

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 80A, AC COIL 50/60HZ, 230VAC



			10 10 10
Product designation			Power contactor
Product type designation			BF80
Contact characteristics			
Number of poles		Nr.	3
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		Α	115
Operational current le			
	AC-1 (≤40°C)	Α	115
	AC-1 (≤55°C)	Α	95
	AC-1 (≤70°C)	Α	80
	AC-3 (≤440V ≤55°C)	Α	80
	AC-4 (400V)	Α	38
Rated operational power AC-3 (T≤55°C)			
	230V	kW	22
	400V	kW	45
	415V	kW	45
	440V	kW	45
	500V	kW	55
	690V	kW	55
	1000V	kW	37
Rated operational power AC-1 (T≤40°C)			
	230V	kW	43
	400V	kW	76
	500V	kW	95
	690V	kW	120
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series			
	≤24V	Α	70
	48V	Α	60
	75V	Α	60
	110V	Α	8
	220V	Α	
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series		_	
	≤24V	Α	100
	48V	A	100
	75V	A	100
	110V	A	80
IFO	220V	Α	9
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series	20.01		400
	≤24V	A	100
	48V	A	100
	75V	Α	100



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	110V	Α	85
	220V	Α	95
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
	≤24V	Α	100
	48V	Α	100
	75V	Α	100
	110V	Α	100
	220V	Α	115
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
	≤24V	Α	40
	48V	Α	30
	75V	Α	30
	110V	Α	3
	220V	Α	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
·	≤24V	Α	60
	48V	Α	50
	75V	Α	50
	110V	Α	40
	220V	Α	5
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series			
	≤24V	Α	80
	48V	Α	70
	75V	Α	70
	110V	A	60
	220V	A	64
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series	220 V		<u> </u>
The max current to in 600-600 with E/TC = 10m3 with 4 poics in 30m63	≤24V	Α	90
	48V	A	90
	75V	A	90
	110V	A	75
	220V	A	80
Short-time allowable current for 10s (IEC/EN60947-1)	220 V	A	640
Protection fuse			040
Protection ruse	aC (IEC)	٨	105
	gG (IEC)	A	125
Malifer and arity (DMC value)	aM (IEC)	A	80
Making capacity (RMS value)		Α	800
Breaking capacity at voltage	4.4017		0.40
	440V	Α	640
	500V	Α	625
	690V	<u>A</u>	456
Resistance per pole (average value)		mΩ	0.6
Power dissipation per pole (average value)			
	Ith	W	7.9
	AC3	W	3.8
Tightening torque for terminals			
	min	Nm	4
	max	Nm	5
	min	lbin	2.95
	max	Ibin	3.69
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1



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	min	lbin	0.8
	max		0.74
simultaneously connectable		Nr.	2
ANA 0.11			
AWG/Kcmil			0
Clavible w/e lug conductor coction	max		2
Flexible w/o lug conductor section	min	mm²	1.5
			35
Flexible c/w lug conductor section	IIIdX	111111	- 55
Tiexible 6, wildy definately decitor	min	mm²	1.5
			35
tion according to IEC/EN 60529			IP20 front
ÿ			
	normal		Vertical plan
	allowable		±30°
			Screw / DIN rail
			35mm
		g	1020
AWG/kcmil conductor section			
	max		2
			4500000
			15000000
		cycles	1300000
0d according to EN/ISO 12490 1			
od according to EN/13O 13469-1	rated load	cycles	1300000
		-	1500000
ng to IFC/FN 609474-4-1	THEOHAITICAI IOAA	Cycles	yes
19 10 12 07 21 1 000 17 1 1 1			yes
			yes
0/60Hz		V	230
of 50/60Hz coil powered at 50Hz			
·	min	%Us	80
	max	%Us	110
drop-out			
	min		20
	max	%Us	55
•			
pick-up		0/11	
			85
٠٠	max	%US	110
arop-out		0/110	40
			40 55
umption at 20°C	IIIdX	/0US	JJ
or 50/00112 con powered at 50/12	in-ruch	\/Δ	210
			15
	Holding	٧, ١	
	AWG/Kcmil Flexible w/o lug conductor section Flexible c/w lug conductor section tion according to IEC/EN 60529 AWG/kcmil conductor section Od according to EN/ISO 13489-1 Ing to IEC/EN 609474-4-1 O/60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out umption at 20°C of 50/60Hz coil powered at 50Hz	AWG/Kcmil Flexible w/o lug conductor section Flexible c/w lug conductor section min max Flexible c/w lug conductor section min max tion according to IEC/EN 60529 AWG/kcmil conductor section Max Od according to EN/ISO 13489-1 rated load mechanical load in max of 50/60Hz of 50/60Hz coil powered at 50Hz pick-up min max of 50/60Hz coil powered at 60Hz pick-up min max of 50/60Hz coil powered at 60Hz pick-up min max drop-out min max min max min max	Max Nr.



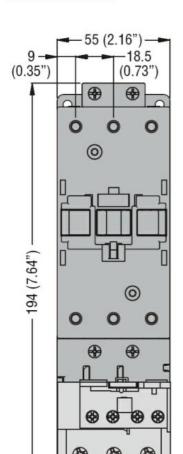


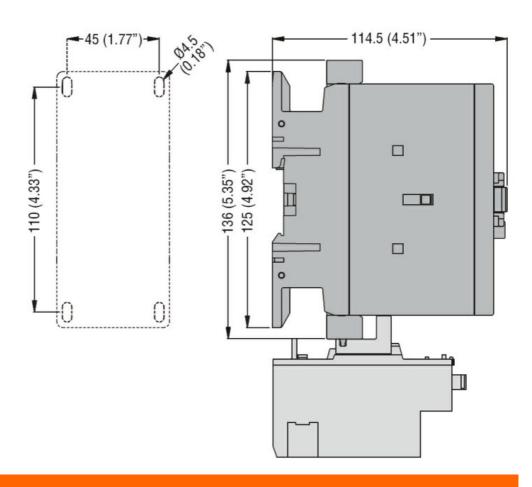
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	of 50/60Hz coil powered at 60Hz			_
		in-rush	VA	195
		holding	VA	13
	of 60Hz coil powered at 60Hz			
	·	in-rush	VA	210
		holding	VA	15
Dissipation at holding	≤20°C 50Hz		W	5
Max cycles frequency				
Mechanical operation			cycles/h	3600
Operating times				
Average time for Us c	ontrol			
Tronago amo for Go o	in AC			
	Closing NO			
	Closing NC	min	ms	12
		max	ms	28
	Opening NO	παλ	1113	20
	Opening NO	min	ms	8
		max	ms	22
UL technical data		IIIdX	1115	22
) for three-phase AC motor			
i uii-ioau cuitetii (FLA	ioi ililee-pilase AC IIIOIOI	at 480V	۸	77
			A	
Vialdad sa abasisal s	- uf - u u	at 600V	A	77
Yielded mechanical pe				
	for three-phase AC motor	000/000/		
		200/208V	HP	25
		220/230V	HP	30
		460/480V	HP	60
		575/600V	HP	75
General USE				
	Contactor			
		AC current	Α	115
Short-circuit protection	n fuse, 600V			
	High fault			
		Short circuit current	kA	100
		Fuse rating	Α	200
		Fuse class		J
	Standard fault			
		Short circuit current	kA	10
		Fuse rating	Α	200
		Fuse class		RK5
Ambient conditions				
Temperature				
	Operating temperature			
	- •	min	°C	-50
		max	°C	70
	Storage temperature			
	5 1 -	min	°C	-60
		max	°C	80
Max altitude		max	m	3000
Resistance & Protection	on			
Pollution degree	<u> </u>			3
Dimensions [mm (in)]				

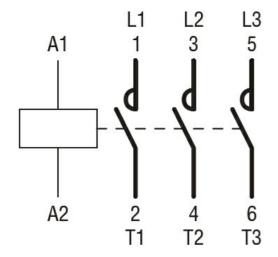


ENERGY AND AUTOMATION





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



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cULus

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching