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THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 420A, AC/DC COIL, 110... 125VAC/DC



Product designation			Power contactor
Product type designation			B400
Contact characteristics			
Number of poles		nr.	3
Rated insulation voltage Ui		V	1000
Rated impulse withstand voltage Uimp		kV	8
Operating frequency			
	Operational frequency min	Hz	25
	Operational frequency max	Hz	400
Conventional free air thermal current Ith	· · · ·	А	550
Operating current			
	Operational current AC1 (≤40°C)	А	550
	Operational current AC3 (≤440V ≤55°C)	А	420
	Operational current AC4 (400V)	А	133
Rated operational power AC1 (T≤40°C)			
	230V	kW	200
	400V	kW	345
	500V	kW	452
	690V	kW	598
Rated operational power AC3 (T≤55°C)			
	230V	kW	130
	400V	kW	225
	415V	kW	247
	440V	kW	263
	500V	kW	271
	690V	kW	352
	1000V	kW A	208
Short-time allowable current for 10s (IEC/EN	3600		
Protection fuse			
	gG (IEC)	А	630
	aM (IEC)	A	400
Making capacity (RMS value)		Α	4200
Breaking capacity at voltage			
	Breaking capacity 440V	А	4000
	Breaking capacity 500V	А	3400
	Breaking capacity 690V	A	3360
Resistance per pole (average value)		mΩ	0.2
Power dissipation per pole (average value)			
	Power dissipation pole (average value) Ith	W	52
	AC3	W	32
Tightening torque for terminals			
	min	Nm	35
	max	Nm	35
	min	lbft	25.8
	max	lbft	25.8



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C THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 420A, AC/DC COIL, 110... 125VAC/DC

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max number of wires s	simultaneously connectable		nr.	2
Conductor section				
	AWG			
		max		2x 300 kcmil
	tion according to IEC/EN 60529			IP00
Auxiliary contact chara				550
Operational current AC			A	550
Operating current DC1	3	110V	۸	Sorow
Ambient conditions		TIUV	A	Screw
Temperature				
remperature	Operating temperature			
	operating temperature	min	°C	-50
		max	°Č	70
	Storage temperature		-	
	5	min	°C	-60
		max	°C	80
Max altitude			m	3000
Operating position				
		normal		Vertical plan
		allowable		±30°
Mounting				Screw
Weight			g	9.62
Operations			0 1	1000000
Mechanical life			Cycles	1000000
Electrical life			Cycles	700000
Safety related data	0d according to EN/ISO 13489-1			
	Ju according to EN/ISO 13489-1	rated load	Cicli	700000
		mechanical load	Cicli	1000000
Mirror contats accordir	ng to IEC/EN 609474-4-1	meenamearioarioaa	Cioli	yes
EMC compatibility				yes
AC coil operating				,
AC operating voltage				
	of 50/60Hz coil powered at 50Hz			
	pick-up			
	-	min	%Us	0.8
		max	%Us	1.1
	drop-out			
		min	%Us	0.2
		max	%Us	0.6
	of 50/60Hz coil powered at 60Hz			
	pick-up		0/11-	0.9
		min	%Us %Us	0.8 1.1
	drop-out	max	/005	1.1
		min	%Us	0.2
		max	%Us	0.2
		Παλ	,	5.5
AC operating voltage				
AC operating voltage	of 50/60Hz coil powered at 50Hz			
AC operating voltage	of 50/60Hz coil powered at 50Hz	in-rush	VA	300
AC operating voltage	of 50/60Hz coil powered at 50Hz	in-rush holding	VA VA	300 10



THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 420A, AC/DC COIL, 110...

ENERGY AND AUTOMATION

125VAC/DC

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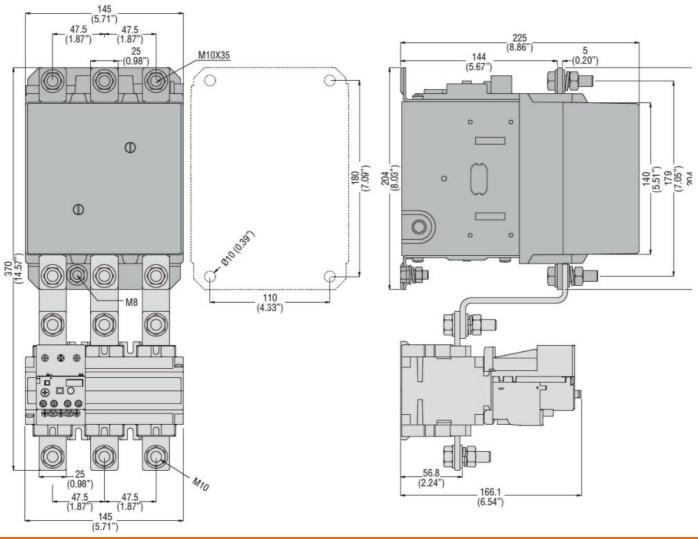
in intrusin VA 300 holding 20°C 50Hz VA 10 Dissipation at holding 520°C 50Hz V DC coll operating DC operating voltage pick-up min %US 0.8 max %US 0.8 max %US 0.00 Average coll consuption 520°C in-rush W 300 holding W 10 Max cycles fraquency Mechanical operations Cycles/h 2400 Operating voltage Closing NO min ms 80 max ms 120 Operating NO min ms 30 max ms 75 U. technical deta Full-toad current (FLA) for three-phase AC motor Full-toad current (FLA) for three-phase AC motor 4 4800V A 382 Yielded mechanical performance for three-phase AC motor At 2002089V hp 150 at 200208V hp 150 at 20000 max 150 max 150 m					
Dissipation at holding \$20°C 50Hz     W     10       DC coll operating DC rated control voltage     min     V     24       DC operating voltage     min     %Us     0.6       max     %Us     0.10     min     %Us     0.6       drop-out     min     %Us     0.2     max     %Us     0.60       Average coll consuption \$20°C     in-rush     W     300     holding     W     10       Max cycles frequency     Wechanical operations     Cycles/h     2400     Qeetating times     2400       Average time for Us control in AC     Closing NO     min     ms     80     max     ms     120       Opening NO     min     ms     30     max     ms     120       Opening NO     min     ms     30     max     ms     120       UL technical data     T     T     T     T     T       Full-load current (FLA) for three-phase AC motor     at 4800V     A     414     at 500/203     at 200/203V     hp<			in-rush	VA	300
DC coll operating DC rated control voltage DC operating voltage pick-up			holding		
DC rated control voltage DC operating voltage pick-up drop-out drop-out min %Us 0.8 max %Us 0.60 Average coll consuption ≤20°C in-rush W 300 holding W 10 Max cycles frequency Mechanical operations Cycles /n 24 W 300 holding W 300 Max cycles frequency Mechanical operations Cycles /n 24 Mechanical operations Max cycles frequency Mechanical operations Max cycles frequency Mechanical operations Max cycles frequency Mechanical operations Max cycles /n 24 Mechanical operations Max cycles /n 24 Mechanical operations Max cycles /n 24 Mechanical operations Max cycles /n 24 Mechanical operations Mechanical operations Max cycles /n 24 Mechanical operations Mechanical operations Me		20°C 50Hz		W	10
min     V     24       DC operating voltage     pick-up     min     %US     0.8					
DC operating voltage pick-up drop-out drop-out min %Us 0.2 max %Us 0.60 Average coll consuption ≤20°C in-rush W 300 holding W 10 Max cycles frequency Mechanical operations Operating times Average time for Us control in AC Closing NO min ms 80 max ms 75 in DC Closing NO min ms 80 max ms 75 in DC Closing NO min ms 30 max ms 75 UL technical data Full-load current (FLA) for three-phase AC motor Full-load current (FLA) for three-phase AC motor full-load current (FLA) for three-phase AC motor General USE Contactor Closing NO Min ms 30 max ms 75 UL technical data Full-load current (FLA) for three-phase AC motor General USE Contactor AC current A 550 Other features Pollution degree AC current A 550	DC rated control voltage	e			
pick-up     min     %Us     0.8       drop-out     min     %Us     0.60       Average coll consuption \$20°C     in-rush     W     300       Average coll consuption \$20°C     in-rush     W     300       Machanical operations     Cycles/h     2400       Operating times     Cycles/h     2400       Average time for Us control     in AC     min     ms     80       Closing NO     min     ms     30     max     ms     120       Opening NO     min     ms     30     max     120       Opening NO			min	V	24
pick-up     min     %Us     0.8       drop-out     min     %Us     0.60       Average coll consuption \$20°C     in-rush     W     300       Average coll consuption \$20°C     in-rush     W     300       Machanical operations     Cycles/h     2400       Operating times     Cycles/h     2400       Average time for Us control     in AC     min     ms     80       Closing NO     min     ms     30     max     ms     120       Opening NO     min     ms     30     max     120       Opening NO	DC operating voltage				
min     %Us     0.8       drop-out     max     %Us     0.2       max     %Us     0.60       Average coil consuption ≤20°C     in-rush     W     300       Max cycles frequency     W     300       Mechanical operations     Cycles/h     2400       Operating times     X     X     X       Average time for Us control     in AC     S0     min     ms     80       Max     ms     120     min     ms     80     max     ms     120       Opening NO     min     ms     30     max     ms     120       U     technical data     technical max     ms<		pick-up			
$\begin{tabular}{ c                                   $			min	%Us	0.8
drop-out     min     %Us     0.2       Average coil consuption ≤20°C     in-rush     W     300       Max cycles frequency     w     300       Max cycles frequency     v     10       Max cycles frequency     v     2400       Operating times     Cycles/h     2400       Average time for Us control in AC     min     ms     80       Opening NO     min     ms     30       max     ms     120     max     ms       Opening NO     min     ms     30       max     ms     120     max     ms     120       Opening NO     min     ms     80     max     ms     75       in DC     Closing NO     max     ms     120     0     max     ms     75       Ut technical data     Full-load current (FLA) for three-phase AC motor     at 480V     A     414     4       Full-load current (FLA) for three-phase AC motor     at 480V     A     414     4600V     A     382					
min     %Us     0.2       Average coil consuption ≤20°C     in-rush     W     300       Max cycles frequency     W     300       Max cycles frequency     W     300       Max cycles frequency     V     2400       Average time for Us control in AC     Closing NO     V     2400       Opening NO     max     ms     80       max     ms     30     max     ms     120       Opening NO     min     ms     30     max     ms     120       UL technical data     f     f     f     14800V		drop-out			
max     %Us     0.60       Average coil consuption ≤20°C     in-rush W     300 holding W     300       Max cycles frequency     W     10       Mechanical operations     Cycles/h     2400       Operating times     Xerage time for Us control in AC     S0       Average time for Us control in AC     min     ms     80       Opening NO     min     ms     30       min< ms			min	%Us	0.2
Average coil consuption \$20°C in-rush W 300 holding W 10 Max cycles frequency Mechanical operations Cycles/h 2400 Operating times Average time for Us control in AC Closing NO min ms 80 max ms 120 Opening NO min ms 30 max ms 120 Opening NO min ms 80 max ms 120 Opening NO min ms 30 max ms 120 Opening NO min ms 30 max ms 75 UL technical data Full-load current (FLA) for three-phase AC motor If three-phase AC motor at 200/208V hp 125 at 220/230V hp 150 at 460/480V hp 350 at 575/600V hp 400 General USE Contactor AC current A 550 Chter features Pollution degree S					
in-rush W 300 Max cycles frequency Mechanical operations Cycles/h 2400 Ciperating times Average time for Us control in AC Closing NO min ms 80 max ms 120 Opening NO min ms 30 max ms 75 in DC Closing NO min ms 30 max ms 120 Opening NO min ms 30 max ms 120 Opening NO min ms 30 max ms 120 Opening NO min ms 30 max ms 75 UL technical data Full-load current (FLA) for three-phase AC motor Full-load current (FLA) for three-phase AC motor Full-load current (FLA) for three-phase AC motor for three-phase AC motor at 480V A 414 at 600/40V A 382 Yielded mechanical performance for three-phase AC motor at 220/208V hp 125 at 220/208V hp 150 at 460/480V hp 350 at 575/600V hp 400 General USE Contactor AC current A 550		n <20°C	Παλ	/003	0.00
Noticing     W     10       Max cycles frequency     Cycles /h     2400       Mechanical operations     Cycles /h     2400       Operating times         Average time for Us control in AC     min     ms     80       Opening NO     min     ms     30       max     ms     120       Opening NO     min     ms     30       max     ms     120     max     ms     120       Opening NO     min     ms     30     max     ms     120       Ut etchnical data     technical data <td< td=""><td>Average con consuptio</td><td></td><td>in much</td><td>14/</td><td>200</td></td<>	Average con consuptio		in much	14/	200
Max cycles frequency Mechanical operations Cycles/h 2400 Operating times Average time for Us control in AC Closing NO min ms 80 max ms 120 Opening NO min ms 30 max ms 75 in DC Closing NO min ms 80 max ms 120 Opening NO min ms 80 max ms 120 Opening NO min ms 30 max ms 120 Opening NO min ms 30 max ms 75 UL technical data Full-load current (FLA) for three-phase AC motor for three-phase AC motor for three-phase AC motor at 200/208V hp 125 at 200/208V hp 150 at 460/480V hp 350 at 60/480V hp 350 at 60/480V hp 350 at 60/480V hp 400 General USE Contactor AC current A 550 Cher features Pollution degree Source Pollution degree Source Pollution degree Source Pollution degree Source					
Mechanical operations     Cycles/h     2400       Operating times			noiding	VV	IU
Operating times     Average time for Us control in AC     Closing NO     Min   ms     Max   ms     Opening NO     min   ms     Max				0 1 "	0.400
Average time for Us control in AC Closing NO min ms 80 max ms 120 Opening NO min ms 30 max ms 75 in DC Closing NO min ms 80 max ms 120 Opening NO Min ms 30 max ms 75 UL technical data Full-load current (FLA) for three-phase AC motor Full-load current (FLA) for three-phase AC motor Full-load current (FLA) for three-phase AC motor 4 480V A 414 at 600V A 382 Yielded mechanical performance for three-phase AC motor AC current A 550 Cher features Pollution degree Pollution degree Pollution degree Pollution degree Sat 4575/600V				Cycles/h	2400
in AC Closing NO min ms 80 max ms 120 Opening NO min ms 30 max ms 75 in DC Closing NO min ms 80 max ms 120 Opening NO min ms 30 max ms 120 Opening NO min ms 30 max ms 75 UL technical data Full-load current (FLA) for three-phase AC motor Full-load current (FLA) for three-phase AC motor for three-phase AC motor at 480V A 4114 at 600V A 382 Yielded mechanical performance for three-phase AC motor at 220/208V hp 125 at 220/208V hp 150 at 460/480V hp 350 at 575/600V hp 400 General USE Contactor AC current A 550 Other features Pollution degree 3					
Closing NO     min     ms     80       Opening NO     max     ms     120       Opening NO     min     ms     30       max     ms     75     min     ms     80       in DC     Closing NO     min     ms     80       Opening NO     min     ms     80       Max     ms     120     max     ms     120       Opening NO     max     ms     120     max     ms     120       Ut technical data     max     ms     30     max     ms     75       UL technical data     max     ms     3482     max     ms     382       Yielded mechanical performance     at 480V     A     414     382       Yielded mechanical performance     at 200/208V     hp     125     350       General USE     contactor     at 460/480V     hp     350     3       Other features     AC current     A     550     550       Other features     AC	Average time for Us co				
min     ms     80       max     ms     120       max     ms     30       max     ms     30       max     ms     75       in DC     Closing NO     min     ms     80       Opening NO     min     ms     80       Max     ms     120       Opening NO     min     ms     80       Max     ms     120       Opening NO     min     ms     30       Max     ms     75     120       Opening NO     min     ms     30       Max     ms     75     120       UL technical data     min     ms     30       Full-load current (FLA) for three-phase AC motor     at 480V     A     414       at 600V     A     382     382       Yielded mechanical performance     at 220/230V     hp     150       at 460/480V     hp     350     at 575/600V     hp     400       General USE					
Max     ms     120       Max     ms     30       min     ms     30       max     ms     75       in DC     Closing NO     min     ms     80       Opening NO     min     ms     80       Opening NO     max     ms     120       Opening NO     max     ms     30       Max     ms     30     max     ms     120       Opening NO     max     ms     30     max     ms     75       UL technical data     max     ms     30     max     ms     75       Full-load current (FLA) for three-phase AC motor     at 480V     A     414     414       at 600V     A     382     414     414     414     414       at 200/208V     hp     125     at 220/230V     hp     150       at 460/480V     hp     350     at 575/600V     hp     400       General USE     Contactor     AC current     A <td< td=""><td></td><td>Closing NO</td><td></td><td></td><td></td></td<>		Closing NO			
Opening NO   min   ms   30     max   ms   75     in DC   Closing NO   min   ms   80     Max   ms   120     Opening NO   min   ms   30     Max   ms   120     Opening NO   min   ms   30     Max   ms   120     Opening NO   max   ms   75     UL technical data   max   ms   75     Full-load current (FLA) for three-phase AC motor   at 480V   A   414     At 600V   A   382     Yielded mechanical performance   at 220/230V   hp   125     for three-phase AC motor   at 220/230V   hp   150     at 460/480V   hp   350   at 460/480V   hp   350     General USE   Contactor   AC current   A   550     Other features   A   550   AC current   A   550			min	ms	80
minms30 max30 maxin DCClosing NOClosing NOminms80 maxms120 maxOpening NOminms30 maxms75UL technical dataFull-load current (FLA) for three-phase AC motorat 480VA414 at 600VA382Yielded mechanical performance for three-phase AC motorat 200/208V at 220/208V hp125 at 220/208V hpat 460/480Vhp350 at 460/480V hp350 at 575/600V3Other featuresContactorAC currentAPollution degree33			max	ms	120
max     ms     75       in DC     Closing NO     min     ms     80       Opening NO     max     ms     120       Opening NO     min     ms     30       Max     ms     75       UL technical data     min     ms     30       Full-load current (FLA) for three-phase AC motor     at 480V     A     414       Teilded mechanical performance     at 200/208V     hp     125       for three-phase AC motor     at 200/208V     hp     125       Secondary     at 200/208V     hp     150       at 460/480V     hp     350     at 3575/600V       General USE     Contactor     AC current     A     550       Other features     AC current     A     550		Opening NO			
in DC Closing NO min ms 80 max ms 120 Opening NO min ms 30 max ms 75 UL technical data Full-load current (FLA) for three-phase AC motor full-load current (FLA) for three-phase AC motor at 480V A 4114 at 600V A 382 Yielded mechanical performance for three-phase AC motor at 200/208V hp 125 at 220/230V hp 150 at 460/480V hp 350 at 575/600V hp 400 General USE Contactor AC current A 550 Other features Pollution degree 3			min	ms	30
Closing NO     min     ms     80       max     ms     120       Opening NO     min     ms     30       max     ms     75       UL technical data     ms     75       Full-load current (FLA) for three-phase AC motor     at 480V     A     414       at 600V     A     382       Yielded mechanical performance     at 200/208V     hp     125       for three-phase AC motor     at 200/208V     hp     125       at 220/230V     hp     150     at 460/480V     hp     350       General USE     Contactor     at 600V     hp     350       Other features     AC current     A     550			max	ms	75
minms80 maxMaxms120Maxms30 maxminms30 maxMaxms75UL technical dataFull-load current (FLA) for three-phase AC motorat 480VA414 at 600VA382Yielded mechanical performance for three-phase AC motorat 200/208V at 220/230Vhp125 at 220/230Vhp150 at 460/480Vat 460/480Vhp350 at 575/600VhpGeneral USE ContactorA550Other features Pollution degree3		in DC			
minms80 maxMaxms120Maxms30 maxminms30 maxMaxms75UL technical dataFull-load current (FLA) for three-phase AC motorat 480VA414 at 600VA382Yielded mechanical performance for three-phase AC motorat 200/208V at 220/230Vhp125 at 220/230Vhp150 at 460/480Vat 460/480Vhp350 at 575/600VhpGeneral USE ContactorA550Other features Pollution degree3		Closing NO			
Maxmaxms120Minms30maxms75UL technical dataFull-load current (FLA) for three-phase AC motorat 480VA414at 600VA382Yielded mechanical performanceat 200/208Vhpfor three-phase AC motorat 220/208Vhpat 220/230Vhp150at 460/480Vhp350at 460/480Vhp350at 460/480Vhp350at 575/600Vhp400General USEAC currentA550Other featuresPollution degree3		Ŭ	min	ms	80
Opening NO     min     ms     30 max     ms     75					
minms30 max30 maxUL technical dataFull-load current (FLA) for three-phase AC motorat 480VA414 at 600Vat 600VA382Yielded mechanical performance for three-phase AC motor		Opening NO			•
maxms75UL technical dataFull-load current (FLA) for three-phase AC motorat 480VA414at 600VA382Yielded mechanical performanceat 200/208Vhp125for three-phase AC motorat 200/230Vhp150at 200/230Vhp150at 460/480Vhp350General USEContactorAC currentA550Other featuresPollution degree3		oponnigito	min	ms	30
UL technical data     Full-load current (FLA) for three-phase AC motor     at 480V   A   414     at 600V   A   382     Yielded mechanical performance     for three-phase AC motor   at 200/208V   hp   125     at 220/230V   hp   150   at 460/480V   hp   350     at 460/480V   hp   350   at 575/600V   hp   400     General USE   Contactor   AC current   A   550     Other features   3   3					
Full-load current (FLA) for three-phase AC motor   at 480V   A   414     at 600V   A   382     Yielded mechanical performance   for three-phase AC motor   at 200/208V   hp   125     at 220/230V   hp   150   at 460/480V   hp   350     at 460/480V   hp   350   at 575/600V   hp   400     General USE   Contactor   AC current   A   550     Other features   3   3	III technical data		Шах	1110	10
at 480VA414at 600VA382Yielded mechanical performance for three-phase AC motorat 200/208Vhp125at 220/230Vhp150at 4200/208Vhp350at 460/480Vhp350at 575/600Vhp400General USE ContactorAC currentA550Other featuresPollution degree3		for three-phase AC motor			
at 600VA382Yielded mechanical performance for three-phase AC motorat 200/208Vhp125at 220/230Vhp150at 460/480Vhp350at 575/600Vhp400General USE ContactorAC currentA550Other featuresPollution degree3			of /20\/	۸	111
Yielded mechanical performance for three-phase AC motor   at 200/208V   hp   125     at 220/230V   hp   150     at 460/480V   hp   350     General USE   Contactor   AC current   A   550     Other features   3					
for three-phase AC motor     at 200/208V     hp     125       at 220/230V     hp     150       at 460/480V     hp     350       at 575/600V     hp     400       General USE       Contactor       AC current     A     550       Other features       Pollution degree     3	Violdod mochanical	rformanco		А	502
at 200/208V   hp   125     at 220/230V   hp   150     at 460/480V   hp   350     at 575/600V   hp   400     General USE     Contactor     AC current   A     Other features     Pollution degree   3	neided mechanical pe				
at 220/230V   hp   150     at 460/480V   hp   350     at 575/600V   hp   400     General USE     Contactor     AC current   A     Other features     Pollution degree   3		for three-phase AC motor		Ι.	405
at 460/480V hp 350 at 575/600V hp 400 General USE Contactor AC current A 550 Other features Pollution degree 3				•	
at 575/600V hp 400 General USE Contactor AC current A 550 Other features Pollution degree 3				-	
General USE Contactor AC current A 550 Other features Pollution degree 3				-	
Contactor   AC current   A   550     Other features   2   3			at 575/600V	hp	400
AC current A 550 Other features Pollution degree 3	General USE				
Other features   Pollution degree 3		Contactor			
Pollution degree 3			AC current	Α	550
<b>v</b>	Other features				
	Pollution degree				3
	Dimensions				



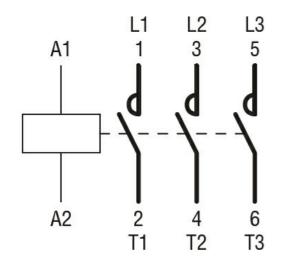
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THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 420A, AC/DC COIL, 110... 125VAC/DC

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Wiring diagrams



## Certifications and compliance

## Certifications

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		

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The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding



THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 420A, AC/DC COIL, 110... 125VAC/DC

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	UL 60947-4-1	
Compliance		
	CCC	
	cULus	
	EAC	
ETIM 6 classificat	bn	

EC000066 - Power contactor, AC switching