THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 150A, AC COIL 60HZ,



Product designation Power contactor Product type designation BF150

AC AC AC AC-3 (≤44 At ated operational power AC-3 (T≤55°C) ated operational current AC-3 (T≤55°C)	min max C-1 (≤40°C) C-1 (≤55°C) C-1 (≤70°C) 40V ≤55°C) C-4 (400V) 230V 400V 415V 440V 500V 690V 1000V	Nr. V kV Hz Hz A A A A A KW kW kW kW kW kW	3 1000 8 25 400 165 165 135 118 150 70 45 75 75 75 75 90 110 55
ated insulation voltage Ui IEC/EN ated impulse withstand voltage Uimp perational frequency C Conventional free air thermal current Ith perational current Ie AC	max C-1 (≤40°C) C-1 (≤55°C) C-1 (≤70°C) 40V ≤55°C) C-4 (400V) 230V 400V 415V 440V 500V 690V 1000V	V kV Hz Hz A A A A A kW kW kW kW kW	1000 8 25 400 165 165 135 118 150 70 45 75 75 75 90 110
ated impulse withstand voltage Uimp perational frequency C Conventional free air thermal current Ith perational current le AC	max C-1 (≤40°C) C-1 (≤55°C) C-1 (≤70°C) 40V ≤55°C) C-4 (400V) 230V 400V 415V 440V 500V 690V 1000V	kV Hz Hz A A A A A kW kW kW kW kW	8 25 400 165 165 135 118 150 70 45 75 75 75 90 110
C Conventional free air thermal current Ith Derational current le AC AC AC AC-3 (≤44 Ated operational power AC-3 (T≤55°C)	max C-1 (≤40°C) C-1 (≤55°C) C-1 (≤70°C) 40V ≤55°C) C-4 (400V) 230V 400V 415V 440V 500V 690V 1000V	Hz Hz A A A A A kW kW kW kW kW	25 400 165 165 135 118 150 70 45 75 75 75 90 110
C Conventional free air thermal current Ith Derational current le AC AC AC AC-3 (≤44 Al Ated operational power AC-3 (T≤55°C) ated operational current AC-3 (T≤55°C)	max C-1 (≤40°C) C-1 (≤55°C) C-1 (≤70°C) 40V ≤55°C) C-4 (400V) 230V 400V 415V 440V 500V 690V 1000V	A A A A A KW KW KW KW KW	400 165 165 135 118 150 70 45 75 75 75 90 110
AC AC AC AC AC AC-3 (≤44 Al ated operational power AC-3 (T≤55°C)	max C-1 (≤40°C) C-1 (≤55°C) C-1 (≤70°C) 40V ≤55°C) C-4 (400V) 230V 400V 415V 440V 500V 690V 1000V	A A A A A KW KW KW KW KW	400 165 165 135 118 150 70 45 75 75 75 90 110
AC AC AC AC AC AC-3 (≤44 Al ated operational power AC-3 (T≤55°C)	C-1 (≤40°C) C-1 (≤55°C) C-1 (≤70°C) 40V ≤55°C) C-4 (400V) 230V 400V 415V 440V 500V 690V 1000V	A A A A KW kW kW kW kW	165 165 135 118 150 70 45 75 75 90 110
AC AC AC AC AC AC-3 (≤44 Al ated operational power AC-3 (T≤55°C)	C-1 (≤55°C) C-1 (≤70°C) 40V ≤55°C) C-4 (400V) 230V 400V 415V 440V 500V 690V 1000V	A A A A kW kW kW kW kW	165 135 118 150 70 45 75 75 75 90 110
AC AC AC AC AC AC-3 (≤44 Ar ated operational power AC-3 (T≤55°C)	C-1 (≤55°C) C-1 (≤70°C) 40V ≤55°C) C-4 (400V) 230V 400V 415V 440V 500V 690V 1000V	A A A A kW kW kW kW kW	135 118 150 70 45 75 75 75 90 110
AC AC AC AC-3 (≤44 At ated operational power AC-3 (T≤55°C) ated operational current AC-3 (T≤55°C)	C-1 (≤55°C) C-1 (≤70°C) 40V ≤55°C) C-4 (400V) 230V 400V 415V 440V 500V 690V 1000V	A A A A kW kW kW kW kW	135 118 150 70 45 75 75 75 90 110
AC-3 (≤44 Acated operational power AC-3 (T≤55°C)	C-1 (≤70°C) 40V ≤55°C) 3C-4 (400V) 230V 400V 415V 440V 500V 690V 1000V	A A KW kW kW kW kW	118 150 70 45 75 75 75 90 110
AC-3 (≤44 Ated operational power AC-3 (T≤55°C)	40V ≤55°C) AC-4 (400V) 230V 400V 415V 440V 500V 690V 1000V	A A kW kW kW kW kW	150 70 45 75 75 75 90 110
ated operational power AC-3 (T≤55°C) ated operational current AC-3 (T≤55°C)	230V 400V 415V 440V 500V 690V 1000V	kW kW kW kW kW	70 45 75 75 75 90 110
ated operational power AC-3 (T≤55°C) ated operational current AC-3 (T≤55°C)	230V 400V 415V 440V 500V 690V 1000V	kW kW kW kW	45 75 75 75 90 110
ated operational current AC-3 (T≤55°C)	400V 415V 440V 500V 690V 1000V	kW kW kW kW	75 75 75 90 110
	400V 415V 440V 500V 690V 1000V	kW kW kW kW	75 75 75 90 110
	415V 440V 500V 690V 1000V	kW kW kW kW	75 75 90 110
	440V 500V 690V 1000V	kW kW kW	75 90 110
	500V 690V 1000V	kW kW	90 110
	690V 1000V	kW	110
	1000V		
		KVV	
	230V	۸	150
	400V	A A	150 150
	400 V 415 V	A	150
	440V	A	150
	500V	A	128
	690V	A	113
	1000V	Α	51
C max current le in DC1 with L/R ≤ 1ms with 1 poles in series	. 300 1		
poiss in soniss	≤24V	Α	165
	48V	Α	165
	75V	Α	150
	110V	Α	10
	220V	Α	_
C max current le in DC1 with L/R ≤ 1ms with 2 poles in series			
·	≤24V	Α	165
	48V	Α	165
	75V	Α	165
	110V	Α	150
	220V	Α	14

IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series



THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 150A, AC COIL 60HZ, 48VAC

	≤24V	Α	165
	48V	Α	165
	75V	Α	165
	110V	Α	160
	220V	Α	150
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
	≤24V	Α	165
	48V	Α	165
	75V	Α	165
	110V	Α	165
	220V	Α	165
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
·	≤24V	Α	165
	48V	Α	60
	75V	Α	44
	110V	Α	6
	220V	Α	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series		,,	
120 max current to in 200-200 with ETC 2 10m3 with 2 poics in 30m63	≤24V	Α	165
	48V	A	82
	75V	A	70
	110V	A	80
	220V	A	7
IFC may current le in DC2 DC5 with L/D < 15 mg with 2 notes in carios	220 V	<u> </u>	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series	<04)/	۸	405
	≤24V	A	165
	48V	A	195
	75V	A	110
	110V	A	120
150	220V	Α	120
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series	40.41.4		405
	≤24V	A	165
	48V	A	130
	75V	A	130
	110V	Α	150
	220V	Α	150
Short-time allowable current for 10s (IEC/EN60947-1)		Α	1200
Protection fuse			
	gG (IEC)	Α	250
·	aM (IEC)	Α	160
Making capacity (RMS value)		Α	1500
Breaking capacity at voltage			
	440V	Α	1200
	500V	Α	1025
	690V	Α	905
Resistance per pole (average value)		mΩ	0.45
Power dissipation per pole (average value)			
	Ith	W	12
	AC-3	W	10.1
Tightening torque for terminals			
	min	Nm	6
	max	Nm	7
	min	Ibin	4.4
	max	Ibin	5.2



THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 150A, AC COIL 60HZ,

Tightening torque for c	oil terminal			
rightering torque for c	on terminal	min	Nm	0.8
		max	Nm	1
		min	lbin	0.59
		max	Ibin	0.74
Conductor section		тах	10111	0.7 1
	AWG/Kcmil			
		max		2/0
	Flexible w/o lug conductor section			
	The same of the sa	min	mm²	1.5
		max	mm²	70
	Flexible c/w lug conductor section			
	o o,ag coaucto. cocc	min	mm²	1.5
		max	mm²	70
Power terminal protect	tion according to IEC/EN 60529			IP20 front
Mechanical features	tion according to 120/214 cocco			II Zo IIOIR
Operating position				
araina poomon		normal		Vertical plan
		allowable		±30°
		anowabio		Screw / DIN rail
Fixing				35mm
Weight			g	2020
Conductor section			<u> </u>	
Conductor Cochon	AWG/kcmil conductor section			
	AVV C/Rollin conductor section	max		2/0
Operations		max		2/0
Mechanical life			cycles	15000000
			cycles	15000000 800000
Electrical life			cycles cycles	1500000 800000
Electrical life Safety related data			-	800000
Mechanical life Electrical life Safety related data EMC compatibility AC coil operating			-	
Electrical life Safety related data EMC compatibility AC coil operating	OHz		cycles	800000 yes
Electrical life Safety related data EMC compatibility AC coil operating Rated AC voltage at 60	0Hz		-	800000
Electrical life Safety related data EMC compatibility AC coil operating Rated AC voltage at 60			cycles	800000 yes
Electrical life Safety related data EMC compatibility AC coil operating Rated AC voltage at 60	of 50/60Hz coil powered at 50Hz		cycles	800000 yes
Electrical life Safety related data EMC compatibility AC coil operating Rated AC voltage at 60		may	cycles V	900000 yes 48
Electrical life Safety related data EMC compatibility AC coil operating Rated AC voltage at 60	of 50/60Hz coil powered at 50Hz drop-out	max	cycles	800000 yes
Electrical life Safety related data EMC compatibility AC coil operating Rated AC voltage at 60	of 50/60Hz coil powered at 50Hz drop-out of 60Hz coil powered at 60Hz	max	cycles V	900000 yes 48
Electrical life Safety related data EMC compatibility AC coil operating Rated AC voltage at 60	of 50/60Hz coil powered at 50Hz drop-out		v V %Us	900000 yes 48
Electrical life Safety related data EMC compatibility AC coil operating Rated AC voltage at 60	of 50/60Hz coil powered at 50Hz drop-out of 60Hz coil powered at 60Hz	min	v V %Us	800000 yes 48 55
Electrical life Safety related data EMC compatibility AC coil operating Rated AC voltage at 60	of 50/60Hz coil powered at 50Hz drop-out of 60Hz coil powered at 60Hz pick-up		v V %Us	900000 yes 48
Electrical life Safety related data	of 50/60Hz coil powered at 50Hz drop-out of 60Hz coil powered at 60Hz	min max	v %Us %Us %Us	800000 yes 48 55 80 110
Electrical life Safety related data EMC compatibility AC coil operating Rated AC voltage at 60	of 50/60Hz coil powered at 50Hz drop-out of 60Hz coil powered at 60Hz pick-up	min max min	v %Us %Us %Us %Us	800000 yes 48 55 80 110 20
Electrical life Safety related data EMC compatibility AC coil operating Rated AC voltage at 60 AC operating voltage	of 50/60Hz coil powered at 50Hz drop-out of 60Hz coil powered at 60Hz pick-up drop-out	min max	v %Us %Us %Us	800000 yes 48 55 80 110
Electrical life Safety related data EMC compatibility AC coil operating Rated AC voltage at 60 AC operating voltage	of 50/60Hz coil powered at 50Hz drop-out of 60Hz coil powered at 60Hz pick-up drop-out	min max min	v %Us %Us %Us %Us	800000 yes 48 55 80 110 20
Electrical life Safety related data EMC compatibility AC coil operating Rated AC voltage at 60 AC operating voltage	of 50/60Hz coil powered at 50Hz drop-out of 60Hz coil powered at 60Hz pick-up drop-out	min max min max	v %Us %Us %Us %Us %Us	800000 yes 48 55 80 110 20 55
Electrical life Safety related data EMC compatibility AC coil operating Rated AC voltage at 60 AC operating voltage	of 50/60Hz coil powered at 50Hz drop-out of 60Hz coil powered at 60Hz pick-up drop-out	min max min max in-rush	v %Us %Us %Us %Us %Us	800000 yes 48 55 80 110 20 55
Electrical life Safety related data EMC compatibility AC coil operating Rated AC voltage at 60 AC operating voltage AC average coil consu	of 50/60Hz coil powered at 50Hz drop-out of 60Hz coil powered at 60Hz pick-up drop-out imption at 20°C of 60Hz coil powered at 60Hz	min max min max	v %Us %Us %Us %Us %Us VA	800000 yes 48 55 80 110 20 55 300 20
Electrical life Safety related data EMC compatibility AC coil operating Rated AC voltage at 60 AC operating voltage AC average coil consults Dissipation at holding a	of 50/60Hz coil powered at 50Hz drop-out of 60Hz coil powered at 60Hz pick-up drop-out imption at 20°C of 60Hz coil powered at 60Hz	min max min max in-rush	v %Us %Us %Us %Us %Us	800000 yes 48 55 80 110 20 55
Electrical life Safety related data EMC compatibility AC coil operating Rated AC voltage at 60 AC operating voltage AC average coil consultation Dissipation at holding: Max cycles frequency	of 50/60Hz coil powered at 50Hz drop-out of 60Hz coil powered at 60Hz pick-up drop-out imption at 20°C of 60Hz coil powered at 60Hz	min max min max in-rush	v %Us %Us %Us %Us %Us WA VA W	800000 yes 48 55 80 110 20 55 300 20 6.5
Electrical life Safety related data EMC compatibility AC coil operating Rated AC voltage at 60 AC operating voltage AC average coil consultation Dissipation at holding: Max cycles frequency Mechanical operation	of 50/60Hz coil powered at 50Hz drop-out of 60Hz coil powered at 60Hz pick-up drop-out imption at 20°C of 60Hz coil powered at 60Hz	min max min max in-rush	v %Us %Us %Us %Us %Us VA	800000 yes 48 55 80 110 20 55 300 20 6.5
Electrical life Safety related data EMC compatibility AC coil operating Rated AC voltage at 60 AC operating voltage AC average coil consults Dissipation at holding a	of 50/60Hz coil powered at 50Hz drop-out of 60Hz coil powered at 60Hz pick-up drop-out Imption at 20°C of 60Hz coil powered at 60Hz ≤20°C 50Hz	min max min max in-rush	v %Us %Us %Us %Us %Us WA VA W	800000 yes 48 55 80 110 20 55 300 20 6.5

