



Product designation Power contactor Product type designation BF115 Contact characteristics Nr. 3 Number of poles Rated insulation voltage Ui IEC/EN ٧ 1000 k۷ Rated impulse withstand voltage Uimp 8 Operational frequency Нъ 25 min max Hz 400 IEC Conventional free air thermal current Ith 160 Α 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) 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 160 ≤24V Α 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 160 Α 48V Α 160 75V Α 160 110V 140 220V Α 145 IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series ≤24V Α 160 48V 160 Α



BF11500A024

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 115A, AC COIL 50/60HZ, 24VAC

	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
150 H. J. DOO DOE 111 L/D 445 111 O. L. J. J.	220V	Α	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series	-0.1V		400
	≤24V	A	160
	48V	A	72
	75V	A	65
	110V	A	65
IFC many assert to in DC2 DC5 with L/D < 45 may with 2 males in agrica	220V	Α	7
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series	~241 /	۸	100
	≤24V 48V	A	160 150
	48 V 75 V	A A	150 100
	110V		100
	220V	A A	92
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series	220 V		92
TEC max current le in DC3-DC3 with E/N = 13ms with 4 poles in series	≤24V	Α	160
	48V	A	120
	75V	A	120
	110V	A	125
	220V	A	115
Short-time allowable current for 10s (IEC/EN60947-1)	220 0	A	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
	AC3	W	6.0
Tightening torque for terminals			
	min	Nm	6
	max	Nm	7
	min	Ibin	4.4
	max	lbin	5.2
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	lbin	0.59
	max	Ibin	0.74
Conductor section			
AWG/Kcmil			
	max		2/0





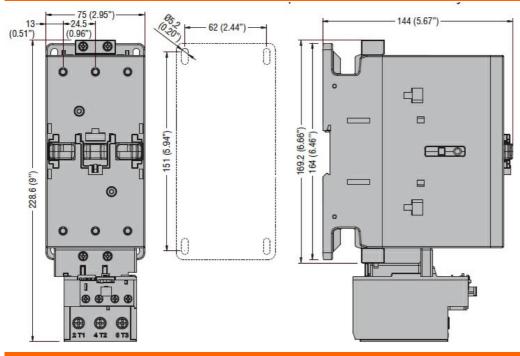
BF11500A024

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

ENERGY AND AUTOMATION				
	Elevible w/e lug conductor continu			
	Flexible w/o lug conductor section	min	mm²	1.5
		max	mm²	70
	Flexible c/w lug conductor section	max	111111	70
	rickible of wind dorlddolor section	min	mm²	1.5
		max	mm²	70
-	tion according to IEC/EN 60529			IP20 front
lechanical features				
perating position				Mantiaal alam
		normal		Vertical plan ±30°
		allowable		Screw / DIN rail
ixing				35mm
Veight			g	2020
Conductor section			<u> </u>	2020
	AWG/kcmil conductor section			
		max		2/0
Operations				
Mechanical life			cycles	15000000
Electrical life			cycles	1200000
C coil operating			-	
Rated AC voltage at 5	0/60Hz		V	24
C operating voltage				
	of 50/60Hz coil powered at 50Hz			
	pick-up			
		min	%Us	80
		max	%Us	110
	drop-out			
		min	%Us	20
		max	%Us	55
	of 50/60Hz coil powered at 60Hz			
	pick-up		0/11	0.5
		min	%Us	85
	draw and	max	%Us	110
	drop-out		0/116	40
		min	%Us %Us	40
AC average coil consu	umption at 20°C	max	%US	55
to average con const	of 50/60Hz coil powered at 50Hz			
	or solver iz con powered at sumz	in-rush	VA	300
		holding	VA VA	20
	of 50/60Hz coil powered at 60Hz	noiding	V/1	
	2. 20,002 00 portoroa at 00112	in-rush	VA	275
		holding	VA	17
	of 60Hz coil powered at 60Hz			-
		in-rush	VA	300
		holding	VA	20
Max cycles frequency				
Mechanical operation			cycles/h	1500
Operating times				
Average time for Us co	ontrol			
-	in AC			
	Closing NO			
	-	min	ms	16

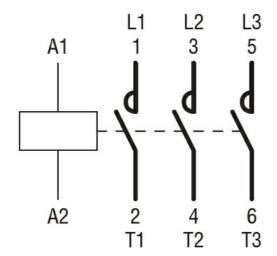
	On onin a NO	max	ms	32
	Opening NO	min	ms	9
		max	ms	24
UL technical data		max	1110	21
Yielded mechanical performand	ce			
•	e-phase AC motor			
101 11110	o pridocitio motor	200/208V	HP	40
		220/230V	HP	40
		460/480V	HP	75
		575/600V	HP	100
General USE				
Contac	tor			
		AC current	Α	165
Short-circuit protection fuse, 60	0V			
, High fa				
Ŭ.		Short circuit current	kA	100
		Fuse rating	Α	200
		Fuse class		J
Standa	rd fault			
		Short circuit current	kA	10
		Fuse rating	Α	250
		Fuse class		RK5
Ambient conditions				
Temperature				
Operati	ing temperature			
·		min	°C	-50
		max	°C	70
Storage	e temperature			
_		min	°C	-60
		max	°C	+80
Max altitude			m	3000

Dimensions



Wiring diagrams

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



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





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
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



BF11500A048

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 115A, AC COIL 50/60HZ, 48VAC

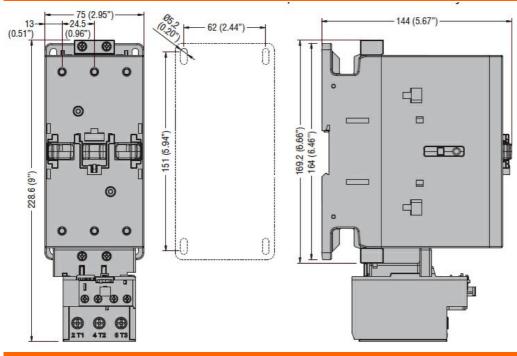
	75V	Α	160
	110V	Α	160
	220V	A	160
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
	≤24V	Α	160
	48V	Α	50
	75V	Α	40
	110V	A	6
150 DOO DOO 111 L/D 4.45 111 0 1 1 1	220V	Α	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series	-0.1V	•	400
	≤24V	A	160
	48V	A	72
	75V	A	65
	110V	A	65
IFC many assument to in DC2 DCE with L/D < 45 may with 2 males in agrics	220V	Α	7
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series	~241 /	۸	100
	≤24V 48V	A	160 150
	48 V 75 V	A A	150 100
	110V	A	100
	220V	A	92
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series	220 V		92
TEC max current le in DC3-DC3 with E/N = 13ms with 4 poles in series	≤24V	Α	160
	48V	A	120
	75V	A	120
	110V	A	125
	220V	A	115
Short-time allowable current for 10s (IEC/EN60947-1)	220 0	A	920
Protection fuse			
	gG (IEC)	Α	200
	aM (IEC)	Α	125
Making capacity (RMS value)	()	Α	1500
Breaking capacity at voltage			
3 24 22 3 22	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
	AC3	W	6.0
Tightening torque for terminals			
	min	Nm	6
	max	Nm	7
	min	Ibin	4.4
	max	lbin	5.2
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	Ibin	0.59
	max	Ibin	0.74
Conductor section			
AWG/Kcmil			
	max		2/0



ENERGY AND ACTOMATION				
	Flexible w/o lug conductor section			
	riexible w/o lug conductor section	min	mm²	1.5
		max	mm²	70
	Flexible c/w lug conductor section	Пих		70
	r lexible 6/w lug conductor section	min	mm²	1.5
		max	mm²	70
Power terminal protect	tion according to IEC/EN 60529	тих		IP20 front
Mechanical features	1011 4000141119 to 12 0/214 00020			II Zo IIOIK
Operating position				
operating position		normal		Vertical plan
		allowable		±30°
		allowable		Screw / DIN rail
Fixing				35mm
Weight			α	2020
Conductor section			g	2020
Solidacioi Section	AWG/kcmil conductor section			
	AVVG/KCITIII CONDUCTOR Section	max		2/0
Operations		Шах		2/0
Operations Mechanical life			ovolco	15000000
			cycles	
Electrical life			cycles	1200000
AC coil operating	0/0011-		V	40
Rated AC voltage at 50	U/0UHZ		V	48
AC operating voltage	of 50/0011- and a support of 5011-			
	of 50/60Hz coil powered at 50Hz			
	pick-up		0/11	0.0
		min	%Us	80
		max	%Us	110
	drop-out		0/11	
		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
		max	%Us	55
AC average coil consu	•			
	of 50/60Hz coil powered at 50Hz			
		in-rush	VA	300
		holding	VA	20
	of 50/60Hz coil powered at 60Hz			
		in-rush	VA	275
		holding	VA	17
	of 60Hz coil powered at 60Hz			
		in-rush	VA	300
		holding	VA	20
Max cycles frequency				
Mechanical operation			cycles/h	1500
Operating times				
Average time for Us co	ontrol			
	in AC			
	Closing NO			
	· ·	min	ms	16

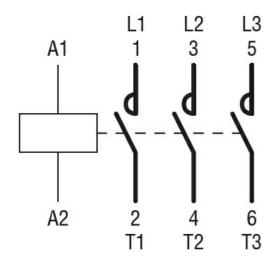
	On onin a NO	max	ms	32
	Opening NO	min	ms	9
		max	ms	24
UL technical data		max	1110	21
Yielded mechanical performand	ce			
•	e-phase AC motor			
101 11110	o pridocitio motor	200/208V	HP	40
		220/230V	HP	40
		460/480V	HP	75
		575/600V	HP	100
General USE				
Contac	tor			
		AC current	Α	165
Short-circuit protection fuse, 60	0V			
, High fa				
Ŭ.		Short circuit current	kA	100
		Fuse rating	Α	200
		Fuse class		J
Standa	rd fault			
		Short circuit current	kA	10
		Fuse rating	Α	250
		Fuse class		RK5
Ambient conditions				
Temperature				
Operati	ing temperature			
·		min	°C	-50
		max	°C	70
Storage	e temperature			
_		min	°C	-60
		max	°C	+80
Max altitude			m	3000

Dimensions



Wiring diagrams

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



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



Product designation Power contactor Product type designation BF115 Contact characteristics Nr. 3 Number of poles Rated insulation voltage Ui IEC/EN ٧ 1000 kV Rated impulse withstand voltage Uimp 8 Operational frequency

min	Hz	25
max	Hz	400
	Α	160
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
230V	kW	37
400V	kW	55
	Max AC-1 (≤40°C) AC-1 (≤55°C) AC-1 (≤70°C) AC-3 (≤440V ≤55°C) AC-4 (400V) 230V	max Hz A AC-1 (≤40°C) A AC-1 (≤55°C) A AC-1 (≤70°C) A AC-3 (≤440V ≤55°C) A AC-4 (400V) A 230V kW

415V

440V

kW

kW

55

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	
		_		

	≤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
2201/	۸	4.4

	Α	130	
220V	Α	14	
≤24V	Α	160	
48V	Α	160	
75V	Α	160	
110V	Α	140	
220V	Α	145	
	≤24V 48V 75V 110V	≤24V A 48V A 75V A 110V A	≤24V A 160 48V A 160 75V A 160 110V A 140

IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series		
≤20	4V A	160
48	8V A	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	-0.41.7		
	≤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		
120 max current le in 200-200 with E/N = 10m3 with 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			<u>. </u>
	≤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
rightening torque for terminals	min	Nim	G
	min	Nm Nm	6 7
	max min	Ibin	4.4
	max	Ibin	4.4 5.2
Tightening torque for coil terminal	IIIax	IUIII	J.2
rightering torque for contentinal	min	Nm	0.8
	max	Nm	1
	min	Ibin	0.59
	max	Ibin	0.74
Conductor section	Шах		
AWG/Kcmil			
	max		2/0
	THO A		<i>_,</i> ₹



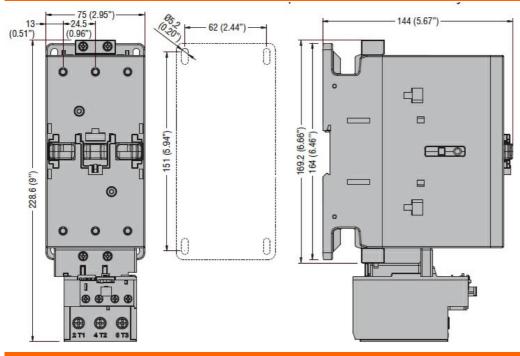


ENERGY AND ACTOMATION				
	Flexible w/o lug conductor section			
	. Totalio W/o Tag contactor section	min	mm²	1.5
		max	mm²	70
	Flexible c/w lug conductor section		-	
	The same of the sa	min	mm²	1.5
		max	mm²	70
Power terminal protect	tion according to IEC/EN 60529			IP20 front
Mechanical features	<u> </u>			
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail
				35mm
Weight			g	2020
Conductor section				
	AWG/kcmil conductor section			- /-
		max		2/0
Operations				4=00====
Mechanical life			cycles	15000000
Electrical life			cycles	1200000
AC coil operating	0/0011			110
Rated AC voltage at 5	U/6UHZ		V	110
AC operating voltage	of FO/COLLE poil resugged at FOLLE			
	of 50/60Hz coil powered at 50Hz			
	pick-up	ma!-a	0/116	90
		min	%Us %Us	80
	drap out	max	%Us	110
	drop-out	min	%Us	20
		max	%Us	55
	of 50/60Hz coil powered at 60Hz	IIIAX	/003	
	pick-up			
	pion up	min	%Us	85
		max	%Us	110
	drop-out			-
		min	%Us	40
		max	%Us	55
AC average coil consu	ımption at 20°C			
Ü	of 50/60Hz coil powered at 50Hz			
	·	in-rush	VA	300
		holding	VA	20
	of 50/60Hz coil powered at 60Hz			
		in-rush	VA	275
		holding	VA	17
	of 60Hz coil powered at 60Hz			
		in-rush	VA	300
		holding	VA	20
Max cycles frequency				
Mechanical operation			cycles/h	1500
Operating times				
Average time for Us co				
	in AC			
	Closing NO			
		min	ms	16

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

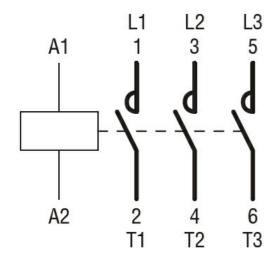
	On onin a NO	max	ms	32
	Opening NO	min	ms	9
		max	ms	24
UL technical data		max	1110	21
Yielded mechanical performand	ce			
•	e-phase AC motor			
101 11110	o pridocitio motor	200/208V	HP	40
		220/230V	HP	40
		460/480V	HP	75
		575/600V	HP	100
General USE				
Contac	tor			
		AC current	Α	165
Short-circuit protection fuse, 60	0V			
, High fa				
Ŭ.		Short circuit current	kA	100
		Fuse rating	Α	200
		Fuse class		J
Standa	rd fault			
		Short circuit current	kA	10
		Fuse rating	Α	250
		Fuse class		RK5
Ambient conditions				
Temperature				
Operati	ing temperature			
·		min	°C	-50
		max	°C	70
Storage	e temperature			
_		min	°C	-60
		max	°C	+80
Max altitude			m	3000

Dimensions



Wiring diagrams

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



Certifications and compliance

Compliance

CSA C22.2 n° 60947-1

CSA C22.2 n° 60947-4-1

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IEC/EN/BS 60947-4-1

UL 60947-1

UL 60947-4-1

Certificates

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ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching





Product designation Power contactor Product type designation BF115 Contact characteristics Nr. 3 Number of poles Rated insulation voltage Ui IEC/EN ٧ 1000 k۷ Rated impulse withstand voltage Uimp 8 Operational frequency Нъ 25 min max Hz 400 IEC Conventional free air thermal current Ith 160 Α 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) 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 160 ≤24V Α 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 160 Α 48V Α 160 75V Α 160 110V 140 220V Α 145 IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series ≤24V Α 160 48V 160 Α

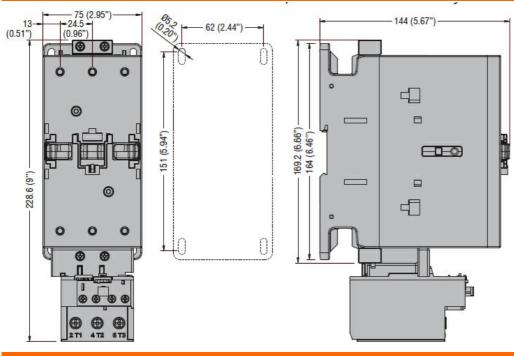
	75V	Α	160
	110V	Α	160
	220V	Α	160
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
	≤24V	Α	160
	48V	Α	50
	75V	Α	40
	110V	Α	6
	220V	Α	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
	≤24V	Α	160
	48V	Α	72
	75V	Α	65
	110V	Α	65
	220V	Α	7
IEC max current le 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	A	92
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series	2201	- / \	
120 max current to in 200-200 with 2/10 2 forms with 4 poles in series	≤24V	Α	160
	48V	A	120
	75V	A	120
	110V	A	125
	220V	A	115
Short time allowable current for 10s (IEC/ENS0047.1)	220 V		920
Short-time allowable current for 10s (IEC/EN60947-1) Protection fuse		A	920
Protection ruse	aC (IEC)	۸	200
	gG (IEC)	A	200
Making conscitu (DMC value)	aM (IEC)	A	125
Making capacity (RMS value)		Α	1500
Breaking capacity at voltage	4.400.4		4000
	440V	A	1200
	500V	Α	850
	690V	A	905
Resistance per pole (average value)		mΩ	0.45
Power dissipation per pole (average value)			
	Ith	W	11.5
	AC3	W	6.0
Tightening torque for terminals			
	min	Nm	6
	max	Nm	7
	min	Ibin	4.4
	max	Ibin	5.2
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	Ibin	0.59
	max	Ibin	0.74
Conductor section			
AWG/Kcmil			
, O/TO/III	max		2/0
	max		_, ~



ENERGY AND AUTOMATION				
	Flexible w/o lug conductor section			
	Flexible w/o lug corludcior section	min	mm²	1.5
		max	mm²	70
	Flexible c/w lug conductor section	THOM:		
	r ioxiale of it lag contacter coeffer.	min	mm²	1.5
		max	mm²	70
Power terminal protect	ction according to IEC/EN 60529			IP20 front
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail
				35mm
Weight			g	2020
Conductor section	AVAICATE AND TO A STATE OF THE			
	AWG/kcmil conductor section	may		2/0
Operations		max		2/0
Mechanical life			ovoloo	15000000
Electrical life			cycles cycles	1200000
AC coil operating			Cycles	1200000
Rated AC voltage at s	50/60Hz		V	230
AC operating voltage			•	200
re operating remage	of 50/60Hz coil powered at 50Hz			
	pick-up			
	F ap	min	%Us	80
		max	%Us	110
	drop-out			
		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
AO	ti	max	%Us	55
AC average coil cons				
	of 50/60Hz coil powered at 50Hz	in-rush	VA	300
		holding	VA	20
	of 50/60Hz coil powered at 60Hz	Holding	٧٨	20
	5. 50,001 12 0011 poworou at 001 12	in-rush	VA	275
		holding	VA	17
	of 60Hz coil powered at 60Hz			
		in-rush	VA	300
		holding	VA	20
Max cycles frequency	<i>,</i>			
Mechanical operation			cycles/h	1500
Operating times				
Average time for Us of	control			
	in AC			
	Closing NO			
		min	ms	16

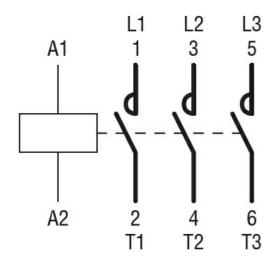
	On onin a NO	max	ms	32
	Opening NO	min	ms	9
		max	ms	24
UL technical data		max	1110	21
Yielded mechanical performand	ce			
•	e-phase AC motor			
101 11110	o pridocitio motor	200/208V	HP	40
		220/230V	HP	40
		460/480V	HP	75
		575/600V	HP	100
General USE				
Contac	tor			
		AC current	Α	165
Short-circuit protection fuse, 60	0V			
, High fa				
Ŭ.		Short circuit current	kA	100
		Fuse rating	Α	200
		Fuse class		J
Standa	rd fault			
		Short circuit current	kA	10
		Fuse rating	Α	250
		Fuse class		RK5
Ambient conditions				
Temperature				
Operati	ing temperature			
·		min	°C	-50
		max	°C	70
Storage	e temperature			
_		min	°C	-60
		max	°C	+80
Max altitude			m	3000

Dimensions



Wiring diagrams

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



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



Product designation Power contactor Product type designation BF115 Contact characteristics Nr. 3 Number of poles Rated insulation voltage Ui IEC/EN ٧ 1000 k۷ Rated impulse withstand voltage Uimp 8 Operational frequency Нъ 25 min Hz 400 max IEC Conventional free air thermal current Ith 160 Α 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) 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 160 ≤24V Α 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 160 Α 48V Α 160 75V Α 160 110V 140 220V Α 145 IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series

≤24V

48V

Α

Α

160

160



BF11500A400

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

	75V	Α	160
	110V	Α	160
	220V	A	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
150 DOO DOO 111 L/D 4.45 111 0 1 1 1	220V	Α	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series	-0.1V	•	400
	≤24V	A	160
	48V	A	72
	75V	A	65
	110V	A	65
IFC many assument to in DC2 DCE with L/D < 45 may with 2 males in agrics	220V	Α	7
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series	~241 /	۸	100
	≤24V 48V	A	160 150
	48 V 75 V	A A	150 100
	110V	A	100
	220V	A	92
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series	220 V		92
TEC max current le in DC3-DC3 with E/N = 13ms with 4 poles in series	≤24V	Α	160
	48V	A	120
	75V	A	120
	110V	A	125
	220V	A	115
Short-time allowable current for 10s (IEC/EN60947-1)	220 0	A	920
Protection fuse			
	gG (IEC)	Α	200
	aM (IEC)	Α	125
Making capacity (RMS value)	()	Α	1500
Breaking capacity at voltage			
3 24 22 3 22	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
	AC3	W	6.0
Tightening torque for terminals			
	min	Nm	6
	max	Nm	7
	min	Ibin	4.4
	max	lbin	5.2
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	Ibin	0.59
	max	Ibin	0.74
Conductor section			
AWG/Kcmil			
	max		2/0



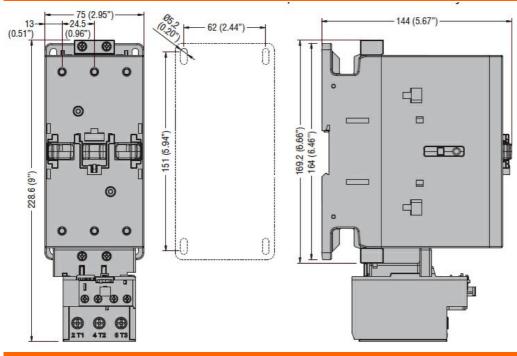


	Flexible w/o lug conductor section			
	e.m.e.e me rag eemaater eeemen	min	mm²	1.5
		max	mm²	70
	Flexible c/w lug conductor section			
	The same of the sa	min	mm²	1.5
		max	mm²	70
Power terminal protect	tion according to IEC/EN 60529			IP20 front
Mechanical features	J. Company			
Operating position				
31		normal		Vertical plan
		allowable		±30°
				Screw / DIN rail
Fixing				35mm
Veight			g	2020
Conductor section				
	AWG/kcmil conductor section			
	7.VV C/Romin conductor section	max		2/0
Operations		IIIdA		_, ~
Mechanical life			cycles	15000000
Electrical life			cycles	1200000
AC coil operating			Cycles	1200000
Rated AC voltage at 50	0/60Hz		V	400
AC operating voltage	0/00112		v	400
AC operating voitage	of E0/60Hz goil noward at E0Hz			
	of 50/60Hz coil powered at 50Hz			
	pick-up	min	%Us	0.0
		min	%Us %Us	80 110
	drop out	max	70US	110
	drop-out	min	%Us	20
		min	%Us	55
	of FO/COLLE poil novered at COLLE	max	7005	ეე
	of 50/60Hz coil powered at 60Hz			
	pick-up		0/116	0.5
		min	%Us	85
	I	max	%Us	110
	drop-out		0/11	4.0
		min	%Us	40
		max	%Us	55
AC average coil consu				
	of 50/60Hz coil powered at 50Hz			
		in-rush	VA	300
		holding	VA	20
	of 50/60Hz coil powered at 60Hz			
		in-rush	VA	275
		holding	VA	17
	of 60Hz coil powered at 60Hz			
		in-rush	VA	300
		holding	VA	20
Max cycles frequency				
Mechanical operation			cycles/h	1500
Operating times				
Average time for Us co	ontrol			
	in AC			
	Closing NO			
		min	ms	16



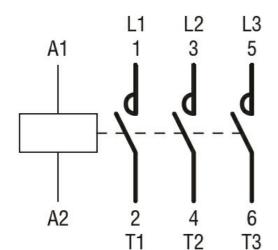
	Opening NO	max	ms	32
	ореніну по	min	ms	9
UL technical data		max	ms	24
	wfo.rmon.oo			
Yielded mechanical per				
	for three-phase AC motor	200/2001	LID	40
		200/208V	HP	40
		220/230V	HP	40
		460/480V	HP	75
		575/600V	HP	100
General USE				
	Contactor			
		AC current	Α	165
Short-circuit protection	fuse, 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				
le	Operating temperature			
	- Faramia temperatura	min	°C	-50
		max	°C	70
	Storage temperature	max		
	Storage temperature	min	°C	-60
		max	°C	+80
Max altitude		Шах		3000
Dimonsions			m	3000

Dimensions



Wiring diagrams

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



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





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
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



	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	Α	6
	220V	Α	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
	≤24V	Α	160
	48V	Α	72
	75V	Α	65
	110V	Α	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)	220V	A	920
Short-time allowable current for 10s (IEC/EN60947-1) Protection fuse	220V		920
Short-time allowable current for 10s (IEC/EN60947-1) Protection fuse		Α	920
· · · · · · · · · · · · · · · · · · ·	gG (IEC)	A	
Protection fuse		Α	920 200 125
Protection fuse Making capacity (RMS value)	gG (IEC)	A A A	920
Protection fuse	gG (IEC) aM (IEC)	A A A	920 200 125 1500
Protection fuse Making capacity (RMS value)	gG (IEC) aM (IEC) 440V	A A A	920 200 125 1500
Protection fuse Making capacity (RMS value)	gG (IEC) aM (IEC) 440V 500V	A A A A	920 200 125 1500 1200 850
Protection fuse Making capacity (RMS value) Breaking capacity at voltage	gG (IEC) aM (IEC) 440V	A A A A A	920 200 125 1500 1200 850 905
Protection fuse Making capacity (RMS value) Breaking capacity at voltage Resistance per pole (average value)	gG (IEC) aM (IEC) 440V 500V	A A A A	920 200 125 1500 1200 850
Protection fuse Making capacity (RMS value) Breaking capacity at voltage	gG (IEC) aM (IEC) 440V 500V 690V	A A A A A A mΩ	920 200 125 1500 1200 850 905 0.45
Protection fuse Making capacity (RMS value) Breaking capacity at voltage Resistance per pole (average value)	gG (IEC) aM (IEC) 440V 500V 690V	A A A A MΩ	920 200 125 1500 1200 850 905 0.45
Protection fuse Making capacity (RMS value) Breaking capacity at voltage Resistance per pole (average value) Power dissipation per pole (average value)	gG (IEC) aM (IEC) 440V 500V 690V	A A A A A A mΩ	920 200 125 1500 1200 850 905 0.45
Protection fuse Making capacity (RMS value) Breaking capacity at voltage Resistance per pole (average value)	gG (IEC) aM (IEC) 440V 500V 690V	A A A A A MΩ W	920 200 125 1500 1200 850 905 0.45 11.5 6.0
Protection fuse Making capacity (RMS value) Breaking capacity at voltage Resistance per pole (average value) Power dissipation per pole (average value)	gG (IEC) aM (IEC) 440V 500V 690V Ith AC3	A A A A A M Ω W W Nm	920 200 125 1500 1200 850 905 0.45 11.5 6.0
Protection fuse Making capacity (RMS value) Breaking capacity at voltage Resistance per pole (average value) Power dissipation per pole (average value)	gG (IEC) aM (IEC) 440V 500V 690V Ith AC3	A A A A A MΩ W W Nm Nm	920 200 125 1500 1200 850 905 0.45 11.5 6.0
Protection fuse Making capacity (RMS value) Breaking capacity at voltage Resistance per pole (average value) Power dissipation per pole (average value)	gG (IEC) aM (IEC) 440V 500V 690V Ith AC3 min max min	A A A A A MΩ W W Nm Nm Ibin	920 200 125 1500 1200 850 905 0.45 11.5 6.0
Making capacity (RMS value) Breaking capacity at voltage Resistance per pole (average value) Power dissipation per pole (average value) Tightening torque for terminals	gG (IEC) aM (IEC) 440V 500V 690V Ith AC3	A A A A A MΩ W W Nm Nm	920 200 125 1500 1200 850 905 0.45 11.5 6.0
Protection fuse Making capacity (RMS value) Breaking capacity at voltage Resistance per pole (average value) Power dissipation per pole (average value)	gG (IEC) aM (IEC) 440V 500V 690V Ith AC3 min max min max	A A A A A M W W Nm Nm Ibin Ibin	920 200 125 1500 1200 850 905 0.45 11.5 6.0 6 7 4.4 5.2
Making capacity (RMS value) Breaking capacity at voltage Resistance per pole (average value) Power dissipation per pole (average value) Tightening torque for terminals	gG (IEC) aM (IEC) 440V 500V 690V Ith AC3 min max min max min max	A A A A A MΩ W W Nm Nm Ibin Ibin	920 200 125 1500 1200 850 905 0.45 11.5 6.0 6 7 4.4 5.2
Making capacity (RMS value) Breaking capacity at voltage Resistance per pole (average value) Power dissipation per pole (average value) Tightening torque for terminals	gG (IEC) aM (IEC) 440V 500V 690V Ith AC3 min max min max min max	A A A A A A W W W Nm Nm Ibin Ibin Nm Nm	920 200 125 1500 1200 850 905 0.45 11.5 6.0 6 7 4.4 5.2
Making capacity (RMS value) Breaking capacity at voltage Resistance per pole (average value) Power dissipation per pole (average value) Tightening torque for terminals	gG (IEC) aM (IEC) 440V 500V 690V Ith AC3 min max min max min max	A A A A A A M W W W Nm Nm Ibin Ibin Nm Ibin	920 200 125 1500 1200 850 905 0.45 11.5 6.0 6 7 4.4 5.2 0.8 1 0.59
Making capacity (RMS value) Breaking capacity at voltage Resistance per pole (average value) Power dissipation per pole (average value) Tightening torque for terminals Tightening torque for coil terminal	gG (IEC) aM (IEC) 440V 500V 690V Ith AC3 min max min max min max	A A A A A A W W W Nm Nm Ibin Ibin Nm Nm	920 200 125 1500 1200 850 905 0.45 11.5 6.0 6 7 4.4 5.2
Protection fuse Making capacity (RMS value) Breaking capacity at voltage Resistance per pole (average value) Power dissipation per pole (average value) Tightening torque for terminals Tightening torque for coil terminal	gG (IEC) aM (IEC) 440V 500V 690V Ith AC3 min max min max min max	A A A A A A M W W W Nm Nm Ibin Ibin Nm Ibin	920 200 125 1500 1200 850 905 0.45 11.5 6.0 6 7 4.4 5.2 0.8 1 0.59
Making capacity (RMS value) Breaking capacity at voltage Resistance per pole (average value) Power dissipation per pole (average value) Tightening torque for terminals Tightening torque for coil terminal	gG (IEC) aM (IEC) 440V 500V 690V Ith AC3 min max min max min max	A A A A A A M W W W Nm Nm Ibin Ibin Nm Ibin	920 200 125 1500 1200 850 905 0.45 11.5 6.0 6 7 4.4 5.2 0.8 1 0.59



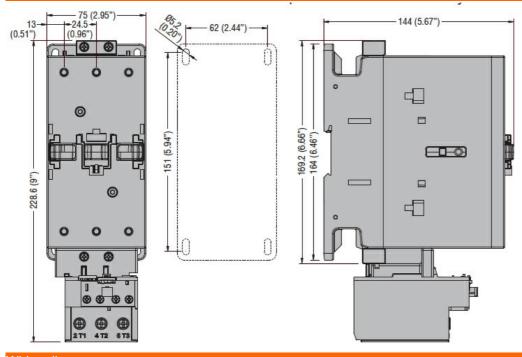


	Flexible w/o lug conductor section			
	riexible w/o lug coridación section	min	mm²	1.5
		max	mm²	70
	Flexible c/w lug conductor section	παλ	111111	10
	Flexible C/W lug colludctor section	min	mm²	1.5
		max	mm²	70
Power terminal protect	tion according to IEC/EN 60529	Παλ	111111	IP20 front
Mechanical features	tion according to IEC/EN 60329			IP20 HOHL
Operating position				\/artical plan
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail
\\\\ainht				35mm
Weight			g	2020
Conductor section				
	AWG/kcmil conductor section			0/0
0 "		max		2/0
Operations				4500000
Mechanical life			cycles	15000000
Electrical life			cycles	1200000
AC coil operating				
Rated AC voltage at 60	0Hz		V	24
AC operating voltage				
	of 50/60Hz coil powered at 50Hz			
	drop-out			
		max	%Us	55
	of 60Hz coil powered at 60Hz			
	pick-up			
		min	%Us	80
		max	%Us	110
	drop-out			
		min	%Us	20
		max	%Us	55
AC average coil consu	imption at 20°C			
-	of 60Hz coil powered at 60Hz			
	•	in-rush	VA	300
		holding	VA	20
Max cycles frequency				
Mechanical operation			cycles/h	1500
Operating times			, , , , , ,	
Average time for Us co	ontrol			
2.2.3 101 00 00	in AC			
	Closing NO			
	Closing IVC	min	ms	16
		max	ms	32
	Opening NO	Παλ	1113	<i>52</i>
	Opening NO	min	me	9
		min	ms ms	24
UL technical data		max	ms	4
	arformanco			
Yielded mechanical pe				
	for three-phase AC motor	000/0001	LID	40
		200/208V	HP	40
		220/230V	HP	40
		460/480V	HP	75



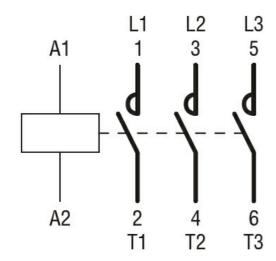
		575/600V	HP	100
General USE				
	Contactor			
		AC current	Α	165
Short-circuit protect	ion fuse, 600V			
•	High fault			
		Short circuit current	kA	100
		Fuse rating	Α	200
		Fuse class		J
	Standard fault			
		Short circuit current	kA	10
		Fuse rating	Α	250
		Fuse class		RK5
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	70
	Storage temperature			
		min	°C	-60
		max	°C	+80
Max altitude			m	3000
Dimonejone				

Dimensions



Wiring diagrams

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



Certificat			
Contituost	ione and	Lcomp	lianca
Cellical	טווס מווט		пансе

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





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 75
	500V 690V	kW kW	75 110
	1000V	kW	55
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series	1000 v	N V V	55
ILO max current le in DOT with L/IV 3 mis with 1 poles in series	≤24V	Α	160
	48V	A	160
	75V	A	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



	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	Α	6
	220V	Α	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
	≤24V	Α	160
	48V	Α	72
	75V	Α	65
	110V	Α	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	A	100
	220V	Α	92
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series	10.43.7	•	100
	≤24V	A	160
	48V	A	120
	75V	A	120
	110V	A	125
Short-time allowable current for 10s (IEC/EN60947-1)	220V	A A	920
Protection fuse		A	920
Florection ruse	gG (IEC)	Α	200
	aM (IEC)	A	125
Making capacity (RMS value)	aw (IEO)	A	1500
Breaking capacity at voltage		- , ,	
Disailing sapasity 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)			
The state of the s	Ith	W	11.5
	AC3	W	6.0
Tightening torque for terminals			
	min	Nm	6
	max	Nm	7
	min	Ibin	4.4
	max	lbin	5.2
Tightening torque for coil terminal			
-	min	Nm	0.8
	max	Nm	1
	min	Ibin	0.59
	max	lbin	0.74
Conductor section			
AWG/Kcmil			
	max		2/0



