

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



Product designation Power contactor Product type designation BF115

Product type designation			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
Rated operational current AC-3 (T≤55°C)			
	230V	Α	115
	400V	Α	115
	415V	Α	115
	440V	Α	115
	500V	Α	106
	690V	Α	106
	1000V	A	39
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
150	220V	Α	_
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series		_	
	≤24V	Α	160
	48V	A	160
	75V	A	160
	110V	A	130
IEC may current le in DC1 with L/R < 1ms with 3 notes in series	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) = 115A, AC COIL 60HZ, 120VAC

	≤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
	75V	Α	160
	110V	Α	160
	220V	Α	160
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
	≤24V	Α	160
	48V	Α	50
	75V	Α	40
	110V	A	6
	220V	A	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series	220 V		
TEO MAX GAMERICIE III DOO-DOO WILLI E/IV = TOMB WILLI Z POIES III SELIES	≤24V	Α	160
	≥24V 48V	A	72
	75V	A	65
	110V		
		A	65
IFO was a summand to im DOO DOF with 1/D < 45 as with 0 males in a mine	220V	Α	7
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series	40.41.4	•	400
	≤24V	A	160
	48V	A	150
	75V	A	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	Α	905
Resistance per pole (average value)		mΩ	0.45
Power dissipation per pole (average value)			
, , , , , , , , , , , , , , , , , , , ,	Ith	W	11.5
	AC-3	W	6.0
Tightening torque for terminals			
	min	Nm	6
	max	Nm	7
	min	lbin	4.4
	max	lbin	5.2
	Παλ	IUIII	J. <u>Z</u>



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

Tightening torque for o	coil terminal				
			min	Nm	0.8
			max	Nm	1
			min	Ibin	0.59
			max	Ibin	0.74
Conductor section					
	AWG/Kcmil				
			max		2/0
	Flexible w/o lug cond	ductor section			
			min	mm²	1.5
			max	mm²	70
	Flexible c/w lug cond	luctor section			
	· ·		min	mm²	1.5
			max	mm²	70
Power terminal protec	tion according to IEC/E	N 60529			IP20 front
Mechanical features	<u> </u>				
Operating position					
1			normal		Vertical plan
			allowable		±30°
			anowabic		Screw / DIN rail
Fixing					35mm
Weight				g	2020
Conductor section				9	2020
Conductor Section	AWG/kcmil conducto	or caction			
	AVVG/Kcmiii conducio	n Section	may		2/0
Operations			max		2/0
Mechanical life				eveloc	15000000
Electrical life				cycles	1200000
AC coil operating				cycles	1200000
	∩⊔			V	120
Rated AC voltage at 6	UNZ			v	120
AC operating voltage	-f COLI—:!	1 -4 001 -			
	of 60Hz coil powered				
		pick-up	!	0/11-	0.0
			min	%Us	80
			max	%Us	110
		drop-out			
			min	%Us	20
			max	%Us	55
AC average coil cons	•				
	of 60Hz coil powered	l at 60Hz			
			in-rush	VA	300
			holding	VA	20
Max cycles frequency					
Mechanical operation				cycles/h	1500
Operating times					
Average time for Us c					
	in AC				
		Closing NO			
			min	ms	16
			max	ms	32
		On anima NO			
		Opening NO			
		Opening NO	min	ms	9
		Opening NO	min max	ms ms	9 24

ENERGY AND AUTOMATION

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

for three-phase AC motor

200/208V	HP	40
220/230V	HP	40
460/480V	HP	75
575/600V	HP	100

General USE

Contactor

	AC current	Α	165
Short-circuit protection fuee 600\/			

Short-circuit protection fuse, 600V High fault

	Short circuit current	kΑ	100
	Fuse rating	Α	200
	Fuse class		J
Standard fault			

Short circuit current kA 10
Fuse rating A 250
Fuse class RK5

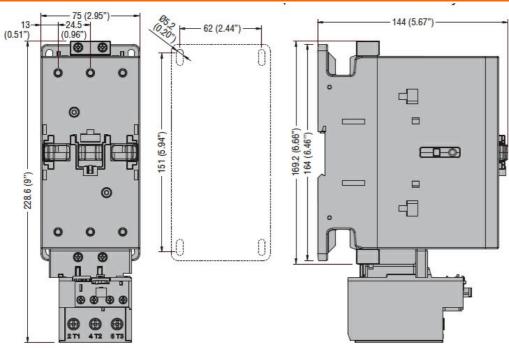
Ambient conditions

Temperature

Operating temperature

	min	$^{\circ}C$	-50	
	max	°C	70	
Storage temperature				
	min	°C	-60	
	max	°C	+80	
		m	3000	

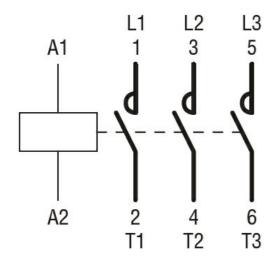
Max altitude Dimensions



Wiring diagrams

ENERGY AND AUTOMATION

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



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