



Product designation Product type designation			Power contactor BF12
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	28
Operating current			
	Operational current AC1 (≤40°C)	Α	28
Opera	ational current AC3 (≤440V ≤55°C)	Α	12
	Operational current AC4 (400V)	Α	7.9
Rated operational power AC1 (T≤40°C)			
	230V	kW	10
	400V	kW	18
	500V	kW	23
	690V	kW	32
Rated operational power AC3 (T≤55°C)			
	230V	kW	3.2
	400V	kW	5.7
	415V	kW	6.2
	440V	kW	6.2
	500V	kW	7.5
	690V	kW	10
Short-time allowable current for 10s (IEC/EN60947-1)		Α	150
Protection fuse			
	gG (IEC)	Α	32
	aM (IEC)	Α	12
Making capacity (RMS value)		Α	120
Breaking capacity at voltage			
	Breaking capacity 440V	Α	96
	Breaking capacity 500V	Α	96
	Breaking capacity 690V	Α	94
Resistance per pole (average value)		mΩ	2.5
Power dissipation per pole (average value)			
Power of	dissipation pole (average value) Ith	W	2
	AC3	W	0.4
Tightening torque for terminals			
	min	Nm	1.5
	max	Nm	1.8
	min	lbft	1.1
	max	lbft	1.5





		min	Nm	0.8
		max	Nm	1
		min	lbft	0.8
		max	lbft	0.74
max number of wires	simultaneously connectable		nr.	2
Conductor section				 _
Conductor Section	AWG			
	AVVG			10
		min		16
		max		10
	Flexible w/o lug conductor section			
		min	mm²	1
		max	mm²	6
	Flexible c/w lug conductor section			
		min	mm²	1
		max	mm²	4
	Flexible with insulated spade lug conductor section			
	υ το	min	mm²	1
		max	mm²	4
Power terminal prote	ection according to IEC/EN 60529	Пах		IP20 when wired
Auxiliary contact cha				IP20 WHEH WHEG
	Tacteristics			4.110
Type of contact				1 NO
Thermal current Ith			Α	10
IEC/EN 60947-5-1 d				A600 - P600
Operational current A	AC1 (≤40°C)		Α	28
Operating current AC	C15			
, ,		230V	Α	3
		400V	Α	1.9
		500V	A	1.4
Operating ourrent DC	212	300 V		
Operating current DO	512	440)/	Δ.	<i>-</i> -
0 11 10	240	110V	Α	5.7
Operating current DO	213			
		24V	Α	5.7
		48V	Α	2.9
		60V	Α	2.3
		4401/	Λ.	Screw / DIN rail
		110V	Α	35mm
		125V	Α	0.6
		220V	Α	0.2
		600V	A	1.2
Ambient conditions		000 v		1.2
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	70
	Storage temperature			
		min	°C	-60
		max	°C	80
Max altitude			m	3000
Operating position				
Operating position		normal		Vertical plan
		normal		Vertical plan
		allowable		±30°
Mounting				Screw / DIN rail 35mm
Weight			g	0.502



Operations			
Mechanical life		Cycles	20000000
Electrical life		Cycles	2000000
Safety related data			
Performance level B10d according to EN/ISO 13489-1			
•	rated load	Cicli	2000000
	mechanical load	Cicli	20000000
Mirror contats according to IEC/EN 609474-4-1			yes
EMC compatibility			yes
DC coil operating			
DC rated control voltage			
	min	V	6
DC operating voltage			
pick-up			
	min	%Us	0.8
	max	%Us	1.10
drop-out			
	min	%Us	0.1
	max	%Us	0.40
Average coil consuption ≤20°C			
	in-rush	W	2.4
	holding	W	2.4
Max cycles frequency			
Mechanical operations		Cycles/h	3600
Operating times			
Average time for Us control			
in AC			
Closing NC			
	min	ms	14
0 : 110	max	ms	28
Opening NC			-
	min	ms	7
:- DC	max	ms	18
in DC			
Closing NO	min	ms	75
			75 91
Opening NO	max	ms	ਹ।
Opening NO	min	ms	15
	max	ms	19
UL technical data	Пах	1113	
Full-load current (FLA) for three-phase AC motor			
. a aaa aan an (a y ia an aa phaaa na matai	at 480V	Α	11
	at 400V	A	11
Yielded mechanical performance	Q. 000 V		• •
for single-phase AC motor			
.s. single phase its motor	at 110/120V	hp	1
	at 230V	hp	2
for three-phase AC motor	S. 200 V	··r	-
p	at 200/208V	hp	5
	at 220/230V	hp	5
	at 460/480V	hp	7.5
	at 575/600V	hp	10
		•	

ENERGY AND AUTOMATION

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 12A, DC COIL LOW CONSUMPTION, 24VDC, 1NO AUXILIARY CONTACT

Contact rating of auxiliary contacts according to UL

A600 - P600

General USE

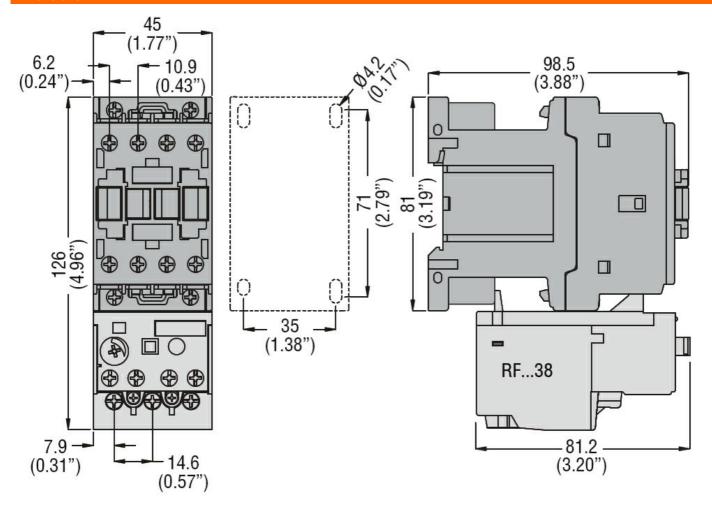
Contactor

AC current A 28

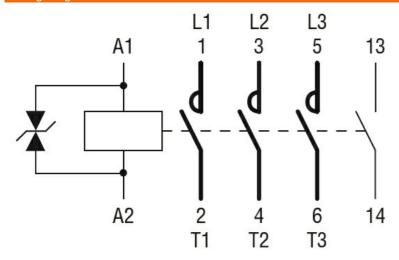
Other features
Pollution degree

3

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