in AC



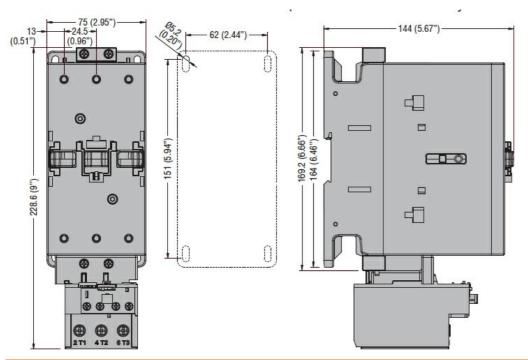


THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 150A, AC COIL 60HZ,

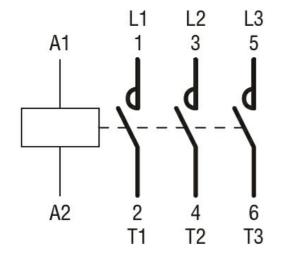
	Closing NO			
	-	min	ms	45
		max	ms	32
	Opening NO			
		min	ms	9
		max	ms	24
UL technical data				
Yielded mechanical per	rformance			
	for three-phase AC motor			
		200/208V	HP	50
		220/230V	HP	50
		460/480V	HP	100
		575/600V	HP	125
General USE				_
	Contactor			
		AC current	Α	165
Short-circuit protection	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	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				

ENERGY AND AUTOMATION

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 150A, AC COIL 60HZ,



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