

FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 115A, AC COIL 60HZ, 24VAC



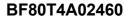
Product type designation	Product designation			Power contactor
Number of poles				
Number of poles	· · · ·			
Rated insulation voltage Ui IEC/EN V 1000 Rated impulse withstand voltage Uimp kV 8 Operational frequency min Hz 25 imax Hz 400 IEC Conventional free air thermal current Ith A 115 Operational current Ite AC-1 (≤40°C) A 115 AC-1 (≤70°C) A 80 AC-1 (≤70°C) A 80 AC-1 (≤40°V) A 38 AC-1 (≤40°V) A 80 AC-2 (≤440V ≤55°C) A 80 AC-4 (400V) A 80 AC-3 (≤440V ≤55°C) A 80 AC-4 (400V) A 80 AC-4 (400V) A 80 AC-4 (400V) A 80 A15V A 80 AC-4 (400V) A <td< td=""><td></td><td></td><td>Nr.</td><td>4</td></td<>			Nr.	4
Rated impulse withstand voltage Ulimp	·			1000
Operational frequency min max by Hz max Hz max Hz hz max 400 IEC Conventional free air thermal current lth A 115 Operational current Ie AC-1 (≤40°C) A 115 AC-1 (≤55°C) A 95 AC-1 (≤70°C) A 80 AC-1 (≤70°C) A 80 AC-3 (≤440V ≤55°C) A 80 AC-3 (≤440V ≤55°C) A 80 AC-4 (400V) A 38 Rated operational current AC-3 (T≤55°C) 230V A 80 40V A 80 415V A 80 440V A 80 440V A 80 440V A 80 440V A 78 690V A 57 1000V A 28 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 A 70 48V A 60 75V A 60 110V A 8 220V A - IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series ≤24V A 100 75V A 100 75V A 100 75V A 100 110V A 8 220V A - IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series ≤24V A 100 75V A 100 110V A 8 220V A 9 IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series ≤24V A 100 75V A 100 110V A 80 220V A 9			kV	
Min				
EC Conventional free air thermal current lth		min	Hz	25
Operational current le AC-1 (≤40°C) A 115 AC-1 (≤55°C) A 95 AC-1 (≤70°C) A 80 AC-3 (≤440V ≤55°C) A 80 AC-4 (400V) A 38 Rated operational current AC-3 (T≤55°C) 230V A 80 400V A 80 415V A 80 440V A 80 440V A 80 690V A 78 690V A 78 690V KW 43 400V KW 43 400V KW 70 48V A 60 500V KW 120 IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series ≤24V A 100 48V A 100 48V A 100 110V A 80 220V A 100 110V A 80 220V A		max	Hz	400
AC-1 (≤40°C)	IEC Conventional free air thermal current Ith		Α	115
AC-1 (≤55°C) A 95 AC-1 (≤70°C) A 80 AC-3 (≤440V ≤55°C) A 80 AC-3 (≤440V ≤55°C) A 80 AC-4 (400V) A 38 Rated operational current AC-3 (T≤55°C) 230V A 80 400V A 80 415V A 80 440V A 80 500V A 78 690V A 57 1000V A 28 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 524V A 70 48V A 60 75V A 60 110V A 8 220V A - IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series 524V A 100 75V A 100 75V A 100 110V A 80 220V A 9 IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series 524V A 100 75V A 100 110V A 80 220V A 9 IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series 524V A 100 75V 75V 75V 75V 75V 75V	Operational current le			
AC-1 (≤70°C) A 80 AC-3 (≤440V ≤55°C) A 80 AC-4 (400V) A 38 Rated operational current AC-3 (T≤55°C) 230V A 80 400V A 80 415V A 80 440V A 80 500V A 78 690V A 57 1000V A 28 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 A 70 48V A 60 110V A 8 220V A - IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series ≤24V A 100 48V A 100 75V A 100 110V A 8 220V A 9 IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series		AC-1 (≤40°C)	Α	115
AC-3 (≤440V ≤55°C)		AC-1 (≤55°C)	Α	95
Rated operational current AC-3 (T≤55°C) 230V A 80 400V A 80 415V A 80 440V A 80 500V A 78 690V A 57 1000V A 28 Rated operational power AC-1 (T≤40°C) 230V kW 43 400V kW 76 500V kW 95 690V kW 95 690V kW 120 IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series 524V A 70 48V A 60 75V A 60 110V A 8 220V A - IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series 524V A 100 48V A 100 48V A 100 48V A 100 110V A 8 220V A 9 IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series			Α	80
Rated operational current AC-3 (T≤55°C) 230V A 80 400V A 80 415V A 80 440V A 80 440V A 80 500V A 78 690V A 57 1000V A 28 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 A 70 48V A 60 110V A 8 220V A - IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series ≤24V A 100 48V A 100 75V A 100 110V A 8 220V A 9 IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series ≤24V A 100 110V A 80 220V A 9		,	Α	80
230V		AC-4 (400V)	Α	38
400V	Rated operational current AC-3 (T≤55°C)			
415V				
440V A 80 500V A 78 690V A 57 1000V A 28				
Soov A 78 690V A 57 1000V A 28				
Rated operational power AC-1 (T≤40°C) 230V kW 43 4400V kW 76 500V kW 95 690V kW 120				
Rated operational power AC-1 (T≤40°C) 230V kW 43 440V kW 76 500V kW 95 690V kW 120				
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 A 70 48V A 60 75V A 60 110V A 8 220V A - IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series ≤24V A 100 48V A 100 75V A 100 110V A 80 220V A 9 IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series ≤24V A 100 48V A 100 110V A 80 220V A 9				
	D 1 1 2 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1000V	А	28
A00V kW 76 500V kW 95 690V kW 120	Rated operational power AC-1 (1540°C)	0001	1-107	40
EC max current le in DC1 with L/R ≤ 1ms with 1 poles in series S24V A 70				
EC max current le in DC1 with L/R ≤ 1ms with 1 poles in series S24V				
SEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series S24V				
	IFC may current le in DC1 with L/R < 1ms with 1 notes in series	090 V	KVV	120
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	TEO MAX current le in DOT with E/TC = 11113 with 1 poles in series	<24\/	Δ	70
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$				
110V A 8 220V A -				
EC max current le in DC1 with L/R \leq 1ms with 2 poles in series \leq 24V A 100 48V A 100 75V A 100 110V A 80 220V A 9				
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series				_
	IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series			
	·	≤24V	Α	100
		48V		
		75V	Α	100
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series ≤24V A 100 48V A 100		110V	Α	80
≤24V A 100 48V A 100		220V	Α	9
48V A 100	IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series			
		≤24V	Α	100
75V A 100		48V	Α	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
		A	040
Protection fuse	O (IEO)	۸	405
	gG (IEC)	A	125
W. (1940 - 1940	aM (IEC)	Α	80
Making capacity (RMS value)		Α	800
Breaking capacity at voltage	4.401.4		0.40
	440V	Α	640
	500V	Α	625
· 	690V	A	456
Resistance per pole (average value)		mΩ	0.6
Power dissipation per pole (average value)			
	Ith	W	7.9
	AC-3	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	lbin	0.74
Max number of wires s	simultaneously connectable	e		Nr.	2
Conductor section					
	AWG/Kcmil				
	AVVO/ICIIII		max		2
	Florible/e lue conduct	tor ocation	Παλ		
	Flexible w/o lug conduct	tor section			4.5
			min	mm²	1.5
			max	mm²	35
	Flexible c/w lug conduct	tor section			
			min	mm²	1.5
			max	mm²	35
Power terminal protect	tion according to IEC/EN	60529			IP20 front
Mechanical features	3				
Operating position					
Operating position			normal		Vertical plan
					Vertical plan
			allowable		±30°
Fixing					Screw / DIN rail
					35mm
Weight				g	1240
Operations					
Mechanical life				cycles	15000000
Electrical life				cycles	1300000
Safety related data					
-	0d according to EN/ISO 1	3489-1			
T CHOIMANGE ICVCI DTC	od docording to ETV/100 T	0400 1	rated load	cycles	1300000
			mechanical load	cycles	1500000
				CVCIAS	15000000
E110			mechanical load	Cyclcs	-
EMC compatibility			mechanica load	- Cy OlC S	yes
AC coil operating			mechanical load		yes
AC coil operating Rated AC voltage at 60	0Hz		mechanica load	V	-
AC coil operating	0Hz		mechanicarioad		yes
AC coil operating Rated AC voltage at 60	0Hz of 60Hz coil powered at	60Hz	mechanicarioad		yes
AC coil operating Rated AC voltage at 60	of 60Hz coil powered at		mechanicarioad		yes
AC coil operating Rated AC voltage at 60	of 60Hz coil powered at	60Hz pick-up		V	yes 24
AC coil operating Rated AC voltage at 60	of 60Hz coil powered at		min	V %Us	yes 24 80
AC coil operating Rated AC voltage at 60	of 60Hz coil powered at	pick-up		V	yes 24
AC coil operating Rated AC voltage at 60	of 60Hz coil powered at		min max	V %Us %Us	yes 24 80 110
AC coil operating Rated AC voltage at 60	of 60Hz coil powered at	pick-up	min max min	V %Us %Us %Us	yes 24 80 110 20
AC coil operating Rated AC voltage at 60 AC operating voltage	of 60Hz coil powered at	pick-up	min max	V %Us %Us	yes 24 80 110
AC coil operating Rated AC voltage at 60	of 60Hz coil powered at	pick-up drop-out	min max min	V %Us %Us %Us	yes 24 80 110 20
AC coil operating Rated AC voltage at 60 AC operating voltage	of 60Hz coil powered at	pick-up drop-out	min max min	V %Us %Us %Us	yes 24 80 110 20
AC coil operating Rated AC voltage at 60 AC operating voltage	of 60Hz coil powered at	pick-up drop-out	min max min	V %Us %Us %Us	yes 24 80 110 20
AC coil operating Rated AC voltage at 60 AC operating voltage	of 60Hz coil powered at	pick-up drop-out	min max min max	V %Us %Us %Us %Us %Us	yes 24 80 110 20 55
