BF18T4A12060

FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 32A, AC COIL 60HZ, 120VAC



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 ≤ 40°C		A	32
Operational current Ie			
	AC-1 (≤40°C)	A	32
	AC-1 (≤55°C)	A	26
	AC-1 (≤70°C)	A	23
	AC-3 (≤440V ≤55°C)	A	18
	AC-4 (400V)	A	8.5
Rated operational power AC-1 (T≤40°C)			
	230V	kW	12
	400V	kW	21
	500V	kW	26
	690V	kW	36
IEC max current Ie in DC1 with L/R ≤ 1ms with 1 poles in series			
	≤24V	A	17
	48V	A	15
	75V	A	15
	110V	A	6
	220V	A	–
IEC max current Ie in DC1 with L/R ≤ 1ms with 2 poles in series			
	≤24V	A	20
	48V	A	20
	75V	A	20
	110V	A	13
	220V	A	1
IEC max current Ie in DC1 with L/R ≤ 1ms with 3 poles in series			
	≤24V	A	22
	48V	A	22
	75V	A	20
	110V	A	16
	220V	A	11
IEC max current Ie in DC1 with L/R ≤ 1ms with 4 poles in series			
	≤24V	A	22
	48V	A	22
	75V	A	20
	110V	A	18
	220V	A	13
IEC max current Ie in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
	≤24V	A	12

The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding

		48V	A	11
		75V	A	11
		110V	A	2
		220V	A	–
IEC max current Ie in DC3-DC5 with L/R ≤ 15ms with 2 poles in series				
		≤24V	A	15
		48V	A	13
		75V	A	13
		110V	A	8
		220V	A	2
IEC max current Ie in DC3-DC5 with L/R ≤ 15ms with 3 poles in series				
		≤24V	A	18
		48V	A	18
		75V	A	16
		110V	A	12
		220V	A	6
IEC max current Ie in DC3-DC5 with L/R ≤ 15ms with 4 poles in series				
		≤24V	A	18
		48V	A	18
		75V	A	16
		110V	A	13
		220V	A	8
Short-time allowable current for 10s (IEC/EN60947-1)			A	200
Protection fuse				
		gG (IEC)	A	32
		aM (IEC)	A	20
Making capacity (RMS value)			A	180
Breaking capacity at voltage				
		440V	A	144
		500V	A	120
		690V	A	94
Resistance per pole (average value)			mΩ	2.5
Power dissipation per pole (average value)				
		Ith	W	2.6
		AC-3	W	0.8
Tightening torque for terminals				
		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	lbin	0.8
		max	lbin	0.74
Max number of wires simultaneously connectable			Nr.	2
Conductor section				
	AWG/Kcmil			
		max		10
	Flexible w/o lug conductor section			
		min	mm²	1
		max	mm²	6
	Flexible c/w lug conductor section			

The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding

min	mm²	1
max	mm²	4
Flexible with insulated spade lug conductor section		
min	mm²	1
max	mm²	6
Power terminal protection according to IEC/EN 60529		IP20 when properly wired
Cable stripping lenght		
main circuit	mm	10
command circuit	mm	8
Mechanical features		
Operating position		
normal		Vertical plan
allowable		±30°
Fixing		Screw / DIN rail 35mm
Weight	g	354
Operations		
Mechanical life	cycles	20000000
Electrical life	cycles	1600000
Safety related data		
Performance level B10d according to EN/ISO 13489-1		
rated load	cycles	1600000
mechanical load	cycles	20000000
EMC compatibility		yes
AC coil operating		
Rated AC voltage at 60Hz	V	120
AC operating voltage		
of 60Hz coil powered at 60Hz		
pick-up		
min	%Us	80
max	%Us	110
drop-out		
min	%Us	20
max	%Us	55
AC average coil consumption at 20°C		
of 60Hz coil powered at 60Hz		
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 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

