

FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 160A, AC/DC COIL,



Number of poles	Product designation Product type designation			Power contactor B115
Rated insulation voltage Ui IEC/EN V 1000 Rated impulse withstand voltage Uimp kV 8 Operational frequency min Hz 25 IEC Conventional free air thermal current Ith A 160 Operational current Ie AC-1 (≤40°C) A 160 AC-1 (≤55°C) A 150 AC-1 (≤70°C) A 110 AC-3 (≤440V ≤55°C) A 110 AC-4 (400V) A 47 Rated operational power AC-1 (T≤40°C) 230V kW 55°C A A 110 A 57 Adov kW 98 500V kW 129 690V kW 129 690V kW 173 B 690V kW 173 B IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series 75V A 160 A 160 110V A 130 A - IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series 75V A 160 A 160 110V A 130 A - 160 110V A 130 A - 160 110V A 130 A - 160 110V A 130 A 160	5			
Rated insulation voltage Ui IEC/EN V 1000 Rated impulse withstand voltage Uimp kV 8 Operational frequency min Hz 25 IEC Conventional free air thermal current Ith A 160 Operational current Ie AC-1 (≤40°C) A 160 AC-1 (≤55°C) A 150 AC-1 (≤70°C) A 110 AC-3 (≤440V ≤55°C) A 110 AC-4 (400V) A 47 Rated operational power AC-1 (T≤40°C) 230V kW 55°C A A 110 A 57 Adov kW 98 500V kW 129 690V kW 129 690V kW 173 B 690V kW 173 B IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series 75V A 160 A 160 110V A 130 A - IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series 75V A 160 A 160 110V A 130 A - 160 110V A 130 A - 160 110V A 130 A - 160 110V A 130 A 160	Number of poles		Nr.	4
Rated impulse withstand voltage Ulimp			V	1000
Operational frequency min max bd Hz bd 25 max Hz bd 400 IEC Conventional free air thermal current lth A 160 Operational current le AC-1 (\$40°C)			kV	8
EC Conventional free air thermal current lth	· · · · · · · · · · · · · · · · · · ·			
EC Conventional free air thermal current lth	, ,	min	Hz	25
EC Conventional free air thermal current Ith				
Operational current le AC-1 (≤40°C) A 160 AC-1 (≤55°C) A 150 AC-1 (≤70°C) A 110 AC-3 (≤440V ≤55°C) A 110 AC-4 (400V) A 47 Rated operational power AC-1 (T≤40°C) 230V kW 57 400V kW 98 500V kW 129 690V kW 173 690V kW 173 IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series 75V A 160 110V A 130 220V A - 400 330V A - 460V A - IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series 75V A 160 110V A 130 330V A - 460V A - IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series 75V A 160 110V A 130 330V A 100 460V A -	IEC Conventional free air thermal current Ith		Α	
AC-1 (≤40°C)	Operational current le			
AC-1 (S55°C) A 150 AC-1 (S70°C) A 110 AC-3 (≤440V ≤55°C) A 110 AC-3 (≤440V ≤55°C) A 110 AC-4 (400V) A 47 AC-4 (400V) A	'	AC-1 (≤40°C)	Α	160
AC-1 (≤70°C) A 110 AC-3 (≤440V ≤55°C) A 110 AC-3 (≤440V ≤55°C) A 110 AC-4 (400V) A 47 Rated operational power AC-1 (T≤40°C) 230V kW 57 400V kW 98 500V kW 129 690V kW 173 IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series 75V A 160 110V A 100 220V A - 330V A - 460V A - IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series 75V A 160 110V A 130 220V A 100 330V A - 460V A - IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series 75V A 160 110V A 130 220V A 100 330V A - 460V A - IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series 75V A 160 110V A 130 220V A 100 330V A - 460V A - IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series 75V A 160 110V A 130 330V A 100 460V A - IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series		` ,		
AC-3 (≤440V ≤55°C) A 110 AC-4 (400V) A 47 Rated operational power AC-1 (T≤40°C) 230V kW 57 400V kW 98 500V kW 129 690V kW 173 IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series 75V A 160 110V A 100 220V A - 330V A - 460V A - IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series 75V A 160 110V A 130 220V A 100 330V A - 460V A - IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series 75V A 160 110V A 130 220V A 100 330V A - 460V A - IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series 75V A 160 110V A 130 220V A 130 330V A - IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series 75V A 160 110V A 130 330V A 100 460V A - IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series 75V A 160 110V A 130 220V A 130 330V A 130 220V A 130 330V A 130 220V A 130 330V 34V 34V 34V 34V 34V 34V		` ,		
AC-4 (400V)				
Rated operational power AC-1 (T≤40°C) 230V kW 57 400V kW 98 500V kW 129 690V kW 173 IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series 75V A 160 110V A 100 220V A - 330V A - 460V A - IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series 75V A 160 110V A 130 220V A 100 330V A - 460V A - IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series 75V A 160 110V A 130 220V A 100 330V A - 460V A - IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series 75V A 160 110V A 130 220V A 130 330V A - 460V A - IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series 75V A 160 110V A 130 220V A 130 330V A 100 460V A - IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series		,		
	Rated operational power AC-1 (T≤40°C)	()		
A00V kW 98 500V kW 129 690V kW 173	,	230V	kW	57
SOUV KW 129 690V kW 173				
EC max current le in DC1 with L/R ≤ 1ms with 1 poles in series 75V				
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series 75				
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series			
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		75V	Α	160
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$				
BEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series 75V				
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series 75V A 160 110V A 130 220V A 100 330V A - 460V A - IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series 75V A 160 110V A 130 220V A 130 330V A - IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series 75V A 160 110V A 130 330V A 100 460V A - IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series 75V A 160 110V A 130 330V A 130 220V A 130 330V A 130 330V A 130				
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	IFC max current le in DC1 with L/R ≤ 1ms with 2 poles in series	1001		
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	The max can only to in 201 man 27x = time man 2 poice in conce	75V	Α	160
BEC max current le in DC1 with L/R \leq 1ms with 3 poles in series 75V A 160 110V A 130 220V A 130 330V A 100 460V A -				
EC max current le in DC1 with L/R ≤ 1ms with 3 poles in series 75V A 160 110V A 130 220V A 130 330V A 100 460V A -				
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series				_
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series			
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	The max danion to in Bot with Ent = this with a police in defice	75\/	Α	160
A60V A −				
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series 75V A 160 110V A 130 220V A 130 330V A 130				
75V A 160 110V A 130 220V A 130 330V A 130	IFC max current le in DC1 with L/R < 1ms with 4 notes in series	700 V		
110V A 130 220V A 130 330V A 130	120 Max Sanoncio in 201 Mai Ert = Tino With a poloo in Solios	75\/	Δ	160
220V A 130 330V A 130				
330V A 130				
700V A 100				
		400 V	Λ	100

FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 160A, AC/DC COIL,

IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
	75V	Α	140
	110V	Α	70
	220V	Α	_
	330V	A	_
	460V	Α	_
IFC may current to in DC2 DC5 with L/D < 15mg with 2 notes in series	400 V		
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
	75V	Α	140
	110V	Α	100
	220V	Α	80
	330V	Α	_
	460V	Α	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series			
·	75V	Α	140
	110V	A	120
	220V	Α	100
	330V	A	80
	460V	Α	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series			
	75V	Α	140
	110V	Α	120
	220V	Α	120
	330V	Α	120
	460V	Α	80
Short-time allowable current for 10s (IEC/EN60947-1)		A	1100
Protection fuse			1100
Fiolection ruse	O (IEO)	^	000
	gG (IEC)	Α	200
	aM (IEC)	Α	125
Making capacity (RMS value)		Α	1300
Breaking capacity at voltage			
	440V	Α	1300
	500V	Α	1100
	690V	Α	880
Resistance per pole (average value)		mΩ	0.3
Power dissipation per pole (average value)		11122	0.0
Tower dissipation per pole (average value)	lth	14/	7.7
	Ith	W	
	AC-3	W	4
Tightening torque for terminals			
	min	Nm	10
	max	Nm	10
	min	lbin	7.4
	max	lbin	7.4
Max number of wires simultaneously connectable		Nr.	2
Conductor section			
AWG/Kcmil			
AWO/IGIIII	2007		2/0
Deventage in a language of the country of the COUNTRY COSTON	max		2/0
Power terminal protection according to IEC/EN 60529			IP00
Mechanical features			
Operating position			
	normal		Vertical plan
	allowable		±30°
Fixing			Screw
Weight		g	6250
··-·g··-		9	

FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 160A, AC/DC COIL,

Conductor section				
	AWG/kcmil conductor section			
	, Criticism conductor couldness	max		2/0
Operations				
Mechanical life			cycles	10000000
Electrical life			cycles	1100000
Safety related data				
	0d according to EN/ISO 13489-1			
	-	rated load	cycles	1100000
		mechanical load	cycles	10000000
Mirror contats accordi	ng to IEC/EN 609474-4-1			yes
MC compatibility				yes
AC coil operating				
Rated AC voltage at 5	0/60Hz		V	60
AC operating voltage				
	of 50/60Hz coil powered at 50Hz			
	pick-up			
	•	min	%Us	80
		max	%Us	110
	drop-out			
		min	%Us	20
		max	%Us	60
	of 50/60Hz coil powered at 60Hz			
	pick-up			
		min	%Us	80
		max	%Us	110
	drop-out			
		min	%Us	20
		max	%Us	60
	of 60Hz coil powered at 60Hz			
	pick-up			
		min	%Us	80
	<u>.</u>	max	%Us	110
	drop-out			
		min	%Us	20
		max	%Us	60
AC average coil consu	•			
	of 50/60Hz coil powered at 50Hz			000
		in-rush	VA	300
	(50/0011 "	holding	VA	10
	of 50/60Hz coil powered at 60Hz		3.74	000
		in-rush	VA	300
Nington (A.)	200°O FOLI-	holding	VA	10
Dissipation at holding	≥∠U ∪ 5UHZ		W	10
OC roted control voltage			\/	00
OC rated control voltage	y e		V	60
OC operating voltage	wiele			
	pick-up	•	0/11-	90
		min	%Us	80
	drap out	max	%Us	110
	drop-out	س:س	0/110	20
		min	%Us %Us	20 60
	tion <20°C	max	/oUS	00

Average coil consumption ≤20°C



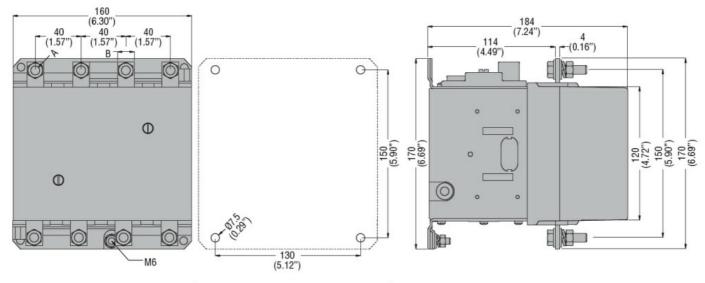


FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 160A, AC/DC COIL, 60VAC/DC

			in-rush	W	300
			holding	W	10
Max cycles frequency					
Mechanical operation				cycles/h	2400
Operating times					
Average time for Us co					
	in AC	Closing NO			
		Closing NO	min	ms	60
			max	ms	100
		Opening NO	THOS.		
		-1- 5	min	ms	25
			max	ms	60
	in DC				
		Closing NO			
			min	ms	60
			max	ms	100
		Opening NO			
			min	ms	25
			max	ms	60
UL technical data	f (I) 1 AO				
Full-load current (FLA)	for three-phase AC mo	tor	-t 400\/	۸	00
			at 480V	A	96
Violded machanical na	rformonoo		at 600V	Α	99
Yielded mechanical per		otor			
	for three-phase AC me	Oloi	200/208V	HP	30
			220/230V	HP	40
			575/600V	HP	100
General USE			0.0,000.		
	Contactor				
			AC current	Α	160
Short-circuit protection	fuse, 600V				_
	Standard fault				
			Short circuit current	kA	5
			Fuse rating	Α	500
			Fuse class		RK5
Ambient conditions					
Temperature					
	Operating temperature	Э		0.0	
			min	°C	-50 70
	Ctorogo tomo anotico		max	°C	70
	Storage temperature		min	°C	60
			min	°C	-60 80
Max altitude			max	m	3000
Resistance & Protectio	n			111	3000
Pollution degree	· · · · · · · · · · · · · · · · · · ·				3
Dimensions					

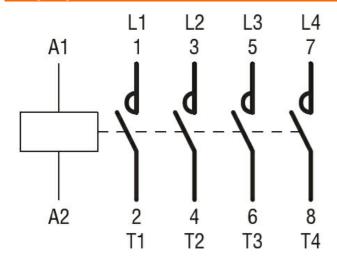
ENERGY AND AUTOMATION

FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 160A, AC/DC COIL,



CONTACTOR TYPE	Α	В
B115	M6	15 (0.59")
B145	M8	20 (0.79")
B180	M8	20 (0.79")

Wiring diagrams



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

EAC

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching