



Product designation Product type designation			Power contactor BF18
Contact characteristics			
Number of poles		nr.	3
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-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	Α	20
	75V	Α	20
	110V	A	13
150	220V	Α	1
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series		_	
	≤24V	A	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	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	A	11
	75V	Α	11
	110V	A	2
	220V	A	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series	220 V		-
TEC max current le in DC3-DC3 with E/K = 13ms with 2 poles in series	≤24V	Α	15
	48V	A	13
	75V	A	13
	110V	A	8
	220V	Α	2
IEC max current le in 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 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 pole (average value)	330 V	mΩ	2.5
Power dissipation per pole (average value)		11177	۷.5
r ower dissipation per pole (average value)	141-	۱۸/	2.6
	Ith	W	2.6
Tightoning torque for torminals	AC3	W	0.8
Tightening torque for terminals		N 1 .	4.5
	min	Nm	1.5
	max ·	Nm	1.8
	min	lbin	1.1
	max	lbin	1.5
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	lbft	0.8





		max	lbft	0.74
	simultaneously connectable		nr.	2
Conductor section	Ele The Adams to the control			
	Flexible w/o lug conductor section	min	mm²	1
		max	mm²	6
	Flexible c/w lug conductor section	Παλ	111111	0
	Tioxible of Windy contactor cocalem	min	mm²	1
		max	mm²	4
	Flexible with insulated spade lug conductor section			
		min	mm²	1
		max	mm²	4
	ction according to IEC/EN 60529			IP20 when wired
Mechanical features				
Operating position		_		
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail 35mm
Weight			g	492
Auxiliary contact chara	acteristics		9	102
Type of contact				1 NO
Thermal current Ith			Α	10
IEC/EN 60947-5-1 de	esignation			A600 - P600
Operating current AC				
		230V	Α	3
		400V	Α	1.9
		500V	Α	1.4
Operating current DC	12			
		110V	Α	5.7
Operating current DC	13		_	
		24V	A	5.7
		48V	A	2.9
		60V 110V	A A	2.3 1.25
		125V	A	1.1
		220V	Α	0.55
		600V	Α	0.2
Operations				
Mechanical life			cycles	20000000
Electrical life			cycles	1600000
Safety related data				
Performance level B1	0d according to EN/ISO 13489-1			
		rated load	cycles	1600000
		nanical load	cycles	20000000
	ing to IEC/EN 609474-4-1			yes
EMC compatibility				yes
DC coil operating			\/	24
DC rated control volta	ige		V	24
DC operating voltage	nick up			
	pick-up	min	%Us	70
		max	%Us	70 125
		παλ	/003	120





drop-out				
arop cut		min	%Us	10
		max	%Us	40
Average coil consumption ≤20°C				-
		in-rush	W	5.4
		holding	W	5.4
Max cycles frequency		<u> </u>		
Mechanical operation			cycles/h	3600
Operating times				
Average time for Us control				
in AC				
	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			
		min	ms	7
		max	ms	18
in DC				
	Closing NO			
		min	ms	54
		max	ms	66
	Opening NO			
		min	ms	14
		max	ms	17
UL technical data				
Full-load current (FLA) for three-phase AC mot	or			4.4
		at 480V	A	14
VC 11 1 1 1 1 1		at 600V	Α	17
Yielded mechanical performance	a.t.a.r.			
for single-phase AC m	Otor	440/4001	LID	4
		110/120V	HP	1
for the second second	otor.	230V	HP	3
for three-phase AC mo	DIOF	000/0001	LID	E
		200/208V	HP	5
		220/230V 460/480V	HP HP	5
		575/600V	HP HP	10 15
Contact rating of auxiliary contacts according to	\	373/0007		A600 - P600
General USE	, GL			A000 - F000
Contactor				
Contactor		AC current	Α	32
Auxiliary contacts		AC current		J2
Auxiliary contacts		AC voltage	\/	600
		AC voltage AC current	V	10
			A V	250
		DC voltage DC current	V A	250 1
Ambient conditions		DO Current	^	1

Temperature

3



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

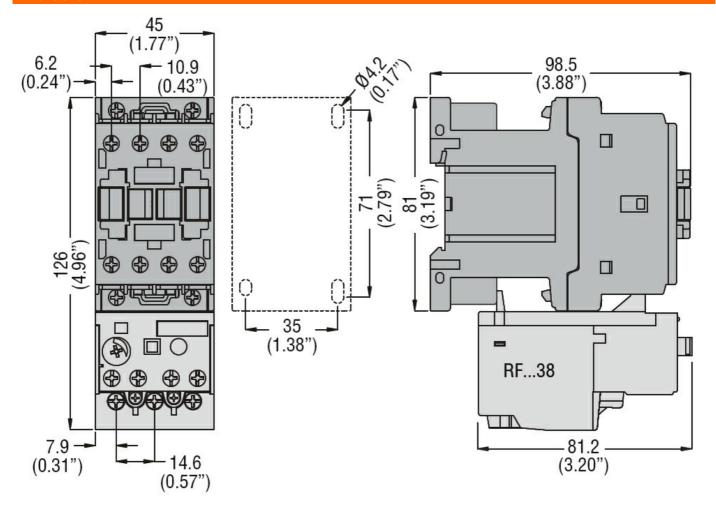
Operating	temperature
• p •	

	min	°C	-50
	max	°C	70
Storage temperature			
	min	°C	-60
	max	°C	80
Max altitude		m	3000

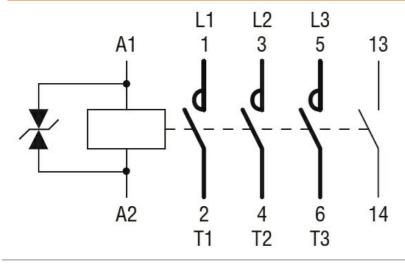
Resistance & Protection

Pollution degree

Dimensions



Wiring diagrams







Certifications and con	npliance	
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	
	cULus	
	EAC	
ETIM classification		
ETIM 8.0		EC000066 - Power contactor, AC switching