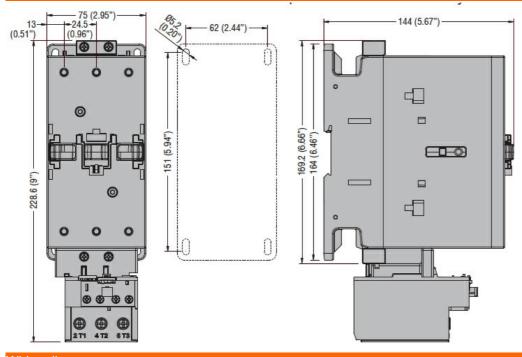


	Flexible w/o lug conductor section			
		min	mm²	1.5
		max	mm²	70
	Flexible c/w lug conductor section			
	•	min	mm²	1.5
		max	mm²	70
Power terminal protect	tion according to IEC/EN 60529			IP20 front
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail
				35mm
Weight			g	2020
Conductor section				
	AWG/kcmil conductor section			
		max		2/0
Operations				4=00====
Mechanical life			cycles	15000000
Electrical life			cycles	1200000
AC coil operating				10
Rated AC voltage at 6	UHZ		V	48
AC operating voltage	. (50/0011			
	of 50/60Hz coil powered at 50Hz			
	drop-out		0/11-	F.F.
	of COLIT and newared at COLIT	max	%Us	55
	of 60Hz coil powered at 60Hz			
	pick-up	min	%Us	80
		max	%Us	110
	drop-out	IIIax	/003	110
	drop out	min	%Us	20
		max	%Us	55
AC average coil consu	 umption at 20°C	ax		- -
	of 60Hz coil powered at 60Hz			
		in-rush	VA	300
		holding	VA	20
Max cycles frequency				
Mechanical operation			cycles/h	1500
Operating times				
Average time for Us co	ontrol			
	in AC			
	Closing 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			
		200/208V	HP	40
		220/230V	HP	40
		460/480V	HP	75



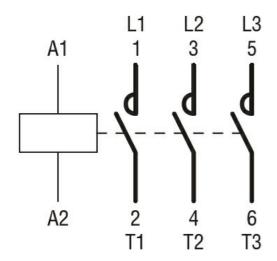
		575/600V	HP	100
General USE				
	Contactor			
		AC current	Α	165
Short-circuit protection	on fuse, 600V			
·	High fault			
	G	Short circuit current	kA	100
		Fuse rating	Α	200
		Fuse class		J
	Standard fault			
		Short circuit current	kA	10
		Fuse rating	Α	250
		Fuse class		RK5
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	70
	Storage temperature		•	
		min	°C	-60
		max	°C	+80
Max altitude			m	3000
Dimensions				

Dimensions



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





Product designation Power contactor Product type designation BF115

Product type designation			ргио
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	A	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
	≥24 V	, ,	100



	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	Α	6
	220V	Α	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
	≤24V	Α	160
	48V	Α	72
	75V	Α	65
	110V	Α	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)	220V	A	920
Short-time allowable current for 10s (IEC/EN60947-1) Protection fuse	220V		920
Short-time allowable current for 10s (IEC/EN60947-1) Protection fuse		Α	920
· · · · · · · · · · · · · · · · · · ·	gG (IEC)	A	
Protection fuse		Α	920 200 125
Protection fuse Making capacity (RMS value)	gG (IEC)	A A A	920
Protection fuse	gG (IEC) aM (IEC)	A A A	920 200 125 1500
Protection fuse Making capacity (RMS value)	gG (IEC) aM (IEC) 440V	A A A	920 200 125 1500
Protection fuse Making capacity (RMS value)	gG (IEC) aM (IEC) 440V 500V	A A A A	920 200 125 1500 1200 850
Protection fuse Making capacity (RMS value) Breaking capacity at voltage	gG (IEC) aM (IEC) 440V	A A A A A	920 200 125 1500 1200 850 905
Protection fuse Making capacity (RMS value) Breaking capacity at voltage Resistance per pole (average value)	gG (IEC) aM (IEC) 440V 500V	A A A A	920 200 125 1500 1200 850
Protection fuse Making capacity (RMS value) Breaking capacity at voltage	gG (IEC) aM (IEC) 440V 500V 690V	A A A A A A mΩ	920 200 125 1500 1200 850 905 0.45
Protection fuse Making capacity (RMS value) Breaking capacity at voltage Resistance per pole (average value)	gG (IEC) aM (IEC) 440V 500V 690V	A A A A MΩ	920 200 125 1500 1200 850 905 0.45
Protection fuse Making capacity (RMS value) Breaking capacity at voltage Resistance per pole (average value) Power dissipation per pole (average value)	gG (IEC) aM (IEC) 440V 500V 690V	A A A A A A mΩ	920 200 125 1500 1200 850 905 0.45
Protection fuse Making capacity (RMS value) Breaking capacity at voltage Resistance per pole (average value)	gG (IEC) aM (IEC) 440V 500V 690V	A A A A A MΩ W W	920 200 125 1500 1200 850 905 0.45 11.5 6.0
Protection fuse Making capacity (RMS value) Breaking capacity at voltage Resistance per pole (average value) Power dissipation per pole (average value)	gG (IEC) aM (IEC) 440V 500V 690V Ith AC3	A A A A A M Ω W W Nm	920 200 125 1500 1200 850 905 0.45 11.5 6.0
Protection fuse Making capacity (RMS value) Breaking capacity at voltage Resistance per pole (average value) Power dissipation per pole (average value)	gG (IEC) aM (IEC) 440V 500V 690V Ith AC3	A A A A A MΩ W W Nm Nm	920 200 125 1500 1200 850 905 0.45 11.5 6.0
Protection fuse Making capacity (RMS value) Breaking capacity at voltage Resistance per pole (average value) Power dissipation per pole (average value)	gG (IEC) aM (IEC) 440V 500V 690V Ith AC3 min max min	A A A A A M W W Nm Nm Ibin	920 200 125 1500 1200 850 905 0.45 11.5 6.0
Making capacity (RMS value) Breaking capacity at voltage Resistance per pole (average value) Power dissipation per pole (average value) Tightening torque for terminals	gG (IEC) aM (IEC) 440V 500V 690V Ith AC3	A A A A A MΩ W W Nm Nm	920 200 125 1500 1200 850 905 0.45 11.5 6.0
Protection fuse Making capacity (RMS value) Breaking capacity at voltage Resistance per pole (average value) Power dissipation per pole (average value)	gG (IEC) aM (IEC) 440V 500V 690V Ith AC3 min max min max	A A A A A M W W Nm Nm Ibin Ibin	920 200 125 1500 1200 850 905 0.45 11.5 6.0 6 7 4.4 5.2
Making capacity (RMS value) Breaking capacity at voltage Resistance per pole (average value) Power dissipation per pole (average value) Tightening torque for terminals	gG (IEC) aM (IEC) 440V 500V 690V Ith AC3 min max min max min max	A A A A A MΩ W W Nm Nm Ibin Ibin	920 200 125 1500 1200 850 905 0.45 11.5 6.0 6 7 4.4 5.2
Making capacity (RMS value) Breaking capacity at voltage Resistance per pole (average value) Power dissipation per pole (average value) Tightening torque for terminals	gG (IEC) aM (IEC) 440V 500V 690V Ith AC3 min max min max min max	A A A A A A W W W Nm Nm Ibin Ibin Nm Nm	920 200 125 1500 1200 850 905 0.45 11.5 6.0 6 7 4.4 5.2
Making capacity (RMS value) Breaking capacity at voltage Resistance per pole (average value) Power dissipation per pole (average value) Tightening torque for terminals	gG (IEC) aM (IEC) 440V 500V 690V Ith AC3 min max min max min max	A A A A A A M W W W Nm Nm Ibin Ibin Nm Ibin	920 200 125 1500 1200 850 905 0.45 11.5 6.0 6 7 4.4 5.2 0.8 1 0.59
Making capacity (RMS value) Breaking capacity at voltage Resistance per pole (average value) Power dissipation per pole (average value) Tightening torque for terminals Tightening torque for coil terminal	gG (IEC) aM (IEC) 440V 500V 690V Ith AC3 min max min max min max	A A A A A A W W W Nm Nm Ibin Ibin Nm Nm	920 200 125 1500 1200 850 905 0.45 11.5 6.0 6 7 4.4 5.2
Protection fuse Making capacity (RMS value) Breaking capacity at voltage Resistance per pole (average value) Power dissipation per pole (average value) Tightening torque for terminals Tightening torque for coil terminal	gG (IEC) aM (IEC) 440V 500V 690V Ith AC3 min max min max min max	A A A A A A M W W W Nm Nm Ibin Ibin Nm Ibin	920 200 125 1500 1200 850 905 0.45 11.5 6.0 6 7 4.4 5.2 0.8 1 0.59
Making capacity (RMS value) Breaking capacity at voltage Resistance per pole (average value) Power dissipation per pole (average value) Tightening torque for terminals Tightening torque for coil terminal	gG (IEC) aM (IEC) 440V 500V 690V Ith AC3 min max min max min max	A A A A A A M W W W Nm Nm Ibin Ibin Nm Ibin	920 200 125 1500 1200 850 905 0.45 11.5 6.0 6 7 4.4 5.2 0.8 1 0.59

