



Product designation Power contactor Product type designation BF12

Contact characteristics			
		N I	4
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		А	28
Operational current le			
	AC-1 (≤40°C)	Α	28
	AC-1 (≤55°C)	Α	23
	AC-1 (≤70°C)	Α	20
	AC-3 (≤440V ≤55°C)	Α	12
	AC-4 (400V)	Α	7.9
Rated operational power AC-1 (T≤40°C)	AO-4 (400V)		1.0
Trated operational power AO-1 (1.540 O)	230V	kW	10
	400V	kW	18
	500V	kW	23
	690V	kW	32
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series			
	≤24V	Α	17
	48V	Α	15
	75V	Α	13
	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	18
	110V	Α	13
	220V	Α	1
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series			
same in 20 min 27 min min o poloc in conco	≤24V	Α	22
	48V	A	22
	75V	A	20
	110V	A	16
	220V		
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series	2200	A	
IEC max current le in DCT with L/R ≤ 1ms with 4 poles in series	-0.0°		00
	≤24V	A	20
	48V	A	20
	75V	Α	20
	110V	Α	16
	220V	Α	12



IEC max current le in [DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
	'	≤24V	Α	12
		48V	Α	11
		75V	A	10
		110V	A	2
		220V	A	_
IFC may current le in [DC2 DC5 with 1/D < 15mg with 2 males in series	220 V		-
IEC max current le in L	DC3-DC5 with L/R ≤ 15ms with 2 poles in series	-0.4V./		4 =
		≤24V	Α	15
		48V	Α	13
		75V	Α	12
		110V	Α	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	15
		110V	A	12
		220V	A	6
IEC may aurrent to in I	DC2 DC5 with L/P < 15mg with 4 nalog in agrica	2201	^	U
IEC IIIax cuitent le In L	DC3-DC5 with L/R ≤ 15ms with 4 poles in series	20.41	Α.	4.5
		≤24V	Α	15
		48V	Α	15
		75V	Α	15
		110V	Α	16
		220V	Α	7
Short-time allowable c	urrent for 10s (IEC/EN60947-1)		Α	150
Protection fuse				
		gG (IEC)	Α	32
		aM (IEC)	A	12
Making capacity (RMS	value)	aivi (ILO)	A	120
				120
Breaking capacity at vo	ладе	4.40\/	Δ.	0.0
		440V	A	96
		500V	Α	96
		690V	A	94
Resistance per pole (a			mΩ	2.5
Power dissipation per p	pole (average value)			
		Ith	W	2
		AC-3	W	0.4
Tightening torque for to	erminals			
J J 12 37 37		min	Nm	1.5
		max	Nm	1.8
		min	Ibin	1.1
			Ibin	
Tightagingston	oil to main al	max	IIIII	1.5
Tightening torque for c	on terminal			
		min	Nm	0.8
		max	Nm	1
		min	lbin	0.8
		max	lbin	0.74
Max number of wires s	imultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			
		max		10
	Flexible w/o lug conductor section	Пих		
	I IONIDIE W/O ING COMMUNICION SECTION	min	mm²	1
		111111	111111	I





				0
	Clavible abulus conductor costics	max	mm²	6
	Flexible c/w lug conductor section	min	mm²	1
		max	mm²	4
	Flexible with insulated spade lug conductor			
	r iombie mili mediated opade rag conduct.	min	mm²	1
		max	mm²	4
Dower terminal protect	tion according to IEC/EN 60520			IP20 when
	tion according to IEC/EN 60529			properly wired
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail 35mm
Weight			α	366
Conductor section			g	300
Conductor Scotton	AWG/kcmil conductor section			
		max		10
Operations				
Mechanical life			cycles	20000000
Electrical life			cycles	2000000
Safety related data				
Performance level B1	0d according to EN/ISO 13489-1			
		rated load	cycles	2000000
		mechanical load	cycles	20000000
	ng to IEC/EN 609474-4-1			yes
EMC compatibility				yes
AC coil operating	0/001			400
Rated AC voltage at 5	0/60HZ		V	400
AC operating voltage	of FO/GOLLT acil powered at FOLLT			
	of 50/60Hz coil powered at 50Hz pick-up			
	ріск-ир	min	%Us	80
		max	%Us	110
	drop-out		,,,,,	
	-1	min	%Us	20
		max	%Us	55
	of 50/60Hz coil powered at 60Hz			
	pick-up			
		min	%Us	85
		max	%Us	110
	drop-out		0/17	00
		min	%Us	20
AC average coil consu	umption at 20°C	max	%Us	55
Ac average coll const	•			
	of 50/60Hz coil powered at 50Hz	in-rush	VA	75
		holding	VA	9
	of 50/60Hz coil powered at 60Hz	Holding	٧/١	
	2. 30,00.12 0011 portorou at 00112	in-rush	VA	70
		holding	VA	6.5
	of 60Hz coil powered at 60Hz	<u> </u>		
	•	in-rush	VA	75

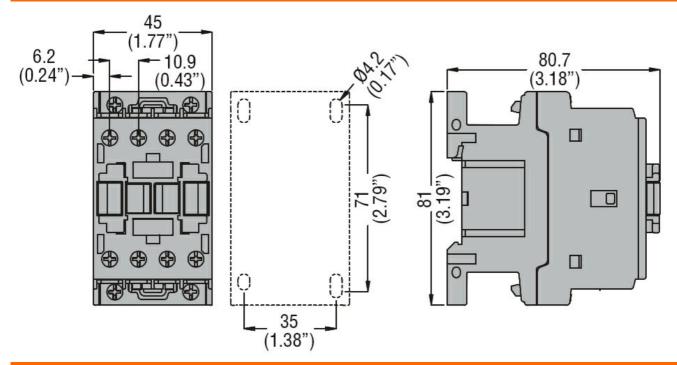


		holding	VA	9
Dissipation at holding	<20°C 50Hz	Holding	W	2.5
Max cycles frequency			VV	2.0
Mechanical operation			cycles/h	3600
Operating times			0,0100,11	
Average time for Us of	control			
	in AC			
	Closing NO			
	3	min	ms	8
		max	ms	24
	Opening NO			
		min	ms	10
		max	ms	20
	Closing NC			
		min	ms	14
		max	ms	28
	Opening NC			
		min	ms	7
		max	ms	18
UL technical data				
Full-load current (FLA	A) for three-phase AC motor			
		at 480V	Α	11
		at 600V	Α	11
Yielded mechanical p	erformance			
	for single-phase AC motor			
		110/120V	HP	1
		230V	HP	2
	for three-phase AC motor			_
		200/208V	HP	5
		220/230V	HP	5
		460/480V	HP	7.5
		575/600V	HP	10
General USE				
	Contactor			
		AC current	Α	28
Short-circuit protection	n fuse, 600V			
	High fault			
		Short circuit current	kA	100
		Fuse rating	Α	30
		Fuse class		J
	Standard fault			
		Short circuit current	kA	5
		Fuse rating	Α	70
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	70
	Storage temperature			
		min	°C	-60
		max	°C	80
Max altitude			m	3000
Resistance & Protect	ion			
Pollution degree				3

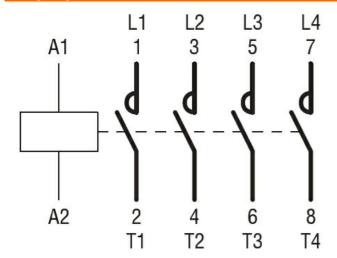
ENERGY AND AUTOMATION

FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 28A, AC COIL 50/60HZ, 400VAC

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