



Product designation	Power contactor		
Product type designation	B400		
<b>Contact characteristics</b>			
Number of poles	Nr.	4	
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		A	550
Operational current Ie			
	AC-1 ( $\leq 40^{\circ}\text{C}$ )	A	550
	AC-1 ( $\leq 55^{\circ}\text{C}$ )	A	430
	AC-1 ( $\leq 70^{\circ}\text{C}$ )	A	360
	AC-3 ( $\leq 440\text{V} \leq 55^{\circ}\text{C}$ )	A	420
	AC-4 (400V)	A	200
Rated operational power AC-1 ( $T \leq 40^{\circ}\text{C}$ )			
	230V	kW	200
	400V	kW	345
	500V	kW	452
	690V	kW	598
IEC max current Ie in DC1 with $L/R \leq 1\text{ms}$ with 1 poles in series			
	75V	A	400
	110V	A	250
	220V	A	--
	330V	A	--
	460V	A	--
IEC max current Ie in DC1 with $L/R \leq 1\text{ms}$ with 2 poles in series			
	75V	A	400
	110V	A	400
	220V	A	350
	330V	A	--
	460V	A	--
IEC max current Ie in DC1 with $L/R \leq 1\text{ms}$ with 3 poles in series			
	75V	A	400
	110V	A	400
	220V	A	400
	330V	A	350
	460V	A	--
IEC max current Ie in DC1 with $L/R \leq 1\text{ms}$ with 4 poles in series			
	75V	A	400
	110V	A	400
	220V	A	400
	330V	A	400
	460V	A	350

IEC max current  $I_e$  in DC3-DC5 with  $L/R \leq 15\text{ms}$  with 1 poles in series

75V	A	350
110V	A	200
220V	A	--
330V	A	--
460V	A	--

IEC max current  $I_e$  in DC3-DC5 with  $L/R \leq 15\text{ms}$  with 2 poles in series

75V	A	350
110V	A	350
220V	A	280
330V	A	--
460V	A	--

IEC max current  $I_e$  in DC3-DC5 with  $L/R \leq 15\text{ms}$  with 3 poles in series

75V	A	350
110V	A	350
220V	A	350
330V	A	280
460V	A	--

IEC max current  $I_e$  in DC3-DC5 with  $L/R \leq 15\text{ms}$  with 4 poles in series

75V	A	350
110V	A	350
220V	A	350
330V	A	280
460V	A	280

Short-time allowable current for 10s (IEC/EN60947-1) A 3600

Protection fuse

gG (IEC)	A	630
aM (IEC)	A	400

Making capacity (RMS value) A 4200

Breaking capacity at voltage

440V	A	4000
500V	A	3400
690V	A	3360

Resistance per pole (average value) m? 0.2

Power dissipation per pole (average value)

I <sub>th</sub>	W	52
AC3	W	32

Tightening torque for terminals

min	Nm	35
max	Nm	35
min	lbin	25.8
max	lbin	25.8

Tightening torque for coil terminal

min	Nm	1
max	Nm	1
min	lbin	0.74
max	lbin	0.74

Max number of wires simultaneously connectable Nr. 2

Conductor section

AWG/Kcmil

max 2x 300 kcmil

Power terminal protection according to IEC/EN 60529 IP00

Mechanical features

## Operating position

	normal allowable	Vertical plan ±30°
Fixing		Screw
Weight	g	11

## Conductor section

AWG/kcmil conductor section	max	2x 300 kcmil
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## Operations

Mechanical life	cycles	10000000
Electrical life	cycles	700000

## Safety related data

Performance level B10d according to EN/ISO 13489-1

rated load	cycles	700000
mechanical load	cycles	10000000

Mirror contacts according to IEC/EN 609474-4-1

EMC compatibility	yes
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## AC coil operating

Rated AC voltage at 50/60Hz	V	48
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## 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 consumption at 20°C