AC coil operating Rated AC voltage at 60 AC operating voltage AC average coil consu	of 60Hz coil powered at Imption at 20°C of 60Hz coil powered at	pick-up drop-out	min max min max in-rush	V %Us %Us %Us %Us VA	yes 24 80 110 20 55
AC coil operating Rated AC voltage at 60 AC operating voltage AC average coil consul Dissipation at holding s	of 60Hz coil powered at Imption at 20°C of 60Hz coil powered at	pick-up drop-out	min max min max in-rush	V %Us %Us %Us %Us VA VA	yes 24 80 110 20 55 210 15
AC coil operating Rated AC voltage at 60 AC operating voltage AC average coil consul Dissipation at holding s Max cycles frequency	of 60Hz coil powered at Imption at 20°C of 60Hz coil powered at	pick-up drop-out	min max min max in-rush	V %Us %Us %Us %Us VA VA VA	yes 24 80 110 20 55 210 15 5
AC coil operating Rated AC voltage at 60 AC operating voltage AC average coil consul Dissipation at holding s Max cycles frequency Mechanical operation	of 60Hz coil powered at Imption at 20°C of 60Hz coil powered at	pick-up drop-out	min max min max in-rush	V %Us %Us %Us %Us VA VA	yes 24 80 110 20 55 210 15 5
AC coil operating Rated AC voltage at 60 AC operating voltage AC average coil consul Dissipation at holding some max cycles frequency Mechanical operation Operating times	of 60Hz coil powered at Imption at 20°C of 60Hz coil powered at ≤20°C 50Hz	pick-up drop-out	min max min max in-rush	V %Us %Us %Us %Us VA VA VA	yes 24 80 110 20 55 210 15 5
AC coil operating Rated AC voltage at 60 AC operating voltage AC average coil consul Dissipation at holding s Max cycles frequency Mechanical operation	of 60Hz coil powered at Imption at 20°C of 60Hz coil powered at ≤20°C 50Hz	pick-up drop-out	min max min max in-rush	V %Us %Us %Us %Us VA VA VA	yes 24 80 110 20 55 210 15 5
AC coil operating Rated AC voltage at 60 AC operating voltage AC average coil consul Dissipation at holding some max cycles frequency Mechanical operation Operating times	of 60Hz coil powered at Imption at 20°C of 60Hz coil powered at ≤20°C 50Hz Dontrol in AC	pick-up drop-out 60Hz	min max min max in-rush	V %Us %Us %Us %Us VA VA VA	yes 24 80 110 20 55 210 15 5
AC coil operating Rated AC voltage at 60 AC operating voltage AC average coil consul Dissipation at holding some max cycles frequency Mechanical operation Operating times	of 60Hz coil powered at Imption at 20°C of 60Hz coil powered at ≤20°C 50Hz Dontrol in AC	pick-up drop-out	min max min max in-rush holding	V %Us %Us %Us %Us VA VA VA VA Cycles/h	yes 24 80 110 20 55 210 15 5 3600
AC coil operating Rated AC voltage at 60 AC operating voltage AC average coil consul Dissipation at holding some max cycles frequency Mechanical operation Operating times	of 60Hz coil powered at Imption at 20°C of 60Hz coil powered at ≤20°C 50Hz Dontrol in AC	pick-up drop-out 60Hz	min max min max in-rush	V %Us %Us %Us %Us VA VA VA	yes 24 80 110 20 55 210 15 5 3600
AC coil operating Rated AC voltage at 60 AC operating voltage AC average coil consul Dissipation at holding some max cycles frequency Mechanical operation Operating times	of 60Hz coil powered at Imption at 20°C of 60Hz coil powered at ≤20°C 50Hz ontrol in AC	pick-up drop-out 60Hz Closing NO	min max min max in-rush holding	V %Us %Us %Us %Us VA VA VA VA Cycles/h	yes 24 80 110 20 55 210 15 5 3600
AC coil operating Rated AC voltage at 60 AC operating voltage AC average coil consul Dissipation at holding some max cycles frequency Mechanical operation Operating times	of 60Hz coil powered at Imption at 20°C of 60Hz coil powered at ≤20°C 50Hz ontrol in AC	pick-up drop-out 60Hz	min max min max in-rush holding	V %Us %Us %Us %Us VA VA VA w cycles/h	yes 24 80 110 20 55 210 15 5 3600
AC coil operating Rated AC voltage at 60 AC operating voltage AC average coil consul Dissipation at holding some max cycles frequency Mechanical operation Operating times	of 60Hz coil powered at Imption at 20°C of 60Hz coil powered at ≤20°C 50Hz ontrol in AC	pick-up drop-out 60Hz Closing NO	min max min max in-rush holding	V %Us %Us %Us %Us VA VA VA w cycles/h	yes 24 80 110 20 55 210 15 5 3600
AC coil operating Rated AC voltage at 60 AC operating voltage AC average coil consul Dissipation at holding some max cycles frequency Mechanical operation Operating times	of 60Hz coil powered at Imption at 20°C of 60Hz coil powered at ≤20°C 50Hz ontrol in AC	pick-up drop-out 60Hz Closing NO	min max min max in-rush holding min max	V %Us %Us %Us %Us VA VA W cycles/h ms ms	yes 24 80 110 20 55 210 15 5 3600





