

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



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
		- 1 /
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

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	_
IEC may current to in DC2 DC5 with L/D < 15mg with 2 males 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	A	100
	330V	Α	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	A	120
	460V	A	80
Short-time allowable current for 10s (IEC/EN60947-1)		Α	1100
Protection fuse			
	gG (IEC)	Α	200
	aM (IEC)	Α	125
Making capacity (RMS value)		Α	1300
Breaking capacity at voltage			
	440V	Α	1300
	500V	A	1100
	690V	A	880
Resistance per pole (average value)		mΩ	0.3
Power dissipation per pole (average value)			
	Ith	W	7.7
	AC-3	W	4
Tightening torque for terminals			
	min	Nm	10
	max	Nm	10
		Ibin	
	min		7.4
	max	Ibin	7.4
Max number of wires simultaneously connectable		Nr.	2
Conductor section			
AWG/Kcmil			
	max		2/0
Power terminal protection according to IEC/EN 60529			IP00
Mechanical features			
Operating position			Mantical als
	normal		Vertical plan
	allowable		±30°
Fixing			Screw
Weight	<u>-</u>	g	6180
-		J	



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AWG/kcmil conductor section max 2/0	Conductor section				
Operations Operations Cycles 10000000 Electrical life cycles 10000000 Safoty related data rated load mechanical load cycles 1100000 Performance level B10d according to EN/ISO 13489-1 rated load mechanical load cycles 10000000 Mirror contats according to IEC/EN 609474-4-1 yes EMC countability yes AC coil operating min %Us 80 Rated AC voltage at 50/60Hz min %Us 80 AC operating voltage min %Us 80 according voltage <t< td=""><td></td><td>AWG/kcmil conductor section</td><td></td><td></td><td></td></t<>		AWG/kcmil conductor section			
Mechanical life cycles 10000000 Electrical life cycles 1100000 Safety related data rated load mechanical load cycles 1100000 Mirror contats according to IEC/EN 609474-4-1 yes EMC compatibility yes AC coll operating Rated AC votage at 50/60Hz 0 v 24 AC operating voltage of 50/60Hz coil powered at 50Hz pick-up min %Us 80 AC operating voltage of 50/60Hz coil powered at 60Hz pick-up min %Us 80 Maccompan min %Us 80 Maccompan max %Us 60 Of 50/60Hz coil powered at 60Hz pick-up min %Us 20 Maccompan			max		2/0
Electrical life	•			_	
Safety related data Performance level B10d according to EN/ISO 13489-1 rated load mechanical load cycles 1100000 cycles 10000000 cycles 100000000 cycles 10000000000000 cycles 10000000000000 cycles 100000000000000000000000000000000000					
Performance level B10d according to EN/ISO 13489-1 rated load cycles 1100000 (cycles) 11000000 (cycles) 11000000 (cycles) 11000000 (cycles) 110000000 (cycles) 110000000 (cycles) 110000000 (cycles) 10000000 (cycles) 10000000 (cycles) 100000000 (cycles) 100000000 (cycles) 100000000 (cycles) 20000000000 (cycles) 2000000000000000 (cycles) 2000000000000000000000000000000000000				cycles	1100000
Mirror contats according to IEC/EN 609474-4-1 yes 10000000 yes 10000000 yes 100000000 yes 100000000 yes 100000000 yes 1000000000 yes 1000000000 yes 1000000000 yes 100000000 yes 100000000 yes 100000000 yes 100000000 yes 100000000 yes 100000000 yes 100000000000000000000000000000000000		2d dia - to FN/100 40400 4			
Mirror contats according to IEC/EN 609474-4-1 yes	Performance level B10	od according to EN/ISO 13489-1	roted load	ovoloo	1100000
Mirror contats according to IEC/EN 609474-4-1 yes				-	
EMC compatibility AC coil operating Rated AC voltage at 50/60Hz coil powered at 50Hz pick-up min	Mirror contats according	og to IEC/EN 609474-4-1	mechanical load	Cycles	
AC ool operating Rated AC voltage at 50/60Hz Coil powered at 50Hz		ig to 120/214 009474-4-1			
Rated AC voltage at 50/60Hz coil powered at 50Hz pick-up					yes
AC operating voltage of 50/60Hz coil powered at 50Hz pick-up min		0/60Hz		V	24
of 50/60Hz coil powered at 50Hz pick-up min %Us 80 max %Us 110 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 80 max %Us 110 drop-out min %Us 20 max %Us 50 of 60Hz coil powered at 60Hz pick-up min %Us 80 max %Us 60 of 60Hz coil powered at 60Hz pick-up min %Us 80 max %Us 50 of 50/60Hz coil powered at 50Hz AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz analysis max x x of 50/60Hz coil powered at 60Hz in-rush VA 300 holding VA 10 of 50/60Hz coil powered at 60Hz in-rush VA 300 holding VA 10 Dissipation at holding ≤20°C 50Hz W 10 Coll operating V 24 DC operating voltage V 24 DC operating voltage Dick-up min %Us 80 max x x min %Us 80 max x x min %Us 80 max x x max x x x x x x x x x					
Pick-up min %Us 80 max %Us 110 Min %Us 20 max %Us 60 Min %Us 60 Min Min %Us 60 Min Min %Us 60 Min		of 50/60Hz coil powered at 50Hz			
Min Min					
drop-out min wus 20 max wus 60 max wus			min	%Us	80
March Mar			max	%Us	110
Max Mus 60		drop-out			
of 50/60Hz coil powered at 60Hz pick-up min			min	%Us	20
Pick-up min %Us 80 max %Us 110 Min Mus 60 Min Mus 60 Min Mus 60 Min Mus 110 Min Min Mus 110 Min Min			max	%Us	60
Min Min					
Max Mus 110 Mus 20 Mus 110 Mus 20 Mus Mus 60 Mus Mus		pick-up			
drop-out min %Us 20					
Min			max	%Us	110
Max Mus 60		drop-out		0/11-	00
of 60Hz coil powered at 60Hz					
Pick-up min %Us 80 max %Us 110 Morp-out min %Us 20 max %Us 60 Morp-out min %Us 20 max %Us 60 Morp-out Morp-out min %Us 20 max %Us 60 Morp-out Morp		of 60Hz coil powered at 60Hz	IIIdX	70US	00
Min Mus 80 max Mus 110					
Max Mus 110 Mus 20 Mus Mus 20 Mus Mus 60 Mus		рюк-ир	min	%Us	80
AC average coil consumption at 20°C Of 50/60Hz coil powered at 50Hz Of 50/60Hz coil powered at 50Hz Of 50/60Hz coil powered at 60Hz					
min %Us 20		drop-out		,,,,,	
max %Us 60 AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz in-rush VA 300 holding VA 10 In rush holding 50/60Hz coil powered at 60Hz in-rush VA 300 holding VA 10 Dissipation at holding ≤20°C 50Hz W 10 DC coil operating DC rated control voltage V 24 DC operating voltage V 24 DC operating voltage In rush VA 300 holding VA 10 DC rated control voltage V 24 DC operating voltage V 24 Imax WUs 80 max WUs 110 drop-out min WUs 20 max WUs 60		•	min	%Us	20
of 50/60Hz coil powered at 50Hz in-rush VA 300 holding VA 10 of 50/60Hz coil powered at 60Hz in-rush VA 300 holding VA 10 Dissipation at holding ≤20°C 50Hz W 10 DC coil operating DC rated control voltage V 24 DC operating voltage pick-up min %Us 80 max %Us 110 drop-out min %Us 20 max %Us 60			max	%Us	60
in-rush VA 300 holding VA 10	AC average coil consu	ımption at 20°C			
holding VA 10		of 50/60Hz coil powered at 50Hz			
of 50/60Hz coil powered at 60Hz in-rush VA 300 holding VA 10 Dissipation at holding ≤20°C 50Hz W 10 DC coil operating DC rated control voltage V 24 DC operating voltage pick-up min %Us 80 max %Us 110 drop-out min %Us 20 max %Us 60			in-rush	VA	300
in-rush VA 300 holding VA 10			holding	VA	10
Dissipation at holding ≤20°C 50Hz W 10 DC coil operating V 24 DC operating voltage V 24 DC operating voltage min %Us 80 max %Us 110 drop-out min %Us 20 max %Us 60		of 50/60Hz coil powered at 60Hz			
Dissipation at holding ≤20°C 50Hz DC coil operating DC rated control voltage DC operating voltage pick-up min %Us 80 max %Us 110 drop-out min %Us 20 max %Us 60					
DC coil operating DC rated control voltage V 24 DC operating voltage min %Us 80 max %Us 110 drop-out min %Us 20 max %Us 60			holding		
DC rated control voltage V 24 DC operating voltage min %Us 80 max %Us 110 drop-out min %Us 20 max %Us 60		≤20°C 50Hz		VV	10
DC operating voltage pick-up		·•		W	24
pick-up min %Us 80 max %Us 110 drop-out min %Us 20 max %Us 60		y e		V	<u> </u>
min %Us 80 max %Us 110 drop-out min %Us 20 max %Us 60	DC operating voltage	niek un			
max %Us 110 drop-out min %Us 20 max %Us 60		ріск-ир	min	0/1 lo	80
drop-out min %Us 20 max %Us 60					
min %Us 20 max %Us 60		dron-out	IIIdX	/003	110
max %Us 60		arop out	min	%Us	20
	Average coil consump	tion ≤20°C			



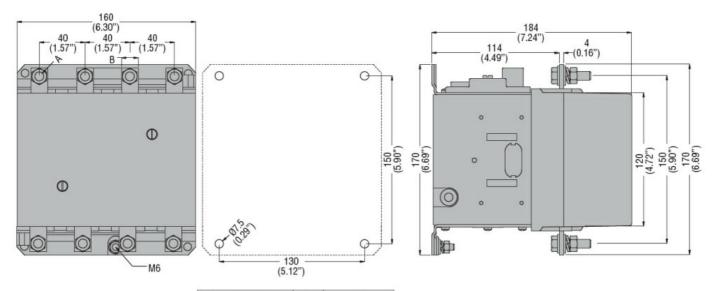


FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 160A, AC/DC COIL, 24VAC/DC

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	m 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			max	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 max -50 max °C 70 Storage temperature min °C -60 max °C 80 Max altitude m 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

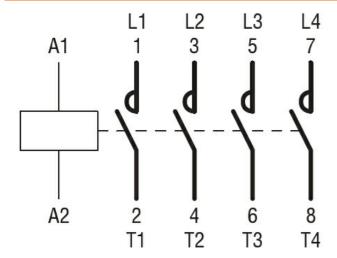
ENERGY AND AUTOMATION

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