BF18T4A46060

FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 32A, AC COIL 60HZ, 460VAC



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

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		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			

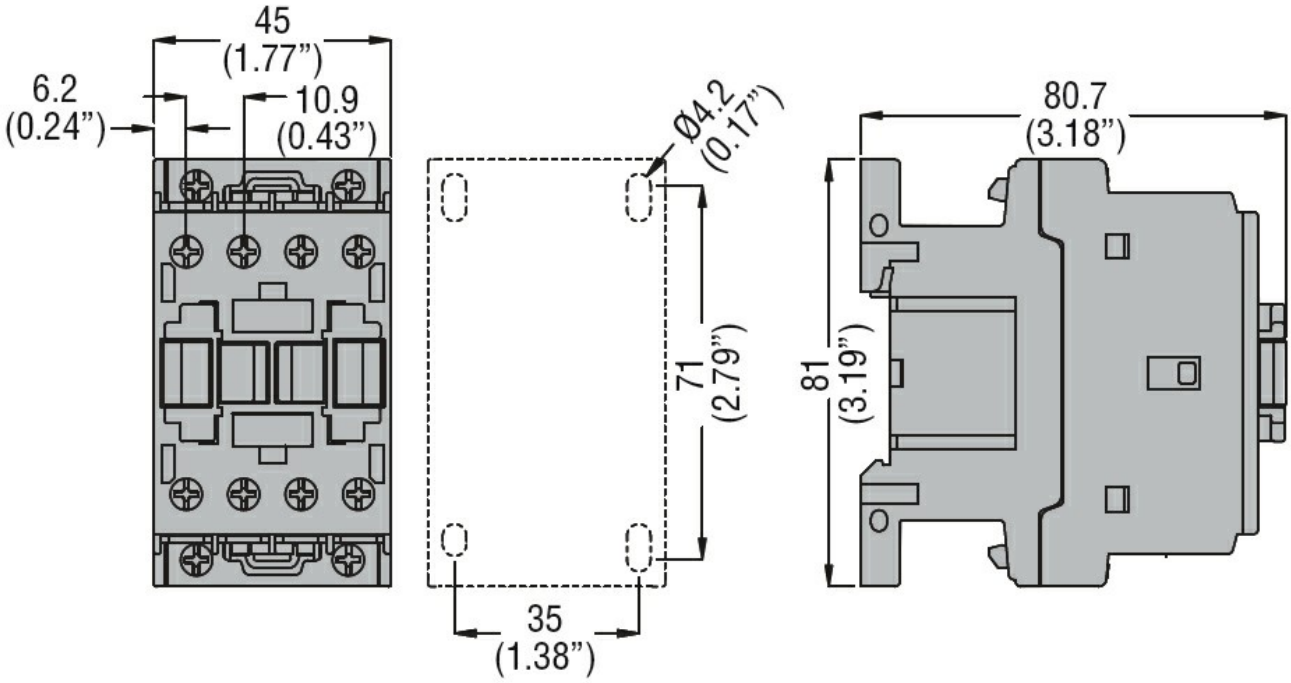
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min	mm²	1
max	mm²	4
Flexible with insulated spade lug conductor section		
min	mm²	1
max	mm²	6
Power terminal protection according to IEC/EN 60529		IP20 when properly wired
Cable stripping lenght		
main circuit	mm	10
command circuit	mm	8
Mechanical features		
Operating position		
normal		Vertical plan
allowable		±30°
Fixing		Screw / DIN rail 35mm
Weight	g	368
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	460
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

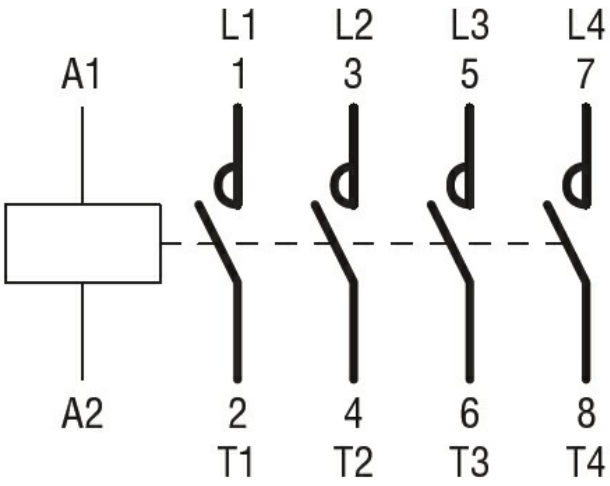
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		Opening NC		
		min	ms	7
		max	ms	18
UL technical data				
Rated operational voltage AC (UL)			V	600
Full-load current (FLA) for three-phase AC motor				
		at 480V	A	14
		at 600V	A	17
Yielded mechanical performance				
	for single-phase AC motor			
		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				

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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

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ETIM classification

ETIM 8.0	EC000066 - Power contactor, AC switching

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