



Product designation Product type designation			Power contactor BF18
Contact characteristics			DF10
Number of poles		Nr.	3
Rated insulation voltage Ui IEC/EN		V	690
Rated insulation voltage of EC/EN Rated impulse withstand voltage Uimp		kV	6
		KV	O
Operational frequency	min	U≂	0.F
	min	Hz	25
IFC Conventional free circh armed assured like	max	Hz	400
IEC Conventional free air thermal current Ith		Α	32
Operational current le	A C 4 (<40°C)	۸	20
	AC-1 (≤40°C)	A	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-3 (T≤55°C)			
	230V	kW	4
	400V	kW	7.5
	415V	kW	9
	440V	kW	9
	500V	kW	10
	690V	kW	10
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	A	20
	75V	Α	20
	110V	A	13
	220V	A	1
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series		,,	•
TEO MAX CANONE TO HEDO E WILLE LEE A TIMO WILL O POICO III OCHICO		٨	22
·	<21/		
·	≤24V 48V	A	
	48V	Α	22





	220V	Α	11
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
	≤24V	Α	22
	48V	Α	22
	75V	Α	20
	110V	Α	18
	220V	Α	13
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
·	≤24V	Α	12
	48V	Α	11
	75V	Α	11
	110V	Α	2
	220V	A	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series	220 V		
The max current to in 500-500 with E/N = 10m3 with 2 poles in series	≤24V	Α	15
	48V	A	
	48 V 75 V		13
		A	13
	110V	A	8
150	220V	A	2
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series	-0.01		4.0
	≤24V	A	18
	48V	Α	18
	75V	Α	16
	110V	Α	12
	220V	Α	6
IEC max current le in 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 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			
	440V	Α	144
	500V	A	120
	690V	A	94
Resistance per note (average value)	090 v	mΩ	2.5
Resistance per pole (average value)		11177	۷.ن
Power dissipation per pole (average value)	141	107	2.0
	Ith	W	2.6
Till to die to en a forte estado	AC-3	W	0.8
Tightening torque for terminals			4.5
	min	Nm	1.5
	max	Nm	1.8
	min	Ibin	1.1
	max	Ibin	1.5
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	Ibin	0.8



		max	Ibin	0.74
	s simultaneously connectable		Nr.	2
Conductor section	AWG/Kcmil			
	AVVG/KCIIII	max		10
	Flexible w/o lug conductor section	Пах		10
	Ticklible w/o lug corluctor section	min	mm²	1
		max	mm²	6
	Flexible c/w lug conductor section			
	J	min	mm²	1
		max	mm²	4
	Flexible with insulated spade lug conductor section	1		
		min	mm²	1
		max	mm²	4
Power terminal prote	ection according to IEC/EN 60529			IP20 when
				properly wired
Mechanical features				
Operating position		normal		Vertical plan
		allowable		Vertical plan ±30°
		allowable		Screw / DIN rail
Fixing				35mm
Weight			g	492
Auxiliary contact cha	racteristics		J	
Thermal current Ith			Α	10
IEC/EN 60947-5-1 d	lesignation			A600 - P600
Operating current AC	C15			
		230V	Α	3
		400V	Α	1.9
		500V	Α	1.4
Operating current Do	C12			
		110V	Α	5.7
Operating current Do	C13			
		24V	Α	5.7
		48V	A	2.9
		60V	A	2.3
		110V 125V	A A	1.25 1.1
		125V 220V	A	0.55
		600V	A	0.2
Operations				0.2
Mechanical life			cycles	20000000
Electrical life			cycles	1600000
Safety related data			,	
	110d according to EN/ISO 13489-1			
	-	rated load	cycles	1600000
	n	nechanical load	cycles	20000000
EMC compatibility				yes
DC coil operating				
DC rated control volt	tage		V	24
DC operating voltage	e			
	pick-up			
		min	%Us	70

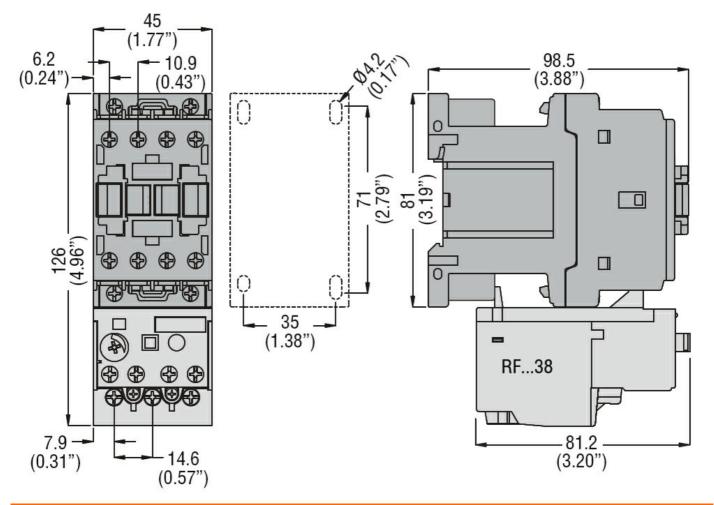




				0/11-	405
	duan and		max	%Us	125
	drop-out		min	0/ I Io	10
			min	%Us %Us	10 40
Average coil consump	tion <20°C		max	7005	40
Average con consump	11011 ≥20 C		in-rush	W	5.4
			holding	W	5.4
Max cycles frequency			Holding	VV	5.4
Mechanical operation				cycles/h	3600
Operating times				0,0100/11	0000
Average time for Us co	ontrol				
	in AC				
		Closing NO			
		G	min	ms	8
			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
	in DC				
		Closing NO			
			min	ms	54
		O a a dia a NO	max	ms	66
		Opening NO			4.4
			min	ms	14
UL technical data			max	ms	17
Rated operational volta				V	600
Full-load current (FLA)	<u> </u>	AC motor		V	000
i uli-load current (i LA)	ioi tillee-pilase	AC IIIotoi	at 480V	Α	14
			at 600V	A	17
Yielded mechanical pe	erformance		at 000 V	/ \	• •
. Totada modificial pe	for single-phas	e AC motor			
	.c. cingle phac	5	110/120V	HP	1
			230V	HP	3
	for three-phase	e AC motor	200 1		=
			200/208V	HP	5
			220/230V	HP	5
			460/480V	HP	10
			575/600V	HP	15
General USE					
	Contactor				
			AC current	Α	32
	Auxiliary conta	cts			
	-		AC voltage	V	600
			AC current	Α	10
			DC voltage	V	250
			DC current	Α	1
Short-circuit protection	fuse, 600V				



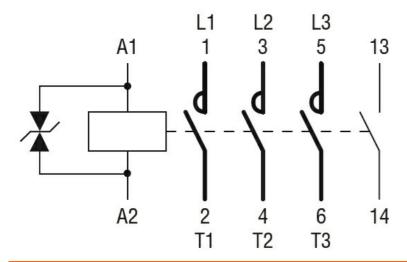
Hig	h fault			
		Short circuit current	kA	100
		Fuse rating	Α	60
		Fuse class		J
Sta	ndard fault			_
		Short circuit current	kA	5
		Fuse rating	Α	80
Contact rating of auxiliary co	ontacts according to UL			A600 - P600
Ambient conditions				
Temperature				
Оре	erating temperature			
		min	°C	-50
		max	°C	70
Sto	rage temperature			
		min	°C	-60
		max	°C	80
Max altitude			m	3000
Resistance & Protection				
Pollution degree				3
Dimensions				



Wiring diagrams

ENERGY AND AUTOMATION

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 18A, DC COIL, 24VDC, 1NO AUXILIARY CONTACT



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