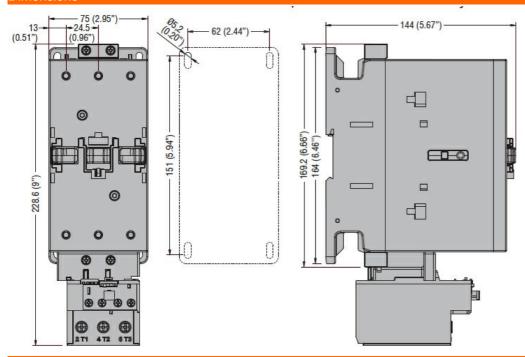


	Flexible w/o lug conductor	section			
	J		min	mm²	1.5
			max	mm²	70
	Flexible c/w lug conductor	section			
	-		min	mm²	1.5
			max	mm²	70
Power terminal protect	ion according to IEC/EN 605	529			IP20 front
Mechanical features					
Operating position					
			normal		Vertical plan
			allowable		±30°
Fixing					Screw / DIN rail
					35mm
Neight				g	2020
Conductor section					
	AWG/kcmil conductor sect	ion			
			max		2/0
Operations					
Mechanical life				cycles	15000000
Electrical life				cycles	1200000
AC coil operating					
Rated AC voltage at 60)Hz			V	120
AC operating voltage					
	of 60Hz coil powered at 60				
	pic	:k-up			
			min	%Us	80
			max	%Us	110
	arc	pp-out		0/116	20
			min	%Us %Us	20 55
AC average coil consu	motion at 20°C		max	/005	55
AC average con consc		⊔ -			
	of 60Hz coil powered at 60	П	in ruch	VA	200
			in-rush holding	VA VA	300 20
Max cycles frequency			riolaling	۷٨	20
Mechanical operation				cycles/h	1500
Operating times				CyclC3/11	1500
Average time for Us co	untrol				
wordgo umo for oo oo	in AC				
		osing NO			
	9.0	55g 115	min	ms	16
			max	ms	32
	On	ening NO		-	
	- 1	<u> </u>	min	ms	9
			max	ms	24
JL technical data					
Yielded mechanical pe	rformance				
•	for three-phase AC motor				
	•		200/208V	HP	40
			220/230V	HP	40
			460/480V	HP	75
			575/600V	HP	100
General USE					
	Contactor				

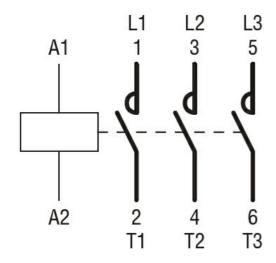


		AC current	Α	165
Short-circuit protec	tion fuse, 600V			
	High fault			
	-	Short circuit current	kA	100
		Fuse rating	Α	200
		Fuse class		J
	Standard fault			
		Short circuit current	kA	10
		Fuse rating	Α	250
		Fuse class		RK5
Ambient conditions	:			
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	70
	Storage temperature			
		min	°C	-60
		max	°C	+80
Max altitude			m	3000
Dimensions				

Dimensions



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



O	ations ar		
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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





Product designation Power contactor Product type designation BF115

Product type designation			ргио
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			
			400
	≤24V	Α	160



	75V	Α	160
	110V	Α	160
	220V	A	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
150 DOO DOO 111 L/D 4.45 111 0 1 1 1	220V	Α	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series	-0.1V	•	400
	≤24V	A	160
	48V	A	72
	75V	A	65
	110V	A	65
IFC many assument to in DC2 DCE with L/D < 45 may with 2 males in agrics	220V	Α	7
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series	~241 /	۸	100
	≤24V 48V	A	160 150
	48 V 75 V	A A	150 100
	110V	A	100
	220V	A	92
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series	220 V		92
TEC max current le in DC3-DC3 with E/N = 13ms with 4 poles in series	≤24V	Α	160
	48V	A	120
	75V	A	120
	110V	A	125
	220V	A	115
Short-time allowable current for 10s (IEC/EN60947-1)	220 0	A	920
Protection fuse			
	gG (IEC)	Α	200
	aM (IEC)	Α	125
Making capacity (RMS value)	()	Α	1500
Breaking capacity at voltage			
3 24 22 3 22	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
	AC3	W	6.0
Tightening torque for terminals			
	min	Nm	6
	max	Nm	7
	min	Ibin	4.4
	max	lbin	5.2
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	Ibin	0.59
	max	Ibin	0.74
Conductor section			
AWG/Kcmil			
	max		2/0

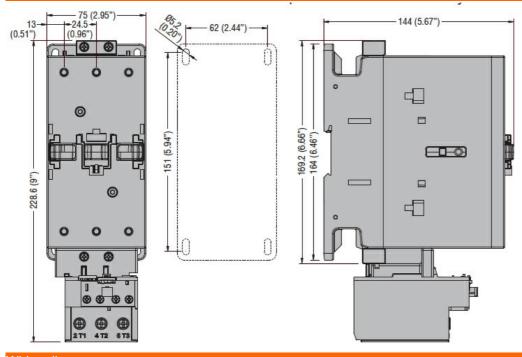




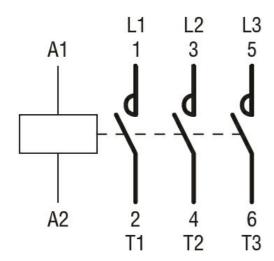
	Flexible w/o lug conductor section			
		min	mm²	1.5
		max	mm²	70
	Flexible c/w lug conductor section			
	ŭ	min	mm²	1.5
		max	mm²	70
Power terminal protec	tion according to IEC/EN 60529			IP20 front
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail 35mm
Weight				2020
Conductor section			g	2020
Conductor Section	AWG/kcmil conductor section			
	AWO/ROTHII CONDUCTOR SECTION	max		2/0
Operations		IIIdX		_, <u></u>
Mechanical life			cycles	15000000
Electrical life			cycles	1200000
AC coil operating			2,3.00	
Rated AC voltage at 6	0Hz		V	220
AC operating voltage	-			
, ,	of 50/60Hz coil powered at 50Hz			
	drop-out			
	·	max	%Us	55
	of 60Hz coil powered at 60Hz			
	pick-up			
		min	%Us	80
		max	%Us	110
	drop-out			
		min	%Us	20
		max	%Us	55
AC average coil consu				
	of 60Hz coil powered at 60Hz			
		in-rush	VA	300
		holding	VA	20
Max cycles frequency				1500
Mechanical operation			cycles/h	1500
Operating times				
Average time for Us co				
	in AC			
	Closing NO	min	me	16
		min	ms ms	32
	Opening NO	max	ms	5 2
	Opening NO	min	ms	9
		max	ms	24
UL technical data		IIIdX	1113	<u>_</u>
Yielded mechanical pe	erformance			
	for three-phase AC motor			
	p	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	on fuse, 600V			
	High fault			
		Short circuit current	kA	100
		Fuse rating	Α	200
	<u> </u>	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				



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



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
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



	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	Α	6
	220V	Α	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
	≤24V	Α	160
	48V	Α	72
	75V	Α	65
	110V	Α	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	40.43.4		400
	≤24V	A	160
	48V	A	120
	75V	A	120
	110V	A	125
Short-time allowable current for 10s (IEC/EN60947-1)	220V	A A	920
Protection fuse		A	920
Florection ruse	gG (IEC)	Α	200
	aM (IEC)	A	125
Making capacity (RMS value)	am (IEO)	A	1500
Breaking capacity at voltage		- , ,	1000
Disailing sapasity 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)			
The state of the s	Ith	W	11.5
	AC3	W	6.0
Tightening torque for terminals			
	min	Nm	6
	max	Nm	7
	min	Ibin	4.4
	max	Ibin	5.2
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	Ibin	0.59
	max	Ibin	0.74
Conductor section			
AWG/Kcmil			
	max		2/0



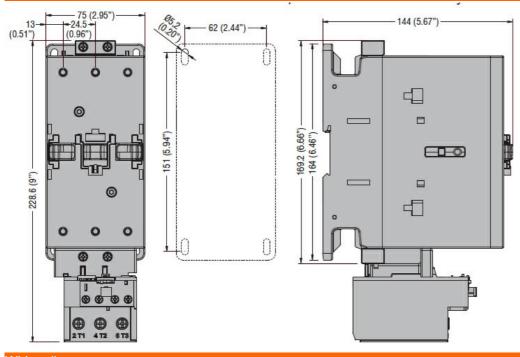


	Flexible w/o lug conductor section			
		min	mm²	1.5
		max	mm²	70
	Flexible c/w lug conductor section	-		
	ŭ	min	mm²	1.5
		max	mm²	70
Power terminal protect	tion according to IEC/EN 60529			IP20 front
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail
				35mm
Weight			g	2020
Conductor section				
	AWG/kcmil conductor section			- 4-
		max		2/0
Operations				45000000
Mechanical life			cycles	15000000
Electrical life			cycles	1200000
AC coil operating			\ /	000
Rated AC voltage at 6	UHZ		V	230
AC operating voltage	-f-50/0011!			
	of 50/60Hz coil powered at 50Hz			
	drop-out		0/11-	F.F.
	of COLIE and managed at COLIE	max	%Us	55
	of 60Hz coil powered at 60Hz			
	pick-up	min	%Us	80
		max	%Us	110
	drop-out	Παλ	/003	110
	αιορ-οαι	min	%Us	20
		max	%Us	55
AC average coil consu	 umption at 20°C	max	,,,,,	
	of 60Hz coil powered at 60Hz			
	2. 23. <u>2</u> 20 po000 at 001 12	in-rush	VA	300
		holding	VA	20
Max cycles frequency				
Mechanical operation			cycles/h	1500
Operating times				
Average time for Us co	ontrol			
-	in AC			
	Closing NO			
	Ç	min	ms	16
		max	ms	32
	Opening NO			
		min	ms	9
		max	ms	24
UL technical data				
Yielded mechanical pe	erformance			
	for three-phase AC motor			
		200/208V	HP	40
		220/230V	HP	40
		460/480V	HP	75

