A 32 Short-circuit protection fuse, 600V High fault Short circuit current kA 100 Fuse rating A 60 Fuse class J Standard fault Short circuit current kA 5 Ambient conditions Temperature Max altitude min °C -50 Max altitude min °C -50 max °C -60 Max altitude min °C	Full-load current (FLA) for three-p	phase AC motor			
Yielded mechanical performance for single-phase AC motor 110/120V HP 1 230V HP 3 for three-phase AC motor 200/208V HP 5 220/230V HP 5 460/480V HP 10 575/600V HP 15 General USE Contactor AC current A 32 Short-circuit protection fuse, 600V High fault High fault Short circuit current Fuse rating A 60 Fuse class J A 60 Fuse class J Standard fault Short circuit current Fuse rating A 80 A 80 Ambient conditions Fuse rating A 80 A 80 Ambient conditions Temperature min °C -50 max °C 70 Storage temperature min °C -60 max °C 80 Max altitude max °C 80 Resistance & Protection			at 480V	Α	14
For single-phase AC motor			at 600V	Α	17
110/120V	Yielded mechanical performance				
Contactor Cont	for single	e-phase AC motor			
For three-phase AC motor 200/208V HP 5 5 220/230V HP 5 5 460/480V HP 10 575/600V HP 15 5 5 5 5 5 5 5 5					
Contactor			230V	HP	3
Contactor	for three-	-phase AC motor			
A60/480V					
ST5/600V					
Contactor					
Contactor	0		575/600V	НР	15
AC current					
Short-circuit protection fuse, 600V High fault Short circuit current kA 100 Fuse rating A 60 Fuse class J Standard fault Short circuit current kA 5 Fuse rating A 80 Short circuit current A 80 Short	Contacto	or .	A.C. a	۸	20
High fault	Short aircuit protection fues 600	\ <u>'</u>	AC current	A	32
Short circuit current kA 100 Fuse rating A 60 Fuse class J	-				
Fuse rating Fuse class	High faul	ι	Short circuit current	۲Λ	100
Fuse class J					
Standard fault			_	Λ.	
Short circuit current KA 5 Fuse rating A 80	Standard	fault	1 430 01433		
Fuse rating A 80	Standard		Short circuit current	kA	5
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					
Operating temperature	Ambient conditions				
Operating temperature min max °C max -50 max °C 70 Storage temperature min max °C -60 max -60 max Max altitude m 3000 Resistance & Protection Resistance & Protection					
min mm mm max °C -50 max -50 max Storage temperature min °C -60 max °C 80 Max altitude m 3000 Resistance & Protection m 3000		g temperature			
Storage temperature min °C -60 max °C 80 Max altitude m 3000 Resistance & Protection Total Control C	,		min	°C	-50
min min max °C -60 regregation Max altitude m 3000 Resistance & Protection m			max	°C	70
min min max °C -60 regregation Max altitude m 3000 Resistance & Protection m	Storage t	temperature			
Max altitude m 3000 Resistance & Protection	· ·		min	°C	-60
Resistance & Protection			max	°C	80
				m	3000
Pollution degree 3					
	Pollution degree				3

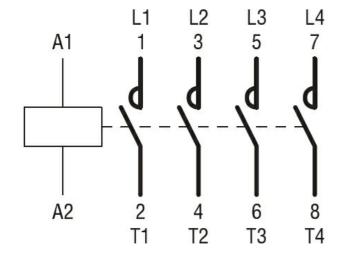
ENERGY AND AUTOMATION

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

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