



min max AC-1 (≤40°C) AC-1 (≤55°C) AC-1 (≤70°C) (≤440V ≤55°C) AC-4 (400V)	Nr. V kV Hz Hz A A A A	B115  4  1000  8  25  400  160  160  150  110
Max  AC-1 (≤40°C) AC-1 (≤55°C) AC-1 (≤70°C) (≤440V ≤55°C)	V kV Hz Hz A A A	1000 8 25 400 160 160
Max  AC-1 (≤40°C) AC-1 (≤55°C) AC-1 (≤70°C) (≤440V ≤55°C)	V kV Hz Hz A A A	1000 8 25 400 160 160
Max  AC-1 (≤40°C) AC-1 (≤55°C) AC-1 (≤70°C) (≤440V ≤55°C)	Hz Hz A A A A	8 25 400 160 160 150
Max  AC-1 (≤40°C) AC-1 (≤55°C) AC-1 (≤70°C) (≤440V ≤55°C)	Hz Hz A A A A	25 400 160 160 150
Max  AC-1 (≤40°C) AC-1 (≤55°C) AC-1 (≤70°C) (≤440V ≤55°C)	A A A	400 160 160 150
Max  AC-1 (≤40°C) AC-1 (≤55°C) AC-1 (≤70°C) (≤440V ≤55°C)	A A A	400 160 160 150
AC-1 (≤40°C) AC-1 (≤55°C) AC-1 (≤70°C) (≤440V ≤55°C)	A A A	160 160 150
AC-1 (≤55°C) AC-1 (≤70°C) (≤440V ≤55°C)	A A A	160 150
AC-1 (≤55°C) AC-1 (≤70°C) (≤440V ≤55°C)	A A	150
AC-1 (≤55°C) AC-1 (≤70°C) (≤440V ≤55°C)	A A	150
AC-1 (≤70°C) (≤440V ≤55°C)	Α	
(≤440V ≤55°C)		
,		110
AC-4 (400V)	A	47
<del></del>		<del>- 1</del> /
230V	kW	57
400V	kW	98
500V	kW	
690V		129
6907	kW	173
751		400
75V	A	160
		100
		_
		_
460V	A	
		160
		130
		100
		_
460V	Α	_
75V	Α	160
110V	Α	130
220V	Α	130
330V	Α	100
460V	Α	_
75V	Α	160
110V	Α	130
220V	Α	130
330V	Α	130
460V	Α	100
	110V 220V 330V 460V 75V 110V 220V 330V	220V A 330V A 460V A  75V A 110V A 220V A 330V A 460V A  75V A 110V A 220V A 330V A 460V A  75V A 110V A 220V A 330V A 460V A

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	
<del></del>	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	<b></b>

ENERGY AND AUTOMATION				
Conductor section				
Solidation Goodien	AWG/kcmil conductor section			
		max		2/0
Operations				
Mechanical life			cycles	10000000
Electrical life			cycles	1100000
Safety related data				
Performance level B1	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
EMC compatibility				yes
AC coil operating				
Rated AC voltage at 5	0/60Hz		V	48
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
		max	%Us	110
	drop-out			
		min	%Us	20
		max	%Us	60
AC average coil cons	umption at 20°C	.,,		
9	of 50/60Hz coil powered at 50Hz			
	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	in-rush	VA	300
		holding	VA	10
	of 50/60Hz coil powered at 60Hz	noranig		· <del>-</del>
	2. 30,00.12 0011 portorod at 00112	in-rush	VA	300
		holding	VA	10
Dissipation at holding	≤20°C 50Hz	Holaling	W	10
DC coil operating			• • • • • • • • • • • • • • • • • • • •	. 0
DC rated control volta	ge		V	48
DC operating voltage	<del>ড</del> ~		v	
Jo operating voitage	nick-un			
	pick-up	min	%Us	80
			%Us %Us	110
	drap out	max	/ <sub>0</sub> US	110
	drop-out		0/11-	20
		min	%Us	20
<del> </del>	tion <00°C	max	%Us	60

