

FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 56A, AC COIL 60HZ, 24VAC



Product designation Product type designation			Power contactor BF38
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	56
Operational current le			
	AC-1 (≤40°C)	Α	56
	AC-1 (≤40°C) with 16mm² wire and fork end	lugA	60
	AC-1 (≤55°C)	Α	45
	AC-1 (≤55°C) with 16mm² wire and fork end	lugA	48
	AC-1 (≤70°C)	Α	40
	AC-1 (≤70°C) with 16mm² wire and fork end	_	42
	AC-3 (≤440V ≤55°C)	Α	38
	AC-4 (400V)	Α	15.5
Rated operational power AC-1 (T≤40°C)			
	230V	kW	21
	400V	kW	36
	500V	kW	45
	690V	kW	62
IEC max current le in DC1 with L/R ≤ 1ms with	•		
	≤24V	A	35
	48V	A	30
	75V	A	23
	110V	A	8
IFC may augreent to in DC1 with L/D < 1 mg with	220V	A	
IEC max current le in DC1 with L/R ≤ 1ms with	•	۸	26
	≤24V 48V	A A	36 34
	75V	A	29
	110V	A	32
	220V	A	4
IEC max current le in DC1 with L/R ≤ 1ms with			
TEO MAX CONTONE TO ME DO F WILL E/TE = THIS WILL	≤24V	Α	36
	48V	A	34
	75V	A	33
	110V	A	34
	220V	Α	30
IEC max current le in DC1 with L/R ≤ 1ms with			
	≤24V	Α	36
	48V	Α	34
		÷ •	- •



FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 56A, AC COIL 60HZ,

	75V	Α	33
	110V	Α	34
	220V	Α	38
EC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
· ·	≤24V	Α	24
	48V	Α	20
	75V	Α	17
	110V	Α	2,5
	220V	Α	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
· · · · · · · · · · · · · · · · · ·	≤24V	Α	28
	48V	A	25
	75V	A	22
	110V	A	18
	220V	A	3
IEC may current le in DC3 DC5 with L/D < 15mg with 2 polos in series	2207	^	J
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series	-04 1/	٨	22
	≤24V	A	32
	48V	A	28
	75V	Α	28
	110V	Α	23
	220V	Α	25
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series			
	≤24V	Α	32
	48V	Α	28
	75V	Α	28
	110V	Α	23
	220V	Α	15
Short-time allowable current for 10s (IEC/EN60947-1)		Α	320
Protection fuse			
	gG (IEC)	Α	63
	aM (IEC)	Α	40
Making capacity (RMS value)		Α	380
Breaking capacity at voltage			
	440V	Α	304
	500V	Α	240
	690V	Α	192
Resistance per pole (average value)		mΩ	2
Power dissipation per pole (average value)			
Tower discipation per pole (are age raide)	lth	W	6
	AC-3	W	2.9
Tightening torque for terminals	AO-3	VV	2.3
rightoning torque for terminals	min	Nm	2.5
	min		
	max	Nm	3
	min	lbin	1.8
Tinktonin a tonom for cell tonomical	max	lbin	2.2
Tightening torque for coil terminal			0.0
	min	Nm	0.8
	max	Nm	1
	min	lbin	0.8
	max	lbin	0.74
Max number of wires simultaneously connectable		Nr.	2

Conductor section

AWG/Kcmil





FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 56A, AC COIL 60HZ,

				6
	Flexible w/o lug conductor section	max		6
	Trexible w/o ray conductor section	min	mm²	2.5
		max	mm²	16
	Flexible c/w lug conductor section			
	-	min	mm²	1
		max	mm²	10
	Flexible with insulated spade lug conductor section			
		min	mm²	1
		max	mm²	10
Power terminal protect	tion according to IEC/EN 60529			IP20 when properly wired
Mechanical features				рторону ниси
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail 35mm
Weight			g	500
Operations				
Mechanical life			cycles	20000000
Electrical life			cycles	1400000
Safety related data	0d			
Performance level B10	0d according to EN/ISO 13489-1	الممارا الممار	avala a	1.400000
	mach	rated load nanical load	cycles cycles	1400000 20000000
EMC compatibility	med	iai iicai ioau	Cycles	yes
AC coil operating				yes
Rated AC voltage at 60	0Hz		V	24
AC operating voltage				
	of 60Hz coil powered at 60Hz			
	pick-up			
		min	%Us	80
		max	%Us	110
	drop-out		0/11-	20
		min	%Us %Us	20 55
AC average coil consu	imption at 20°C	max	/005	00
A average con consc	of 60Hz coil powered at 60Hz			
	5. 551 12 5511 portotod at 501 12	in-rush	VA	75
		holding	VA	9
Dissipation at holding:	≤20°C 50Hz		W	2.5
Max cycles frequency				
Mechanical operation			cycles/h	3600
Operating times				
Average time for Us co				
	in AC			
	Closing NO			0
		min	ms	8 24
	Opening NO	max	ms	4
	Opening NO	min	ms	5
		max	ms	15
	Closing NC			-
	y -			



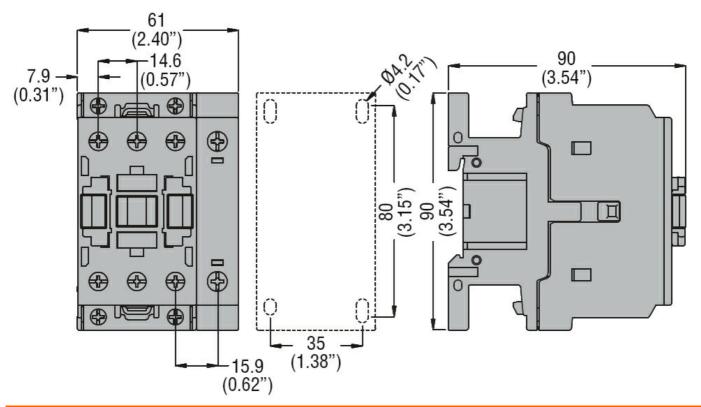


FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 56A, AC COIL 60HZ,

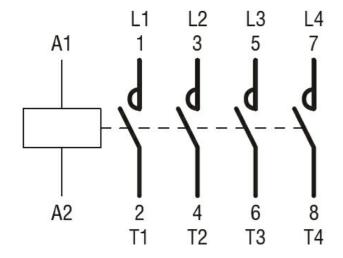
		min	ms	9
		max	ms	20
	Opening NC			
		min	ms	9
III to obsigal data		max	ms	17
UL technical data Rated operational volta	ago AC (III.)		V	600
	for three-phase AC motor		V	000
i dii-load current (i LA)	Tol tillee-pliase Ac motor	at 480V	Α	40
		at 600V	A	32
Yielded mechanical pe	erformance	<u> </u>		
,	for single-phase AC motor			
	3 1	110/120V	HP	3
		230V	HP	7.5
	for three-phase AC motor			
		200/208V	HP	10
		220/230V	HP	15
		460/480V	HP	30
		575/600V	HP	30
General USE	_			
	Contactor	• • • • • • • • • • • • • • • • • • • •		
0	(000)/	AC current	A	55
Short-circuit protection				
	High fault	Short circuit current	kA	100
		Fuse rating	A	100
		Fuse class	^	J
	Standard fault	1 436 61433		<u> </u>
	Claridata tadit	Short circuit current	kA	5
		Fuse rating	A	150
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	on			
Pollution degree				3
Dimensions				

ENERGY AND AUTOMATION

FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 56A, AC COIL 60HZ,



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



BF38T4A02460

FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 56A, AC COIL 60HZ,

ETIM 8.0

EC000066 -Power contactor, AC switching