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				
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DC rated control voltage				
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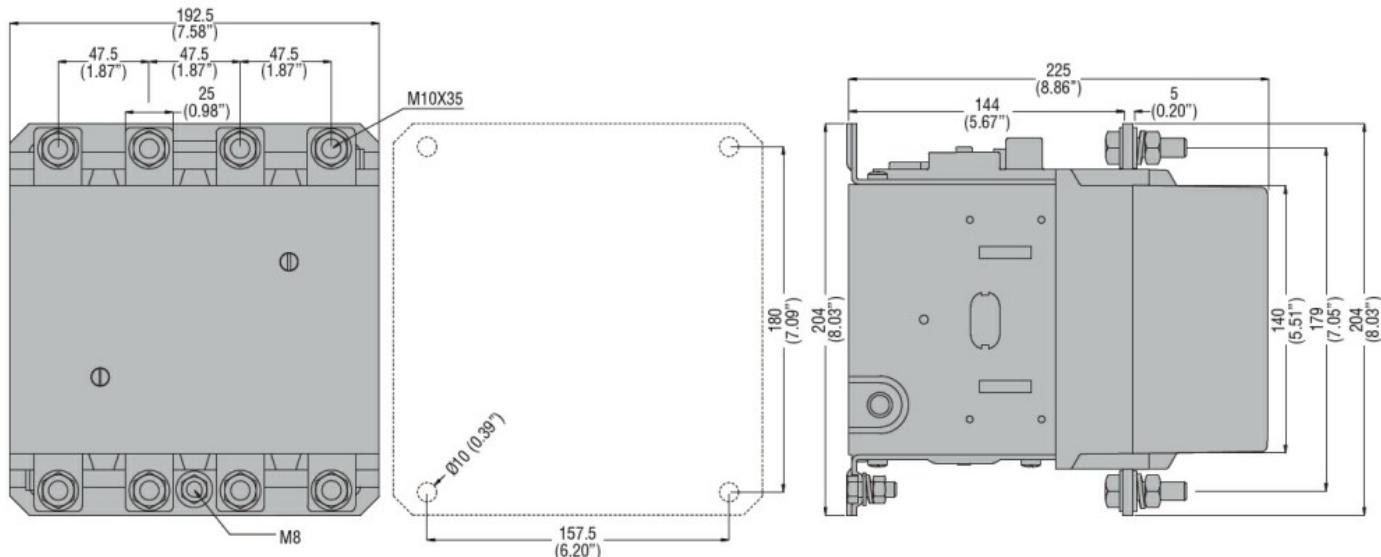
DC operating voltage				
	pick-up	min	%Us	80

	min	%Us	80
	max	%Us	110
drop-out			
	min	%Us	20
	max	%Us	60
Average coil consumption $\leq 20^{\circ}\text{C}$			
	in-rush	W	300
	holding	W	10
<b>Max cycles frequency</b>			
Mechanical operation		cycles/h	2400
<b>Operating times</b>			
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
<b>UL technical data</b>			
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			
	200/208V	HP	125
	220/230V	HP	150
	460/480V	HP	350
	575/600V	HP	400
General USE			
Contactor			
	AC current	A	550
Short-circuit protection fuse, 600V			
Standard fault			
	Short circuit current	kA	18
	Fuse rating	A	800
	Fuse class	L	
<b>Ambient conditions</b>			
Temperature			
Operating temperature			
	min	°C	-50
	max	°C	70
Storage temperature			
	min	°C	-60
	max	°C	80
Max altitude		m	3000
<b>Resistance &amp; Protection</b>			

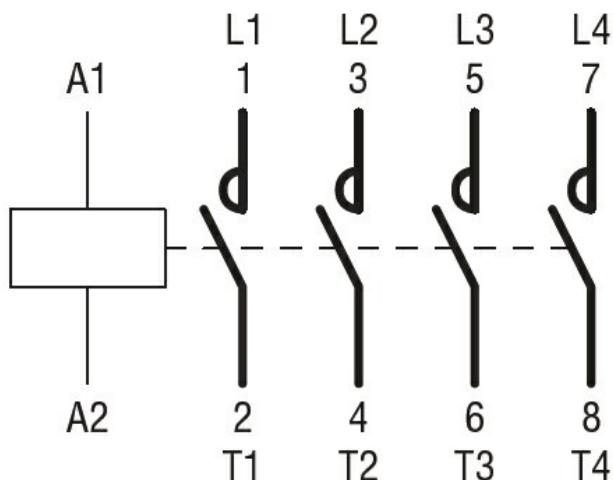
Pollution degree

3

Dimensions



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