Average coil consumption ≤20°C

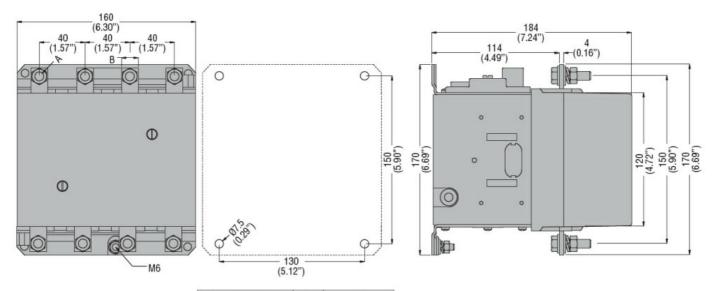




Mack cycles frequency   Mechanical operation   Cycles/h 2400				in-rush holding	W W	300 10
Mechanical operation	Max cycles frequency			Holding	VV	10
Operating times   Average time for Us control   In AC					cycles/h	2400
Closing NO						
Closing NO	Average time for Us co	ntrol				
Max a min   Max min   Ma		in AC				
Name			Closing NO			
Opening NO				min	ms	
Main				max	ms	100
In DC   In DC   Closing NO			Opening NO			
In DC  Closing NO    min max ms   100						
Closing NO		. 50		max	ms	60
Opening NO		in DC	Clasias NO			
Max			Closing NO	min	<b>m</b> o	60
Copening NO   min ms   25 max   max   ms   25 max   max   ms   60						
Min max   Min			Opening NO	IIIax	1115	100
Max altitude   Max			Opening NO	min	ms	25
Ul-load current (FLA) for three-phase AC motor						
Full-load current (FLA) for three-phase AC motor    1	UL technical data			THOX	1110	
At 480V   A 99   A 1600V   A 99		for three-phase AC mo	tor			
at 600V         A         99           Yielded mechanical performance for three-phase AC motor         200/208V         HP         30           220/230V         HP         40         575/600V         HP         40           575/600V         HP         100 <t< td=""><td>,</td><td>'</td><td></td><td>at 480V</td><td>Α</td><td>96</td></t<>	,	'		at 480V	Α	96
For three-phase AC motor   200/208V				at 600V		99
200/208V	Yielded mechanical pe	rformance				
Contactor		for three-phase AC m	otor			
S75/600V				200/208V	HP	30
Contactor				220/230V	HP	40
Contactor   AC current   A   160				575/600V	HP	100
AC current	General USE					
Short-circuit protection fuse, 600V   Standard fault   Short circuit current   kA   5   Fuse rating   A   500   Fuse class   RK5		Contactor				
Standard fault				AC current	Α	160
Short circuit current   Fuse rating   Fuse rating   Fuse class   RK5	Short-circuit protection					
Fuse rating Fuse class   RK5		Standard fault				_
Fuse class   RK5						
Ambient conditions           Temperature					А	
Operating temperature	Ambient conditions			Fuse class		CAN
Operating temperature           min max         °C or 70           Storage temperature         min or C or 60           max         °C or 80           Max altitude         m or 3000           Resistance & Protection         3						
min max         °C 70           Storage temperature         min °C -60 max °C 80           Max altitude         m 3000           Resistance & Protection         3	remperature	Operating temperature	2			
Max         °C         70           Storage temperature         min         °C         -60           max         °C         80           Max altitude         m         3000           Resistance & Protection         3           Pollution degree         3		operating temperature	•	min	°C	-50
Storage temperature           min or C or -60 max or C storage         -60 max or C storage           Max altitude         m 3000           Resistance & Protection         Storage temperature           Pollution degree         3						
min °C -60 max °C 80  Max altitude m 3000  Resistance & Protection  Pollution degree 3		Storage temperature		max		. •
Max altitudemax°C80Resistance & Protectionm3000Pollution degree3		- 111 1.J 3 10polataro		min	°C	-60
Max altitude m 3000 Resistance & Protection Pollution degree 3						
Resistance & Protection Pollution degree 3	Max altitude					
		on				
						3

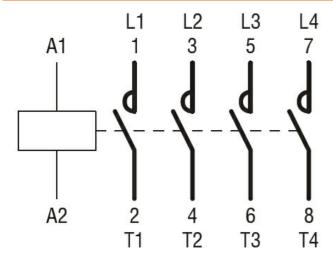
**ENERGY AND AUTOMATION** 

#### 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