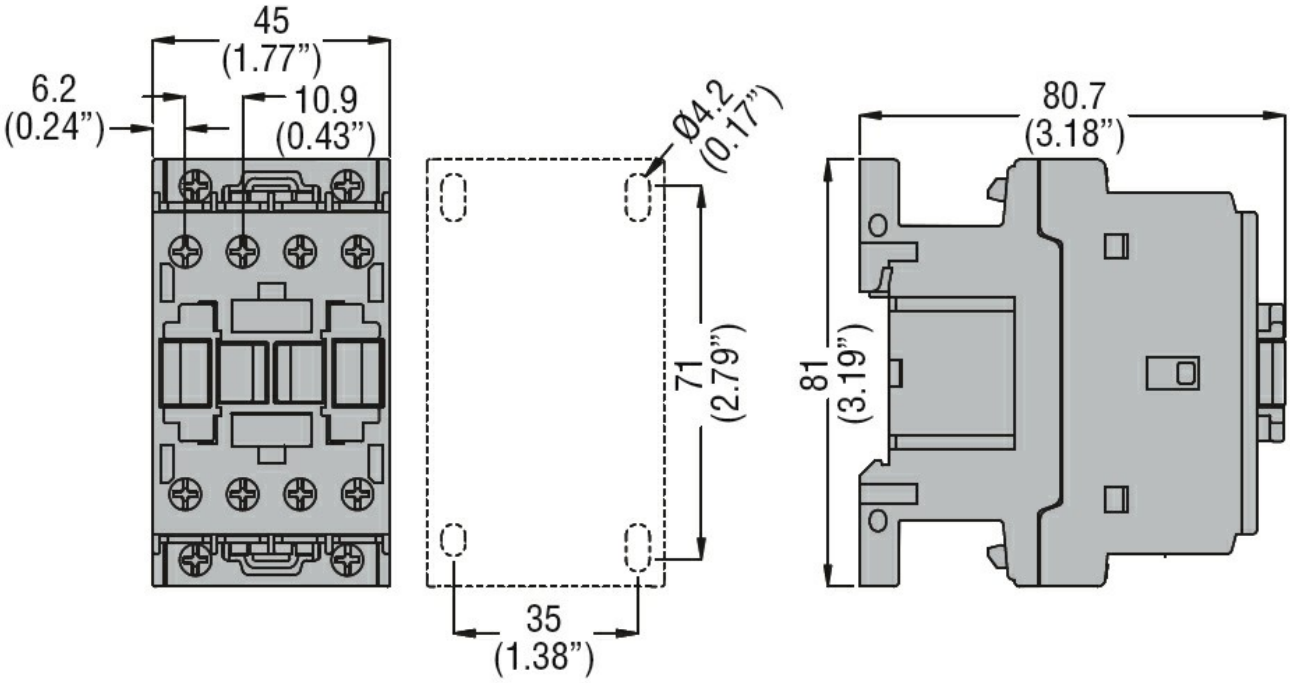
The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding

		Opening NC		
		min	ms	7
		max	ms	18
UL technical data				
Rated operational voltage AC (UL)			V	600
Full-load current (FLA) for three-phase AC motor				
		at 480V	A	14
		at 600V	A	17
Yielded mechanical performance				
	for single-phase AC motor			
		110/120V	HP	1
		230V	HP	3
	for three-phase AC motor			
		200/208V	HP	5
		220/240V	HP	5
		460/480V	HP	10
		575/600V	HP	15
General USE				
	Contactor			
		AC current	A	32
Short-circuit protection fuse, 600V				
	High fault			
		Short circuit current	kA	100
		Fuse rating	A	60
		Fuse class		J
	Standard fault			
		Short circuit current	kA	5
		Fuse rating	A	80
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				
Pollution degree				3
Dimensions				

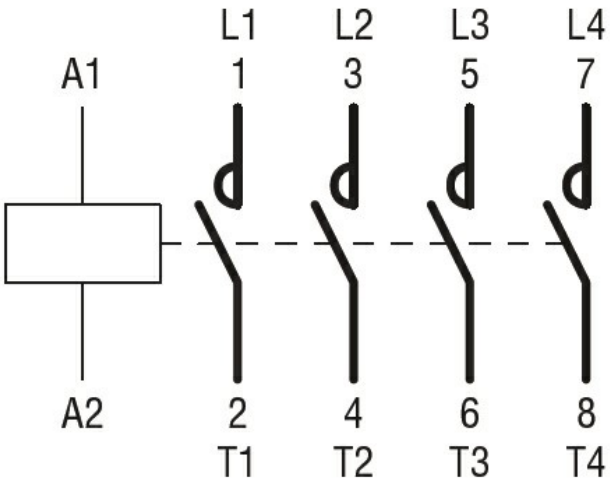
The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding

BF18T4A12060

FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 32A, AC COIL 60HZ, 120VAC



Wiring diagrams



Certifications and compliance

Compliance

CSA C22.2 n° 60947-1
CSA C22.2 n° 60947-4-1
IEC/EN 60335-2-89
IEC/EN/BS 60947-1
IEC/EN/BS 60947-4-1
UL 60947-1
UL 60947-4-1

Certificates

CCC
CSA C22.2 n. 60335-2-40:22 LZGH A2L
CSA C22.2 No. 60335-2-89:21 LZGH A2L
cULus
EAC
UL 60335-2-40 LZGH A2L
UL 60335-2-89 LZGH A2L

The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding

ETIM classification

ETIM 8.0	EC000066 - Power contactor, AC switching

The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding