





Product designation Product type designation			Power contactor BF25
Contact characteristics			
Number of poles		Nr.	3
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	32
Operational current le			
•	AC-1 (=40°C)	Α	32
	AC-1 (=55°C)	Α	26
	AC-1 (=70°C)	Α	23
	AC-3 (=440V =55°C)	Α	25
	AC-4 (400V)	Α	10
Rated operational power AC-3 (T=55°C)	,		_
	230V	kW	7
	400V	kW	12.5
	415V	kW	13.4
	440V	kW	13.4
	500V	kW	15
	690V	kW	11
Rated operational power AC-1 (T=40°C)			
	230V	kW	12
	400V	kW	21
	500V	kW	26
	690V	kW	36
IEC max current le in DC1 with L/R = 1ms with 1 poles in series			
·	=24V	Α	20
	48V	Α	18
	75V	Α	18
	110V	Α	6
	220V	Α	_
IEC max current le in DC1 with L/R = 1ms with 2 poles in series			
·	=24V	Α	23
	48V	Α	23
	75V	Α	23
	110V	Α	16
	220V	Α	1
IEC max current le in DC1 with L/R = 1ms with 3 poles in series			
·	=24V	Α	23
	48V	Α	23
	75V	Α	23
	110V	Α	18





	220V	Α	12	
IEC max current le in DC1 with L/R = 1ms with 4 poles in series				
	=24V	Α	_	
	48V	Α	_	
	75V	Α	_	
	110V	Α	_	
	220V	Α	=	
IEC max current le in DC3-DC5 with L/R = 15ms with 1 poles in series				
	=24V	Α	15	
	48V	Α	13	
	75V	Α	13	
	110V	Α	2	
	220V	Α	_	
IEC max current le in DC3-DC5 with L/R = 15ms with 2 poles in series				
	=24V	Α	18	
	48V	Α	18	
	75V	Α	16	
	110V	Α	10	
	220V	Α	2	
IEC max current le in DC3-DC5 with L/R = 15ms with 3 poles in series				
	=24V	Α	22	
	48V	Α	22	
	75V	Α	18	
	110V	Α	15	
	220V	Α	8	
IEC max current le in DC3-DC5 with L/R = 15ms with 4 poles in series				
	=24V	Α	_	
	48V	Α	_	
	75V	Α	_	
	110V	Α	_	
	220V	Α	_	
Short-time allowable current for 10s (IEC/EN60947-1)		Α	200	
Protection fuse				_
	gG (IEC)	Α	50	
	aM (IEC)	Α	25	
Making capacity (RMS value)		Α	250	
Breaking capacity at voltage				
	440V	Α	200	
	500V	Α	184	
	690V	Α	102	
Resistance per pole (average value)		m?	2.5	_
Power dissipation per pole (average value)				
	Ith	W	2.6	
	AC3	W	1.6	
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				_ <del>_</del>
	min	Nm	8.0	
	max	Nm	1	
	min	lbin	0.8	





		max	Ibin	0.74
	simultaneously connectable		Nr.	2
Conductor section	***************************************			
	AWG/Kcmil			4.0
	FI 11 / 1 / 2	max		10
	Flexible w/o lug conductor section		2	4
		min	mm²	1
	Florible a/w lug conductor acction	max	mm²	6
	Flexible c/w lug conductor section	min	mm²	1
		max	mm²	4
	Flexible with insulated spade lug conductor section		111111	
	r lexible with insulated space tag conductor section	min	mm²	1
		max	mm²	4
Power terminal protect	ction according to IEC/EN 60529	max		IP20 when wired
Mechanical features	Michigan Colorating to 120/211 00020			ii 20 iiiioii iiiiod
Operating position				
, 3,		normal		Vertical plan
		allowable		±30°
Fivin a				Screw / DIN rail
Fixing				35mm
Weight			g	356
Conductor section				
	AWG/kcmil conductor section			
		max		10
Auxiliary contact chara	acteristics			
Thermal current Ith			Α	10
IEC/EN 60947-5-1 de	<u> </u>			A600 - P600
Operating current AC	15			
		230V	Α	3
		400V	Α	1.9
		500V	A	1.4
Operating current DC	12		_	
		110V	Α	5.7
Operating current DC	13	0.417		
		24V	A	5.7
		48V 60V	A	2.9 2.3
		110V	A A	2.3 1.25
		110V 125V	A	1.25 1.1
		220V	A	0.55
		600V	A	0.2
Operations			, , , , , , , , , , , , , , , , , , ,	J
Mechanical life			cycles	20000000
Electrical life			cycles	1200000
Safety related data			,	
	0d according to EN/ISO 13489-1			
		rated load	cycles	1200000
		mechanical load	cycles	20000000
Mirror contats accordi	ing to IEC/EN 609474-4-1			yes
EMC compatibility				yes
AC coil operating				·
Rated AC voltage at 6	60Hz		V	120
3				



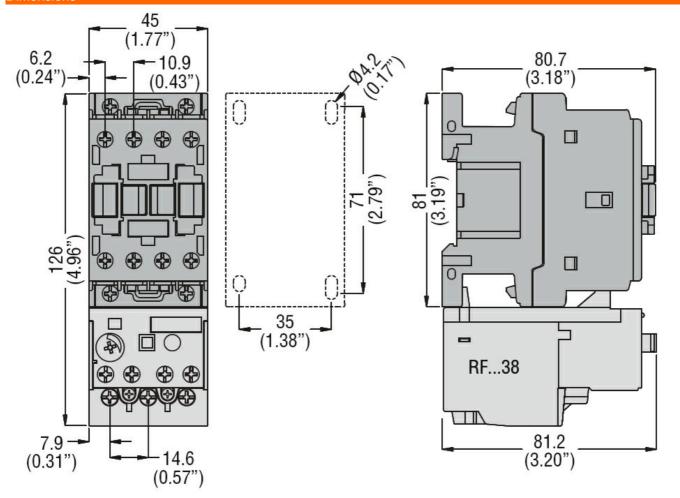


AC operating voltage					
1 5 5	of 60Hz coil powered a	at 60Hz			
	'	pick-up			
		• •	min	%Us	80
			max	%Us	110
		drop-out			
		•	min	%Us	20
			max	%Us	55
AC average coil consu	umption at 20°C				
· ·	of 60Hz coil powered a	at 60Hz			
	·		in-rush	VA	75
			holding	VA	9
Dissipation at holding	=20°C 50Hz			W	2.5
Max cycles frequency					
Mechanical operation				cycles/h	3600
Operating times					
Average time for Us co	ontrol				
	in AC				
	III AO	Closing NO			
		Closing 140	min	ms	8
			max	ms	24
		Opening NO	max	1113	27
		Opening NO	min	ms	10
			max	ms	20
		Closing NC	IIIdx	1113	20
		Closing NC	min	ms	14
			max	ms	28
		Opening NC	max	1113	20
		Opening NO	min	ms	7
			max	ms	18
UL technical data			тих	1110	10
	) for three-phase AC mot	or			
	, . c	•	at 480V	Α	21
			at 600V	A	17
Yielded mechanical pe	erformance		41 000 1	,,	
riciaca mediameai pe	for single-phase AC m	otor			
	ioi siligie-pilase AO III	Oloi	110/120V	HP	2
			230V	HP	3
	for three-phase AC mo	otor	2301	1 IF	<u> </u>
	ioi uiiee-piiase AC IIIC	7.01	200/208V	HP	7.5
			200/208V 220/230V	HP	7.5 7.5
			460/480V	HP HP	7.5 15
Conorol LICE			575/600V	HP	15
General USE	Contactor				
	Contactor		A O	۸	20
	Amillage		AC current	Α	32
	Auxiliary contacts		۸ ۰ ـ الم	\/	000
			AC voltage	V	600
			AC current	A	10
			DC voltage	V	250
<u></u>			DC current	Α	
Short-circuit protection					
	High fault			_	
			Short circuit current	kA	100





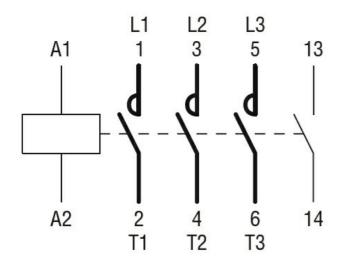
		Fuse rating	Α	60
		Fuse class		J
	Standard fault			
		Short circuit current	kA	5
		Fuse rating	Α	100
Contact rating of aux	iliary contacts according to UL			A600 - P600
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	70
	Storage temperature			
		min	°C	-60
		max	°C	80
Max altitude			m	3000
Resistance & Protect	tion			
Pollution degree				3
Dimensions				



Wiring diagrams

**ENERGY AND AUTOMATION** 

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 25A, AC COIL 60HZ, 120VAC, 1NO AUXILIARY CONTACT



### 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