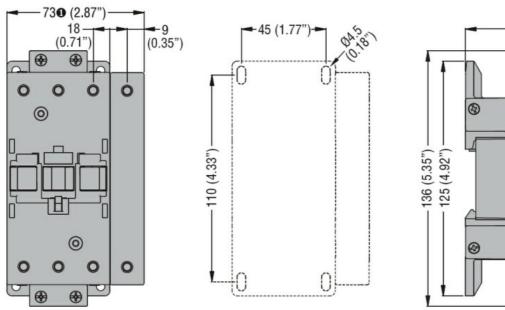
FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 115A, AC COIL 60HZ,

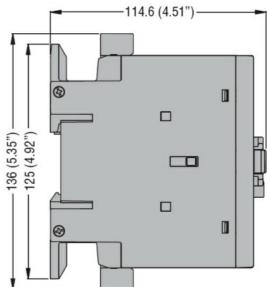
	in DC			
	Closing NO	•		40
		min	ms	40
		max	ms	85
	Opening NO			
		min	ms	20
		max	ms	55
UL technical data				
Rated operational volta			V	600
Full-load current (FLA)	for three-phase AC motor			
		at 480V	Α	77
		at 600V	Α	77
Yielded mechanical pe	erformance			
	for three-phase AC motor			
		200/208V	HP	25
		220/230V	HP	30
		460/480V	HP	60
		575/600V	HP	75
General USE				
	Contactor			
		AC current	Α	115
Short-circuit protection	fuse, 600V			_
- · · · · · · · · · · · · · · · · · · ·	High fault			
	- iigii idaii	Short circuit current	kA	100
		Fuse rating	Α	200
		Fuse class	, ,	J
	Standard fault	1 400 01400		
	Standard radit	Short circuit current	kA	10
		Fuse rating	A	200
		Fuse class	Α	RK5
Ambient conditions		i use class		TATO
Temperature				
remperature	Operating temperature			
	Operating temperature	min	°C	5 0
		min	°C	-50 70
	Storage temperature	max	U	10
	Storage temperature	and the	°C	60
		min		-60
May altitud -		max	°C	80
Max altitude			m	3000
Resistance & Protection	on			
Pollution degree				3
Dimensions				



ENERGY AND AUTOMATION

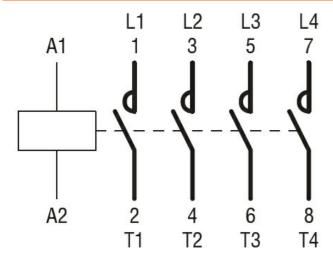
FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 115A, AC COIL 60HZ,





BF80T2 82mm/3.23"

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

cULus

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching