BF115T4A22060

FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 160A, AC COIL 60HZ, 220VAC

Contact characteristics			
Number of poles		Nr.	4
Rated insulation voltage Ui IEC/EN		V	1000
Rated impulse withstand voltage Uimp		kV	8
Operational frequency			
	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith ≤ 40°C		A	160
Operational current Ie			
	AC-1 (≤40°C)	A	160
	AC-1 (≤55°C)	A	130
	AC-1 (≤70°C)	A	115
	AC-3 (≤440V ≤55°C)	A	115
	AC-4 (400V)	A	54
Rated operational current AC-3 (T≤55°C)			
	230V	A	115
	400V	A	115
	415V	A	115
	440V	A	115
	500V	A	106
	690V	A	106
	1000V	A	39
IEC max current Ie in DC1 with L/R ≤ 1ms with 1 poles in series			
	≤24V	A	160
	48V	A	160
	75V	A	120
	110V	A	10
	220V	A	–
IEC max current Ie in DC1 with L/R ≤ 1ms with 2 poles in series			
	≤24V	A	160
	48V	A	160
	75V	A	160
	110V	A	130
	220V	A	14
IEC max current Ie in DC1 with L/R ≤ 1ms with 3 poles in series			
	≤24V	A	160
	48V	A	160
	75V	A	160
	110V	A	140
	220V	A	145
IEC max current Ie in DC1 with L/R ≤ 1ms with 4 poles in series			
	≤24V	A	160
	48V	A	160
	75V	A	160
	110V	A	160

		220V	A	160
IEC max current Ie in DC3-DC5 with L/R ≤ 15ms with 1 poles in series				
		≤24V	A	160
		48V	A	50
		75V	A	40
		110V	A	6
		220V	A	–
IEC max current Ie in DC3-DC5 with L/R ≤ 15ms with 2 poles in series				
		≤24V	A	160
		48V	A	72
		75V	A	65
		110V	A	65
		220V	A	7
IEC max current Ie in DC3-DC5 with L/R ≤ 15ms with 3 poles in series				
		≤24V	A	160
		48V	A	150
		75V	A	100
		110V	A	100
		220V	A	92
IEC max current Ie in DC3-DC5 with L/R ≤ 15ms with 4 poles in series				
		≤24V	A	160
		48V	A	120
		75V	A	120
		110V	A	125
		220V	A	115
Short-time allowable current for 10s (IEC/EN60947-1)			A	920
Protection fuse				
		gG (IEC)	A	200
		aM (IEC)	A	125
Making capacity (RMS value)			A	1500
Breaking capacity at voltage				
		440V	A	1200
		500V	A	850
		690V	A	905
Resistance per pole (average value)			mΩ	0.45
Power dissipation per pole (average value)				
		Ith	W	11.5
		AC-3	W	6.0
Tightening torque for terminals				
		min	Nm	6
		max	Nm	7
		min	lbin	4.4
		max	lbin	5.2
Tightening torque for coil terminal				
		min	Nm	0.8
		max	Nm	1
		min	lbin	0.59
		max	lbin	0.74
Conductor section				
	AWG/Kcmil			
		max		2/0
	Flexible w/o lug conductor section			
		min	mm²	1.5

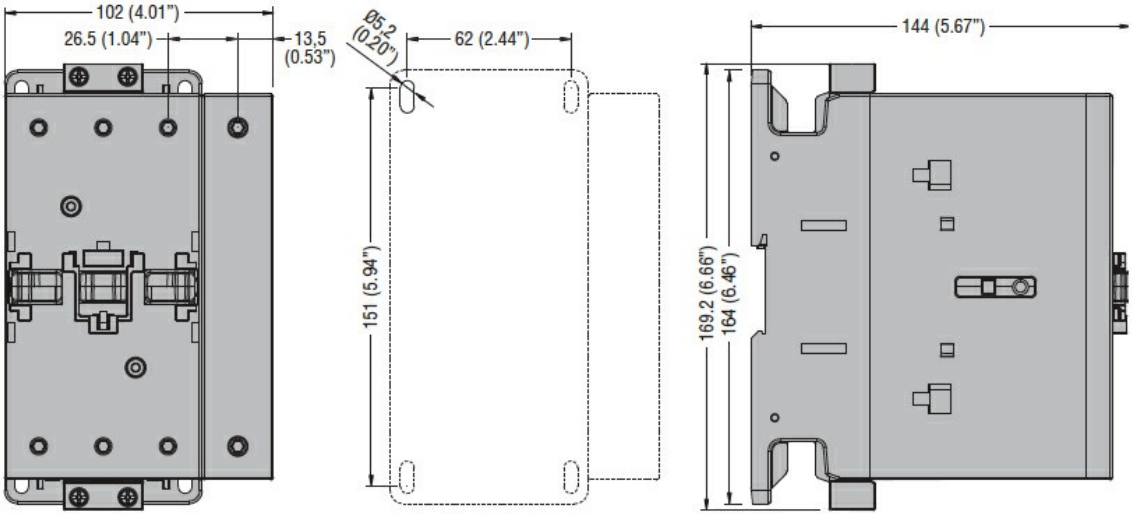
		max	mm²	70
	Flexible c/w lug conductor section			
		min	mm²	1.5
		max	mm²	70
Power terminal protection according to IEC/EN 60529				IP20 front
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail 35mm
Weight			g	2420
Operations				
Mechanical life			cycles	15000000
Electrical life			cycles	1200000
Safety related data				
Performance level B10d according to EN/ISO 13489-1				
		rated load	cycles	1200000
		mechanical load	cycles	15000000
AC coil operating				
Rated AC voltage at 60Hz			V	220
AC operating voltage				
	of 50/60Hz coil powered at 50Hz			
	drop-out			
		max	%Us	55
	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	300
		holding	VA	20
Max cycles frequency				
Mechanical operation			cycles/h	1500
Operating times				
Average time for Us control				
	in AC			
	Closing NO			
		min	ms	16
		max	ms	32
	Opening NO			
		min	ms	9
		max	ms	24
UL technical data				
Rated operational voltage AC (UL)			V	600
General USE				
	Contactor			
		AC current	A	165
Short-circuit protection fuse, 600V				
	High fault			

	Short circuit current	kA	100
	Fuse rating	A	200
	Fuse class		J
Standard fault			
	Short circuit current	kA	10
	Fuse rating	A	250
	Fuse class		RK5

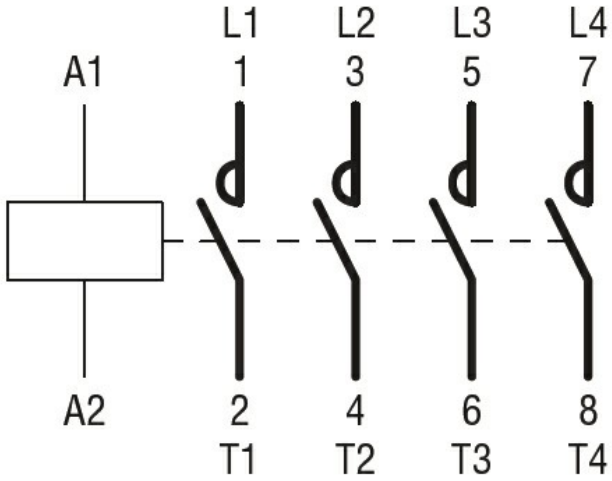
Ambient conditions

Temperature			
Operating temperature			
	min	°C	-50
	max	°C	70
Storage temperature			
	min	°C	-60
	max	°C	+80
Max altitude		m	3000

Dimensions



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

ETIM classification

ETIM 8.0	EC000066 - Power contactor, AC switching