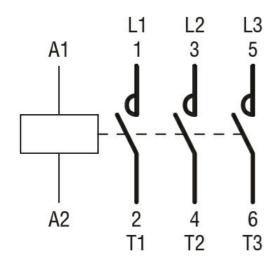


		575/600V	HP	100
General USE				
	Contactor			
		AC current	Α	165
Short-circuit protection	on fuse, 600V			
•	High fault			
	-	Short circuit current	kA	100
		Fuse rating	Α	200
		Fuse class		J
	Standard fault			
		Short circuit current	kA	10
		Fuse rating	Α	250
		Fuse class		RK5
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	70
	Storage temperature			
		min	°C	-60
		max	°C	+80
Max altitude			m	3000
Dimensions				

Dimensions



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



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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





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
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





	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	-0.41.7		
	≤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		
120 max current le in 200-200 with E/N = 10m3 with 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			<u>. </u>
	≤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	A	850
Desistance manuals (successive)	690V	A	905
Resistance per pole (average value)		mΩ	0.45
Power dissipation per pole (average value)	lab.	147	44.5
	Ith AC3	W W	11.5 6.0
Tightening torque for terminals	ACS	VV	6.0
rigitering torque for terminals	min	Nm	6
	max	Nm	7
	min	Ibin	4.4
	max	Ibin	5.2
Tightening torque for coil terminal	Παλ	10111	U.L
ngmening torque for contentinual	min	Nm	0.8
	max	Nm	1
	min	lbin	0.59
	max	lbin	0.74
Conductor section			
AWG/Kcmil			
	max		2/0
			: =

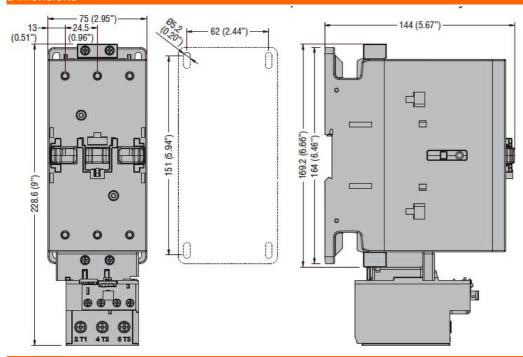


	Flexible w/o lug conductor section			
	Č	min	mm²	1.5
		max	mm²	70
	Flexible c/w lug conductor section			
	-	min	mm²	1.5
		max	mm²	70
Power terminal protec	ion according to IEC/EN 60529			IP20 front
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail
				35mm
Weight			g	2020
Conductor section				
	AWG/kcmil conductor section			
		max		2/0
Operations				4=00====
Mechanical life			cycles	15000000
Electrical life			cycles	1200000
AC coil operating				100
Rated AC voltage at 6	JHZ		V	460
AC operating voltage				
	of 60Hz coil powered at 60Hz			
	pick-up		0/116	0.0
		min	%Us %Us	80
	drap out	max	%US	110
	drop-out	min	%Us	20
		max	%Us	55
AC average coil consu	motion at 20°C	mux	7000	
No average con consc	of 60Hz coil powered at 60Hz			
	01 001 12 0011 powered at 001 12	in-rush	VA	300
		holding	VA	20
Max cycles frequency			.,,	
Mechanical operation			cycles/h	1500
Operating times				
Average time for Us co	ontrol			
J	in AC			
	Closing 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			
		200/208V	HP	40
		220/230V	HP	40
		460/480V	HP	75
		575/600V	HP	100
General USE				
	Contactor			

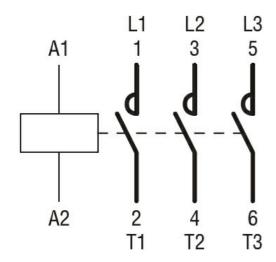


		AC current	Α	165
Short-circuit protec	tion fuse, 600V			
	High fault			
	-	Short circuit current	kA	100
		Fuse rating	Α	200
		Fuse class		J
	Standard fault			
		Short circuit current	kA	10
		Fuse rating	Α	250
		Fuse class		RK5
Ambient conditions	;			
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	70
	Storage temperature			
		min	°C	-60
		max	°C	+80
Max altitude			m	3000
Dimensions				

Dimensions



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



Product designation Power contactor Product type designation BF115

Product type designation			ргио
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
	≥24 V	$\overline{}$	100



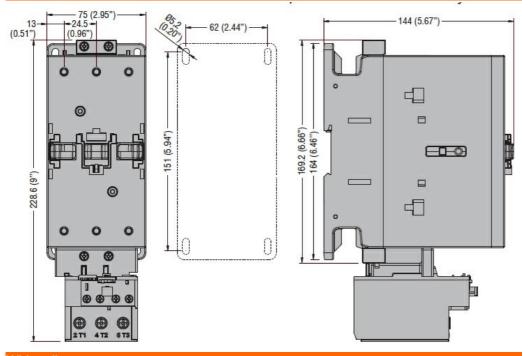
	75V	Α	160
	110V	Α	160
	220V	Α	160
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
	≤24V	Α	160
	48V	Α	50
	75V	Α	40
	110V	Α	6
	220V	Α	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
	≤24V	Α	160
	48V	Α	72
	75V	Α	65
	110V	Α	65
	220V	Α	7
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series			
	≤24V	Α	160
	48V	Α	150
	75V	Α	100
	110V	A	100
	220V	Α	92
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series	10.43.7	•	100
	≤24V	A	160
	48V	A	120
	75V	A	120
	110V	A	125
Short-time allowable current for 10s (IEC/EN60947-1)	220V	A A	920
Protection fuse		A	920
Florection ruse	gG (IEC)	Α	200
	aM (IEC)	A	125
Making capacity (RMS value)	aw (IEO)	A	1500
Breaking capacity at voltage		- , ,	
Disailing sapasity 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)			
The state of the s	Ith	W	11.5
	AC3	W	6.0
Tightening torque for terminals			
	min	Nm	6
	max	Nm	7
	min	Ibin	4.4
	max	lbin	5.2
Tightening torque for coil terminal			
-	min	Nm	0.8
	max	Nm	1
	min	Ibin	0.59
	max	lbin	0.74
Conductor section			
AWG/Kcmil			
	max		2/0



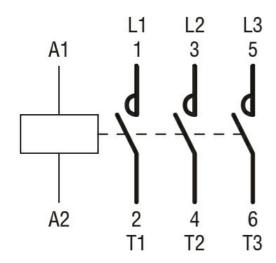
Flexible wio lug conductor section					
Flexible c/w lug conductor section min mi		Flexible w/o lug conductor section			
Flexible c/w lug conductor section		•	min	mm²	1.5
Flexible c/w lug conductor section					
Max		Flexible c/w lug conductor section			
Mean			min	mm²	1.5
Power terminal protection according to IEC/EN 60529 Mechanical features					
Mechanical features Operating position normal allowable Vertical plan ±30° Fixing Screw / DIN rail 35mm Weight g 2020 Conductor section max ½0 Mechanical life cycles 15000000 Electrical life cycles 15000000 AC coil operating v 575 AC operating voltage max %Us \$70 Us min of 60Hz coil powered at 50Hz drop-out min %Us \$70 Us min of 60Hz coil powered at 60Hz pick-up min %Us \$10 Us min drop-out min %Us \$20 AC average coil consumption at 20°C of 60Hz coil powered at 60Hz min %Us \$20 AC average coil consumption at 20°C of 60Hz coil powered at 60Hz in-rush holding va \$20 \$20 Dissipation at holding \$\frac{20^{\text{C}}}{20}\$ 50Hz min %Us \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 <	Power terminal protect	ion according to IEC/EN 60529			
Normal	-				
Priving Pri					
Fixing Screw / Din rail Din rail Screw / Din rail Din ra	operating position		normal		Vertical plan
Fixing					
Fixing			anowabic		
Weight g 2020 Conductor section AWG/kcmil conductor section max 2/0 Operations Mechanical life cycles 15000000 Electrical life cycles 1500000 AC col operating w y 575 AC operating voltage of 50/60Hz coil powered at 50Hz drop-out min w x x 570 Us min AC average coil consumption at 20°C of 60Hz coil powered at 60Hz min w x 10 AC average coil consumption at 20°C of 60Hz coil powered at 60Hz in-rush wls VA 300 McCaverage coil consumption at bolding ≤20°C 50Hz w 1.31,5 Max cycles frequency w 1.31,5 Max cycles frequency cycles/h 1500 Opening NO min ms	Fixing				
AWG/kcmil conductor section AWG/kcmil conductor section max 2/0 Operations Mechanical life cycles 15000000 Bellectrical life cycles 1200000 AC coil operating V 575 AC operating voltage of 50/60Hz coil powered at 50Hz drop-out max %Us \$70 Us min of 60Hz coil powered at 60Hz pick-up min %Us 80 min %Us 80 min %Us 80 min %Us 100 min %Us 80 min %Us 100 min %Us 100 min %Us 100 min %Us 20 min %Us 100 min %Us 100 min %Us 100 min min %Us 10	Weight			a	
AWG/kcmil conductor section max 2/0				9	2020
Max 2/0 Operations Mechanical life cycles 15000000 Electrical life cycles 1200000 AC coliperating V 575 AC operating voltage of 50/60Hz coil powered at 50Hz drop-out max %Us \$70 Us min of 60Hz coil powered at 60Hz pick-up min %Us \$70 Us min drop-out min %Us \$80 max %Us \$110 drop-out min %Us \$0 drop-out min %Us \$10 drop-out min %Us \$0 drop-out min %Us \$0 drop-out min %Us \$0 AC average coil consumption at 20°C in min %Us \$0 AC average coil consumption at 20°C in w 131,5 Max cycles frequency w 131,5 Mechanical operation cycles/t 1500 Operating times min	Conductor Section	AWG/kamil conductor saction			
Operations Cycles 15000000 Mechanical life cycles 15000000 AC coil operating Cycles 15000000 AC coil operating V 575 AC operating voltage of 50/60Hz coil powered at 50Hz drop-out max %Us \$70 Us min of 60Hz coil powered at 60Hz pick-up min %Us \$80 max %Us 110 drop-out min %Us \$20 max %Us 55 AC average coil consumption at 20°C of 60Hz coil powered at 60Hz in-rush was 300 %Us 55 AC average coil consumption at 20°C of 60Hz coil powered at 60Hz w 131,5 31,5 AX cycles frequency w 131,5 31,5		AVVO/KOTTIII COTTUUCIOT SECTION	may		2/0
Mechanical life	Operations		Пах		∠I U
Electrical life	•			cycles	15000000
AC coil operating Rated AC voltage at 60Hz V 575 AC operating voltage of 50/60Hz coil powered at 50Hz drop-out max %Us ≤70 Us min of 60Hz coil powered at 60Hz pick-up min %Us 80 max %Us 110 drop-out min %Us 20 max %Us 55 AC average coil consumption at 20°C of 60Hz coil powered at 60Hz in-rush VA 300 holding VA 20 Dissipation at holding ≤20°C 50Hz W 1.31,5 Max cycles frequency W 1.31,5 Mechanical operation cycles/h 1500 Operating times Average time for Us control in AC Closing NO min ms 32 Average time for Us control in AC min ms 9 ms 32 UL technical data Time the control of max ms 24 UL technical data Yielded mechanical performance for three-phase AC motor HP 40				-	
Rated AC voltage at 60Hz V 575 AC operating voltage of 50/60Hz coil powered at 50Hz drop-out max %Us ≤70 Us min of 60Hz coil powered at 60Hz pick-up min %Us 80 max %Us 110 drop-out min %Us 20 max %Us 55 AC average coil consumption at 20°C min-rush VA 300 foldHz coil powered at 60Hz in-rush VA 300 holding VA 20 Dissipation at holding ≤20°C 50Hz W 1.31,5 Max cycles frequency W 1.500 Mechanical operation cycles/h 1500 Operating times Closing NO wind min ms 16 Average time for Us control min ms 32 16 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 <				cycles	1200000
AC operating voltage of 50/60Hz coil powered at 50Hz drop-out max		N. I.—		\/	F.7.F
of 50/60Hz coil powered at 50Hz drop-out max %Us ≤70 Us min of 60Hz coil powered at 60Hz pick-up min %Us 80 max %Us 110 1		JHZ		V	5/5
drop-out max vus s70 Us min of 60Hz coil powered at 60Hz pick-up min vus s80 max vus s51 s60 max vus vus s60 max vus	AC operating voltage	(50/00LL "Lea Lea - 50LL			
Max Mus S70 Us min					
of 60Hz coil powered at 60Hz pick-up min MUs 80 max MUs 110 drop-out min MUs 20 max MUs 55 AC average coil consumption at 20°C of 60Hz coil powered at 60Hz of 60Hz coil powered at 60H		drop-out		0/11	-70.11
Pick-up Min %Us 80 max %Us 110 Min Mus 20 Min Mus 55 Min Min Mus 55 Min Min Mus 55 Min Min Min Mus 55 Min		10011	max	%US	≤/U US MIN
Min WUs 80 Max WUs 110 Min Min WUs 20 Min Min WUs 55 Min Min WUs 55 Min Min WUs 55 Min Mi					
Max Mus 110 Min Mus 20 Min Mus 55 Max Mus 55 Max Mus		pick-up			
drop-out min %Us 20 max %Us 55 AC average coil consumption at 20°C of 60Hz coil powered at 60Hz in-rush kolding ≤0°C 50Hz in-rush kolding √A 20 Dissipation at holding ≤20°C 50Hz w 1.31,5 Max cycles frequency Mechanical operation cycles/h 1500 Operating times Average time for Us control in AC Closing NO min ms 16 max ms 32 Opening NO min ms 9 max ms 32 UL technical data Yielded mechanical performance for three-phase AC motor					
Minimax %Us best best best best best best best bes			max	%Us	110
AC average coil consumption at 20°C of 60Hz coil powered at 60Hz in-rush vA 300 holding vA 20 Dissipation at holding ≤20°C 50Hz W 1.31,5 Max cycles frequency Mechanical operation cycles/h 1500 Operating times Average time for Us control in AC Closing NO Min ms 16 max ms 32 Opening NO min ms 32 UL technical data Yielded mechanical performance for three-phase AC motor		drop-out			
AC average coil consumption at 20°C of 60Hz coil powered at 60Hz in-rush VA 300 holding VA 20 Dissipation at holding ≤20°C 50Hz W 1.31,5 Max cycles frequency Mechanical operation Cycles/h 1500 Operating times Average time for Us control in AC Closing NO min ms 16 max ms 32 Opening NO min ms 9 max ms 24 UL technical data Yielded mechanical performance for three-phase AC motor					
of 60Hz coil powered at 60Hz in-rush VA 300 holding VA 20 Dissipation at holding ≤20°C 50Hz W 1.31,5 Max cycles frequency Mechanical operation cycles/h 1500 Operating times Average time for Us control in AC Closing NO min ms 16 max ms 32 Opening NO min ms 9 max ms 24 UL technical data Yielded mechanical performance for three-phase AC motor 200/208V HP 40 40			max	%Us	55
in-rush holding	AC average coil consu				
holdingVA20Dissipation at holding ≤20°C 50HzW1.31,5Max cycles frequencyMechanical operationcycles/h1500Operating timesAverage time for Us controlin ACminms16maxms32Opening NOminms9maxms24UL technical dataYielded mechanical performance for three-phase AC motor		ot 60Hz coil powered at 60Hz	_		
Dissipation at holding ≤20°C 50Hz W 1.31,5 Max cycles frequency Mechanical operation cycles/h 1500 Operating times Average time for Us control in AC Closing NO min ms 16 max ms 32 Opening NO min ms 9 max ms 24 UL technical data Yielded mechanical performance for three-phase AC motor					
Max cycles frequency Mechanical operation cycles/h 1500 Operating times Average time for Us control			holding		
Mechanical operation cycles/h 1500 Operating times Average time for Us control In AC		\$20°C 50Hz		W	1.31,5
Operating times Average time for Us control in AC Closing NO min ms 16 max ms 32 Opening NO min ms 9 max ms 24 UL technical data Yielded mechanical performance for three-phase AC motor 200/208V HP 40					
Average time for Us control				cycles/h	1500
in AC Closing NO min ms 16 max ms 32 Opening NO min ms 9 max ms 24 UL technical data Yielded mechanical performance for three-phase AC motor 200/208V HP 40	-				
Closing NO min ms 16 max ms 32 Opening NO min ms 9 max ms 24 UL technical data Yielded mechanical performance for three-phase AC motor 200/208V HP 40	Average time for Us co				
min ms 16 max ms 32					
Opening NO max ms 32 Min ms 9 max ms 24 UL technical data Yielded mechanical performance for three-phase AC motor 200/208V HP 40		Closing NO			
Opening NO min ms 9 max ms 24 UL technical data Yielded mechanical performance for three-phase AC motor 200/208V HP 40			min	ms	16
min ms 9 max ms 24 UL technical data Yielded mechanical performance for three-phase AC motor 200/208V HP 40			max	ms	32
UL technical data Yielded mechanical performance for three-phase AC motor 200/208V HP 40		Opening NO			
Vielded mechanical performance for three-phase AC motor 200/208V HP 40			min	ms	9
Yielded mechanical performance for three-phase AC motor 200/208V HP 40			max	ms	24
for three-phase AC motor 200/208V HP 40	UL technical data				
200/208V HP 40	Yielded mechanical pe	rformance			
200/208V HP 40	·				
220/230V HP 40			200/208V	HP	40
220/230 V TIF 40			220/230V	HP	40

		400/400/		
		460/480V	HP	75
		575/600V	HP	100
General USE				
	Contactor			
		AC current	Α	165
Short-circuit protection	on 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



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



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Cellical	טווס מווט		пансе

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