

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 115A, AC COIL 50/60HZ, 230VAC



Product designation Product type designation			Power contactor BF115
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	160
Operational current le			
	AC-1 (≤40°C)	Α	160
	AC-1 (≤55°C)	Α	130
	AC-1 (≤70°C)	Α	115
	AC-3 (≤440V ≤55°C)	Α	115
	AC-4 (400V)	Α	54
Rated operational power AC-3 (T≤55°C)			
	230V	kW	37
	400V	kW	55
	415V	kW	55
	440V	kW	55
	500V	kW	75
	690V	kW	110
	1000V	kW	55
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series			
	≤24V	Α	160
	48V	Α	160
	75V	Α	120
	110V	Α	10
	220V	Α	
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series			
	≤24V	Α	160
	48V	Α	160
	75V	Α	160
	110V	Α	130
	220V	Α	14
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series			
	≤24V	Α	160
	48V	Α	160
	75V	Α	160
	110V	Α	140
	220V	Α	145
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
	≤24V	Α	160
	48V	Α	160



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	75V	Α	160
	110V	Α	160
150 DOO DOO WAADAA WAAAA WAAAAA WAAAA WAAAAA WAAAA WAAAA WAAAAA WAAAAAA	220V	Α	160
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series	40.4V.	•	400
	≤24V	A	160
	48V	A	50
	75V	A	40
	110V 220V	A A	6
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series	220 V		
The max current le in boo-boo with bit 2 followith 2 poles in series	≤24V	Α	160
	48V	A	72
	75V	Α	65
	110V	A	65
	220V	Α	7
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series			·
	≤24V	Α	160
	48V	Α	150
	75V	Α	100
	110V	Α	100
	220V	Α	92
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series			
	≤24V	Α	160
	48V	Α	120
	75V	Α	120
	110V	Α	125
	220V	Α	115
Short-time allowable current for 10s (IEC/EN60947-1)		Α	920
Protection fuse			
	gG (IEC)	Α	200
·	aM (IEC)	Α	125
Making capacity (RMS value)		Α	1500
Breaking capacity at voltage		_	
	440V	Α	1200
	500V	Α	850
	690V	A	905
Resistance per pole (average value)		mΩ	0.45
Power dissipation per pole (average value)	141-	147	44.5
	Ith	W	11.5
Tightening torque for terminals	AC3	W	6.0
rigitering torque for terminals	min	Nlm	6
	min	Nm Nm	6 7
	max min	Ibin	4.4
	max	Ibin	4.4 5.2
Tightening torque for coil terminal	Шах	IUIII	J.L
rightening torque for contentinal	min	Nm	0.8
	max	Nm	0.6 1
	min	lbft	0.59
	max	lbft	0.74
Conductor section	HIGA	1011	U.1 T
Flexible w/o lug conductor section			
1 loxible We ray conductor section	min	mm²	1.5
	111111		



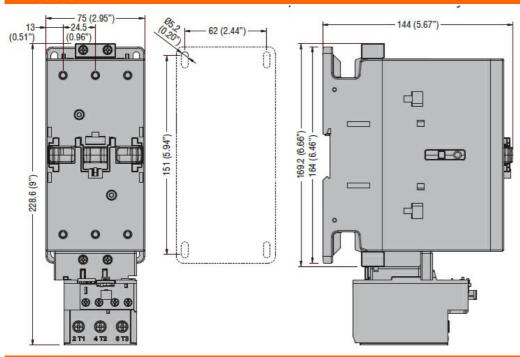
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		max	mm²	70
	Flexible c/w lug conductor section			
		min	mm²	1.5
		max	mm²	70
Power terminal protect Mechanical features	ion according to IEC/EN 60529			IP20 front
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail 35mm
Weight			g	2020
Operations				
Mechanical life			cycles	15000000
Electrical life			cycles	1200000
AC coil operating				
Rated AC voltage at 50	0/60Hz		V	230
AC operating voltage	of 50/0011 and 1 and 5011			
	of 50/60Hz coil powered at 50Hz			
	pick-up	min	%Us	80
		max	%Us	110
	drop-out	max	7003	110
	arop cat	min	%Us	20
		max	%Us	55
	of 50/60Hz coil powered at 60Hz			_
	pick-up			
		min	%Us	85
		max	%Us	110
	drop-out			
		min	%Us	40
Maria de Company		max	%Us	55
Max cycles frequency				4500
Mechanical operation Operating times			cycles/h	1500
Average time for Us co	ontrol			
Average lime for 05 cc	in AC			
	Closing NO			
	Closhing No	min	ms	16
		max	ms	32
	Opening NO			
		min	ms	9
		max	ms	24
UL technical data				
Yielded mechanical pe				
	for three-phase AC motor	000/000/		4.0
		200/208V	HP	40
		220/230V 460/480V	HP HP	40 75
		575/600V	HP	100
General USE		373/0007	110	100
Jeneral UJL	Contactor			
		AC current	Α	165
Short-circuit protection	fuse, 600V	, to ourion		
	,			

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	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

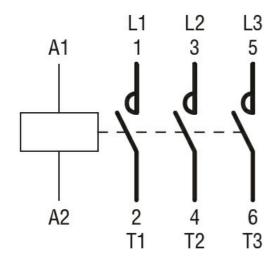
Dimensions



Wiring diagrams

ENERGY AND AUTOMATION

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Certifications and compliance

Compliance

CSA C22.2 n° 60947-1

CSA C22.2 n° 60947-4-1

IEC/EN 60947-1

IEC/EN 60947-4-1

UL 60947-1

UL 60947-4-1

Certificates

CCC

cULus

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching